MILLING

MILLING

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Tool Selection Guide

Face mills

Series			TANGSFEED	MILLRUSH	MILL2RUSH	MILL2RUSH	CHASEMILL
			4T-TF90	3P TF90	6N TF90	SCRM90TN	TFM90AX 2S-TFM90AP TFM90AP
							
Pages			E38	E39-E41	E42-E44	E45-E46	E47-E50
Approach angle			90°	90°	90°	90°	90°
Max. depth of cut(mm)			8.3-12.5	4.7-15	4.1-9.2	13-15	5.5-17.9
Diameter range(mm)			Ø40-Ø200	Ø32-Ø250	Ø40-Ø250	Ø50-Ø250	Ø32-Ø200
Insert			LPK(H)U 0904 LPKU 1407	3PK(H)T 0603 3PK(H)T 1004 3PK(H)T 1505 3PK(H)T 1906	6NKU 0403 6NGU 0604 6NGU 0905	TNMX 1806 TNM(G)X 2207	AXM(C)T 0602 APK(C)T 09T3 APK(C)T 1204 APK(C)T 1705 APKT1907
Application	Facing		●	●	●	●	●
	High feed milling						○
	Shouldering		●	●	●	●	●
	Slotting		●	●	●	●	●
	Straight ramping		●	●			●
	Helical ramping		●	●			●
	Slanted shoulder & chamfer						
	Side slotting						
	Profiling						○
	Step down						
	Counter boring						

Tool Selection Guide

Face mills

CHASE2MILL	CHASE4MILL	CHASE8MILL	CHASEALU	CHASE4FINISH	CHASE2QUAD
TFM90AN	**4N TF90**	**8D-TF90**	**TFM90XEV**	For Finishing **4W-TF90**	For Finishing **TFM90SNS**
					
E51-E52	E53-E54	E55-E56	E57	E58	E59
90°	90°	90°	90°	-	90°
11-15	3.5-13.8	5.0-8.0	16-21	0.5	1.0
Ø40-Ø200	Ø32-Ø100	Ø32-Ø160	Ø40-Ø200	Ø50-Ø160	Ø50-Ø250
ANM(H)X 1106 ANM(H)X 1607	4NKT 0402 4NK(H)T 0603 4NK(H)T 0904 4NKT 1106 4NKT 1407	SQKU 0703 SQK(H)U 1206	XEVT 1605 XEVT 2206	4WHU 1207	SNEX 1204 SNET 1205
●	●	●	●	●	●
	○				
●	●	●	●		
●	●	●	●		
●	●		●		
●	●		●		
	○				
	●		●		

● Recommended, ○ Suitable

Tool Selection Guide

Face mills

Series			CHASE2QUAD For Finishing TQ90SNS	LIONMILL LM90TP	LIONMILL LM90SE	CHASE2QUAD TFM90SN TFM88SN	CHASE2QUAD TFM75SN
							
Pages			E60	E61	E62	E63-E64	E65
Approach angle			90°	90°	90°	90°, 88°	75°
Max. depth of cut(mm)			1.0	17.6	17.0	12.0	9.5
Diameter range(mm)			Ø250-Ø400	Ø80-Ø315	Ø125-Ø315	Ø50-Ø200	Ø50-Ø250
Insert			SNEX 1204 SNET 1205	TPKN 2204	SEKX 2107	SNGX 1306 SNGX 1306 ZN	SNM(G)X 1306 EN SNMX 1306 XTN
Application	Facing		●	●	●	●	●
	High feed milling						
	Shouldering			●	●	●	
	Slotting						
	Straight ramping						
	Helical ramping						
	Slanted shoulder & chamfer						●
	Side slotting						
	Profiling						
	Step down						
	Counter boring						

Tool Selection Guide

Face mills

LIONMILL	CHASEMILL	CHASE10MILL	LIONMILL	CHASE12MILL	CHASE2HEPTA
LM75SP	**TFM75AP**	**TFM65PT**	**LM60SC**	**12D-TF45**	**14D-F45XN**
					
E66	E67	E68	E69-E70	E71-E72	E73-E74
75°	75°	65°	60°	45°	45°
9.5-12.5	3.9	3.3-6.5	13.0-18.0	3.0-5.0	3.5-5.0
Ø80-Ø315	Ø80-Ø125	Ø40-Ø125	Ø125-Ø315	Ø50-Ø250	Ø50-Ø250
SPKN 1203 SPKN 1504	APKT 1705 PER-M APKT 1705 PER-EM	PTKU 0503 PTKU 1006	SCKN 2107 SCKN 2708	HXK(H)U 0605 HXK(H)U 1007	XNM(H)U 0605 XNM(H)U 0906
●	●	●	●	●	●
●		●	●	●	●

● Recommended, ○ Suitable

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Tool Selection Guide

Face mills

Series			CHASE 2 HEPTA 14D-F45XNH	CHASE 2 HEPTA 14D-F45XNW	CHASE HEPTA 7S-F45	CHASE 2 QUAD TFM45SN	CHASE 2 QUAD TFM45SNS
							
Pages			E75	E76	E77	E78	E79
Approach angle			45°	45°	45°	45°	45°
Max. depth of cut(mm)			3.5-5.0	5.0	3.2	7.0	8.8
Diameter range(mm)			Ø63-Ø125	Ø80-Ø315	Ø32-Ø125	Ø40-Ø250	Ø63-Ø250
Insert			XNM(H)U 0605 XNM(H)U 0906	XNHU 0906	7EMT 0604	SNM(G)X 1306 AN SNMX 1306 XTN	SNMX 1607 SNHX 1606
Application	Facing		●	●	●	●	●
	High feed milling						
	Shouldering						
	Slotting						
	Straight ramping				●		
	Helical ramping				●		
	Slanted shoulder & chamfer		●	●	●	●	●
	Side slotting						
	Profiling						
	Step down						
	Counter boring						

Tool Selection Guide

Face mills

CHASE2QUAD	CHASE2QUAD	CHASE2MILL	LIONMILL	LIONMILL	CHASE2MOLD
TFM45SNS-CA	**TFM45SNW TQ45SNW**	**TFM45AN**	**LM45SD**	**LM45SE**	**TFMRNS**
					
E80	E81	E82	E83	E84	E85-E86
45°	45°	45°	45°	45°	-
8.8	8.8	8.4	6.5-8.7	6.5-8.7	5.0-8.0
Ø125-Ø315	Ø80-Ø355	Ø50-Ø160	Ø80-Ø315	Ø80-Ø250	Ø32-Ø200
SNMX 1607 SNHX 1606	SNHX 1606	ANHX 1607 ANR-M	SDKN 1203 SDKN 1504	SEKN 1203 SEKN 1504	RNMU 1004 RNMU 1205 RNMU 1606
●	●	●	●	●	●
					●
					●
●	●		●	●	
					●

● Recommended, ○ Suitable

Tool Selection Guide

Face mills

Series			CHASEMOLD	CHASESPEED	CHASESPEED	CERAMICSFEED	CERAMICSFEED
			TFMRY	TFMRN	TFMRP	TFMBN-09CH	TFMBN-12
							
Pages			E87-E89	E90	E91	E92	E93
Approach angle			-	-	-	-	-
Max. depth of cut(mm)			4.0-10.0	6.3	6.3	1.5	2.5
Diameter range(mm)			Ø32-Ø250	Ø50-Ø80	Ø50	Ø40-Ø50	Ø50-Ø80
Insert			RYM(H)X 0803 RYM(H)X 1004 RYM(H)X 1205 RYM(H)X 1606 RYMX 2007	RNGN 1207 FL	RPGN 1204 FL	BNGX 0904	BNGX 1207
Application	Facing		●	●	●	●	●
	High feed milling					●	●
	Shouldering						
	Slotting						
	Straight ramping		●	●	●	●	●
	Helical ramping		●	●	●	●	●
	Slanted shoulder & chamfer						
	Side slotting						
	Profiling		●	●	●	●	●
	Step down						
	Counter boring						

Tool Selection Guide

Face mills

CHASE10MILL	CHASE4FEED	CHASE2FEED	CHASEFEED		
TFMPT 	**TFMBL** 	**TFMBL-13** 	**TFMSB** 		
E94	E95-E96	E97-E98	E99-E100		
25°	-	-	-		
1.5-3.0	1.0-2.0	2.0	1.0-2.0		
Ø40-Ø200	Ø32-Ø200	Ø40-Ø250	Ø32-Ø250		
PTKU 0503 PTKU 1006	BLMP 0603 BLMP 0904 BLMP 1105	BLMP 1306	SBMT 0603 SBMT 0904 SBMT 1306		
●	●	●	●		
●	●	●	●		
●	●	●	●		
●	●	●	●		
●	●	●	●		

● Recommended, ○ Suitable

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Tool Selection Guide

End mills & modular heads

Series			MILLSFEED	TANGSFEED	MILLRUSH	MILL2RUSH	MILL2RUSH
			2S-TE90CV	4T-TE90	3P-TE90	6N TE90	SCRM90TN
							
Pages			E101-E102	E103-E104	E105-E110	E111-E112	E113
Approach angle			90°	90°	90°	90°	90°
Max. depth of cut(mm)			5.0	4.6-8.3	3.5-15.0	4.1-9.2	13.0
Diameter range(mm)			Ø6-Ø20	Ø10-Ø40	Ø8-Ø50	Ø20-Ø40	Ø35-Ø40
Insert			CVK(H)T 0502	LPK(H)U 0502 LPK(H)U 0904	3PKT 0402 3PK(H)T 0603 3PK(H)T 1004 3PK(H)T 1505 3PK(H)T 1906	6NKU 0403 6NGU 0604 6NGU 0905	TNMX 1806
Application	Facing		●	●	●	●	●
	High feed milling		○				
	Shouldering		●	●	●	●	●
	Slotting		●	●	●	●	●
	Straight ramping		●	●	●		
	Helical ramping		●	●	●		
	Slanted shoulder & chamfer						
	Profiling		○				
	Plunging						
	Step down						
	Counter boring						

Tool Selection Guide

End mills & modular heads

CHASEMILL	CHASEMILL	CHASE2MILL	CHASE4MILL	CHASE8MILL	CHASEALU
MTE90AX-06-L	**TE90AX 2S-TE90AP TE90AP**	**TE90AN**	**4N TE90**	**8D-TE90**	**TE90XEV-HSK63A**
					
E114	E115-E123	E124-E125	E126-E131	E132-E133	E134
90°	90°	90°	90°	90°	90°
5.5	5.5-17.9	11.0-15.0	3.5-13.8	5.0	16
Ø8-Ø30	Ø8-Ø42	Ø25-Ø50	Ø8-Ø40	Ø16-Ø40	Ø25-Ø50
AXCT 06-L	AXM(C)T 0602 APK(C)T 09T3 APK(C)T 1204 APK(C)T 1705 APKT 1907	ANM(H)X 1106 ANM(H)X 1607	4NKT 0402 4NK(H)T 0603 4NK(H)T 0904 4NKT 1106 4NKT 1407	SQKU 0703	XEVT 1605
●	●	●	●	●	●
	○		○		
●	●	●	●	●	●
●	●	●	●	●	●
	●	●	●		●
	●	●	●		●
	○		○		
			●		●

● Recommended, ○ Suitable

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Tool Selection Guide

End mills & modular heads

Series			CHASEALU TE90XEV	MILLRUSH 3P-TCF	CHASEQUAD TSF	CHASEQUAD TDM	CHASEQUAD TCF
							
Pages			E135	E136-E137	E138	E139	E140
Approach angle			90°	30°-60°	90°	90°	45°-75°
Max. depth of cut(mm)			16-21	-	5.6-13.4	12-40	-
Diameter range(mm)			Ø25-Ø40	Ø3.3-Ø31	Ø12-Ø50	Ø12-Ø50	Ø8.3-Ø38.9
Insert			XEVT 1605 XEVT 2206	3PKT 0402 3PK(H)T 0603 3PK(H)T 1004	XOMT 0602 SPMG(T) 0904 SPMG(T) 1104 SPMG(T) 1405	XOMT 0602 SPMG(T) 0904 SPMG(T) 1104 SPMG(T) 1405	SPMG(T) 1104
Application	Facing		●		●	●	
	High feed milling						
	Shouldering		●		●	●	
	Slotting		●		●	●	
	Straight ramping		●			●	
	Helical ramping		●			●	
	Slanted shoulder & chamfer			●			●
	Profiling						
	Plunging				●	●	
	Step down		●			●	
	Counter boring				●	●	
	Drill mill					●	

Tool Selection Guide

End mills & modular heads

CHASEHEPTA	CHASE2MOLD	CHASEMOLD	FINEBALL	FINEBALL	CHASESPEED
7S-E45	**TERNS**	**TERY**	**TNF**	**TNFR**	**TERP**
					
E141	E142-E143	E144-E146	E147-E149	E150-E152	E153-E154
45°	-	-	-	-	-
3.2	5.0-8.0	4.0-10.0	-	-	4.7-6.3
Ø32-Ø50	Ø25-Ø50	Ø16-Ø50	Ø6-Ø32	Ø6-Ø32	Ø20-Ø40
7EMT 0604	RNMU 1004 RNMU 1205 RNMU 1606	RYM(H)X 0803 RYM(H)X 1004 RYM(H)X 1205 RYM(H)X 1606 RYM(H)X 2007	NFB (NFR)	NFR	RPGN 0903 FL RPGN 1204 FL
●	●	●		●	●
				●	
				●	
●	●	●	●	●	●
●	●	●	●	●	●
●					
	●	●	●	○	●
			(○)	●	
				●	
				●	
				●	

● Recommended, ○ Suitable

Tool Selection Guide

End mills & modular heads

Series			DUETBALL 2F	TRIOBALL 3F	CHASE2BALL TDB50X	CHASE2BALL TDB50X-WT	
							
Pages			E155-E156	E157	E158	E159	
Approach angle			-	-	-	-	
Max. depth of cut(mm)			11.8-55.3	39-94	59-69	59-69	
Diameter range(mm)			Ø16-Ø32	Ø32-Ø50	Ø50	Ø50	
Insert			2FB APKT 09T3 APKT 1204	3FB CNHX 1311 CNHX 1606	6RBE 50-M	6RBE 50-M	
Application	Facing						
	High feed milling						
	Shouldering						
	Slotting						
	Straight ramping		●	●	●	●	
	Helical ramping		●	●	●	●	
	Slanted shoulder & chamfer						
	Profiling		●	●	●	●	
	Plunging						
	Step down						
	Counter boring						
	Drill mill						

Tool Selection Guide

High feed end mills & modular heads

NANRUSH	CERAMICSFEED	CHASE10MILL	CHASE4FEED	CHASE2FEED	CHASEFEED
THFN 	**TEBN-09CH** 	**TEPT** 	**TEBL** 	**TEBL-13** 	**TESB** 
E160-E161	E162	E163	E164-E171	E172	E173-E175
20°	-	25 °	-	-	-
0.3-0.5	1.5	1.5-3.0	0.5-2.0	2.0	1.0-2.0
Ø6-Ø8	Ø25-Ø40	Ø20-Ø40	Ø8-Ø42	Ø32-Ø42	Ø16-Ø42
HFN 060 HFN 080	BNGX 0904	PTKU 0503 PTKU 1006	BLMP 0402 BLMP 0603 BLMP 0904 BLMP 1105	BLMP 1306	SBMT 0603 SBMT 0904 SBMT 1306
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●

● Recommended, ○ Suitable

Tool Selection Guide

Extended flute cutters

Series			TANGSFEED 4T-TEF	TANGSFEED 4T-TES	CHASEVQUAD 4S-TEF 4S-TES	MILLRUSH 3P TEF 3P TES	MILL2RUSH TEF-TN TES-TN
							
Pages			E176	E177	E178-E179	E180-E181	E182-E183
Approach angle			90°	90°	90°	90°	90°
Max. depth of cut(mm)			15-51	34-56	52-77.9	20-83	48-71
Diameter range(mm)			Ø16-Ø40	Ø50-Ø100	Ø32-Ø80	Ø20-Ø100	Ø50-Ø100
Insert			LPK(H)U 0502 LPK(H)U 0904	LPKU 1407	SVK(H)T 1145	3PK(H)T 0603 3PK(H)T 1004 3PK(H)T 1505 3PK(H)T 1906	TNMX 1806
Application	Facing						
	High feed milling						
	Shouldering		●	●	●	●	●
	Slotting		●	●	●	●	●
	Trochoidal milling		●	●	●		
	Straight ramping						
	Helical ramping						
	Slanted shoulder & chamfer						
	Profiling						
	Plunging						
	Step down						
	Counter boring						

Tool Selection Guide

Extended flute cutters

CHASE2MILL	CHASEMILL	CHASEMILL	CHASEQUAD		
TEF-AN **TES-AN** 	**TEF-AX** **2S-TEF-AP** **TEF-AP** 	**TES-AP** 	**TEF** **TES** 		
E184-E185	E186	E187	E188		
90°	90°	90°	90°		
40-69	16-45	45-88	23.8-48.4		
Ø32-Ø100	Ø16-Ø40	Ø50-Ø100	Ø32-Ø80		
ANM(H)X 1106 ANM(H)X 1607	AXM(C)T 0602 APK(C)T 09T3 APK(C)T 1204 APK(C)T 1705	APK(C)T 1204 APK(C)T 1705	SPMG(T) 0904 SPMG(T) 1104 SPMG(T) 1405		
●	●	●	●		
●	●	●	●		
	●	●			

● Recommended, ○ Suitable

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Tool Selection Guide

Slotting cutters

Series			TOPSLOT TSM-TS16	TOPSLOT TSM-SL	TOPSLOT TSM-FD-Z	TOPSLOT TSM-FD-ZN	TOPSLOT TSM-FD -S/W-ZN
							
Pages			E189-E190	E191-E192	E193-E194	E195	E196-E198
Approach angle			-	-	-	-	-
Max. width of cut(mm)			1.2-6.0	3-6	3-10	10-20	10-26
Diameter range(mm)			Ø32.2-Ø80	Ø25-Ø63	Ø63-Ø250	Ø80-Ø125	Ø100-Ø315
Insert			TS16	SLOT	ZNHT	ZNHU 080 ZNHU 110	ZNHU 080 ZNHU 110 ZNHU 140
Application	Facing		●				
	Shouldering						
	Slotting						
	T slotting		●	●			
	Side slotting		●	●	●	●	●
	Internal groove milling		●	●			
	Bottom shouldering		●	●	●	●	●
	Slitting				●	●	●
	External threading						
	Internal threading						

Tool Selection Guide

Slotting cutters

TOPSLOT	TOPSLOT	TOPSLOT	TSC Slotting Cutter	MAXISLOT	MAXISLOT
TSM-FF-Z	**TSM-FF-ZN**	**TSM-FF-S/W-ZN**	**TSC**	**TR-S**	**TR-F**
					
E199	E200	E201-E203	E204	E205	E206
-	-	-	-	-	-
3-10	10-20	10-26	1.6-4.52	3-10	8-10
Ø80-Ø160	Ø63-Ø125	Ø100-Ø315	Ø75-Ø160	Ø24.7-Ø39.7	Ø24.25-Ø39.25
ZNHT	ZNHU 080 ZNHU 110	ZNHU 080 ZNHU 110 ZNHU 140	TIMC TIMJ TIPV	-	-
					●
					●
●	●	●		●	
●	●	●	●	●	
●	●	●		●	●
			●		

● Recommended, ○ Suitable

Tool Selection Guide

Slotting cutters

Series		MAXISLOT **TR-T-W55** **TR-T-M60** 				
Pages		E207				
Approach angle		-				
Max. width of cut(mm)		7.7-9.5				
Diameter range(mm)		Ø24.7-Ø39.7				
Insert		-				
Application	Facing						
	Shouldering						
	Slotting						
	T slotting						
	Side slotting						
	Internal groove milling						
	Bottom shouldering						
	Slitting						
	External threading		●				
	Internal threading		●				

Tool Selection Guide

Milling inserts

Series			MILLSFEED	TANGSFEED	MILLRUSH	MILL2RUSH	MILL2RUSH
			CVK(H)T 0502	LPK(H)U 0502 LPK(H)U 0904 LPKU 1407	3PKT 0402 3PK(H)T 0603 3PK(H)T 1004 3PK(H)T 1505 3PK(H)T 1906	6NKU 0403 6NGU 0604 6NGU 0905	TNMX 1806 TNM(G)X 2207
							
Material			P M K S H	P M K S H	P M K N S H	P M K N S H	P M K S H
Pages			E235	E238	E216-E217	E221-E222	E261
Approach angle			90°	90°	90°	90°	90°
Max. depth of cut(mm)			0.5-5	4.6-12.5	3.5-15	4.1-9.2	13-15
Application	Facing		●	●	●	●	●
	High feed milling		○				
	Shouldering		●	●	●	●	●
	Slotting		●	●	●	●	●
	Straight ramping		●	●	●		
	Helical ramping		●	●	●		
	Slanted shoulder & chamfer						
	Profiling		○				
	Plunging						
	Step down						
	Counter boring						

● Recommended, ○ Suitable

TaeguTec

Tool Selection Guide

Milling inserts

Series			CHASEMILL AXCT 0602-L 	CHASEMILL AXM(C)T 0602 APK(C)T 09T3 APK(C)T 1204 APK(C)T 1705 APKT 1907 	CHASEMILL APCT 12-PCD35 	CHASE2MILL ANM(H)X 1106 ANM(H)X 1607 	CHASE4MILL 4NKT 0402 4NK(H)T 0603 4NK(H)T 0904 4NKT 1106 4NKT 1407 
Material			P M S	P M K N S H	N	P M K N S H	P M K N S H
Pages			E230	E225-E231	E226	E224	E218-E219
Approach angle			90°	90°	90°	90°	90°
Max. depth of cut(mm)			5.5	0.5-17.9	3.5	11-15	0.5-13.8
Application	Facing		●	●	●	●	●
	High feed milling			○			○
	Shouldering		●	●	●	●	●
	Slotting		●	●	●	●	●
	Straight ramping			●		●	●
	Helical ramping			●		●	●
	Slanted shoulder & chamfer						
	Profiling			○			○
	Plunging						
	Step down						●
	Counter boring						

Tool Selection Guide

Milling inserts

CHASE8MILL	CHASE4ALU	CHASE4FINISH	CHASE2QUAD	LIONMILL	LIONMILL
SQKU 0703 SQK(H)U 1206	XEVT 1605 XEVT 2206	4WHU 1207	SNEX 1204 SNET 1205	TPKN 2204	SEKX 2107
					
P M K	N	P M K N S H	P K	P M K	P K
E257	E264	E220	E251	E262	E249
90°	90°	90°	90°	90°	90°
5.0-8.0	14-21	0.5	1.0	17.6	17
●	●	●	●	●	●
●	●			●	●
●	●			●	
	●				
	●				
	●				

● Recommended, ○ Suitable

TaeguTec

Tool Selection Guide

Milling inserts

Series			CHASE VQUAD SVK(H)T 1145	CHASE 2QUAD SNGX 1306... SNGX 1306 ZN	CHASE 2QUAD SNM(G)X 1306 EN... SNMX 1306 XTN	LIONMILL SPKN 1203 SPKN 1504	CHASEMILL APKT 1705
							
Material			P M K S H	P M K	P M K	P M K	P M K N S H
Pages			E258	E253	E252	E256	E228
Approach angle			90°	90°, 88°	75°	75°	75°
Max. depth of cut(mm)			9-10	10-12	9.5	9.5-12.5	3.9
Application	Facing			●	●	●	●
	High feed milling						
	Shouldering		●	●			
	Slotting		●				
	Straight ramping						
	Helical ramping						
	Slanted shoulder & chamfer				●	●	
	Profiling						
	Plunging						
	Step down						
	Counter boring						

Tool Selection Guide

Milling inserts

CHASE 10 MILL	LION MILL	CHASE 12 MILL	CHASE 2 HEPTA	CHASE HEPTA	CHASE 2 QUAD
PTKU 0503 PTKU 1006	SCKN 2107 SCKN 2708	HXK(H)U 0605 HXK(H)U 1007	XNM(H)U 0605 XNM(H)U 0906	7EMT 0604	SNM(G)X 1306 AN... SNMX 1306 XTN
					
P M K	P K	P K	P M K	P M K	P M K N
E242	E248	E237	E265-E266	E223	E252
65°	60°	45°	45°	45°	45°
3.3-6.5	13-18	3.0-5.0	1.0-5.0	3.2	6-7
●	●	●	●	●	●
				●	
				●	
●	●	●	●	●	●

● Recommended, ○ Suitable

TaeguTec

Tool Selection Guide

Milling inserts

Series			CHASE2QUAD	CHASE2MILL	LIONMILL	CHASE2MOLD	CHASEMOLD
			SNMX 1607 SNHX 1606	ANHX 1607	SDKN 1203 SDKN 1504 SEKN 1203 SEKN 1504	RNMU 1004 RNMU 1205 RNMU 1606	RYM(H)X 0803 RYM(H)X 1004 RYM(H)X 1205 RYM(H)X 1606 RYMX 2007
							
Material			P M K	P M K N S	P	P M K S H	P M K S H
Pages			E254	E223	E248-E249	E244	E245-E246
Approach angle			45°	45°	45°	-	-
Max. depth of cut(mm)			8.8	8.4	6.5-8.7	5-8	4-10
Application	Facing		●	●	●	●	●
	High feed milling						
	Shouldering						
	Slotting						
	Straight ramping					●	●
	Helical ramping					●	●
	Slanted shoulder & chamfer		●		●		
	Profiling					●	●
	Plunging						
	Step down						
	Counter boring						

Tool Selection Guide

Milling inserts

CHASE SPEED	CERAMIC SPEED	CERAMIC SPEED	CHASE 10 MILL	CHASE 4 FEED	CHASE 2 FEED
RNGN 1207 FL RPGN 0903 FL RPGN 1204 FL	BNGX 0904	BNGX 1207	PTKU 0503 PTKU 1006	BLMP 0402 BLMP 0603 BLMP 0904 BLMP 1105	BLMP 1306
					
S	S	S	P M K	P M K S H	P M K S H
E243	E234	E234	E242	E232	E233
-	-	-	25°	-	-
4.7-6.3	1.5	2.5	1.5-3.0	0.5-2.0	2.0
●	●	●	●	●	●
	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●

● Recommended, ○ Suitable

Tool Selection Guide

Milling inserts

Series	CHASEFEED	MILLRUSH	CHASEQUAD	NANRUSH	FINEBALL
	SBMT 0603 SBMT 0904 SBMT 1306	3PKT 0402 3PK(H)T 0603 3PK(H)T 1004	SPMG(T) 0904 SPMG(T) 1104 SPMG(T) 1405 XOMT 0602	HFN 060 HFN 080	NFB
					
Material	P M K S H	P M K N S H	P M K	P M K S H	P M K S H
Pages	E247	E216	E255	E236	E239
Approach angle	-	30°-60°	15°-45°, 90°	20°	-
Max. depth of cut(mm)	1.0-2.0	-	-	0.3-0.5	-
Application Facing	●		●	●	
High feed milling	●			●	
Shouldering			●		
Slotting			●		
Straight ramping	●		●	●	●
Helical ramping	●		●	●	●
Slanted shoulder & chamfer		●	●		
Profiling	●			●	●
Plunging			●		
Step down			●		
Counter boring			●		
Drill mill			●		

Tool Selection Guide

Milling inserts

FINEBALL	DUETBALL	TRIOBALL	CHASE2BALL		
NFR	**2FB**	**3FB**	**6RBE**		
					
P M K S H	P M K S H	P M K S H	P M K S H		
E240-E241	E214	E215	E222		
-	-	-	-		
-	11.8-44.7	39-94	59-69		
●					
●					
●					
●	●	●	●		
●	●	●	●		
○	●	●	●		
●					
●					
●					
●					

● Recommended, ○ Suitable

TaeguTec

Tool Selection Guide

Slotting inserts

Series			TOPSLOT TS16	TOPSLOT SLOT	TOPSLOT ZNHT	TOPSLOT ZNHU	TSC slotting cutter TIMC TIMJ TIPV
							
Material			P M K S H	P M K	P M K N	P M K	P M K N
Pages			E263	E250	E267	E268	E259-E260
Approach angle			-	-	-	-	-
Max. depth of cut(mm)			4.8	*	*	*	
Application	Facing		●				
	Shouldering						
	Slotting						
	Straight ramping						
	Helical ramping						
	Side slotting		●	●	●	●	●
	Profiling						
	Plunging						
	Step down						
	Counter boring						
	Drill mill						
	Slitting				●	●	●

• ' * ' Marked: For CDX, refer to the cutter page

Tool Selection Guide

Tailor-made inserts

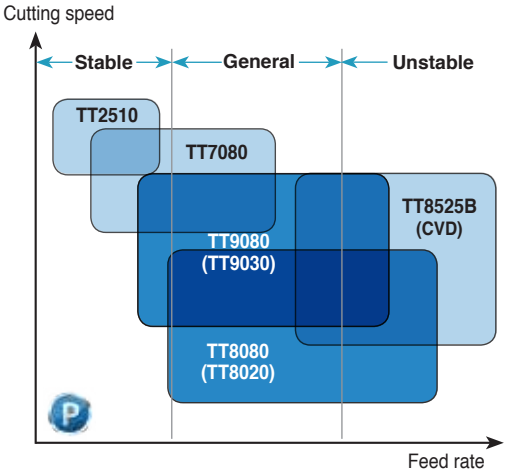
Tailor-made Insert					
LNC PMIN SNA SNB 					
P M K N S H					
E269-E270					
-					
●					
●					
●					
●					

● Recommended, ○ Suitable

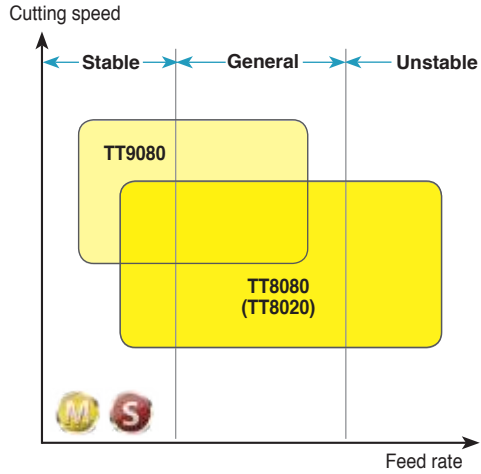
Grades

Selection guide for milling grades

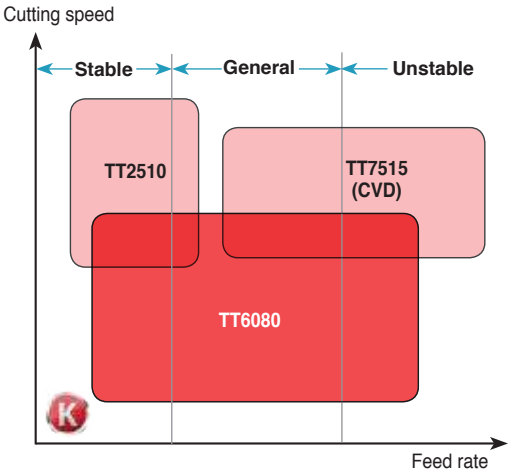
For steel



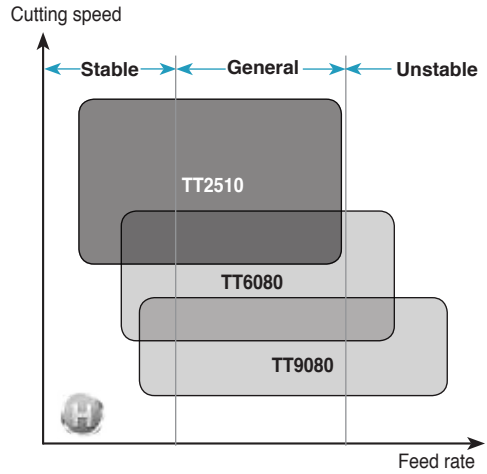
For stainless steel & super alloy



For cast iron



For hardened material



Grades

Carbide grades

Grades	ISO	Charactristics & applications
K10 Carbide	K05 – K15 N05 – N15 S05 – S15	• General machining of cast iron, aluminum alloys and non-ferrous materials
TT2510 PVD coated	P05 – P25 H05 – H25	• High speed milling of pre-hardened steel and hardened steel
TT6080 PVD coated	K05 – K25 H05 – H25	• General machining for gray and ductile cast iron • Finish and medium machining of hardened steel
TT7080 PVD coated	P05 – P25 K05 – K25	• General milling of steel • Heavy interrupted cutting of cast iron
TT9080 PVD coated	P20 – P40 M20 – M40 S20 – S40	• General machining of steel, stainless steel and heat-resistant alloy
TT9030 PVD coated	P20 – P40 M20 – M40 S20 – S40	• General machining of steel, stainless steel and heat-resistant alloy
TT8080 PVD coated	P30 – P50 M30 – M50 S30 – S50	• Interrupted and rough machining of steel and stainless steel • Low speed and interrupted machining of heat-resistant alloy
TT8020 PVD coated	P30 – P50 M30 – M50 S30 – S50	• Interrupted and rough machining of steel and stainless steel • Low speed and interrupted machining of heat-resistant alloy
TT5515 PVD coated	P10 – P30 M10 – M30 K10 – K30 S10 – S30 H10 – H30	• High speed milling of steel and hardened steel • General milling of stainless steel, cast iron and heat-resistant alloy
TT5525 PVD coated	P20 – P40 M20 – M40 S20 – S40	• General machining of steel, stainless steel and heat-resistant alloy
TT7515 CVD coated	K05 – K25 H05 – H25	• General machining for gray and ductile cast iron • Finish and medium machining of hardened steel
TT8525B CVD coated	P30 – P45 M30 – M45	• Rough milling & high speed drilling of carbon & alloy steel • Medium speed milling of stainless steel

Grades

Cermet, ceramic and CBN grades

Grades	ISO	Charactristics & applications
CT7000 cermet	P15 – P25 M15 – M25	• Finish milling of steel and stainless steel
AS10 Ceramic	K20 – K30	• General milling of cast iron
TC3030 Ceramic	S25 – S35	• High feed milling of super alloy • SiAlON ceramic grade
TB7015 CBN	H25 – H35 K10 – K20	• Machining of hardened steel • High speed machining of cast iron

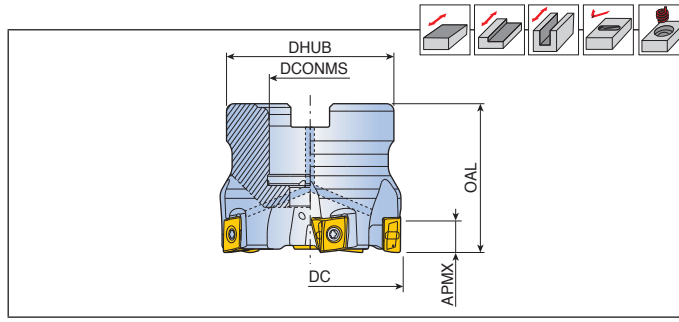
Milling Cutters

4T-TF90-09/14

TANGSFEED

Face mills

90°



Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
4T-TF90-640-16R-09	6	40	16	38	40	8.3	•	A	0.3	SH M8x30	LPK(H)U 0904... E238
550-22R-09	5	50	22	45	40	8.3	•	A	0.4	SH M10x30	
750-22R-09	7	50	22	45	40	8.3	•	A	0.4	SH M10x30	
663-22R-09	6	63	22	47	40	8.3	•	A	0.5	SH M10x30	
1063-22R-09	10	63	22	47	40	8.3	•	A	0.5	SH M10x30	
4T-TF90-440-16R-14	4	40	16	38	40	12.5	•	A	0.3	SH M8x30	LPKU 1407... E238
450-22R-14	4	50	22	45	40	12.5	•	A	0.3	SH M10x30	
650-22R-14	6	50	22	45	40	12.5	•	A	0.3	SH M10x30	
563-22R-14	5	63	22	47	40	12.5	•	A	0.5	SH M10x30	
863-22R-14	8	63	22	47	40	12.5	•	A	0.5	SH M10x30	
780-27R-14	7	80	27	58	50	12.5	•	A	1.0	SH M12x35	
1080-27R-14	10	80	27	58	50	12.5	•	A	1.2	SH M12x35	
8100-32R-14	8	100	32	85	50	12.5	•	A	2.0	SH M16x35	
12100-32R-14	12	100	32	85	50	12.5	•	A	2.1	SH M16x35	
10125-40R-14	10	125	40	85	63	12.5	•	A	3.1	SH M20x40	
14125-40R-14	14	125	40	85	63	12.5	•	A	3.3	SH M20x40	
12160-40R-14	12	160	40	110	63	12.5	x	C	4.1	-	
16160-40R-14	16	160	40	110	63	12.5	x	C	4.3	-	
14200-60R-14	14	200	60	130	63	12.5	x	C	5.7	-	
18200-60R-14	18	200	60	130	63	12.5	x	C	5.8	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

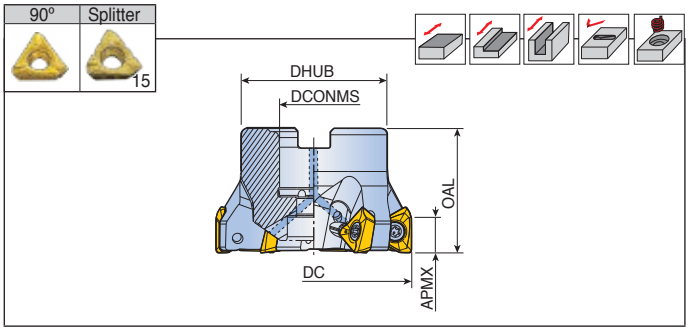
Designation	Screw	Wrench	Wrench handle		
4T-TF90-09	TS 30D082-P	TBLD T08P-W4	THND 4W	-	
4T-TF90-14	TS 40G110I	TBLD T15-W6	-	SW6-T	

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E288-E289

3P TF90-06/10/15

MILLRUSH

Face mills

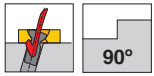


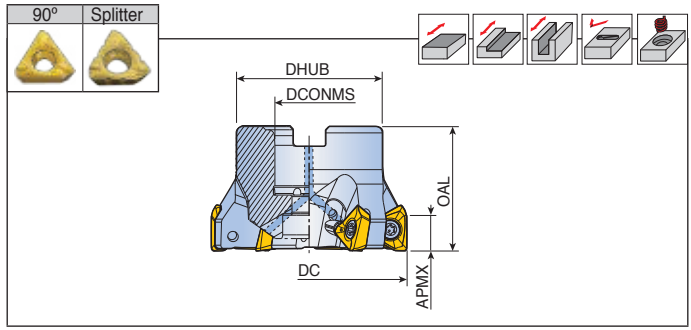
Designation			Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
			DC	DCONMS	DHUB	OAL	APMX					
3P TF90-	632-16R-06	6	32	16	30	32	4.7	●	A	0.1	SH M8x30	3PK(H)T 0603... E216
	732-16R-06	7	32	16	30	32	4.7	●	A	0.1	SH M8x30	
	735-16R-06	7	35	16	30	35	4.7	●	A	0.1	SH M8x30	
	840-16R-06	8	40	16	38	40	4.7	●	A	0.2	SH M8x30	
	840-22R-06	8	40	22	38	40	4.7	●	A	0.2	SH M10x30	
3P TF90-	540-16R-10	5	40	16	38	40	7	●	A	0.3	SH M8x30	3PK(H)T 1004... E216
	640-16R-10	6	40	16	38	40	7	●	A	0.3	SH M8x30	
	650-22R-10	6	50	22	45	40	7	●	A	0.4	SH M10x30	
	750-22R-10	7	50	22	45	40	7	●	A	0.4	SH M10x30	
	663-22R-10	6	63	22	45	40	7	●	A	0.5	SH M10x30	
	863-22R-10	8	63	22	47	40	7	●	A	0.5	SH M10x30	
	963-22R-10	9	63	22	47	40	7	●	A	0.5	SH M10x30	
3P TF90-	450-22R-15	4	50	22	45	40	11	●	A	0.3	SH M10x30	3PK(H)T 1505... E216-217
	550-22R-15	5	50	22	45	40	11	●	A	0.3	SH M10x30	
	463-22R-15-B	4	63	22	47	40	11	●	A	0.5	SH M10x30	
	663-22R-15	6	63	22	47	40	11	●	A	0.5	SH M10x30	
	480-27R-15-B	4	80	27	58	50	11	●	A	1.0	SH M12x35	
	780-27R-15	7	80	27	58	50	11	●	A	1.0	SH M12x35	
	880-27R-15	8	80	27	58	50	11	●	A	1.0	SH M12x35	
	6100-32R-15-B	6	100	32	85	50	11	●	A	1.8	LH M16x35	
	8100-32R-15	8	100	32	85	50	11	●	A	1.9	LH M16x35	
	10100-32R-15	10	100	32	85	50	11	●	A	1.9	LH M16x35	
	7125-40R-15-B	7	125	40	85	63	11	●	A	3.0	SH M20x40	
	10125-40R-15	10	125	40	85	63	11	●	A	3.1	SH M20x40	
	12125-40R-15	12	125	40	85	63	11	●	A	3.1	SH M20x40	
	12160-40R-15	12	160	40	110	63	11	x	C	4.4	-	
	15160-40R-15	15	160	40	110	63	11	x	C	4.4	-	
	15200-60R-15	15	200	60	130	63	11	x	C	6.0	-	
	18200-60R-15	18	200	60	130	63	11	x	C	5.8	-	

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E291-E292

3P TF90-19

Face mills





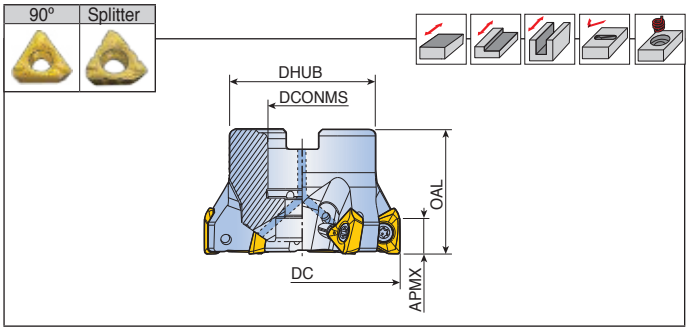
Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
3P TF90- 463-22R-19	4	63	22	47	40	15	●	A	0.4	SH M10x30	3PK(H)T 1906...
663-22R-19	6	63	22	47	40	15	●	A	0.9	SH M10x30	E216-217
480-27R-19	4	80	27	58	50	15	●	A	0.9	SH M12x35	
780-27R-19	7	80	27	58	50	15	●	A	1.0	SH M12x35	
6100-32R-19	6	100	32	85	50	15	●	A	1.8	LH M16x35	
8100-32R-19	8	100	32	85	50	15	●	A	2.6	LH M16x35	
8125-40R-19	8	125	40	85	63	15	●	A	3.0	SH M20x40	
10125-40R-19	10	125	40	85	63	15	●	A	3.1	SH M20x40	
8160-40R-19	8	160	40	110	63	15	x	C	4.2	-	
12160-40R-19	12	160	40	110	63	15	x	C	4.3	-	
10200-60R-19	10	200	60	130	63	15	x	C	6.0	-	
14200-60R-19	14	200	60	130	63	15	x	C	6.0	-	
12250-60R-19	12	250	60	160	63	15	x	C	10.5	-	
16250-60R-19	16	250	60	160	63	15	x	C	10.5	-	

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E291-E292

3P TF90-15/19

MILLRUSH

Face mills (Inch bore)



Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
3P TF90-780-25.4R-15	7	80	25.4	70	50	11	•	A	1.0	SH M12x35	3PK(H)T 1505...
880-25.4R-15	8	80	25.4	70	50	11	•	A	1.0	SH M12x35	E216-217
8100-31.75R-15	8	100	31.75	80	50	11	x	B	1.9	-	
10100-31.75R-15	10	100	31.75	80	50	11	x	B	1.9	-	
10125-38.1R-15	10	125	38.1	80	63	11	x	B	3.1	-	
12125-38.1R-15	12	125	38.1	80	63	11	x	B	3.1	-	
12160-50.8R-15	12	160	50.8	100	63	11	x	B	4.4	-	
15160-50.8R-15	15	160	50.8	100	63	11	x	B	4.4	-	
15200-47.625R-15	15	200	47.625	130	63	11	x	C	6.0	-	
3P TF90-480-25.4R-19	4	80	25.4	70	50	15	•	A	0.9	SH M12x35	3PK(H)T 1906...
780-25.4R-19	7	80	25.4	70	50	15	•	A	1.0	SH M12x35	E216-217
6100-31.75R-19	6	100	31.75	80	50	15	x	B	1.8	-	
8100-31.75R-19	8	100	31.75	80	50	15	x	B	2.6	-	
8125-38.1R-19	8	125	38.1	80	63	15	x	B	3.0	-	
10125-38.1R-19	10	125	38.1	80	63	15	x	B	3.1	-	
8160-50.8R-19	8	160	50.8	100	63	15	x	B	4.2	-	
12160-50.8R-19	12	160	50.8	100	63	15	x	B	4.3	-	
10200-47.625R-19	10	200	47.625	130	63	15	x	C	6.0	-	
14200-47.625R-19	14	200	47.625	130	63	15	x	C	6.0	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

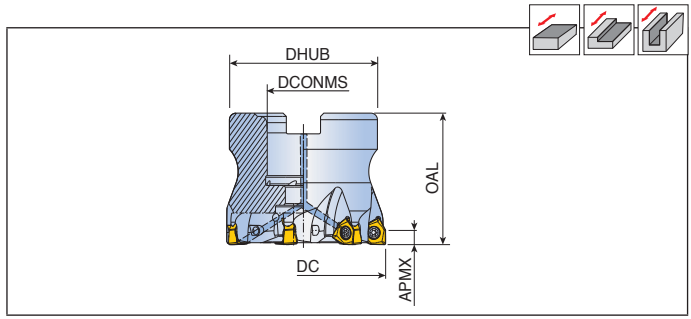
Designation	Screw	Wrench			
3P TF90-06	TS 20043I/HG-P	TD 6P	-		
3P TF90-10	TS 25C065I/HG	TD 8	-		
3P TF90-15	TS 40B100I	TD 15	-		
3P TF90-19	TS 45120I	-	T-T20		

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E291-E292

6N TF90-04

MILL2RUSH

Face mills



90°

Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
6N TF90-540-16R-04	5	40	16	38	40	4.1	●	A	0.2	SH M8x30	6NKU 0403... E222
740-16R-04	7	40	16	38	40	4.1	●	A	0.2	SH M8x30	
750-22R-04	7	50	22	45	40	4.1	●	A	0.3	LH M10x25	
950-22R-04	9	50	22	45	40	4.1	●	A	0.3	LH M10x25	
863-22R-04	8	63	22	47	40	4.1	●	A	0.5	LH M10x25	
1063-22R-04	10	63	22	47	40	4.1	●	A	0.5	LH M10x25	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
6N TF90-04	TS 25064I	TD 8			

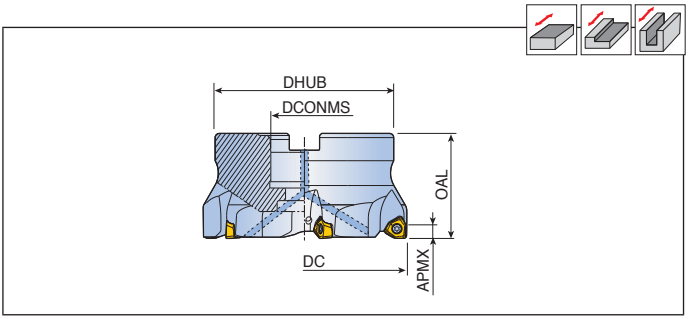
Cutting Condition E271-E273
Arbor Style E274-E275

ADVANCE CUTTING TaeguTec

6N TF90-06/09

MILL2RUSH

Face mills



90°

Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
6N TF90-440-16R-06	4	40	16	38	40	6.2	●	A	0.3	SH M8x30	6NGU 0604...
450-22R-06	4	50	22	45	40	6.2	●	A	0.4	LH M10x25	E221
650-22R-06	6	50	22	45	40	6.2	●	A	0.4	LH M10x25	
463-22R-06	4	63	22	47	40	6.2	●	A	0.5	LH M10x25	
663-22R-06	6	63	22	47	40	6.2	●	A	0.5	LH M10x25	
763-22R-06	7	63	22	47	40	6.2	●	A	0.5	LH M10x25	
580-27R-06	5	80	27	58	50	6.2	●	A	1.0	SH M12x35	
780-27R-06	7	80	27	58	50	6.2	●	A	1.0	SH M12x35	
980-27R-06	9	80	27	58	50	6.2	●	A	1.0	SH M12x35	
6100-32R-06	6	100	32	85	50	6.2	●	A	1.9	SH M16x35	
8100-32R-06	8	100	32	85	50	6.2	●	A	1.9	SH M16x35	
11100-32R-06	11	100	32	85	50	6.2	●	A	1.9	SH M16x35	
7125-40R-06	7	125	40	85	63	6.2	●	A	3.2	SH M20x40	
11125-40R-06	11	125	40	85	63	6.2	●	A	3.2	SH M20x40	
14125-40R-06	14	125	40	85	63	6.2	●	A	3.2	SH M20x40	
6N TF90-450-22R-09	4	50	22	45	40	9.2	●	A	0.3	LH M10x25	6NGU 0905...
550-22R-09	5	50	22	45	40	9.2	●	A	0.4	LH M10x25	E221
463-22R-09	4	63	22	47	40	9.2	●	A	0.5	LH M10x25	
663-22R-09	6	63	22	47	40	9.2	●	A	0.5	LH M10x25	
763-22R-09	7	63	22	47	40	9.2	●	A	0.5	LH M10x25	
580-27R-09	5	80	27	58	50	9.2	●	A	1.0	SH M12x35	
780-27R-09	7	80	27	58	50	9.2	●	A	1.1	SH M12x35	
980-27R-09	9	80	27	58	50	9.2	●	A	1.1	SH M12x35	
6100-32R-09	6	100	32	85	50	9.2	●	A	1.9	LH M16x35	
8100-32R-09	8	100	32	85	50	9.2	●	A	1.8	LH M16x35	
11100-32R-09	11	100	32	85	50	9.2	●	A	1.9	LH M16x35	
7125-40R-09	7	125	40	85	63	9.2	●	A	3.1	SH M20x40	
11125-40R-09	11	125	40	85	63	9.2	●	A	3.1	SH M20x40	
14125-40R-09	14	125	40	85	63	9.2	●	A	3.2	SH M20x40	
12160-40R-09	12	160	40	110	63	9.2	x	C	4.3	-	
16160-40R-09	16	160	40	110	63	9.2	x	C	4.3	-	
14200-60R-09	14	200	60	130	63	9.2	x	C	5.9	-	
18200-60R-09	18	200	60	130	63	9.2	x	C	5.9	-	
18250-60R-09	18	250	60	160	63	9.2	x	C	10.7	-	
22250-60R-09	22	250	60	160	63	9.2	x	C	10.8	-	

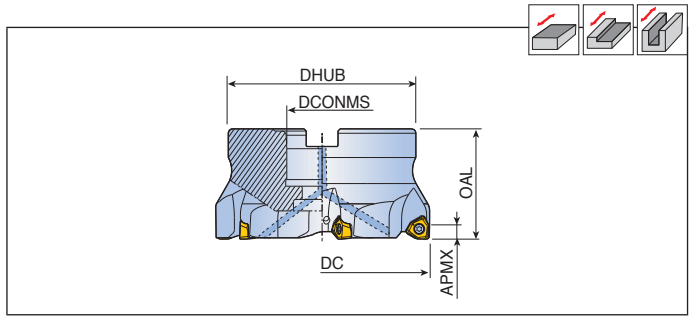
Cutting Condition E271-E273
Arbor Style E274-E275

TaeguTec

6N TF90-06/09

MILL2RUSH

Face mills (Inch bore)



90°

Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
6N TF90-580-25.4R-06	5	80	25.4	70	50	6.2	●	A	1.0	SH M12x35	6NGU 0604...
780-25.4R-06	7	80	25.4	70	50	6.2	●	A	1.0	SH M12x35	E221
980-25.4R-06	9	80	25.4	70	50	6.2	●	A	1.0	SH M12x35	
6100-31.75R-06	6	100	31.75	80	50	6.2	x	B	1.9	-	
8100-31.75R-06	8	100	31.75	80	50	6.2	x	B	1.9	-	
11100-31.75R-06	11	100	31.75	80	50	6.2	x	B	1.9	-	
7125-38.1R-06	7	125	38.1	80	63	6.2	x	B	3.2	-	
6N TF90-580-25.4R-09	5	80	25.4	58	50	9.2	●	A	1.0	SH M12x35	6NGU 0905...
780-25.4R-09	7	80	25.4	58	50	9.2	●	A	1.1	SH M12x35	E221
980-25.4R-09	9	80	25.4	58	50	9.2	●	A	1.1	SH M12x35	
6100-31.75R-09	6	100	31.75	80	50	9.2	x	B	1.9	-	
8100-31.75R-09	8	100	31.75	80	50	9.2	x	B	1.8	-	
11100-31.75R-09	11	100	31.75	80	50	9.2	x	B	1.9	-	
7125-38.1R-09	7	125	38.1	80	63	9.2	x	B	3.1	-	
11125-38.1R-09	11	125	38.1	80	63	9.2	x	B	3.1	-	
14125-38.1R-09	14	125	38.1	80	63	9.2	x	B	3.2	-	
12160-50.8R-09	12	160	50.8	100	63	9.2	x	B	4.3	-	
16160-50.8R-09	16	160	50.8	100	63	9.2	x	B	4.3	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
6N TF90-06	TS 30085I/HG	TD 9	-		
6N TF90-09	TS 40B100I	-	T-T15		

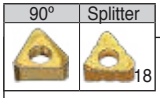
Cutting Condition E271-E273
Arbor Style E274-E275

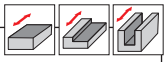
ADVANCE CUTTING TaeguTec

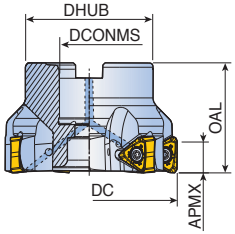
SCRM90TN-18/22

MILL2RUSH

Face mills







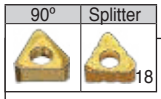
Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
SCRM90TN 450-16R-18	4	50	16	38	40	13	●	A	0.3	SH M8x30	TNMX 1806...
563-22R-18	5	63	22	47	40	13	●	A	0.5	SH M10x30	E261
580-27R-18	5	80	27	58	50	13	●	A	1.1	SH M12x35	
780-27R-18	7	80	27	58	50	13	●	A	1.1	SH M12x35	
6100-32R-18-B	6	100	32	85	50	13	●	A	2.0	SH M16x35	
8100-32R-18	8	100	32	85	50	13	●	A	2.0	SH M16x35	
7125-40R-18-B	7	125	40	85	63	13	●	A	3.4	SH M20x40	
10125-40R-18	10	125	40	85	63	13	●	A	3.3	SH M20x40	
10160-40R-18	10	160	40	110	63	13	x	C	4.5	-	
14160-40R-18	14	160	40	110	63	13	x	C	4.5	-	
16200-60R-18	16	200	60	130	63	13	x	C	6.2	-	
SCRM90TN 350-16R-22	3	50	16	38	40	15	●	A	0.3	SH M8x30	TNM(G)X 2207...
463-22R-22	4	63	22	47	40	15	●	A	0.4	SH M10x30	E261
580-27R-22	5	80	27	58	50	15	●	A	0.9	SH M12x35	
6100-32R-22	6	100	32	85	50	15	●	A	1.8	SH M16x35	
8125-40R-22	8	125	40	85	63	15	●	A	3.0	SH M20x40	
10160-40R-22	10	160	40	110	63	15	x	C	4.2	-	
12200-60R-22	12	200	60	130	63	15	x	C	6	-	
14250-60R-22	14	250	60	160	63	15	x	C	10.6	-	

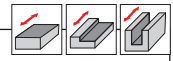
Cutting Condition E271-E273
Arbor Style E274-E275

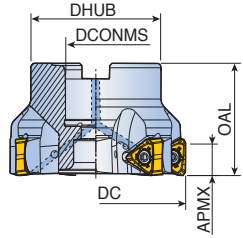
SCRM90TN

MILL2RUSH

Face mills (Inch bore)







Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
SCRM90TN 580-25.4R-18	5	80	25.4	70	50	13	●	A	1.1	SH M12x35	TNMX 1806...
780-25.4R-18	7	80	25.4	70	50	13	●	A	1.1	SH M12x35	E261
6100-31.75R-18-B	6	100	31.75	80	50	13	x	B	2.0	-	
8100-31.75R-18	8	100	31.75	80	50	13	x	B	2.0	-	
7125-38.1R-18-B	7	125	38.1	80	63	13	x	B	3.4	-	
10125-38.1R-18	10	125	38.1	80	63	13	x	B	3.3	-	
10160-50.8R-18	10	160	50.8	100	63	13	x	B	4.5	-	
14160-50.8R-18	14	160	50.8	100	63	13	x	B	4.5	-	
16200-47.625R-18	16	200	47.625	130	63	13	x	C	6.2	-	
SCRM90TN 580-25.4R-22	5	80	25.4	70	50	15	●	A	0.9	SH M12x35	TNM(G)X 2207...
6100-31.75R-22	6	100	31.75	80	50	15	x	B	1.8	-	
8125-38.1R-22	8	125	38.1	80	63	15	x	B	3.0	-	E261

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
					
SCRM90TN-18	TS 40B100I	T-T15			
SCRM90TN-22	TS 45I20I	T-T20			

Cutting Condition E271-E273
Arbor Style E274-E275

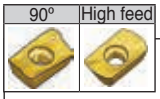
ADVANCE CUTTING TaeguTec

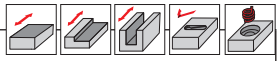
TFM90AX-06/2S-TFM90AP-09

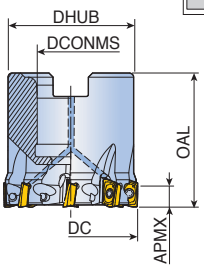
CHASEMILL

Face mills

90°







Designation			Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
			DC	DCONMS	DHUB	OAL	APMX					
TFM90AX	**832-16R-06**	8	32	16	30	32	5.5	•	A	0.1	SH M8x25	AXM(C)T 0602... E230-E231
	1040-16R-06	10	40	16	38	40	5.5	•	A	0.2	SH M8x25	
	1040-22R-06	10	40	22	38	40	5.5	•	A	0.2	SH M10x30	
2S-TFM90AP	**540-16R-09**	5	40	16	38	40	8.8	•	A	0.3	SH M8x30	APK(C)T 09T3... E225,E230
	640-16R-09	6	40	16	38	40	8.8	•	A	0.2	SH M8x30	
	550-22R-09-B	5	50	22	45	40	8.8	•	A	0.3	SH M10x30	
	650-22R-09	6	50	22	45	40	8.8	•	A	0.3	SH M10x30	
	750-22R-09	7	50	22	45	40	8.8	•	A	0.3	SH M10x30	
	863-22R-09	8	63	22	47	40	8.8	•	A	0.5	SH M10x30	
	1080-27R-09	10	80	27	58	50	8.8	•	A	1.1	SH M12x35	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
					
TFM90AX	TS 18041I/HG	TD 6P			
2S-TFM90AP	TS 25075I/HG	TD 8			

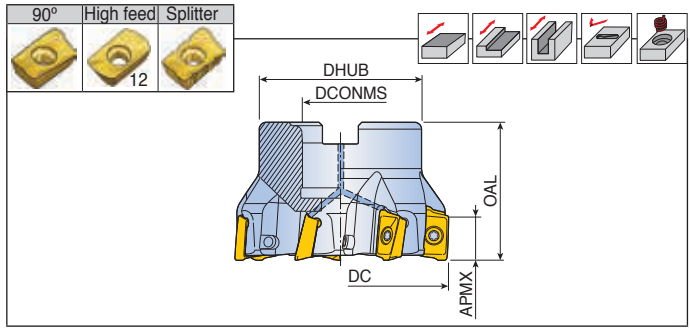
Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E314-E320

TFM90AP-12/17

CHASEMILL

Face mills

90°



Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
TFM90AP 440-16R-12	4	40	16	38	40	12	●	A	0.2	SH M8x25	APK(C)T 1204... E226,E230
540-16R-12	5	40	16	38	40	12	●	A	0.2	SH M8x25	
550-22R-12	5	50	22	45	40	12	●	A	0.3	SH M10x30	
650-22R-12	6	50	22	45	40	12	●	A	0.3	SH M10x30	
563-22R-12	5	63	22	47	40	12	●	A	0.5	SH M10x30	
663-22R-12	6	63	22	47	40	12	●	A	0.5	SH M10x30	
763-22R-12	7	63	22	47	40	12	●	A	0.5	SH M10x30	
680-27R-12	6	80	27	58	50	12	●	A	1.0	SH M10x25	
880-27R-12	8	80	27	58	50	12	●	A	1.0	SH M10x25	
TFM90AP 440-16R-17	4	40	16	38	40	16.1	●	A	0.3	SH M8x30	APK(C)T 1705... E227-E228
350-22R-17-B	3	50	22	45	40	16.1	●	A	0.4	SH M10x30	
450-22R-17-B	4	50	22	45	40	16.1	●	A	0.3	SH M10x30	
550-22R-17	5	50	22	45	40	16.1	●	A	0.4	SH M10x30	
463-22R-17-B	4	63	22	47	40	16.1	●	A	0.5	SH M10x30	
663-22R-17	6	63	22	47	50	16.1	●	A	0.5	SH M10x30	
480-27R-17-B	4	80	27	58	50	16.1	●	A	0.8	SH M12x35	
680-27R-17	6	80	27	58	50	16.1	●	A	0.9	SH M12x35	
780-27R-17	7	80	27	58	50	16.1	●	A	0.9	SH M12x35	
6100-32R-17-B	6	100	32	85	50	16.1	●	A	1.3	LH M16x35	
8100-32R-17	8	100	32	85	50	16.1	●	A	1.5	LH M16x35	
7125-40R-17-B	7	125	40	85	63	16.1	●	A	2.9	SH M20x40	
8125-40R-17	8	125	40	85	63	16.1	●	A	3.0	SH M20x40	
9125-40R-17	9	125	40	85	63	16.1	●	A	3.1	SH M20x40	
8160-40R-17-B	8	160	40	110	63	16.1	x	C	4.1	-	
10160-40R-17	10	160	40	110	63	16.1	x	C	4.2	-	
12200-60R-17	12	200	60	130	63	16.1	x	C	6.1	-	

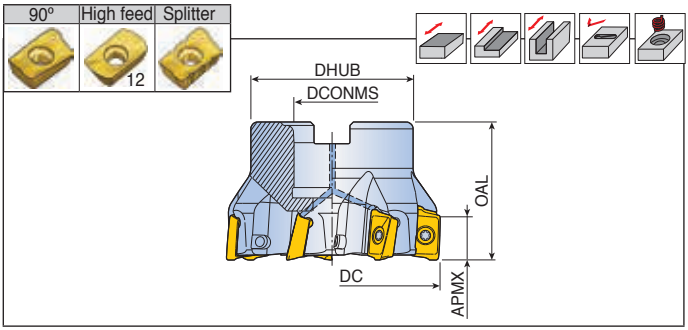
Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E314-E320

TFM90AP-12/17

CHASEMILL

Face mills (Inch bore)

90°



Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX						
TFM90AP	**880-25.4R-12**	8	80	25.4	70	50	12	•	A	1.0	SH M12x30	APK(C)T 1204... E226,E230
TFM90AP	**663-25.4R-17**	6	63	25.4	45	40	16.1	•	A	0.5	LM M12x30	APK(C) T 1705... E227-E228
	780-25.4R-17	7	80	25.4	70	50	16.1	•	A	0.9	SH M12x35	
	8100-31.75R-17	8	100	31.75	80	50	16.1	x	B	1.5	-	
	9125-38.1R-17	9	125	38.1	80	63	16.1	x	B	3.1	-	
	10160-50.8R-17	10	160	50.8	100	63	16.1	x	B	4.2	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

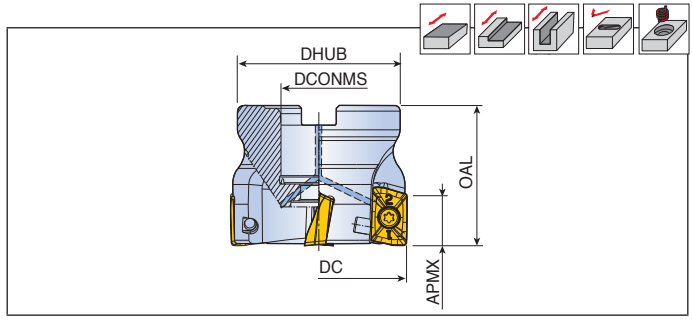
Designation	Screw	Wrench			
TFM90AP-12	TS 35A088I/HG	TD 10P	-		
TFM90AP-17 (Ø40-Ø63)	TS 40093I/HG	-	T-T15		
TFM90AP-17 (Ø80-)	TS 40120I/HG	-	T-T15		

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E314-E320

2S-TFM90AP-19

CHASEMILL

Face mills



90°

Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
2S-TFM90AP 350-22R-19	3	50	22	45	45	17.9	●	A	0.3	LH M10x35	APKT 1907...
463-22R-19	4	63	22	47	40	17.9	●	A	0.7	SH M10x30	E229
463-27R-19	4	63	27	58	50	17.9	●	A	0.7	SH M12x35	
680-27R-19	6	80	27	58	50	17.9	●	A	1.1	SH M12x35	
7100-32R-19	7	100	32	85	50	17.9	●	A	1.9	SH M16x35	
6125-40R-19	6	125	40	85	63	17.9	●	A	3.0	SH M20x40	
8125-40R-19	8	125	40	85	63	17.9	●	A	3.0	SH M20x40	
10160-40R-19	10	160	40	110	63	17.9	x	C	4.2	-	
12200-60R-19	12	200	60	130	63	17.9	x	C	6.0	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
2S-TFM90AP-19	TS 50115I	T-T20			

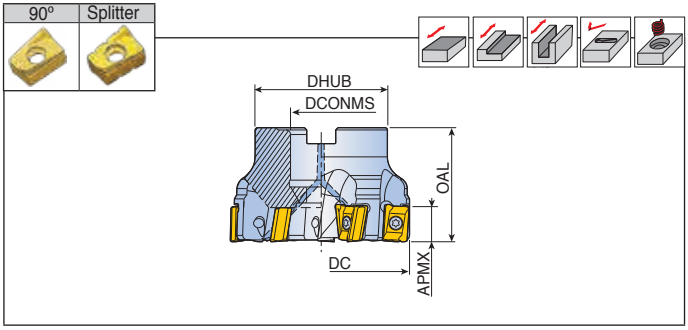
Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E314-E320

TFM90AN-11/16

CHASE2MILL

Face mills

90°



Designation			Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
			DC	DCONMS	DHUB	OAL	APMX					
TFM90AN	**440-16R-11**	4	40	16	38	40	11	●	A	0.2	SH M8x30	ANM(H)X 1106...
	450-22R-11	4	50	22	45	40	11	●	A	0.3	SH M10x30	E224
	650-22R-11	6	50	22	45	40	11	●	A	0.3	SH M10x30	
	563-22R-11	5	63	22	47	40	11	●	A	0.6	SH M10x30	
	763-22R-11	7	63	22	47	40	11	●	A	0.6	SH M10x30	
	880-27R-11	8	80	27	58	50	11	●	A	1.1	SH M12x35	
	1080-27R-11	10	80	27	58	50	11	●	A	1.1	SH M12x35	
	9100-32R-11	9	100	32	85	50	11	●	A	2.0	SH M16x35	
	12100-32R-11	12	100	32	85	50	11	●	A	2.0	SH M16x35	
	10125-40R-11	10	125	40	85	63	11	●	A	3.3	SH M20x40	
	14125-40R-11	14	125	40	85	63	11	●	A	3.4	SH M20x40	
TFM90AN	**350-22R-16**	3	50	22	45	40	15	●	A	0.4	SH M10x30	ANM(H)X 1607...
	450-22R-16	4	50	22	45	40	15	●	A	0.4	SH M10x30	E224
	463-22R-16	4	63	22	47	40	15	●	A	0.5	SH M10x30	
	663-22R-16	6	63	22	47	40	15	●	A	0.5	SH M10x30	
	580-27R-16	5	80	27	58	50	15	●	A	0.8	SH M12x35	
	780-27R-16	7	80	27	58	50	15	●	A	0.9	SH M12x35	
	5100-32R-16	5	100	32	85	50	15	●	A	1.3	SH M16x35	
	8100-32R-16	8	100	32	85	50	15	●	A	1.5	SH M16x35	
	7125-40R-16	7	125	40	85	63	15	●	A	3.9	SH M20x40	
	10125-40R-16	10	125	40	85	63	15	●	A	3.7	SH M20x40	
	8160-40R-16	8	160	40	110	63	15	x	C	5.0	-	
	12160-40R-16	12	160	40	110	63	15	x	C	5.3	-	
	14200-60R-16	14	200	60	130	63	15	x	C	7.0	-	

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E321

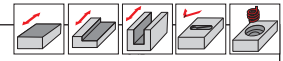
TFM90AN-11/16

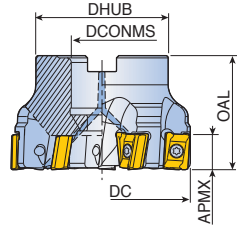
CHASE2MILL

Face mills (Inch bore)

90°

90°	Splitter
	





Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
TFM90AN	**880-25.4R-11**	8	80	25.4	70	50	11	•	A	1.1	SH M12x35	ANM(H)X 1106... E224
TFM90AN	**580-25.4R-16**	5	80	25.4	70	50	15	•	A	0.8	SH M12x35	ANM(H)X 1607... E224
	780-25.4R-16	7	80	25.4	70	50	15	•	A	0.9	SH M12x35	
	5100-31.75R-16	5	100	31.75	80	50	15	x	B	1.3	-	
	8100-31.75R-16	8	100	31.75	80	50	15	x	B	1.5	-	
	7125-38.1R-16	7	125	38.1	80	63	15	x	B	3.9	-	
	10125-38.1R-16	10	125	38.1	80	63	15	x	B	3.7	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
					
TFM90AN-11	TS 35A088I/HG	TD 10P	-		
TFM90AN-16	TS 40120I	-	T-T15		

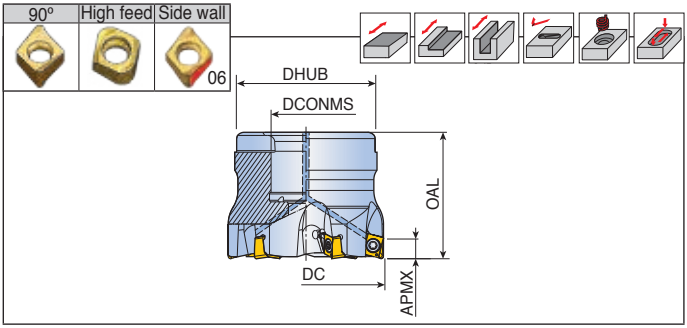
Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E321

4N TF90-04/06/09

CHASE4MILL

Face mills

90°



Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
4N TF90-	**832-16R-04**	8	32	16	30	32	3.5	●	A	0.1	SH M8x25	4NKT 0402.... E218-E219
	1040-16R-04	10	40	16	38	40	3.5	●	A	0.2	SH M8x25	
4N TF90-	**432-16R-06**	4	32	16	30	32	6.0	●	A	0.1	SH M8x25	4NK(H)T 0603.... E218-E219
	532-16R-06	5	32	16	30	32	6.0	●	A	0.1	SH M8x25	
	540-16R-06	5	40	16	38	40	6.0	●	A	0.3	SH M8x25	
	640-16R-06	6	40	16	38	40	6.0	●	A	0.3	SH M8x25	
	650-22R-06	6	50	22	45	40	6.0	●	A	0.4	SH M10x30	
	750-22R-06	7	50	22	47	40	6.0	●	A	0.4	SH M10x30	
	763-22R-06	7	63	22	47	40	6.0	●	A	0.6	SH M10x30	
	863-22R-06	8	63	22	47	40	6.0	●	A	0.6	SH M10x30	
4N TF90-	**540-16R-09**	5	40	16	38	40	8.0	●	A	0.3	SH M8x25	4NK(H)T 0904... E218-E219
	650-22R-09	6	50	22	45	40	8.0	●	A	0.3	LH M10x25	
	763-22R-09	7	63	22	47	40	8.0	●	A	0.5	LH M10x25	
	980-27R-09	9	80	27	58	50	8.0	●	A	1.1	SH M12x35	

- Cutter body for '4NKT 040212R-HF' insert should be modified with body corner radius 1.2 mm
- Cutter body for '4NKT 060320R-HF' and '4NHT 060320R-F' inserts should be modified with body corner radius 2.0 mm
- Cutter body for '4NKT 090432R-HF' insert should be modified with body corner radius 3.2 mm
- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench		Wrench handle	
4N TF90-04	TS 18041I/HG	TD 6P	-	-	
4N TF90-06	TS 30B068I/HG	TD 8	-	-	
4N TF90-09	TS 35A088I/HG	-	TBLD T10P-W6	THND 6W	

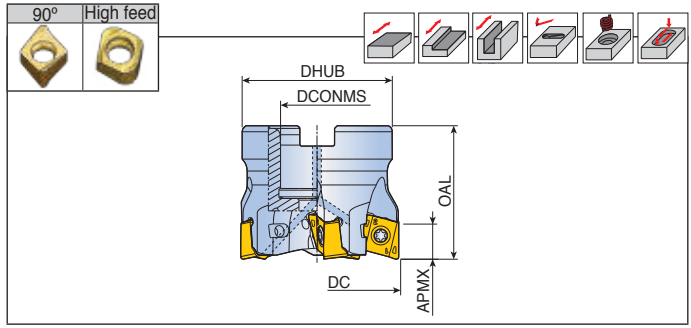
Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E293-E313

4N TF90-11/14

CHASE4MILL

Face mills

90°



Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
4N TF90- 440-16R-11	4	40	16	38	40	10.5	●	A	0.2	SH M8x30	4NKT 1106...
450-22R-11	4	50	22	45	40	10.5	●	A	0.3	LH M10x25	E218-E219
550-22R-11	5	50	22	45	40	10.5	●	A	0.3	LH M10x25	
463-22R-11	4	63	22	47	40	10.5	●	A	0.6	LH M10x25	
663-22R-11	6	63	22	47	40	10.5	●	A	0.5	LH M10x25	
480-27R-11	4	80	27	58	50	10.5	●	A	1.1	SH M12x35	
680-27R-11	6	80	27	58	50	10.5	●	A	1.0	SH M12x35	
880-27R-11	8	80	27	58	50	10.5	●	A	1.0	SH M12x35	
9100-32R-11	9	100	32	85	50	10.5	●	A	1.9	SH M16x35	
4N TF90- 450-22R-14	4	50	22	45	45	13.8	●	A	0.4	SH M10x25	4NKT 1407...
463-22R-14	4	63	22	47	45	13.8	●	A	0.6	SH M10x25	E218-E219
663-22R-14	6	63	22	47	45	13.8	●	A	0.6	SH M10x25	
580-27R-14	5	80	27	58	50	13.8	●	A	1.0	SH M12x35	
780-27R-14	7	80	27	58	50	13.8	●	A	1.0	SH M12x35	
8100-32R-14	8	100	32	85	50	13.8	●	A	1.9	SH M16x35	

- Cutter body for '4NKT 110640R-HF' insert should be modified with body corner radius 4.0 mm
- Cutter body for '4NKT 140750R-HF' insert should be modified with body corner radius 5.0 mm
- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

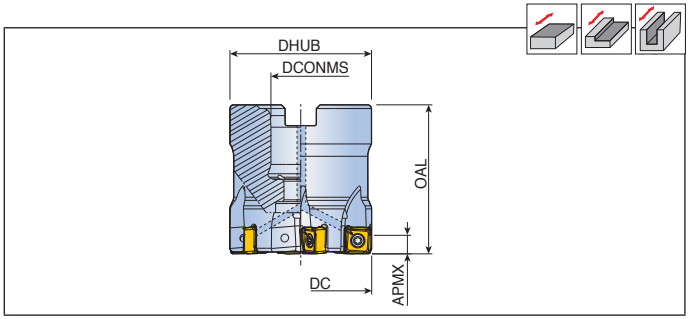
Spare parts

Designation	Screw	Wrench	Wrench handle		
4N TF90-11	TS 40093I/HG	TBLD T15-W6	SW6-T		
4N TF90-14	TS 50A121I/HG	TBLD T20-W6	SW6-T		

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E293-E313

8D-TF90-07

Face mills



90°

Designation		Dimension (mm)					Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX					
8D-TF90-432-16R-07	4	32	16	30	32	5.0	●	A	0.1	SH M8x25	SQKU 0703...
640-16R-07	6	40	16	38	40	5.0	●	A	0.3	SH M8x25	E257
650-22R-07	6	50	22	45	40	5.0	●	A	0.4	SH M10x30	
850-22R-07	8	50	22	45	40	5.0	●	A	0.4	SH M10x30	
763-22R-07	7	63	22	47	40	5.0	●	A	0.5	SH M10x30	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

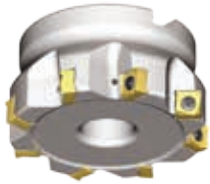
Designation	Screw	Wrench			
					
8D-TF90-07	TS 25D060/HG-P	TD 7P			

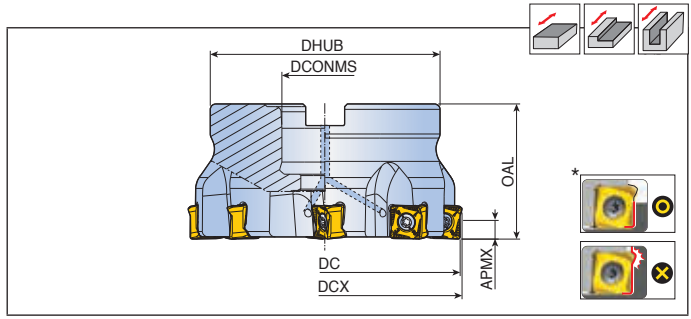
Cutting Condition E271-E273
Arbor Style E274-E275

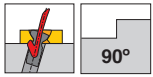
8D-TF90-12

CHASE8MILL

Face mills







Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX					
8D-TF90-340-16R-12	3	40	41.3	16	38	40	8.5**	●	E	0.3	KTB 32B	SQK(H)U 1206... E257
440-16R-12	4	40	41.3	16	38	40	8.5**	●	E	0.3	KTB 32B	
450-22R-12	4	50	51.3	22	45	40	8.5**	●	A	0.3	SH M10x30	
650-22R-12	6	50	51.3	22	45	40	8.5**	●	A	0.4	SH M10x30	
563-22R-12	5	63	64.3	22	47	40	8.5**	●	A	0.5	SH M10x30	
863-22R-12	8	63	64.3	22	47	40	8.5**	●	A	0.6	SH M10x30	
680-27R-12	6	80	81.3	27	58	50	8.5**	●	A	1.1	SH M12x35	
980-27R-12	9	80	81.3	27	58	50	8.5**	●	A	1.2	SH M12x35	
1180-27R-12	11	80	81.3	27	58	50	8.5**	●	A	1.2	SH M12x35	
8100-32R-12	8	100	101.3	32	66	50	8.5**	●	A	1.6	SH M16x35	
11100-32R-12	11	100	101.3	32	66	50	8.5**	●	A	1.7	SH M16x35	
14100-32R-12	14	100	101.3	32	66	50	8.5**	●	A	1.7	SH M16x35	
10125-40R-12	10	125	126.3	40	85	63	8.5**	●	A	3.4	SH M20x40	
18125-40R-12	18	125	126.3	40	85	63	8.5**	●	A	3.5	SH M20x40	
12160-40R-12	12	160	161.3	40	110	63	8.5**	x	C	4.7	-	
22160-40R-12	22	160	161.3	40	110	63	8.5**	x	C	4.9	-	

• DC: Cutting diameter • DCX: Cutting diameter maximum
• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)
• * Multi-Step milling is not recommended over the APMX • ** When applying SQHU insert, APMX is 8.0mm.

Spare parts

Designation	Screw	Wrench	Wrench handle		
8D-TF90-12	TS 40M100/HG	TBLD T15-W6	SW6-T		

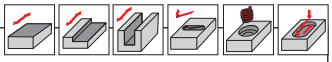
Cutting Condition E271-E273
Arbor Style E274-E275

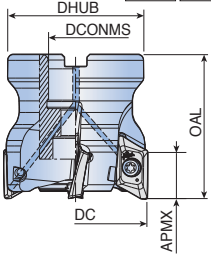
ADVANCE CUTTING TaeguTec

TFM90XEV-16/22

CHASEALU

Face mills





90°

Designation		Dimension (mm)					Coolant hole	Arbor style	Max RPM	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX						
TFM90XEV 340-16R-16	3	40	16	38	50	16	●	A	41,200	0.2	SH M8x35-C	XEVT 1605... E264
450-22R-16	4	50	22	45	50	16	●	A	36,800	0.3	SH M10x30-C	
563-22R-16	5	63	22	47	50	16	●	A	32,700	0.5	SH M10x30-C	
580-27R-16	5	80	27	58	50	16	●	A	29,000	0.9	LH M12x30-C	
680-27R-16	6	80	27	58	50	16	●	A	29,000	0.8	LH M12x30-C	
6100-32R-16	6	100	32	66	63	16	●	A	26,000	1.6	SH M16x35-C	
7125-40R-16	7	125	40	85	63	16	●	A	23,200	2.5	SH M20x40-C	
8160-40R-16	8	160	40	110	63	16	x	C	20,000	3.8	-	
10200-60R-16	10	200	60	130	63	16	x	C	18,300	5.3	-	
TFM90XEV 350-22R-22	3	50	22	45	55	21	●	A	31,400	0.4	SH M10x30-C	XEVT 2206... E264
463-22R-22	4	63	22	47	55	21	●	A	28,000	0.6	SH M10x30-C	
580-27R-22	5	80	27	58	55	21	●	A	24,800	1.0	LH M12x30-C	
6100-32R-22	6	100	32	85	63	21	●	A	22,200	2.1	SH M16x35-C	
7125-40R-22	7	125	40	85	63	21	●	A	19,900	2.8	SH M20x40-C	
10200-60R-22	10	200	60	124	63	21	x	C	15,700	5.9	-	

• Cutter body for inserts with corner radii more than 3.2mm (XEVT 16) and 3.0mm (XEVT 22) should be modified as follows: body "RE"=insert "RE"-0.3mm

Spare parts

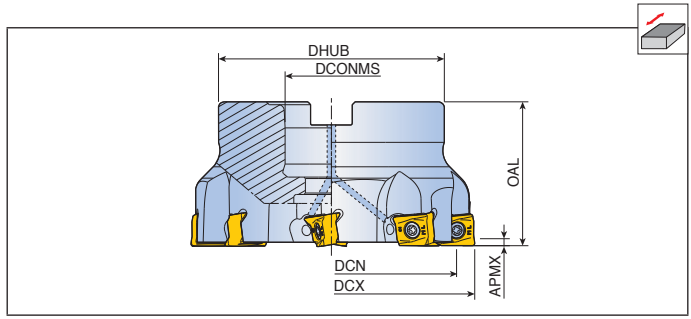
Designation	Screw	Wrench			
					
TFM90XEV-16	TS 40093I/HG	T-T15			
TFM90XEV-22	TS 50115I	T-T20			

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E322-E326

4W-TF90-12

CHASE4FINISH

Face mills for finishing



Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DCN	DCONMS	DHUB	OAL	APMX					
4W-TF90-550-22R-12	5	50	38.9	22	45	40	0.5	●	A	0.4	SH M10x30-C	4WHU 1207... E220
663-22R-12	6	63	50.9	22	47	40	0.5	●	A	0.5	SH M10x30-C	
880-27R-12	8	80	66.9	27	58	50	0.5	●	A	1.1	SH M12x35-C	
8100-32R-12	8	100	86.9	32	66	50	0.5	●	A	1.6	SH M16x35-C	
10125-40R-12	10	125	110.9	40	85	63	0.5	●	A	3.1	SH M20x40-C	
10160-40R-12	10	160	145.9	40	110	63	0.5	x	C	4.1	-	

• DCN: Cutting diameter minimum • DCX: Cutting diameter maximum

Spare parts

Designation	Screw	Wrench	Wrench handle		
					
4W-TF90-12	TS 40A115I	TBLD T15-W6	SW6-T		

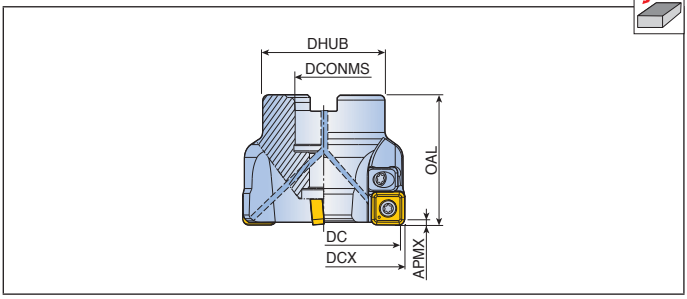
Cutting Condition E271-E273
Arbor Style E274-E275

ADVANCE CUTTING TaeguTec

TFM90SNS-12

CHASE2QUAD

Face mills for finishing



Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFM90SNS 350-22R-12	3	50	43.35	22	45	50	1.0	●	A	0.5	SH M10x40	SNEX 1204... SNET 1205... E251
463-22R-12	4	63	56.35	22	47	50	1.0	●	A	0.7	SH M10x40	
680-27R-12	6	80	73.35	27	58	50	1.0	●	A	1.0	SH M12x35	
8100-32R-12	8	100	93.35	32	66	63	1.0	●	A	2.0	SH M16x30	
12100-32R-12	12	100	93.35	32	66	63	1.0	●	A	2.0	SH M16x30	
10125-40R-12	10	125	118.35	40	85	63	1.0	x	B	2.9	-	
16125-40R-12	16	125	118.35	40	85	63	1.0	x	B	2.9	-	
12160-40R-12	12	160	153.35	40	110	63	1.0	x	C	4.4	-	
20160-40R-12	20	160	153.35	40	110	63	1.0	x	C	4.4	-	
16200-60R-12	16	200	193.35	60	130	63	1.0	x	C	6.0	-	
24200-60R-12	24	200	193.35	60	130	63	1.0	x	C	6.0	-	
30250-60R-12	30	250	243.35	60	160	63	1.0	x	C	10.8	-	

- Recommend to very stable machining condition at cast iron & steel
- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

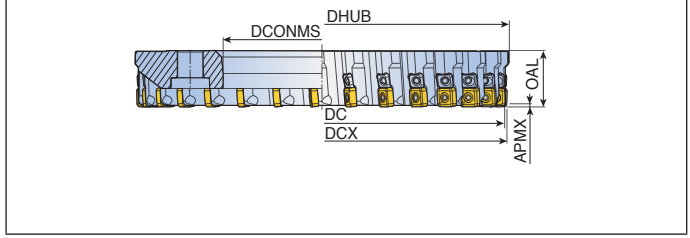
Designation	Screw	Adj. wedge	Adj. screw	Wrench	
					
TFM90SNS-12	TS 35C110I	AJS 1010R	AWS 0620	T-T15	

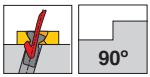
Cutting Condition E271-E273
Arbor Style E274-E275
Technical Data E279-E280

TQ90SNS-12

CHASE2QUAD

Quick change type face mills for finishing





Designation			Dimension (mm)						Kg	Adaptor	Insert
			DCX	DC	DCONMS	DHUB	OAL	APMX			
TQ90SNS	**20250R-12**	20	250	243.35	133.35	253	38	1.0	7.5	QA 10 K/M	SNEX 1204... SNET 1205... E251
	30250R-12	30	250	243.35	133.35	253	38	1.0	7.5	QA 10 K/M	
	36315R-12	36	315	308.35	146.05	317	38	1.0	14.0	QA 12 K/M	
	32400R-12	32	400	393.35	254	402	38	1.0	16.0	QA 16 K/M	

• Recommend to very stable machining condition at cast iron & steel

Spare parts

Designation	Screw	Adj. wedge	Adj. screw	Wrench	
TQ90SNS-12	TS 35C110I	AJS 1010R	AWS 0620	T-T15	

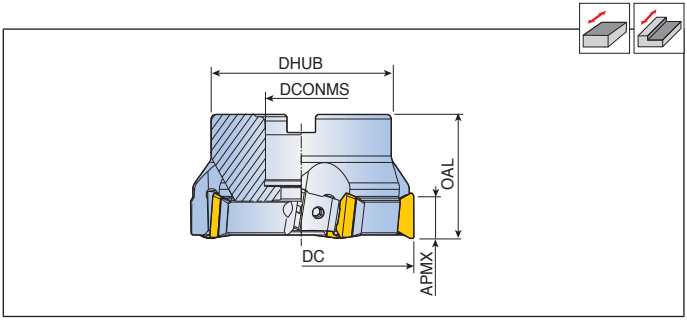
Cutting Condition E271-E273
Technical Data E276
Technical Data E279-E280

ADVANCE CUTTING TaeguTec

LM90TP-22

LIONMILL

Face mills



90°

Designation		Dimension (mm)					Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX				
LM90TP480-25.4R-22	4	80	25.4	70	50	17.6	A	1.2	SH M12x35	TPKN 2204...
5100-31.75R-22	5	100	31.75	80	55	17.6	A	2.2	SH M16x35	E262
6125-38.1R-22	6	125	38.1	80	63	17.6	B	3.0	-	
8160-50.8R-22	8	160	50.8	100	63	17.6	B	4.7	-	
10200-47.625R-22	10	200	47.625	130	63	17.6	C	6.4	-	
12250-47.625R-22	12	250	47.625	160	63	17.6	C	10.7	-	
14315-47.625R-22	14	315	47.625	220	63	17.6	D	16.7	-	

• Metric bore cutter is available upon request

Spare parts

Designation	Carbide shim	Wedge	Shim screw	Wedge screw	Wrench	Shim screw wrench
LM90TP-22	TSTP 22N	WPA 8	TS 40B100I	TS 80200W TS 80160W(1)	T-W 4	T-T15(2)

Cutting Condition E271-E273
Arbor Style E274-E275

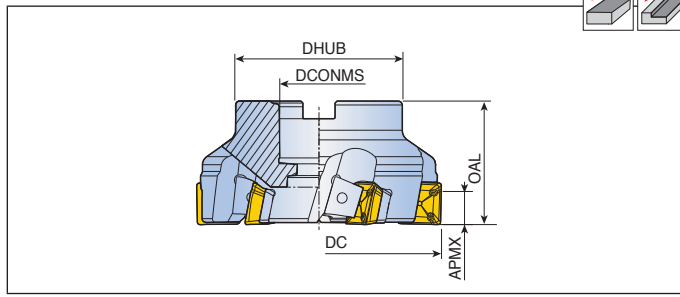
• (1)TS 80160W is for D80 cutter
• The shim screw wrench T-T15(2) shall be ordered separately

TaeguTec Member IMC Group

LM90SE-21

LIONMILL

Face mills



90°

Designation		Dimension (mm)					Arbor style	Kg	Mounting bolt	Insert
		DC	DCONMS	DHUB	OAL	APMX				
LM90SE6125-40R-21	6	125	40	85	63	17.0	A	3.4	SH M20x40	SEKX 2107...
8160-40R-21	8	160	40	110	63	17.0	C	5.3	-	E249
10200-60R-21	10	200	60	130	80	17.0	C	9.6	-	
12200-60R-21	12	200	60	130	80	17.0	C	9.5	-	
12250-60R-21	12	250	60	160	80	17.0	C	16.4	-	
14250-60R-21	14	250	60	160	80	17.0	C	16.4	-	
12315-60R-21	12	315	60	220	80	17.0	D	21.0	-	
LM90SE6125-38.1R-21	6	125	38.1	85	63	17.0	B	3.4	-	
8160-50.8R-21	8	160	50.8	110	63	17.0	B	5.3	-	
10200-47.625R-21	10	200	47.625	130	80	17.0	C	9.6	-	

Spare parts

Designation	Shim	Shim screw	Wedge	Wedge screw	Wedge screw wrench	Shim screw wrench
LM90SE-21	TSSE 21N-ST	TS 50C130I/ HG	WPA 8-SE16	TS 80160W TS 80200W	T-W 4	T-T20 (1)

Cutting Condition E271-E273

Arbor Style E274-E275

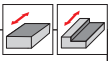
- The shim screw wrench(1) shall be ordered separately
- Wedge screw TS 80160W : Diameter 125 – 200 mm
  TS 80200W : Diameter 250 – 315 mm

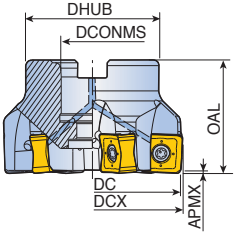
ADVANCE CUTTING TaeguTec

TFM90SN/TFM88SN-13

CHASE2QUAD

Face mills





Designation			Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
			DC	DCX	DCONMS	DHUB	OAL	APMX					
TFM90SN	**550-22R-13**	5	50	50.7	22	45	40	12.0	●	A	0.3	SH M10x30	SNGX 1306 ... E253
	663-22R-13	6	63	63.7	22	47	40	12.0	●	A	0.5	SH M10x30	
	780-27R-13	7	80	80.7	27	70	50	12.0	●	A	1.2	SH M12x35	
	980-27R-13*	9	80	80.7	27	70	50	12.0	●	A	1.2	SH M12x35	
	8100-32R-13	8	100	100.8	32	85	50	12.0	●	A	1.9	SH M16x30	
	13100-32R-13*	13	100	100.8	32	85	50	12.0	●	A	1.9	SH M16x30	
	10125-40R-13	10	125	125.8	40	85	63	12.0	x	B	2.8	-	
	16125-40R-13*	16	125	125.8	40	85	63	12.0	x	B	2.8	-	
TFM88SN	**550-22R-13**	5	50	51.2	22	45	40	12.0	●	A	0.3	SH M10x30	SNGX 1306 ZN... E253
	663-22R-13	6	63	64.2	22	47	40	12.0	●	A	0.5	SH M10x30	
	780-27R-13	7	80	81.2	27	70	50	12.0	●	A	1.2	SH M12x35	
	980-27R-13*	9	80	81.2	27	70	50	12.0	●	A	1.2	SH M12x35	
	8100-32R-13	8	100	101.2	32	85	50	12.0	●	A	1.9	SH M16x30	
	11100-32R-13*	11	100	101.2	32	85	50	12.0	●	A	1.9	SH M16x30	
	10125-40R-13	10	125	126.1	40	85	63	12.0	x	B	2.8	-	
	14125-40R-13*	14	125	126.1	40	85	63	12.0	x	B	2.8	-	
	12160-40R-13	12	160	161.1	40	110	63	12.0	x	C	4.2	-	
	18160-40R-13*	18	160	161.1	40	110	63	12.0	x	C	4.2	-	
	14200-60R-13	14	200	201.1	60	130	63	12.0	x	C	6.0	-	
	22200-60R-13*	22	200	201.1	60	130	63	12.0	x	C	6.0	-	

Cutting Condition E271-E273
Arbor Style E274-E275

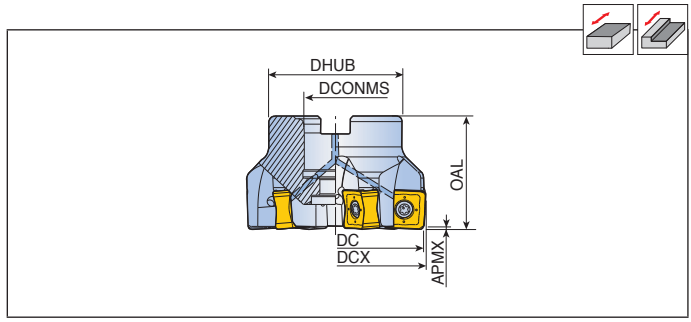
- *: Fine pitch cutter for cast iron
- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

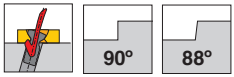
TaeguTec

TFM90SN/TFM88SN-13

CHASE2QUAD

Face mills (Inch bore)





Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX					
TFM90SN	**780-25.4R-13**	80	80.7	25.4	70	50	12.0	●	A	1.2	SH M12x35	SNGX 1306 ... E253
	8100-31.75R-13	100	100.8	31.75	80	50	12.0	x	B	1.9	-	
	10125-38.1R-13	125	125.8	38.1	80	63	12.0	x	B	2.8	-	
TFM88SN	**780-25.4R-13**	80	81.2	25.4	70	50	12.0	●	A	1.2	SH M12x35	SNGX 1306 ZN... E253
	980-25.4R-13*	80	81.2	25.4	70	50	12.0	●	A	1.2	SH M12x35	
	8100-31.75R-13	100	101.2	31.75	80	50	12.0	x	B	1.9	-	
	11100-31.75R-13*	100	101.2	31.75	80	50	12.0	x	B	1.9	-	
	10125-38.1R-13	125	126.1	38.1	80	63	12.0	x	B	2.8	-	
	12160-50.8R-13	160	161.1	50.8	100	63	12.0	x	B	4.2	-	

- *: Fine pitch cutter for cast iron
- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
					
TFM90SN	TS 40B100I	T-T15			
TFM88SN	TS 40B100I	T-T15			

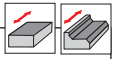
Cutting Condition E271-E273
Arbor Style E274-E275

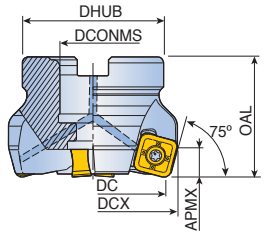
ADVANCE CUTTING TaeguTec

TFM75SN-13

CHASE2QUAD

Face mills





Designation			Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
			DC	DCX	DCONMS	DHUB	OAL	APMX					
TFM75SN	**450-22R-13**	4	50	55.4	22	45	40	9.5	•	A	0.4	LH M10x25	SNM(G)X 1306 EN... SNMX 1306 XTN... E252
	650-22R-13	6	50	55.4	22	45	40	9.5	•	A	0.4	LH M10x25	
	663-22R-13	6	63	68.4	22	47	40	9.5	•	A	0.6	LH M10x25	
	863-22R-13	8	63	68.4	22	47	40	9.5	•	A	0.6	LH M10x25	
	780-27R-13	7	80	85.4	27	70	50	9.5	•	A	1.3	LH M12x30	
	1080-27R-13	10	80	85.4	27	70	50	9.5	•	A	1.3	LH M12x30	
	8100-32R-13	8	100	105.4	32	85	50	9.5	•	A	1.9	LH M16x35	
	12100-32R-13	12	100	105.4	32	85	50	9.5	•	A	2.0	LH M16x35	
	10125-40R-13	10	125	130.3	40	85	63	9.5	•	A	3.2	SH M20x40	
	16125-40R-13	16	125	130.4	40	85	63	9.5	•	A	3.3	SH M20x40	
	12160-40R-13	12	160	165.3	40	110	63	9.5	x	C	4.7	-	
	20160-40R-13	20	160	165.4	40	110	63	9.5	x	C	4.8	-	
	16200-60R-13	16	200	205.3	60	130	63	9.5	x	C	6.4	-	
	22200-60R-13	22	200	205.4	60	130	63	9.5	x	C	6.4	-	
	20250-60R-13	20	250	255.3	60	160	63	9.5	x	C	11.7	-	
TFM75SN	**580-25.4R-13B**	5	80	85.4	25.4	70	50	9.5	•	A	1.3	LH M12x30	
	1080-25.4R-13	10	80	85.4	25.4	70	50	9.5	•	A	1.5	LH M12x30	
	6100-31.75R-13B	6	100	105.4	31.75	80	50	9.5	x	B	1.9	-	
	8125-38.1R-13B	8	125	130.3	38.1	80	63	9.5	x	B	3.2	-	
	12160-50.8R-13B	12	160	165.3	50.8	100	63	9.5	x	B	4.7	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

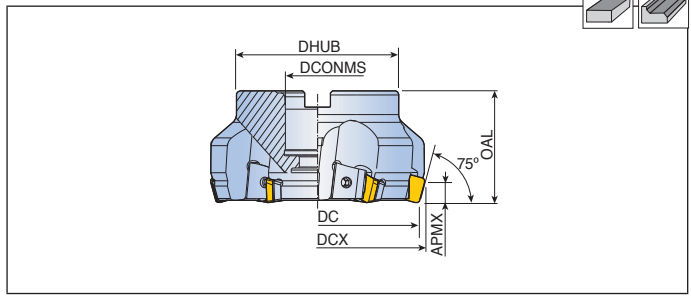
Designation	Screw	Wrench			
					
TFM75SN	TS 40B100I	T-T15			

Cutting Condition E271-E273
Arbor Style E274-E275

LM75SP-12/15

LIONMILL

Face mills



75°

Designation		Dimension (mm)						Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX				
LM75SP580-25.4 R-12	5	80	85.4	25.4	70	50	9.5	A	1.5	SH M12x35	SPKN 1203...
6100-31.75R-12	6	100	105.4	31.75	80	55	9.5	A	2.4	LH M16x35	E256
8125-38.1R-12	8	125	130.4	38.1	80	63	9.5	B	3.2	-	
10160-50.8R-12	10	160	165.4	50.8	100	63	9.5	B	5.0	-	
12200-47.625R-12	12	200	205.4	47.625	130	63	9.5	C	7.4	-	
16250-47.625R-12	16	250	255.4	47.625	160	63	9.5	C	10.8	-	
LM75SP580-25.4R-15	5	80	86.97	25.4	70	55	12.5	A	1.5	SH M12x35	SPKN 1504...
5100-31.75R-15	5	100	106.96	31.75	80	55	12.5	A	2.4	LH M16x35	E256
8125-38.1R-15	8	125	131.95	38.1	80	63	12.5	B	3.1	-	
10160-50.8R-15	10	160	166.94	50.8	100	63	12.5	B	5.0	-	
12200-47.625R-15	12	200	206.94	47.625	130	63	12.5	C	6.9	-	
16250-47.625R-15	16	250	256.93	47.625	160	63	12.5	C	10.8	-	
20315-47.625R-15	20	315	321.93	47.625	220	63	12.5	D	17.4	-	

• Metric bore cutter is available upon request

Spare parts

Designation	Carbide shim	Wedge	Shim screw	Wedge screw	Wrench	
						(2)
LM75SP-12	TSSP 12N	WPA 8	TS 40B100I	TS 80200W TS 80160W(1)	T-W 4	T-T15
LM75SP-15	TSSP 15N	WPA 8	TS 40B100I		T-W 4	T-T15

Cutting Condition E271-E273

Arbor Style E274-E275

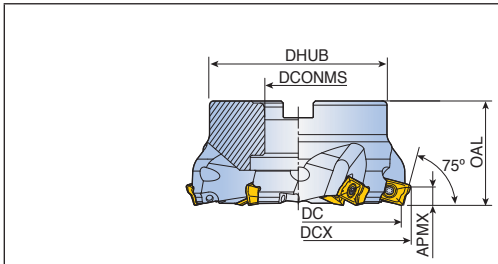
• (1) TS 80160W is for D80 cutter
• The shim screw wrench T-T15(2) shall be ordered separately

ADVANCE CUTTING TaeguTec

TFM75AP-17

CHASEMILL

Face mills



75°

Designation			Dimension (mm)						Arbor style	Kg	Mounting bolt	Insert
			DC	DCX	DCONMS	DHUB	OAL	APMX				
TFM75AP	**580-27R-17**	5	80	87.82	27	58	50	3.9	A	0.8	SH M12x35	APKT 1705 PER-M APKT 1705 PER-EM E228
	6100-32R-17	6	100	107.82	32	85	50	3.9	B	1.3	-	
	7125-40R-17	7	125	132.82	40	85	63	3.9	B	3.5	-	
TFM75AP	**580-25.4R-17**	5	80	87.82	25.4	70	50	3.9	A	0.8	SH M12x35	
	6100-31.75R-17	6	100	107.82	31.75	80	50	3.9	B	1.3	-	
	7125-38.1R-17	7	125	132.82	38.1	80	63	3.9	B	3.5	-	

• Cutter for the other corner of APKT inserts

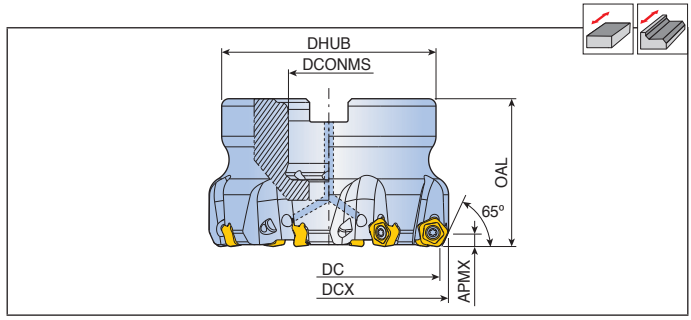
Spare parts

Designation	Screw	Wrench			
TFM75AP-17	TS 40120I/HG	T-T15			

Cutting Condition E271-E273
Arbor Style E274-E275

TFM65PT-05/10

Face mills



65°

Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX					
TFM65PT	**640-16R-05**	6	40	43.7	16	38	40	3.3	•	A	0.3	SH M8x25	PTKU 0503...
	750-22R-05	7	50	53.7	22	45	40	3.3	•	A	0.4	SH M10x30	E242
	863-22R-05	8	63	66.7	22	58	40	3.3	•	A	0.7	SH M10x30	
TFM65PT	**680-27R-10**	6	80	87.4	27	70	50	6.5	•	A	1.2	LH M12x30	PTKU 1006...
	8100-32R-10	8	100	107.4	32	85	50	6.5	•	A	1.9	LH M16x35	E242
	9125-40R-10	9	125	132.4	40	85	63	6.5	•	A	3.2	SH M20x40	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

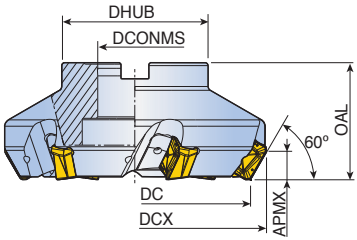
Designation	Screw	Wrench		Wrench handle	
					
TFM65PT-05	TS 25D060/HG-P	TD 7P	-		
TFM65PT-10	TS 50D130/HG-P	-	TBLD T20P-W6	SW6-T	

Cutting Condition E271-E273
Arbor Style E274-E275

LM60SC-21

LIONMILL

Face mills



60°

Designation			Dimension (mm)						Arbor style	Kg	Insert
			DC	DCX	DCONMS	DHUB	OAL	APMX			
LM60SC	**5125-40R-21**	5	125	141.2	40	85	63	13.0	B	4.1	SCKN 2107...
	8160-40R-21	8	160	176.1	40	110	63	13.0	C	6.5	E248
	10160-40R-21	10	160	176.1	40	110	63	13.0	C	6.4	
	10200-60R-21	10	200	216.1	60	130	80	13.0	C	11.8	
	12200-60R-21	12	200	216.1	60	130	80	13.0	C	11.8	
	12250-60R-21	12	250	266	60	160	80	13.0	C	19.2	
	14250-60R-21	14	250	266	60	160	80	13.0	C	19.1	
	16250-60R-21	16	250	266	60	160	80	13.0	C	19.1	
	12315-60R-21	12	315	331	60	220	80	13.0	D	25.0	
	16315-60R-21	16	315	331	60	220	80	13.0	D	25.0	
LM60SC	**5125-38.1R-21**	5	125	141.2	38.1	80	63	13.0	B	4.1	
	10160-50.8R-21	10	160	176.1	50.8	100	63	13.0	B	6.4	
	10200-47.625R-21	10	200	216.1	47.625	130	80	13.0	C	11.8	
	12250-47.625R-21	12	250	266	47.625	160	80	13.0	C	19.2	
	16250-47.625R-21	16	250	266	47.625	160	80	13.0	C	19.1	

Spare parts

Designation	Shim	Shim screw	Wedge	Wedge screw	Wrench	
LM60SC-21	TSSC 21R-ST	TS 50C130I/HG	WSC 8R-21	TS 80200W	T-W 4	T-T20

Cutting Condition E271-E273

Arbor Style E274-E275

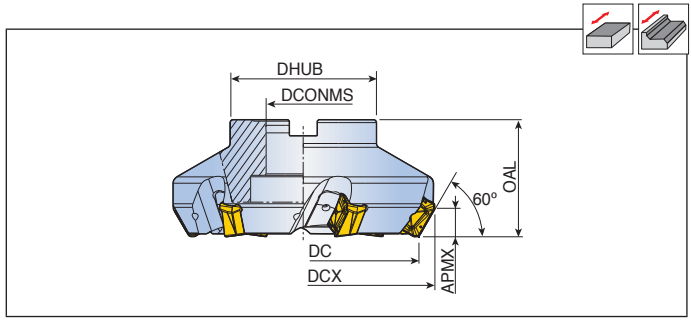
• The shim screw wrench(1) shall be ordered separately

TaeguTec

LM60SC-27

LIONMILL

Face mills



60°

Designation		Dimension (mm)						Arbor style	Kg	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX			
LM60SC 5125-40R-27	5	125	146	40	85	63	18.0	B	4.6	SCKN 2708...
6160-40R-27	6	160	181	40	110	80	18.0	C	8.7	E248
8160-40R-27	8	160	181	40	110	80	18.0	C	8.4	
8200-60R-27	8	200	220.9	60	130	80	18.0	C	12.4	
10200-60R-27	10	200	220.9	60	130	80	18.0	C	12.3	
10250-60R-27	10	250	270.8	60	160	80	18.0	C	19.9	
12250-60R-27	12	250	270.8	60	160	80	18.0	C	19.8	
12315-60R-27	12	315	335.8	60	220	80	18.0	D	26.0	
15315-60R-27	15	315	335.8	60	220	80	18.0	D	25.9	
LM60SC 12250-47.625R-27	12	250	270.8	47.625	160	80	18.0	C	19.8	
12315-47.625R-27	12	315	335.8	47.625	220	80	18.0	D	26.0	

Spare parts

Designation	Shim	Shim screw	Wedge	Wedge screw	Wrench		Wrench handle
						(1)	(2)
LM60SC-27	TSSC 27R-ST	TS 60A130I	WSC 8R	TS 80200W	T-W 4	BLD T25	SW6-T

Cutting Condition E271-E273

Arbor Style E274-E275

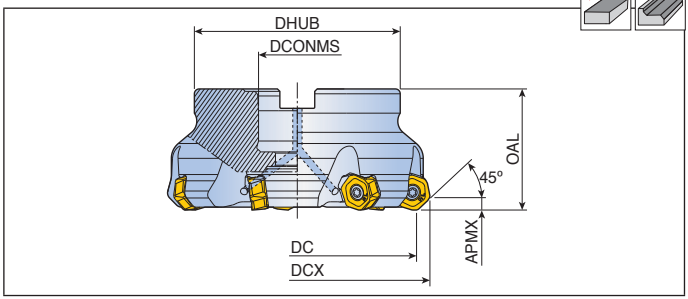
• The wrench(1) & wrench handle(2) shall be ordered separately

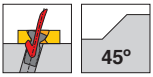
ADVANCE CUTTING TaeguTec

12D-TF45-06

CHASE 12 MILL

Face mills





Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX					
12D-TF45-450-22R-06	4	50	60.8	22	45	40	3.0	●	A	0.5	LH M10x25	HXK(H)U 0605... E237
650-22R-06	6	50	60.8	22	45	40	3.0	●	A	0.5	LH M10x25	
563-22R-06	5	63	73.8	22	47	40	3.0	●	A	0.7	LH M10x25	
763-22R-06	7	63	73.8	22	47	40	3.0	●	A	0.7	LH M10x25	
680-27R-06	6	80	90.8	27	70	50	3.0	●	A	1.5	SH M12x35	
1080-27R-06	10	80	90.8	27	70	50	3.0	●	A	1.5	SH M12x35	
7100-32R-06	7	100	110.8	32	85	50	3.0	●	A	2.2	SH M16x35	
12100-32R-06	12	100	110.8	32	85	50	3.0	●	A	2.2	SH M16x35	
10125-40R-06	10	125	135.8	40	85	63	3.0	●	A	3.6	SH M20x40	
16125-40R-06	16	125	135.8	40	85	63	3.0	●	A	3.6	SH M20x40	
12160-40R-06	12	160	170.8	40	110	63	3.0	x	C	4.9	-	
20160-40R-06	20	160	170.8	40	110	63	3.0	x	C	4.9	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench	Wrench handle		
					
12D-TF45-06	TS 40B100I	TBLD T15-W6	SW6-T		

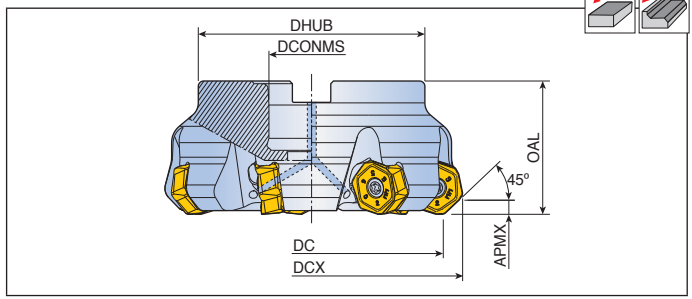
Cutting Condition E271-E273

Arbor Style E274-E275

12D-TF45-10

CHASE12MILL

Face mills



Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX					
12D-TF45-563-22R-10	5	63	77.5	22	47	50	5.0	●	A	0.9	SH M10x30	HXK(H)U 1007... E237
763-22R-10	7	63	77.5	22	47	50	5.0	●	A	0.9	SH M10x30	
680-27R-10	6	80	94.5	27	70	50	5.0	●	A	1.6	SH M12x35	
980-27R-10	9	80	94.5	27	70	50	5.0	●	A	1.6	SH M12x35	
7100-32R-10	7	100	114.5	32	85	50	5.0	●	A	2.4	LH M16x35	
11100-32R-10	11	100	114.5	32	85	50	5.0	●	A	2.4	LH M16x35	
8125-40R-10	8	125	139.5	40	85	63	5.0	●	A	4.1	SH M20x40	
10125-40R-10	10	125	139.5	40	85	63	5.0	●	A	4.0	SH M20x40	
14125-40R-10	14	125	139.5	40	85	63	5.0	●	A	4.0	SH M20x40	
10160-40R-10	10	160	174.5	40	110	63	5.0	x	C	5.6	-	
16160-40R-10	16	160	174.5	40	110	63	5.0	x	C	5.6	-	
14200-60R-10	14	200	214.5	60	130	63	5.0	x	C	7.9	-	
21200-60R-10	21	200	214.5	60	130	63	5.0	x	C	7.9	-	
16250-60R-10	16	250	264.5	60	160	63	5.0	x	C	12.4	-	
26250-60R-10	26	250	264.5	60	160	63	5.0	x	C	12.4	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench	Wrench handle		
12D-TF45-10	TS 50C130I/HG	TBLD T20-W6	SW6-T		

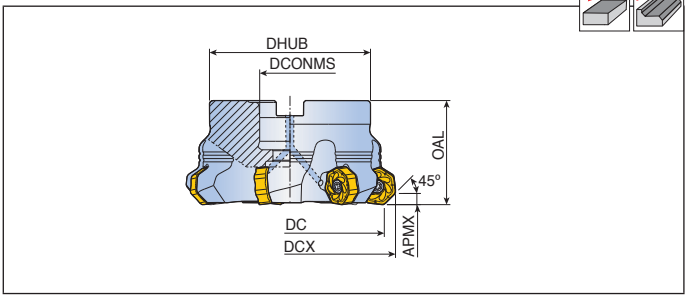
Cutting Condition E271-E273
Arbor Style E274-E275

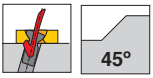
ADVANCE CUTTING TaeguTec

14D-F45XN-06

CHASE2HEPTA

Face mills





Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX					
14D-F45XN550-22R-06	5	50	59.1	22	45	40	3.5	●	A	0.4	LH M10x25	XNM(H)U 0605... E265
563-22R-06	5	63	72.1	22	47	50	3.5	●	A	0.8	SH M10x35	
763-22R-06	7	63	72.1	22	47	50	3.5	●	A	0.8	SH M10x35	
680-27R-06	6	80	89.1	27	70	50	3.5	●	A	1.4	SH M12x35	
980-27R-06	9	80	89.1	27	70	50	3.5	●	A	1.4	SH M12x35	
7100-32R-06	7	100	109.1	32	85	50	3.5	●	A	2.1	SH M16x35	
11100-32R-06	11	100	109.1	32	85	50	3.5	●	A	2.1	SH M16x35	
10125-40R-06	10	125	134.1	40	85	63	3.5	●	A	3.6	SH M20x40	
14125-40R-06	14	125	134.1	40	85	63	3.5	●	A	3.6	SH M20x40	
12160-40R-06	12	160	169.1	40	110	63	3.5	x	C	4.7	-	
16160-40R-06	16	160	169.1	40	110	63	3.5	x	C	4.9	-	
18160-40R-06	18	160	169.1	40	110	63	3.5	x	C	5.0	-	
14D-F45XN763-25.4R-06	7	63	72.1	25.4	47	50	3.5	●	A	0.8	SH M12x30	
980-25.4R-06	9	80	89.1	25.4	70	50	3.5	●	A	1.4	SH M12x35	
11100-31.75R-06	11	100	109.1	31.75	80	50	3.5	●	A	1.9	LH M16x35	
14125-38.1R-06	14	125	134.1	38.1	80	63	3.5	x	B	3.9	-	
											-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
					
14D-F45XN-06	TS 40B100I	T-T15			

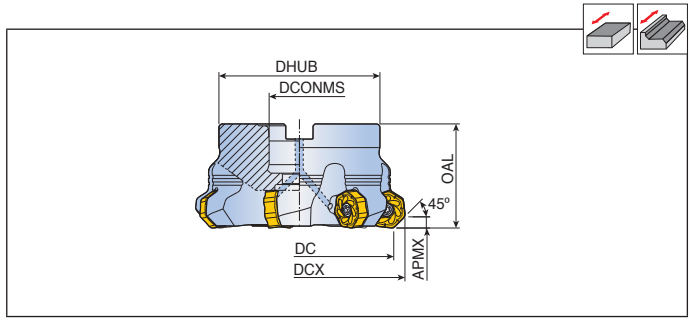
Cutting Condition E271-E273

Arbor Style E274-E275

14D-F45XN-09

CHASE2HEPTA

Face mills



Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX					
14D-F45XN 563-22R-09	5	63	74.9	22	47	50	5.0	●	A	0.9	SH M10x35	XNM(H)U 0906... E266
663-22R-09	6	63	74.9	22	47	50	5.0	●	A	0.9	SH M10x35	
680-27R-09	6	80	91.9	27	70	50	5.0	●	A	1.4	SH M12x35	
780-27R-09	7	80	91.9	27	70	50	5.0	●	A	1.5	SH M12x35	
7100-32R-09	7	100	112	32	85	55	5.0	●	A	2.4	SH M16x35	
9100-32R-09	9	100	112	32	85	55	5.0	●	A	2.5	SH M16x35	
8125-40R-09	8	125	137	40	85	63	5.0	●	A	3.5	SH M20x40	
10125-40R-09	10	125	137	40	85	63	5.0	●	A	3.6	SH M20x40	
12125-40R-09	12	125	137	40	85	63	5.0	●	A	3.4	SH M20x40	
10160-40R-09	10	160	172	40	110	63	5.0	x	C	4.8	-	
12160-40R-09	12	160	172	40	110	63	5.0	x	C	4.8	-	
14160-40R-09	14	160	172	40	110	63	5.0	x	C	4.8	-	
12200-60R-09	12	200	212	60	130	63	5.0	x	C	6.8	-	
16200-60R-09	16	200	212	60	130	63	5.0	x	C	6.9	-	
16250-60R-09	16	250	262	60	160	63	5.0	x	C	11.5	-	
20250-60R-09	20	250	262	60	160	63	5.0	x	C	11.5	-	
14D-F45XN 680-25.4R-09	6	80	91.9	25.4	70	50	5.0	●	A	1.4	SH M12x35	
7100-31.75R-09	7	100	112	31.75	80	55	5.0	●	A	2.4	SH M16x35	
8125-38.1R-09	8	125	137	38.1	80	63	5.0	x	B	3.5	-	
10160-50.8R-09	10	160	172	50.8	100	63	5.0	x	B	4.8	-	
12200-47.625R-09	12	200	212	47.625	130	63	5.0	x	C	6.8	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

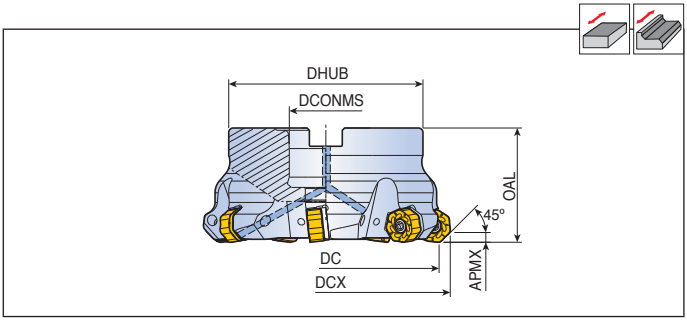
Designation	Screw	Wrench			
					
14D-F45XN-09	TS 50C130I/HG	T-T20			

Cutting Condition E271-E273
Arbor Style E274-E275

ADVANCE CUTTING TaeguTec

14D-F45XNH-06/09

Shim type face mills



45°

Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX					
14D-F45XNH 763-22R-06	7	63	72.2	22	47	40	3.5	●	A	0.7	SH M10x25	XNM(H)U 0605... E265
780-27R-06	7	80	89.2	27	70	50	3.5	●	A	1.5	SH M12x35	
880-27R-06	8	80	89.2	27	70	50	3.5	●	A	1.5	SH M12x35	
7100-32R-06	7	100	109.2	32	85	50	3.5	●	A	2.2	SH M16x35	
8100-32R-06	8	100	109.2	32	85	50	3.5	●	A	2.2	SH M16x35	
11125-40R-06	11	125	134.2	40	85	63	3.5	●	A	3.5	SH M20x40	
14D-F45XNH 563-22R-09	5	63	75.1	22	47	40	5.0	●	A	0.6	SH M10x35	XNM(H)U 0906... E266
680-27R-09	6	80	92.1	27	70	50	5.0	●	A	1.5	SH M12x35	
7100-32R-09	7	100	112.1	32	85	50	5.0	●	A	2.2	SH M16x35	
9125-40R-09	9	125	137.0	40	85	63	5.0	●	A	3.6	SH M20x40	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

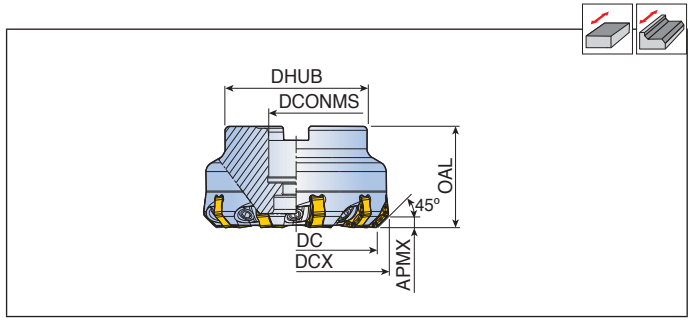
Designation	Screw	Shim	Shim screw	Wrench	Wrench handle
14D-F45XNH-06	TS 35C110I	TSXN 06N	TS 5035062S-B	TBLD T15-W6	SW6-T
14D-F45XNH-09	TS 50C130I/HG	TSXN 09N	TS 8050088S	TBLD T20-W6	SW6-T

Cutting Condition E271-E273
Arbor Style E274-E275

14D-F45XNW-09

CHASE2HEPTA

Face mill



45°

Designation		Dimension (mm)						Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX				
14D-F45XNW 1080-27R-09	10	80	91.9	27	70	50	5.0	A	1.5	SH M12x35	XNHU 0906... E266
14100-32R-09	14	100	112	32	85	55	5.0	A	2.9	SH M16x35	
18125-40R-09	18	125	137	40	85	63	5.0	B	3.8	-	
18160-40R-09	18	160	172	40	110	63	5.0	C	5.6	-	
22160-40R-09	22	160	172	40	110	63	5.0	C	5.6	-	
28200-60R-09	28	200	212	60	130	63	5.0	C	7.9	-	
36250-60R-09	36	250	262	60	160	63	5.0	C	12.7	-	
44315-60R-09	44	315	327	60	220	63	5.0	D	19.9	-	

• Recommend to very stable machining condition at cast iron & steel

Spare parts

Designation	Wedge	Wedge screw	Wrench		
14D-F45XNW-09	WFZ 8H	WS 8	T-W 4		

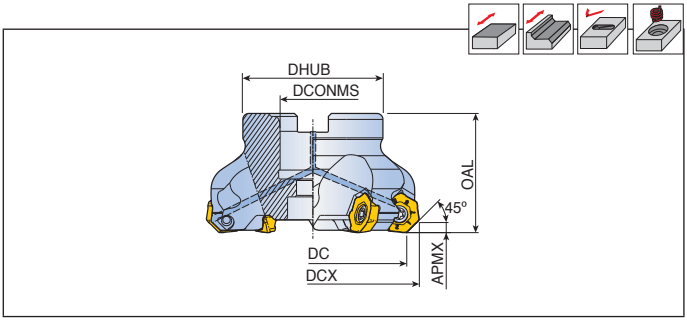
Cutting Condition E271-E273
Arbor Style E274-E275

ADVANCE CUTTING TaeguTec

7S-F45-06

CHASE HEPTA

Face mills



45°

Designation			Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
			DC	DCX	DCONMS	DHUB	OAL	APMX					
7S-F45	332-16R-06	3	32	40.4	16	38	40	3.2	●	E	0.2	KTB 32B	7EMT 0604... E223
	440-16R-06	4	40	48.5	16	38	40	3.2	●	A	0.3	SH M8x30	
	550-22R-06	5	50	58.5	22	45	40	3.2	●	A	0.4	LH M10x25	
	663-22R-06	6	63	71.5	22	47	40	3.2	●	A	0.5	LH M10x25	
	780-27R-06	7	80	88.5	27	70	50	3.2	●	A	1.3	LH M12x30	
	8100-32R-06	8	100	108.5	32	85	50	3.2	●	A	1.9	LH M16x35	
	9125-40R-06	9	125	133.5	40	85	63	3.2	●	A	3.3	SH M20x40	
7S-F45	780-25.4R-06	7	80	88.5	25.4	70	50	3.2	●	A	1.3	LH M12x30	
	8100-31.75R-06	8	100	108.5	31.75	80	50	3.2	●	A	1.8	LH M16x35	
	9125-38.1R-06	9	125	133.5	38.1	80	63	3.2	x	B	2.8	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M8x1.25x30-C)

Spare parts

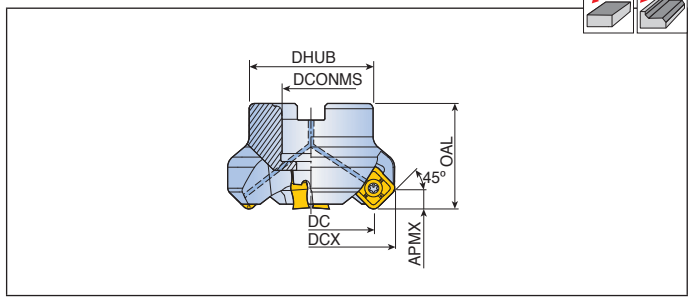
Designation	Screw	Wrench			
7S-F45-06	TS 40093I/HG	T-T15			

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E327

TFM45SN-13

CHASE2QUAD

Face mills



Designation			Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
			DC	DCX	DCONMS	DHUB	OAL	APMX					
TFM45SN	440-16R-13	4	40	54.7	16	38	40	7.0	●	A	0.3	LH M10x25	SNM(G)X 1306 AN... SNMX 1306 XTN E252
	450-22R-13	4	50	64.7	22	45	40	7.0	●	A	0.5	LH M10x25	
	650-22R-13	6	50	64.7	22	45	40	7.0	●	A	0.5	LH M10x25	
	663-22R-13	6	63	77.7	22	47	40	7.0	●	A	0.7	LH M10x25	
	863-22R-13	8	63	77.7	22	47	40	7.0	●	A	0.7	LH M10x25	
	480-27R-13B	4	80	94.8	27	70	50	7.0	●	A	1.4	LH M12x30	
	780-27R-13	7	80	94.8	27	70	50	7.0	●	A	1.5	LH M12x30	
	1080-27R-13	10	80	94.8	27	70	50	7.0	●	A	1.5	LH M12x30	
	5100-32R-13B	5	100	114.8	32	85	50	7.0	●	A	2.1	LH M16x35	
	8100-32R-13	8	100	114.8	32	85	50	7.0	●	A	2.2	LH M16x35	
	12100-32R-13	12	100	114.8	32	85	50	7.0	●	A	2.2	LH M16x35	
	6125-40R-13B	6	125	139.8	40	85	63	7.0	●	A	3.8	SH M20x40	
	10125-40R-13	10	125	139.8	40	85	63	7.0	●	A	3.8	SH M20x40	
	16125-40R-13	16	125	139.6	40	85	63	7.0	●	A	3.8	SH M20x40	
	8160-40R-13B	8	160	174.8	40	110	63	7.0	x	C	4.9	-	
	12160-40R-13	12	160	174.8	40	110	63	7.0	x	C	4.9	-	
	20160-40R-13	20	160	174.5	40	110	63	7.0	x	C	5.0	-	
	10200-60R-13B	10	200	214.8	60	130	63	7.0	x	C	6.5	-	
	18200-60R-13	18	200	214.8	60	130	63	7.0	x	C	6.6	-	
	26200-60R-13	26	200	214.3	60	130	63	7.0	x	C	7.0	-	
	20250-60R-13	20	250	264.8	60	160	63	7.0	x	C	12.9	-	
TFM45SN	480-25.4R-13B	4	80	94.8	25.4	70	50	7.0	●	A	1.4	LH M12x30	
	5100-31.75R-13B	5	100	114.8	31.75	80	50	7.0	x	B	2.1	-	
	6125-38.1R-13B	6	125	139.8	38.1	80	63	7.0	x	B	3.8	-	
	10125-38.1R-13	10	125	139.8	38.1	80	63	7.0	x	B	3.4	-	
	8160-50.8R-13B	8	160	174.8	50.8	100	63	7.0	x	B	4.9	-	
	12160-50.8R-13	12	160	174.8	50.8	100	63	7.0	x	B	5.0	-	
	10200-47.625R-13B	10	200	214.8	47.625	130	63	7.0	x	C	6.5	-	
	12250-47.625R-13B	12	250	264.8	47.625	160	63	7.0	x	C	12.9	-	

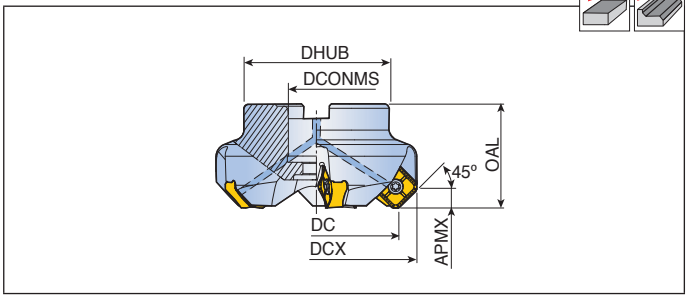
• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

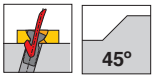
Cutting Condition E271-E273
Arbor Style E274-E275

TFM45SNS-16

CHASE2QUAD

Face mills





Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX					
TFM45SNS 463-22R-16	4	63	81.1	22	47	50	8.8	•	A	1.0	LH M10x25	SNMX 1607... SNHX 1606... E254
580-27R-16	5	80	98.2	27	70	50	8.8	•	A	1.5	LH M12x30	
7100-32R-16	7	100	118.2	32	85	50	8.8	•	A	2.3	LH M16x35	
8125-40R-16	8	125	143.2	40	85	63	8.8	•	A	4.0	SH M20x40	
10125-40R-16	10	125	143.2	40	85	63	8.8	•	A	4.0	SH M20x40	
10160-40R-16	10	160	178.2	40	110	63	8.8	x	C	5.4	-	
12160-40R-16	12	160	178.2	40	110	63	8.8	x	C	5.4	-	
12200-60R-16	12	200	218.2	60	130	63	8.8	x	C	7.5	-	
14250-60R-16	14	250	268.2	60	160	63	8.8	x	C	13	-	
TFM45SNS 580-25.4R-16	5	80	98.2	25.4	70	50	8.8	•	A	1.5	LH M12x30	
7100-31.75R-16	7	100	118.2	31.75	80	50	8.8	x	B	2.3	-	
8125-38.1R-16	8	125	143.2	38.1	80	63	8.8	x	B	4.0	-	
10160-50.8R-16	10	160	178.2	50.8	100	63	8.8	x	B	5.4	-	
12200-47.625R-16	12	200	218.2	47.625	130	63	8.8	x	C	7.5	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

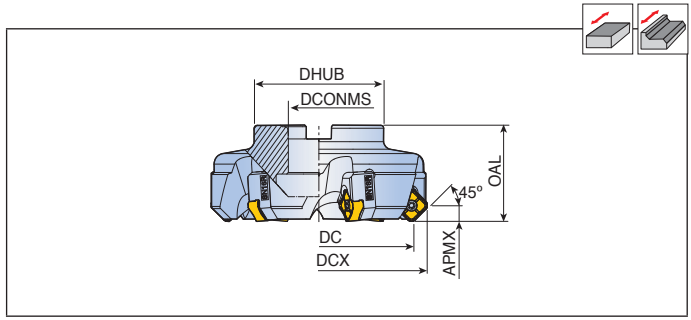
Designation	Screw	Wrench			
					
TFM45SN-13	TS 40B100I	T-T15			
TFM45SNS-16	TS 45120I	T-T20			

Cutting Condition E271-E273
Arbor Style E274-E275

TFM45SNS-16B-CA

CHASE2QUAD

Face mills



45°

Designation		Dimension (mm)						Arbor style	Kg	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX			
TFM45SNS 6125-40R-16B-CA	6	125	143.2	40	85	63	8.8	B	4.0	SNMX 1607... SNHX 1606... E254
8160-40R-16B-CA	8	160	178.2	40	110	63	8.8	C	5.9	
10200-60R-16B-CA	10	200	218.2	60	130	63	8.8	C	8.1	
14250-60R-16-CA	14	250	268.2	60	160	63	8.8	C	13.3	
14315-60R-16B-CA	14	315	333.2	60	220	80	8.8	D	24.0	

Spare parts

Designation	Screw	Cartridge	Cartridge screw	Wrench	
TFM45SNS-16B-CA	TS 45120I	TCT23-SN16R	TS 60170I	T-TP20	

Cutting Condition E271-E273
Arbor Style E274-E275

ADVANCE CUTTING TaeguTec

TFM45SNW-16/TQ45SNW-16

CHASE2QUAD

Face mills

45°

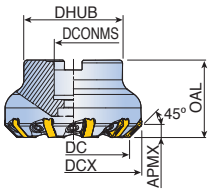


Fig.1

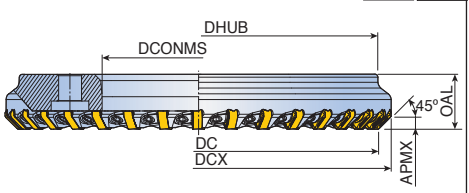


Fig.2

Designation		Dimension (mm)						Fig.	Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX					
TFM45SNW	**1080-27R-16**	80	98.2	27	70	55	8.8	1	A	1.9	LH M12x30	SNHX 1606...
	14100-32R-16	100	118.2	32	85	63	8.8	1	A	3.2	SH M16x35	E254
	18125-40R-16	125	143.2	40	85	63	8.8	1	B	3.9	-	
	22160-40R-16	160	178.2	40	110	63	8.8	1	C	5.7	-	
	26200-60R-16	200	218.2	60	130	63	8.8	1	C	7.8	-	
	32250-60R-16	250	268.2	60	160	63	8.8	1	C	13.5	-	

Designation		Dimension (mm)						Fig.	Kg	Adapter	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX				
TQ45SNW	**26200R-16**	200	218.2	63.5	200	38	8.8	2	6.3	QA 08 K/M	SNHX 1606...
	34250R-16	250	268.2	133.35	248	38	8.8	2	7.9	QA 10 K/M	E254
	44315R-16	315	333.2	146.05	313	38	8.8	2	13.2	QA 12 K/M	
	50355R-16	355	373.2	215.90	353	38	8.8	2	13.0	QA 14 K/M	

• Recommend to very stable machining condition at cast iron & steel

Spare parts

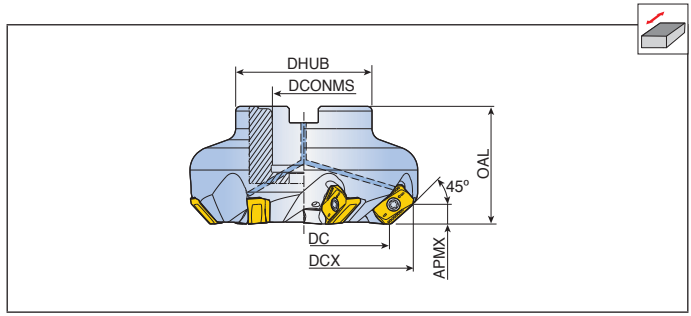
Designation	Wedge	Wedge screw	Wrench		
TFM45SNW	WFZ 8H-SN	WS 8	T-W 4		
TQ45SNW	WFZ 8H-SN	WS 8	T-W 4		

Cutting Condition E271-E273
Arbor Style E274-E275
Technical Data E276

TFM45AN-16

CHASE2MILL

Face mills



45°

Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX					
TFM45AN 450-22R-16	4	50	67.8	22	45	40	8.4	●	A	0.6	LH M10x25	ANHX 1607 ANR-M E223
663-22R-16	6	63	80.6	22	47	40	8.4	●	A	0.9	LH M10x25	
780-27R-16	7	80	97.5	27	58	50	8.4	●	A	1.6	SH M12x35	
8100-32R-16	8	100	117.5	32	85	50	8.4	●	A	2.5	LH M16x35	
9125-40R-16	9	125	142.6	40	85	63	8.4	●	A	4.3	SH M20x40	
10160-40R-16	10	160	177.7	40	110	63	8.4	x	C	5.8	-	

- 90° Inserts can not be mounted
- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
TFM45AN	TS 40120I	T-T15			

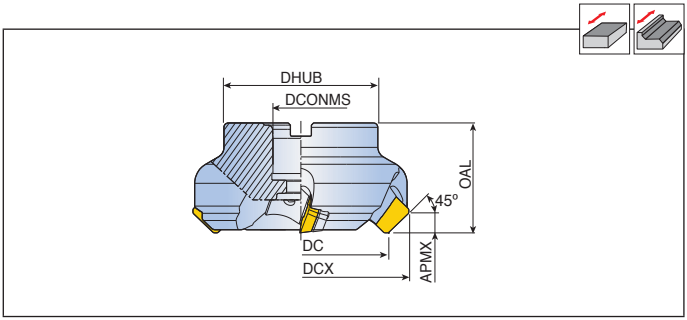
Cutting Condition E271-E273
Arbor Style E274-E275

ADVANCE CUTTING TaeguTec

LM45SD-12/15

LIONMILL

Face mills (Inch bore)



45°

Designation		Dimension (mm)						Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX				
LM45SD	**480-25.4R-12**	4	80	93.8	25.4	70	50	6.5	A	1.6	LH M12x30	SDKN 1203...
	5100-31.75R-12	5	100	113.8	31.75	80	60	6.5	A	2.8	LH M16x35	E248
	6125-38.1R-12	6	125	138.8	38.1	80	63	6.5	B	3.5	-	
	8160-50.8R-12	8	160	173.9	50.8	100	63	6.5	B	5.5	-	
	10200-47.625R-12	10	200	213.9	47.625	130	63	6.5	C	7.6	-	
	12250-47.625R-12	12	250	263.9	47.625	160	63	6.5	C	12.6	-	
LM45SD	**6125-38.1R/L-15**	6	125	143.6	38.1	80	63	8.7	B	3.5	-	SDKN 1504...
	8160-50.8R/L-15	8	160	178.6	50.8	100	63	8.7	B	5.5	-	E248
	10200-47.625R-15	10	200	218.6	47.625	130	63	8.7	C	7.6	-	
	12250-47.625R/L-15	12	250	268.6	47.625	160	63	8.7	C	12.6	-	
	14315-47.625R/L-15	14	315	333.54	47.625	220	63	6.7	D	18.7	-	

• Metric bore cutter is available upon request

Spare parts

Designation	Carbide shim	Wedge	Shim screw	Wedge screw (1)	Wrench	(2)
LM45SD-12	TSSDSE 12N	WPA 8	TS 40B100I	TS 80200W TS 80160W(1)	T-W 4	T-T15
LM45SD-15	TSSDSE 15N	WPA 8	TS 40B100I		T-W 4	T-T15

Cutting Condition E271-E273

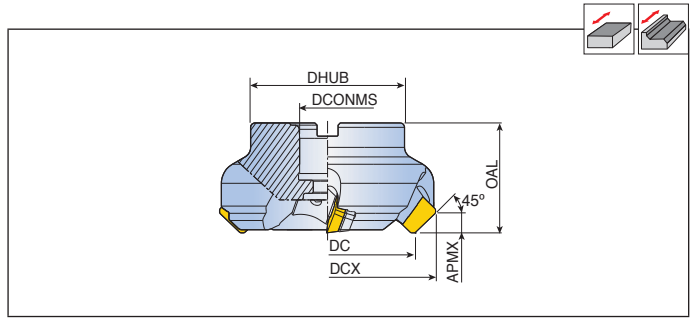
Arbor Style E274-E275

• (1) TS 80160W is for D80 cutter
• The shim screw wrench T-T15(2) shall be ordered separately

LM45SE-12/15

LIONMILL

Face mills (Inch bore)



45°

Designation		Dimension (mm)						Arbor style	Kg	Mounting bolt	Insert
		DC	DCX	DCONMS	DHUB	OAL	APMX				
LM45SE	**480-25.4R-12**	4	80	93.7	25.4	70	55	6.5	A	1.8	LH M12x30	SEKN 1203...
	5100-31.75R-12	5	100	113.6	31.75	80	60	6.5	A	2.8	LH M16x35	E249
	6125-38.1R-12	6	125	138.6	38.1	80	63	6.5	B	3.4	-	
	8160-50.8R-12	8	160	173.6	50.8	100	63	6.5	B	5	-	
	10200-47.625R-12	10	200	213.6	47.625	130	63	6.5	C	7.5	-	
	12250-47.625R-12	12	250	263.6	47.625	160	63	6.5	C	12.2	-	
LM45SE	**480-25.4R-15**	4	80	97.8	25.4	70	55	8.7	A	1.8	LH M12x30	SEKN 1504...
	5100-31.75R-15	5	100	118	31.75	80	60	8.7	A	2.8	LH M16x35	E249
	6125-38.1R-15	6	125	143	38.1	80	63	8.7	B	3.5	-	
	8160-50.8R-15	8	160	178	50.8	100	63	8.7	B	5.7	-	
	10200-47.625R-15	10	200	218	47.625	130	63	8.7	C	7.8	-	
	12250-47.625R-15	12	250	268	47.625	160	63	8.7	C	12.8	-	

• Metric bore cutter is available upon request

Spare parts

Designation	Carbide shim	Wedge	Shim screw	Wedge screw	Wrench	
				(1)		(2)
LM45SE-12	TSSDSE 12N	WPA 8	TS 40B100I	TS 80200W TS 80160W(1)	T-W 4	T-T15
LM45SE-15	TSSDSE 15N	WPA 8	TS 40B100I		T-W 4	T-T15

Cutting Condition E271-E273

Arbor Style E274-E275

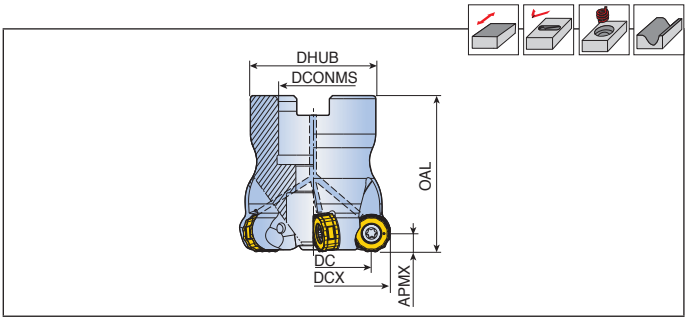
• (1) TS 80160W is for D80 cutter
• The shim screw wrench T-T15(2) shall be ordered separately

ADVANCE CUTTING TaeguTec

TFMRNS-10/12

CHASE2MOLD

Face mills



Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMRNS 432-16R-10	4	32	22	16	30	40	5.0	●	E	0.1	KTB 32B	RNMU 1004... E244
433-16R-10	4	33	23	16	30	40	5.0	●	E	0.1	KTB 32B	
540-16R-10	5	40	30	16	38	40	5.0	●	A	0.2	SH M8x30	
650-22R-10	6	50	40	22	45	50	5.0	●	A	0.4	SH M10x30	
652-22R-10	6	52	42	22	45	50	5.0	●	A	0.4	SH M10x30	
TFMRNS 440-16R-12	4	40	28	16	38	40	6.0	●	A	0.2	SH M8x30	RNMU 1205... E244
450-22R-12	4	50	38	22	45	50	6.0	●	A	0.3	SH M10x30	
550-22R-12	5	50	40	22	45	50	6.0	●	A	0.3	SH M10x30	
552-22R-12	5	52	40	22	45	50	6.0	●	A	0.4	SH M10x30	
563-22R-12	5	63	51	22	47	50	6.0	●	A	0.6	SH M10x30	
663-22R-12	6	63	51	22	47	50	6.0	●	A	0.6	SH M10x30	
666-27R-12	6	66	54	27	58	50	6.0	●	A	0.6	SH M12x35	
680-27R-12	6	80	68	27	58	50	6.0	●	A	1.1	SH M12x35	
780-27R-12	7	80	68	27	58	50	6.0	●	A	1.0	SH M12x35	
7100-32R-12	7	100	88	32	66	50	6.0	●	A	1.5	LH M16x35	
8100-32R-12	8	100	88	32	66	50	6.0	●	A	1.5	LH M16x35	

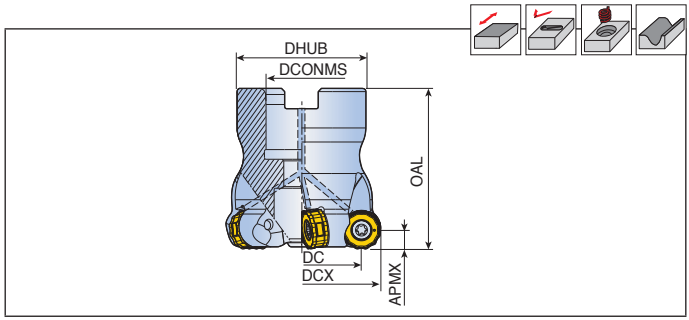
Cutting Condition E271-E273

Arbor Style E274-E275

Ramping Data E339

TFMRNS-16

Face mills



Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMRNS 350-16R-16	3	50	34	16	38	50	8.0	●	A	0.2	SH M8x30	RNMU 1606... E244
450-16R-16	4	50	34	16	38	50	8.0	●	A	0.2	SH M8x30	
452-22R-16	4	52	36	22	45	50	8.0	●	A	0.3	SH M10x30	
463-22R-16	4	63	47	22	47	50	8.0	●	A	0.5	SH M10x30	
566-27R-16	5	66	50	27	58	50	8.0	●	A	0.6	LH M12x30	
580-27R-16	5	80	64	27	58	50	8.0	●	A	0.9	LH M12x30	
680-27R-16	6	80	64	27	58	50	8.0	●	A	0.8	LH M12x30	
6100-32R-16	6	100	84	32	66	50	8.0	●	A	1.7	LH M16x35	
7125-40R-16	7	125	109	40	85	63	8.0	●	A	3.0	SH M20x40	
8125-40R-16	8	125	109	40	85	63	8.0	●	A	2.9	SH M20x40	
9160-40R-16	9	160	144	40	110	63	8.0	x	C	3.8	-	
10200-60R-16	10	200	184	60	130	63	8.0	x	C	5.6	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

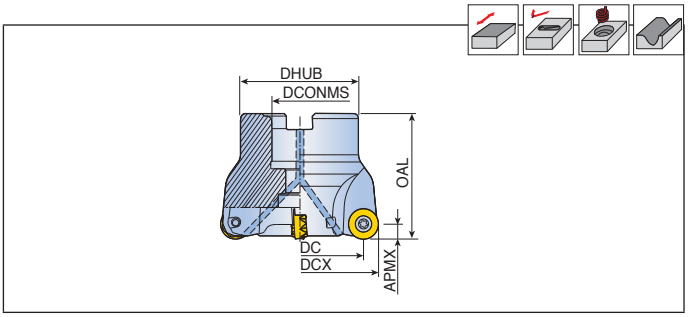
Designation	Screw	Wrench			
					
TFMRNS-10	TS 35085I/HG	T-T15			
TFMRNS-12	TS 40G110I	T-T15			
TFMRNS-16	TS 50A121I/HG	T-T20			

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E340

TFMRY-08/10/12

CHASEMOLD

Face mills



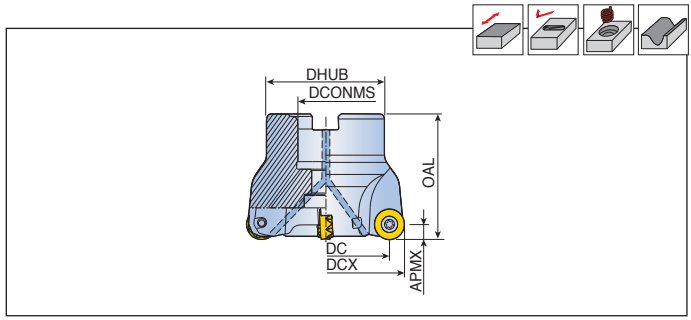
Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMRY 532-16R-08	5	32	24	16	30	40	4.0	●	A	0.12	SH M8x30	RYM(H)X 0803... E245-E246
640-16R-08	6	40	32	16	38	40	4.0	●	A	0.22	SH M8x30	
TFMRY 432-16R-10	4	32	22	16	30	40	5.0	●	A	0.12	SH M8x30	RYM(H)X 1004... E245-E246
540-16R-10	5	40	30	16	38	40	5.0	●	A	0.22	SH M8x30	
640-16R-10	6	40	30	16	38	40	5.0	●	A	0.23	SH M8x30	
650-22R-10	6	50	40	22	45	50	5.0	●	A	0.33	SH M10x30	
652-22R-10	6	52	42	22	45	50	5.0	●	A	0.36	SH M10x30	
763-22R-10	7	63	53	22	47	50	5.0	●	A	0.57	SH M10x30	
766-27R-10	7	66	56	27	58	50	5.0	●	A	0.68	LH M12x30	
TFMRY 332-16R-12	3	32	20	16	30	50	6.0	●	E	0.12	KTB 32B	RYM(H)X 1205... E245-E246
440-16R-12	4	40	28	16	38	40	6.0	●	A	0.15	SH M8x30	
442-16R-12	4	42	30	16	38	40	6.0	●	A	0.21	SH M8x30	
450-22R-12	4	50	38	22	45	50	6.0	●	A	0.33	SH M10x30	
550-22R-12	5	50	38	22	45	50	6.0	●	A	0.33	SH M10x30	
552-22R-12	5	52	40	22	45	50	6.0	●	A	0.34	SH M10x30	
463-22R-12	4	63	51	22	47	50	6.0	●	A	0.57	SH M10x30	
563-22R-12	5	63	51	22	47	50	6.0	●	A	0.58	SH M10x30	
663-22R-12	6	63	51	22	47	50	6.0	●	A	0.58	SH M10x30	
763-22R-12	7	63	51	22	47	50	6.0	●	A	0.71	SH M10x30	
666-27R-12	6	66	54	27	58	50	6.0	●	A	0.62	LH M12x30	
766-27R-12	7	66	54	27	58	50	6.0	●	A	0.62	LH M12x30	
680-27R-12	6	80	68	27	58	50	6.0	●	A	0.90	LH M12x30	
780-27R-12	7	80	68	27	58	50	6.0	●	A	0.92	LH M12x30	
880-27R-12	8	80	68	27	58	50	6.0	●	A	0.98	LH M12x30	
7100-32R-12	7	100	88	32	66	50	6.0	●	A	1.29	LH M16x35	
8100-32R-12	8	100	88	32	66	50	6.0	●	A	1.37	LH M16x35	
8125-40R-12	8	125	113	40	85	63	6.0	●	A	3.00	SH M20x40	
9125-40R-12	9	125	113	40	85	63	6.0	●	A	2.99	SH M20x40	

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E341-E342

TFMRY-16

CHASEMOLD

Face mills



Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMRY	**350-16R-16**	3	50	34	16	38	50	8.0	●	A	0.3	SH M8x35	RYM(H)X 1606... E245-E246
	450-16R-16	4	50	34	16	38	50	8.0	●	A	0.3	SH M8x35	
	450-22R-16	4	50	34	22	45	50	8.0	●	A	0.3	SH M10x30	
	452-22R-16	4	52	36	22	45	50	8.0	●	A	0.3	SH M10x30	
	463-22R-16	4	63	47	22	47	50	8.0	●	A	0.5	SH M10x30	
	463H-22R-16*	4	63	47	22	47	50	8.0	●	A	0.5	SH M10x30	
	566-27R-16	5	66	50	27	58	50	8.0	●	A	0.6	LH M12x30	
	580-27R-16	5	80	64	27	58	50	8.0	●	A	0.8	LH M12x30	
	580H-27R-16*	5	80	64	27	58	50	8.0	●	A	0.8	LH M12x30	
	680-27R-16	6	80	64	27	58	50	8.0	●	A	0.8	LH M12x30	
	6100-32R-16	6	100	84	32	66	50	8.0	●	A	1.2	LH M16x35	
	6100H-32R-16*	6	100	84	32	66	50	8.0	●	A	1.2	LH M16x35	
	7125-40R-16	7	125	109	40	85	63	8.0	●	A	2.7	SH M20x40	
	7125H-40R-16*	7	125	109	40	85	63	8.0	●	A	2.6	SH M20x40	
	8125-40R-16	8	125	109	40	85	63	8.0	●	A	2.7	SH M20x40	
	8160H-40R-16*	8	160	144	40	110	63	8.0	x	C	3.3	-	
TFMRY	**580-25.4R-16**	5	80	64	25.4	70	50	8.0	●	A	1.0	SH M12x35	

- *: Carbide shim type
- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

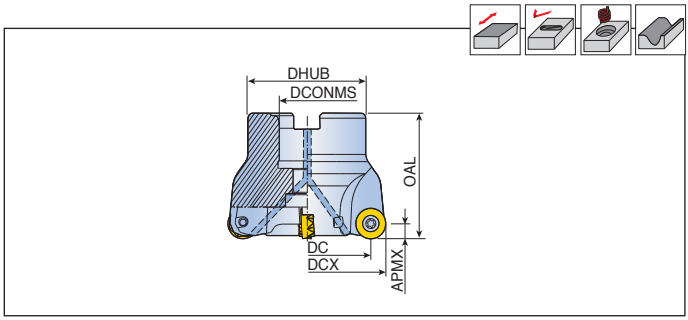
Designation	Shim	Shim screw	Screw	Wrench	
TFMRY-08	-	-	TS 30A60I/HG	TD 9	-
TFMRY-10	-	-	TS 35085/HG	-	T-T15
TFMRY-12	-	-	TS 40093I	-	T-T15
TFMRY-16	-	-	TS 50115I	-	T-T20
TFMRY...H-16	TSRY 16NS	TS 8050088S	TS 50A140I	-	T-T20

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E343

TFMRY-20

CHASEMOLD

Face mills



Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMRY 463-22R-20	4	63	43	22	47	50	10.0	•	A	0.5	SH M10x30	RYMX 2007...
580-27R-20	5	80	60	27	58	50	10.0	•	A	0.8	LH M12x30	
5100H-32R-20*	5	100	80	32	66	50	10.0	•	A	1.1	LH M16x35	E245-E246
6100-32R-20	6	100	80	32	66	50	10.0	•	A	1.2	LH M16x35	
5125H-40R-20*	5	125	105	40	85	63	10.0	•	A	2.7	SH M20x40	
7125-40R-20	7	125	105	40	85	63	10.0	•	A	2.5	SH M20x40	
6160H-40R-20*	6	160	140	40	110	63	10.0	x	C	2.7	-	
8160-40R-20	8	160	140	40	110	63	10.0	x	C	3.8	-	
8200H-60R-20*	8	200	180	60	130	63	10.0	x	C	5.3	-	
9250H-60R-20*	9	250	230	60	160	63	10.0	x	C	9.3	-	

- *: Carbide shim type
- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

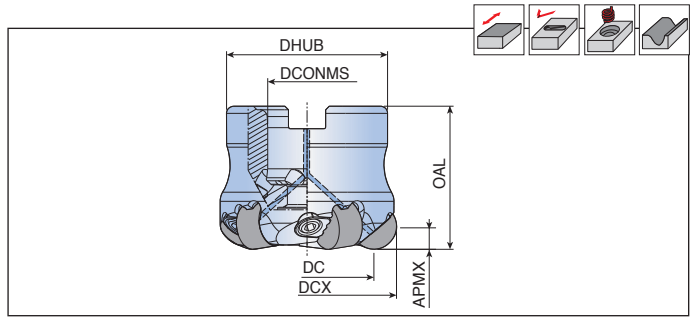
Designation	Shim	Shim screw	Screw	Wrench	Wrench handle
TFMRY-20	-	-	TS 60A130I	BLD T25/M7	SW6-T
TFMRY...H-20	TSRY 20NS	TS 9060011S	TS 60A165I	BLD T25/M7	SW6-T

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E343

TFMRN-12

CHASESPEED

Face mills



Designation			Dimension (mm)						Air hole(1)	Arbor style	Kg	Mounting bolt	Insert
			DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMRN	**450-22R-1207**	4	50	37.3	22	45	40	6.3	●	A	0.4	SH M10x30	RNGN 1207 FL... E243
	550-22R-1207	5	50	37.3	22	45	40	6.3	●	A	0.4	SH M10x30	
	463-22R-1207	4	63	50.3	22	47	40	6.3	●	A	0.6	SH M10x30	
	663-22R-1207	6	63	50.3	22	47	40	6.3	●	A	0.6	SH M10x30	
	763-22R-1207	7	63	50.3	22	47	40	6.3	●	A	0.6	SH M10x30	
	580-27R-1207	5	80	67.3	27	58	50	6.3	●	A	1.1	SH M12x35	
	780-27R-1207	7	80	67.3	27	58	50	6.3	●	A	1.1	SH M12x35	
	880-27R-1207	8	80	67.3	27	58	50	6.3	●	A	1.1	SH M12x35	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)
• (1) Use only air (Coolant is prohibited)

Spare parts

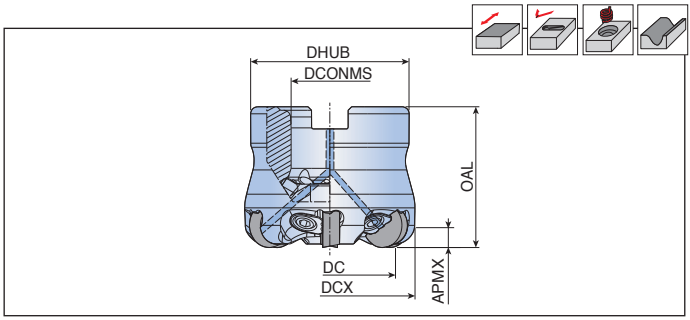
Designation	Wedge	Screw	Wrench		
					
TFMRN-12	WFZ 6-C	WS 6	T-W 3		

Cutting Condition E271-E273
Arbor Style E274-E275

TFMRP-12

CHASESPEED

Face mills



Designation			Dimension (mm)						Air hole(1)	Arbor style	Kg	Mounting bolt	Insert
			DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMRP	**450-22R-12**	4	50	37.3	22	45	40	6.3	•	A	0.3	LH M10x25	RPGN 1204 FL... E243
	650-22R-12	6	50	37.3	22	45	40	6.3	•	A	0.3	LH M10x25	

- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)
- (1) Use only air (Coolant is prohibited)

Spare parts

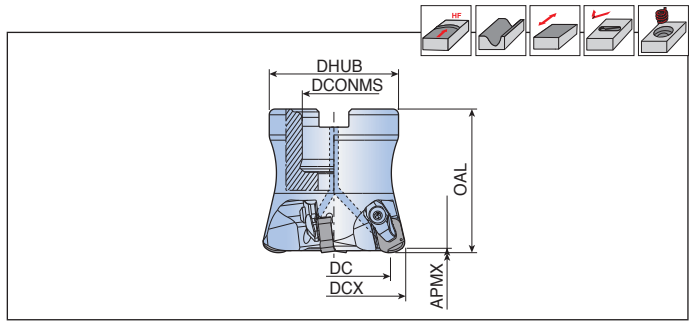
Designation	Wedge	Screw	Wrench		
TFMRP-12	WFZ 6-C	WS 6	T-W 3		

Cutting Condition E271-E273
Arbor Style E274-E275

TFMBN-09CH

CERAMICSFEED

High feed face mills



Designation		Dimension (mm)						Air hole[1]	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMBN 440-16R-09CH	4	40	29.4	16	38	40	1.5	●	A	0.2	SH M8x30	BNGX 0904... E234
350-22R-09CH	3	50	39.4	22	45	40	1.5	●	A	0.5	SH M10x30	
550-22R-09CH	5	50	39.4	22	45	40	1.5	●	A	0.4	SH M10x30	

- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)
- [1] Use only air (Coolant is prohibited)

Spare parts

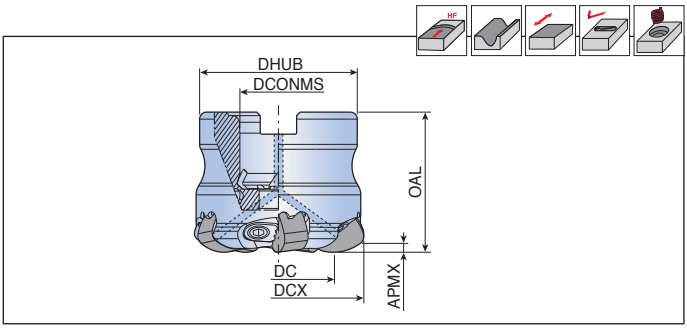
Designation	Clamp	Screw	Snap ring	Wrench	
TFMBN-09CH	CCL-3S	CLS-35A120	CSR 1.25	L-W 2	

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E344

TFMBN-12

CERAMICSFEED

High feed face mills



Designation		Dimension (mm)						Air hole[1]	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMBN 450-22R-12	4	50	32.8	22	45	40	2.5	●	A	0.3	SH M10x30	BNGX 1207... E234
550-22R-12	5	50	32.8	22	45	40	2.5	●	A	0.3	SH M10x30	
663-22R-12	6	63	45.7	22	47	40	2.5	●	A	0.4	SH M10x30	
763-22R-12	7	63	45.7	22	47	40	2.5	●	A	0.4	SH M10x30	
780-27R-12	7	80	62.6	27	70	50	2.5	●	A	1.2	SH M12x35	
880-27R-12	8	80	62.6	27	70	50	2.5	●	A	1.2	SH M12x35	

- Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)
- [1] Use only air (Coolant is prohibited)

Spare parts

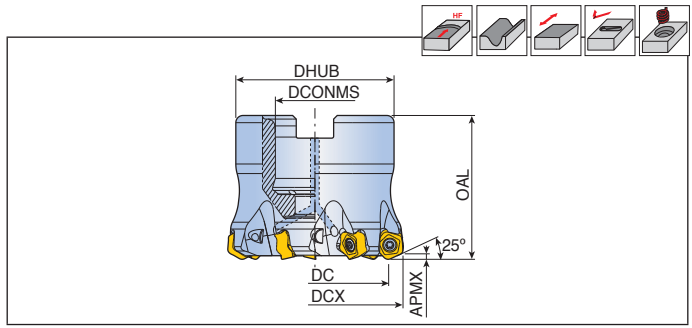
Designation	Wedge	Screw	Wrench		
					
TFMBN-12	WFZ 6-C	WS 6	T-W 3		

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E345

TFMPT-05/10

CHASE 10 MILL

High feed face mills



Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMPT	**640-16R-05**	6	40	31.8	16	38	40	1.5	●	A	0.3	SH M8x25	PTKU 0503... E242
	750-22R-05	7	50	41.8	22	45	40	1.5	●	A	0.4	LH M10x25	
	752-22R-05	7	52	43.8	22	45	40	1.5	●	A	0.3	LH M10x25	
	863-22R-05	8	63	54.8	22	58	50	1.5	●	A	0.8	SH M10x30	
	866-27R-05	8	66	57.8	27	58	50	1.5	●	A	0.7	SH M12x35	
TFMPT	**450-22R-10**	4	50	33.4	22	45	40	3.0	●	E	0.3	TCS10-40	PTKU 1006... E242
	563-22R-10	5	63	46.4	22	58	50	3.0	●	A	0.8	SH M10x30	
	566-22R-10	5	66	49.4	22	58	50	3.0	●	A	0.8	SH M10x30	
	680-27R-10	6	80	63.4	27	70	60	3.0	●	A	1.4	SH M12x30	
	8100-32R-10	8	100	83.4	32	85	60	3.0	●	A	2.3	SH M16x35	
	9125-32R-10	9	125	108.4	32	85	60	3.0	●	A	3.1	SH M16x35	
	10160-40R-10	10	160	143.4	40	110	60	3.0	x	C	4.1	-	
	12200-60R-10	12	200	183.4	60	130	60	3.0	x	C	5.7	-	
TFMPT	**680-25.4R-10**	6	80	63.4	25.4	70	60	3.0	●	A	1.5	SH M12x35	
	8100-31.75R-10	8	100	83.4	31.75	80	60	3.0	x	B	2.0	-	
	9125-38.1R-10	9	125	108.4	38.1	80	60	3.0	x	B	2.6	-	
	10160-50.8R-10	10	160	143.4	50.8	100	60	3.0	x	B	4.2	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench		Wrench handle	
					
TFMPT-05	TS 25D060/HG-P	TD7P	-	-	
TFMPT-10	TS 50D130/HG-P	-	TBLD T20P-W6	SW6-T	

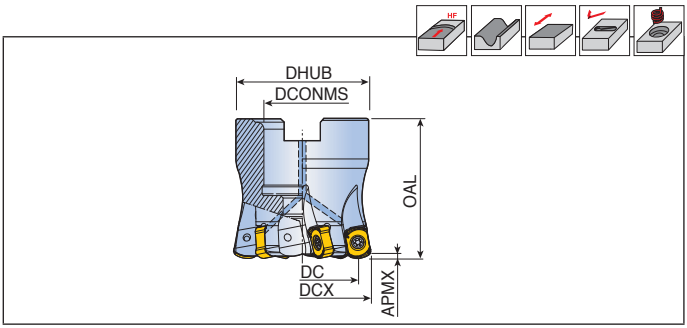
Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E328-E329

ADVANCE CUTTING TaeguTec

TFMBL-06/09

CHASE4FEED

High feed face mills



Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMBL 432-16R-06	4	32	24.3	16	30	40	1.0	●	A	0.1	SH M8x25	BLMP 0603... E232
532-16R-06	5	32	24.3	16	30	40	1.0	●	A	0.1	SH M8x25	
640-16R-06	6	40	32.2	16	38	40	1.0	●	A	0.2	SH M8x25	
640-22R-06	6	40	32.2	22	38	40	1.0	●	A	0.2	SH M10x30	
650-22R-06	6	50	42.2	22	45	50	1.0	●	A	0.4	SH M10x30	
750-22R-06	7	50	42.2	22	45	50	1.0	●	A	0.4	SH M10x30	
850-22R-06	8	50	42.2	22	45	50	1.0	●	A	0.4	SH M10x30	
752-22R-06	7	52	44.2	22	45	40	1.0	●	A	0.4	SH M10x30	
852-22R-06	8	52	44.2	22	45	40	1.0	●	A	0.4	SH M10x30	
763-22R-06	7	63	55.5	22	47	50	1.0	●	A	0.6	SH M10x30	
863-22R-06	8	63	55.5	22	47	50	1.0	●	A	0.6	SH M10x30	
963-22R-06	9	63	55.5	22	47	50	1.0	●	A	0.6	SH M10x30	
966-27R-06	9	66	58.5	27	58	50	1.0	●	A	0.7	SH M12x35	
TFMBL 432-16R-09	4	32	21.6	16	30	40	1.5	●	E	0.1	KTB 32B	BLMP 0904... E232
440-16R-09	4	40	29.6	16	38	40	1.5	●	A	0.2	SH M8x25	
540-16R-09	5	40	29.6	16	38	40	1.5	●	A	0.2	SH M8x25	
550-22R-09	5	50	39.6	22	45	50	1.5	●	A	0.4	SH M10x30	
650-22R-09	6	50	39.6	22	45	50	1.5	●	A	0.4	SH M10x30	
750-22R-09	7	50	39.6	22	45	50	1.5	●	A	0.4	SH M10x30	
652-22R-09	6	52	41.6	22	45	40	1.5	●	A	0.4	SH M10x30	
752-22R-09	7	52	41.6	22	45	40	1.5	●	A	0.4	SH M10x30	
663-22R-09	6	63	52.6	22	47	50	1.5	●	A	0.6	SH M10x30	
763-22R-09	7	63	52.6	22	47	50	1.5	●	A	0.6	SH M10x30	
863-22R-09	8	63	52.6	22	47	50	1.5	●	A	0.6	SH M10x30	
766-27R-09	7	66	55.6	27	58	50	1.5	●	A	0.7	SH M12x35	
866-27R-09	8	66	55.6	27	58	50	1.5	●	A	0.8	SH M12x35	
780-27R-09	7	80	69.6	27	70	50	1.5	●	A	1.2	SH M12x35	
880-27R-09	8	80	69.6	27	70	50	1.5	●	A	1.2	SH M12x35	
980-27R-09	9	80	69.6	27	70	50	1.5	●	A	1.2	SH M12x35	
1080-27R-09	10	80	69.6	27	70	50	1.5	●	A	1.2	SH M12x35	
8100-32R-09	8	100	89.6	32	85	60	1.5	●	A	2.3	SH M16x35	
9100-32R-09	9	100	89.6	32	85	60	1.5	●	A	2.3	SH M16x35	
10100-32R-09	10	100	89.6	32	85	60	1.5	●	A	2.3	SH M16x35	
11100-32R-09	11	100	89.6	32	85	60	1.5	●	A	2.3	SH M16x35	
12100-32R-09	12	100	89.6	32	85	60	1.5	●	A	2.3	SH M16x35	
12125-40R-09	12	125	114.6	40	85	60	1.5	●	A	2.7	SH M20x40	
14125-40R-09	14	125	114.6	40	85	60	1.5	●	A	2.7	SH M20x40	

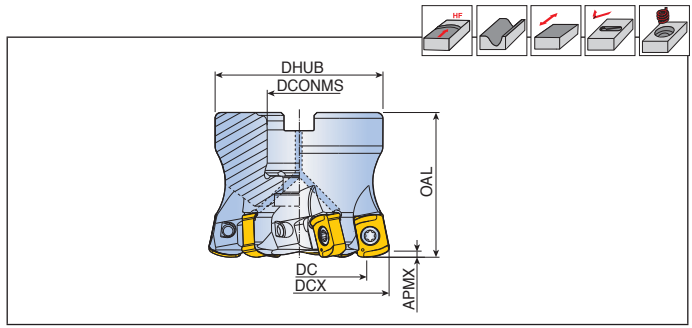
Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E332-E333

TaeguTec

TFMBL-11

CHASE4FEED

High feed face mills



Designation			Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
			DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMBL	**440-16R-11**	4	40	24.4	16	30	40	2.0	●	E	0.2	KTB 32B	BLMP 1105... E232
	450-22R-11	4	50	34.4	22	45	40	2.0	●	A	0.3	LH M10x25	
	550-22R-11	5	50	34.4	22	45	40	2.0	●	A	0.3	LH M10x25	
	552-22R-11	5	52	36.4	22	45	40	2.0	●	A	0.3	LH M10x25	
	563-22R-11	5	63	48.4	22	58	50	2.0	●	A	0.7	SH M10x30	
	663-22R-11	6	63	48.4	22	58	50	2.0	●	A	0.7	SH M10x30	
	666-22R-11	6	66	50.3	22	58	50	2.0	●	A	0.8	SH M10x30	
	666-27R-11	6	66	50.3	27	58	50	2.0	●	A	0.7	SH M12x35	
	680-27R-11	6	80	64.3	27	70	60	2.0	●	A	1.4	SH M12x30	
	780-27R-11	7	80	64.3	27	70	60	2.0	●	A	1.4	SH M12x30	
	6100-32R-11	6	100	84.3	32	85	60	2.0	●	A	2.2	SH M16x35	
	7100-32R-11	7	100	84.3	32	85	60	2.0	●	A	2.2	SH M16x35	
	8125-32R-11	8	125	109.3	32	85	60	2.0	●	A	2.5	SH M20x40	
	10125-40R-11	10	125	109.3	40	85	60	2.0	●	A	2.7	SH M20x40	
	10160-40R-11	10	160	144.3	40	110	60	2.0	x	C	3.9	-	
	12200-60R-11	12	200	184.3	60	130	60	2.0	x	C	5.8	-	
TFMBL	**680-25.4R-11**	6	80	64.3	25.4	70	60	2.0	●	A	1.4	SH M12x35	
	6100-31.75R-11	6	100	84.3	31.75	80	60	2.0	x	B	1.8	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

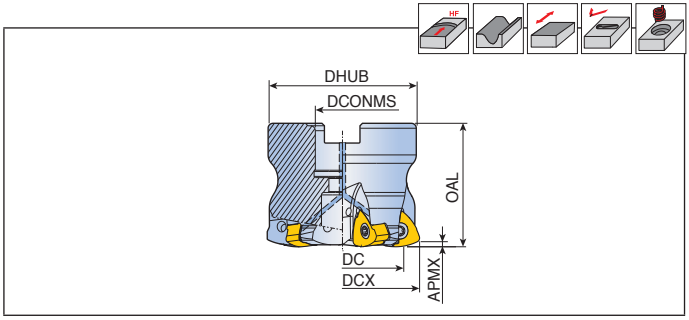
Designation	Screw	Wrench		Wrench handle	
TFMBL-06	TS 25064I/HG-P	TD 8P	-	-	
TFMBL-09	TS 35A088I/HG	TD 10P	-	-	
TFMBL-11	TS 50A121I/HG	-	TBLD T20-W6	SW6-T	

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E334

TFMBL-13

CHASE2FEED

High feed face mills



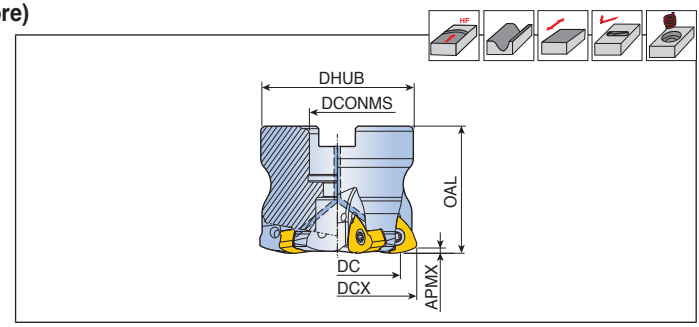
Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMBL 340-16R-13	3	40	20.7	16	30	50	2.0	●	A	0.2	KTB 32B	BLMP 1306...
350-22R-13	3	50	31.0	22	45	40	2.0	●	A	0.3	LH M10x25	E233
450-22R-13	4	50	31.0	22	45	40	2.0	●	A	0.3	LH M10x25	
452-22R-13	4	52	32.2	22	45	40	2.0	●	A	0.3	SH M10x30	
463-22R-13	4	63	45.8	22	60	50	2.0	●	A	0.8	SH M10x30	
563-22R-13	5	63	45.8	22	60	50	2.0	●	A	0.8	SH M10x30	
463-27R-13	4	63	45.8	27	58	50	2.0	●	A	0.7	SH M12x30	
466-22R-13	4	66	45.9	22	60	50	2.0	●	A	0.8	SH M10x30	
566-22R-13	5	66	45.9	22	60	50	2.0	●	A	0.8	SH M10x30	
566-27R-13	5	66	45.9	27	58	50	2.0	●	A	0.7	SH M12x30	
580-27R-13	5	80	59.8	27	70	60	2.0	●	A	1.4	SH M12x30	
680-27R-13	6	80	59.8	27	70	60	2.0	●	A	1.4	SH M12x30	
580-32R-13	5	80	59.8	32	76	60	2.0	●	A	1.4	SH M16x35	
5100-32R-13	5	100	79.7	32	76	60	2.0	●	A	1.9	SH M16x35	
6100-32R-13	6	100	79.7	32	76	60	2.0	●	A	2.0	SH M16x35	
7100-32R-13	7	100	79.7	32	76	60	2.0	●	A	2.0	SH M16x35	
6125-32R-13	6	125	104.5	32	85	60	2.0	●	A	3.0	SH M16x35	
7125-40R-13	7	125	104.5	40	85	60	2.0	●	A	2.9	SH M20x35	
7160-40R-13	7	160	139.5	40	110	60	2.0	x	C	3.6	-	
8160-40R-13	8	160	139.5	40	110	60	2.0	x	C	3.6	-	
9160-40R-13	9	160	139.5	40	110	60	2.0	x	C	3.8	-	
8200-60R-13	8	200	179.5	60	130	60	2.0	x	C	5.4	-	
9200-60R-13	9	200	179.5	60	130	60	2.0	x	C	5.3	-	
11200-60R-13	11	200	179.5	60	130	60	2.0	x	C	5.5	-	
9250-60R-13	9	250	229.5	60	160	60	2.0	x	C	10.6	-	
10250-60R-13	10	250	229.5	60	160	60	2.0	x	C	10.6	-	
12250-60R-13	12	250	229.5	60	160	60	2.0	x	C	10.7	-	

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E335

TFMBL-13

CHASE2FEED

High feed face mills (Inch bore)



Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMBL	**580-25.4R-13**	80	59.8	25.4	70	60	2.0	•	A	1.3	SH M12x30	BLMP 1306...
	580-31.75R-13	80	59.8	31.75	76	60	2.0	•	A	1.3	SH M16x35	E233
	6100-31.75R-13	100	79.7	31.75	76	60	2.0	•	A	1.9	SH M16x35	
	7125-38.1R-13	125	104.5	38.1	80	60	2.0	x	B	3.0	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

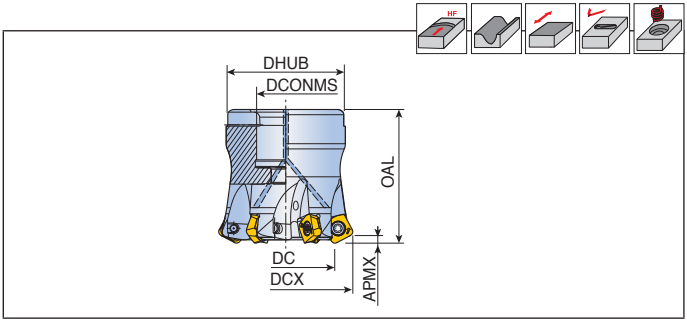
Designation	Screw	Wrench			
TFMBL-13	TS 50B106I/HG	T-T20			

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E335

TFMSB-06/09

CHASEFEED

High feed face mills



Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMSB 532-16R-06	5	32	21.7	16	30	40	1.0	•	A	0.1	SH M8x25	SBMT 0603... E247
640-16R-06	6	40	29.7	16	38	40	1.0	•	A	0.2	SH M8x25	
750-22R-06	7	50	39.7	22	45	50	1.0	•	A	0.4	SH M10x35	
863-22R-06	8	63	52.7	22	47	50	1.0	•	A	0.6	SH M10x35	
TFMSB 432-16R-09	4	32	17.4	16	30	40	1.2	•	E	0.1	KTB 32B	SBMT 0904... E247
440-16R-09	4	40	25.5	16	38	40	1.2	•	A	0.2	SH M8x25	
540-16R-09	5	40	25.5	16	38	40	1.2	•	A	0.2	SH M8x25	
450-22R-09	4	50	35.5	22	45	50	1.2	•	A	0.4	SH M10x30	
550-22R-09	5	50	35.5	22	45	50	1.2	•	A	0.4	SH M10x30	
650-22R-09	6	50	35.5	22	45	50	1.2	•	A	0.4	SH M10x30	
750-22R-09	7	50	35.5	22	45	50	1.2	•	A	0.4	SH M10x30	
652-22R-09	6	52	37.5	22	45	50	1.2	•	A	0.4	SH M10x30	
752-22R-09	7	52	37.5	22	45	50	1.2	•	A	0.4	SH M10x30	
663-22R-09	6	63	48.4	22	58	50	1.2	•	A	0.8	SH M10x30	
763-22R-09	7	63	48.4	22	58	50	1.2	•	A	0.8	SH M10x30	
763-27R-09	7	63	48.4	27	58	50	1.2	•	A	0.7	SH M12x35	
863-22R-09	8	63	48.4	22	58	50	1.2	•	A	0.8	SH M10x30	
866-22R-09	8	66	51.5	22	58	50	1.2	•	A	0.8	SH M10x30	
780-27R-09	7	80	65.8	27	70	60	1.2	•	A	1.4	SH M12x35	
880-27R-09	8	80	65.8	27	70	60	1.2	•	A	1.4	SH M12x35	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M8x1.25x25-C)

Spare parts

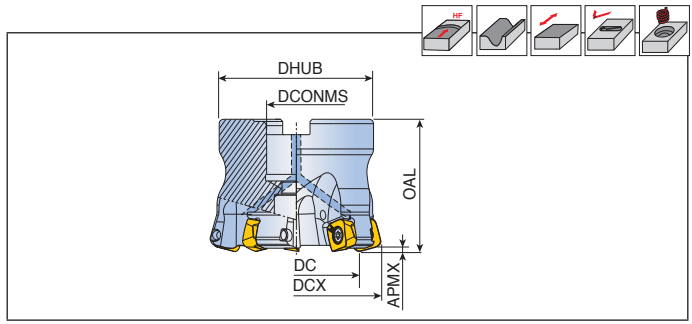
Designation	Screw	Wrench			
TFMSB-06	TS 25064I/HG-P	TD 8P			
TFMSB-09	TS 35A088I/HG	TD 10P			
TFMSB 750-22R-09	TS 35A070I/HG	TD 10P			
TFMSB 752-22R-09	TS 35A070I/HG	TD 10P			

Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E336-E337

TFMSB-13

CHASEFEED

High feed face mills



Designation		Dimension (mm)						Coolant hole	Arbor style	Kg	Mounting bolt	Insert
		DCX	DC	DCONMS	DHUB	OAL	APMX					
TFMSB 350-22R-13	3	50	29.3	22	45	40	2.0	●	A	0.3	LH M10x25	SBMT 1306... E247
450-22R-13	4	50	29.3	22	45	40	2.0	●	A	0.2	LH M10x25	
452-22R-13	4	52	31.3	22	45	40	2.0	●	A	0.3	LH M10x25	
552-22R-13	5	52	31.3	22	45	40	2.0	●	A	0.2	LH M10x25	
463-22R-13	4	63	42.4	22	58	50	2.0	●	A	0.6	SH M10x30	
563-22R-13	5	63	42.4	22	58	50	2.0	●	A	0.5	SH M10x30	
463-27R-13	4	63	42.4	27	58	50	2.0	●	A	0.5	SH M12x35	
566-27R-13	5	66	45.3	27	58	50	2.0	●	A	0.6	SH M12x35	
580-27R-13	5	80	59.4	27	70	60	2.0	●	A	1.3	SH M12x35	
680-27R-13	6	80	59.4	27	70	60	2.0	●	A	1.3	SH M12x35	
580-32R-13	5	80	59.4	32	76	60	2.0	●	A	1.3	SH M16x35	
6100-32R-13	6	100	79.4	32	76	60	2.0	●	A	1.9	SH M16x35	
7125-40R-13	7	125	104.7	40	85	60	2.0	●	A	2.5	SH M20x40	
8160-40R-13	8	160	139.4	40	110	60	2.0	x	C	3.5	-	
9200-60R-13	9	200	179.4	60	130	60	2.0	x	C	5.1	-	
10250-60R-13	10	250	229.4	60	160	60	2.0	x	C	9.1	-	
TFMSB 463-25.4R-13	4	63	42.4	25.4	58	50	2.0	●	A	0.5	SH M12x35	
580-25.4R-13	5	80	59.4	25.4	70	60	2.0	●	A	1.3	SH M12x35	
580-31.75R-13	5	80	59.4	31.75	76	60	2.0	●	A	1.3	SH M16x35	
7125-38.1R-13	7	125	104.7	38.1	80	60	2.0	x	B	2.2	-	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
TFMSB-13	TS 50115I	T-T20			

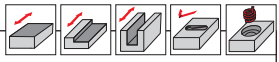
Cutting Condition E271-E273
Arbor Style E274-E275
Ramping Data E338

2S-TE90CV-05

End mills

90°

90°	High feed
	



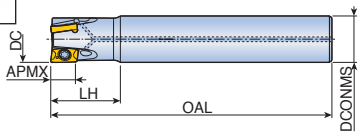


Fig.1

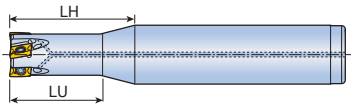


Fig.2

Designation		Dimension (mm)						Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LH	LU	APMX			
2S-TE90CV-106-06-05	1	6	6	60	12	-	5.0	●	1	CVK(H)T 0502...
106-06-05-L50	1	6	6	50	10	-	5.0	●	1	E235
208-07-05	2	8	7	80	12	-	5.0	●	1	
208-08-05	2	8	8	80	12	-	5.0	●	1	
208-08-05-L50	2	8	8	50	10	-	5.0	●	1	
208-12-05	2	8	12	80	25	18	5.0	●	2	
209-08-05	2	9	8	80	12	-	5.0	●	1	
210-10-05	2	10	10	80	15	-	5.0	●	1	
212-12-05	2	12	12	80	15	-	5.0	●	1	
310-09-05	3	10	9	80	12	-	5.0	●	1	
310-10-05	3	10	10	80	15	-	5.0	●	1	
310-10-05-L55	3	10	10	55	12	-	5.0	●	1	
310-16-05-L90	3	10	16	90	34	22	5.0	●	2	
311-10-05	3	11	10	80	12	-	5.0	●	1	
312-12-05	3	12	12	80	15	-	5.0	●	1	
412-11-05	4	12	11	80	12	-	5.0	●	1	
412-12-05	4	12	12	80	15	-	5.0	●	1	
412-12-05-L60	4	12	12	60	14	-	5.0	●	1	
412-16-05-L100	4	12	16	100	34	26	5.0	●	2	
413-12-05	4	13	12	80	12	-	5.0	●	1	
414-12-05	4	14	12	80	10	-	5.0	●	1	
514-14-05-L90	5	14	14	90	15	-	5.0	●	1	

Cutting Condition E271-E273
Ramping Data E286-E287

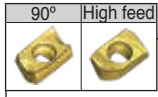
• Cutter body for '-HF' insert should be modified with body corner radius 1.8 mm

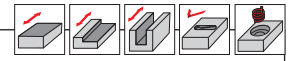
2S-TE90CV-M(S)-05

MILLSFEED

Modular heads

90°





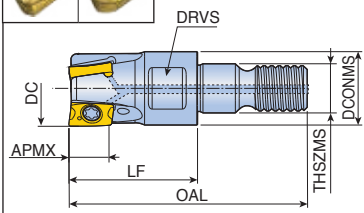


Fig.1

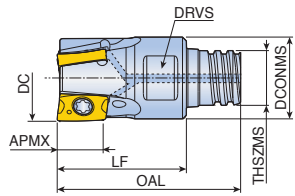


Fig.2

Designation		Dimension (mm)							Coolant hole	Fig.	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX	DRVS			
2S-TE90CV- 208-M04-05	2	8	7.8	10	21.5	M04	5.0	6	●	1	CVK(H)T 0502...
310-M06-05	3	10	9.7	17	31.5	M06	5.0	8	●	1	E235
412-M06-05	4	12	11	17	31.5	M06	5.0	8	●	1	
516-M08-05	5	16	13	23	40.5	M08	5.0	10	●	1	
620-M10-05	6	20	18	23	43.0	M10	5.0	15	●	1	
720-M10-05	7	20	18	23	43.0	M10	5.0	15	●	1	
2S-TE90CV- 208-S05-05	2	8	7.6	10	16.7	S05	5.0	5.5	●	2	
310-S06-05	3	10	9.6	15	21.3	S06	5.0	8	●	2	
412-S08-05	4	12	11.5	16	23.5	S08	5.0	10	●	2	

- Cutter body for '-HF' insert should be modified with body corner radius 1.8 mm
- Matched with T-FLEXTEC holder(Fig.1) & MAXI-RUSH holder(Fig.2)

Spare parts

Designation	Screw	Wrench			
					
2S-TE90CV-05	TS 18033/HG-P	TD 6P			

Cutting Condition E271-E273
Ramping Data E286-E287

4T-TE90-05/09

End mills

90°

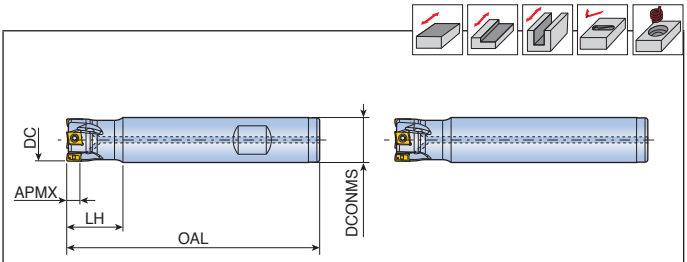


Fig.1 Fig.2

Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LH	APMX			
4T-TE90-210-10-05	2	10	10	80	15	4.6	●	2	LPK(H)U 0502...
211-10-05	2	11	10	80	15	4.6	●	2	E238
212-12-05	2	12	12	80	15	4.6	●	2	
312-12-05	3	12	12	80	15	4.6	●	2	
313-12-05	3	13	12	80	15	4.6	●	2	
316-W16-05	3	16	16	90	20	4.6	●	1	
416-W16-05	4	16	16	90	20	4.6	●	1	
420-W20-05	4	20	20	100	25	4.6	●	1	
520-W20-05	5	20	20	100	25	4.6	●	1	
625-W25-05	6	25	25	110	30	4.6	●	1	
832-W25-05	8	32	25	110	20	4.6	●	1	
4T-TE90-220-W20-09	2	20	20	100	30	8.3	●	1	LPK(H)U 0904...
220-20-09-L170	2	20	20	170	30	8.3	●	2	E238
320-W20-09	3	20	20	100	30	8.3	●	1	
325-W25-09	3	25	25	100	30	8.3	●	1	
325-25-09-L200	3	25	25	200	30	8.3	●	2	
425-W25-09	4	25	25	100	30	8.3	●	1	
425-25-09-L120	4	25	25	120	30	8.3	●	2	
332-W32-09	3	32	32	110	35	8.3	●	1	
332-32-09-L210	3	32	32	210	35	8.3	●	2	
532-W32-09	5	32	32	110	35	8.3	●	1	
532-32-09-L130	5	32	32	130	35	8.3	●	2	
440-W32-09	4	40	32	115	30	8.3	●	1	
440-32-09-L150	4	40	32	150	30	8.3	●	2	
640-W32-09	6	40	32	115	30	8.3	●	1	

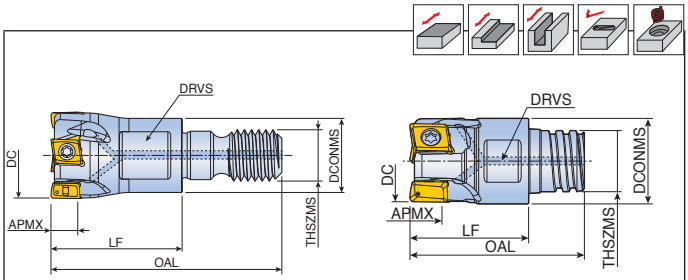
Cutting Condition E271-E273
Ramping Data E288

4T-TE90-M(S)-05/09

TANGSFEED

Modular heads

90°



Designation		Dimension (mm)							Coolant hole	Fig.	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX	DRVS			
4T-TE90-210-M06-05	2	10	9.7	17	31.5	M06	4.6	8	●	1	LPK(H)U 0502... E238
312-M06-05	3	12	11	17	31.5	M06	4.6	8	●	1	
416-M08-05	4	16	13	23	40.5	M08	4.6	10	●	1	
520-M10-05	5	20	18	23	43	M10	4.6	15	●	1	
625-M12-05	6	25	21	27	49	M12	4.6	17	●	1	
832-M16-05	8	32	29	27	52	M16	4.6	25	●	1	
4T-TE90-210-S06-05	2	10	9.6	15	21.3	S06	4.6	8	●	2	
312-S08-05	3	12	11.5	16	23.5	S08	4.6	10	●	2	
416-S10-05	4	16	15.2	20	31.3	S10	4.6	13	●	2	
4T-TE90-220-M10-09	2	20	18	30	50	M10	8.3	15	●	1	LPK(H)U 0904... E238
320-M10-09	3	20	18	30	50	M10	8.3	15	●	1	
425-M12-09	4	25	21	35	57	M12	8.3	17	●	1	
532-M16-09	5	32	29	43	68	M16	8.3	25	●	1	
640-M16-09	6	40	29	43	68	M16	8.3	25	●	1	

• Matched with T-FLEXTEC holder(Fig.1) & MAXI-RUSH holder(Fig.2)

Spare parts

Designation	Screw	Wrench		Wrench handle	
4T-TE90-05 (Ø10,Ø11)	TS 18041I/SG-P	TD 6P	-	-	
4T-TE90-05 (Ø12-Ø40)	TS 18049/HG-P	TD 6P	-	-	
4T-TE90-09	TS 30D082-P	-	TBLD T08P-W4	THND 4W	

Cutting Condition E271-E273
Ramping Data E288

ADVANCE CUTTING TaeguTec

3P-TE90-04

MILLRUSH

End mills

90°

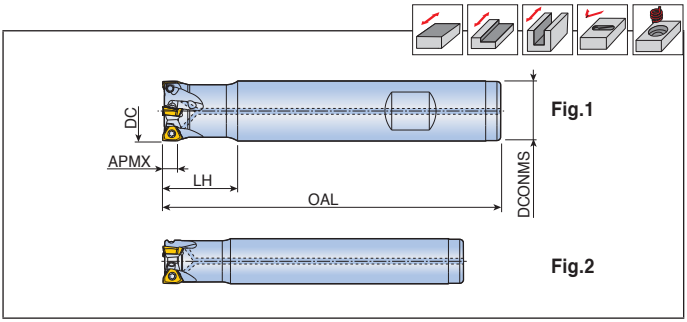


Fig.1

Fig.2

Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LH	APMX			
3P-TE90-108-08-04	1	8	8	80	17	3.5	●	2	3PKT 0402...
210-10-04	2	10	10	80	17	3.5	●	2	E216
210-09-04-L	2	10	9	120	10	3.5	●	2	
211-10-04	2	11	10	80	11	3.5	●	2	
212-11-04-L	2	12	11	120	11	3.5	●	2	
212-12-04	2	12	12	80	18	3.5	●	2	
212-12-04-L	2	12	12	120	18	3.5	●	2	
312-12-04	3	12	12	80	18	3.5	●	2	
313-12-04	3	13	12	90	11	3.5	●	2	
314-12-04	3	14	12	90	12	3.5	●	2	
316-16-04	3	16	16	110	20	3.5	●	2	
416-W16-04	4	16	16	90	20	3.5	●	1	

Cutting Condition E271-E273

Ramping Data E290

3P-TE90-M(S)-04

MILLRUSH

Modular heads

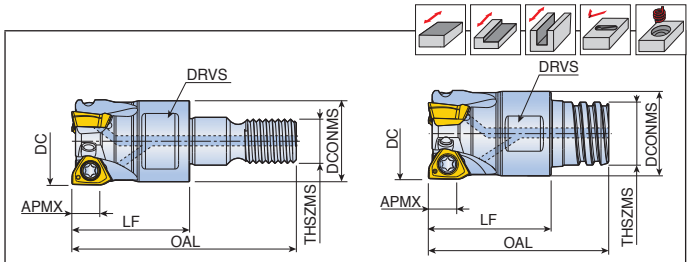


Fig.1 Fig.2

90°

Designation		Dimension (mm)							Coolant hole	Fig.	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX	DRVS			
3P-TE90-210-M06-04	2	10	9.7	17	31.5	M06	3.5	8	●	1	3PKT 0402...
312-M06-04	3	12	11	17	31.5	M06	3.5	8	●	1	E216
416-M08-04	4	16	13	23	40.5	M08	3.5	10	●	1	
3P-TE90-210-S06-04	2	10	9.6	15	21.3	S06	3.5	8	●	2	
312-S08-04	3	12	11.5	16	23.5	S08	3.5	10	●	2	
416-S10-04	4	16	15.2	20	31.3	S10	3.5	13	●	2	

• Matched with T-FLEXTEC holder(Fig.1) & MAXI-RUSH holder(Fig.2)

Spare parts

Designation	Screw	Wrench			
					
3P-TE90-04 (ø8)	TS 18033/HG-P	TD 6P			
3P-TE90-04 (ø10-)	TS 18041I/HG	TD 6P			

Cutting Condition E271-E273
Ramping Data E290

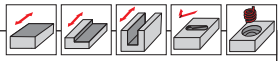
ADVANCE CUTTING TaeguTec

3P TE90-06

MILLRUSH

End mills

90°



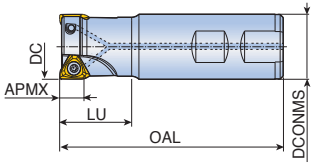


Fig.1

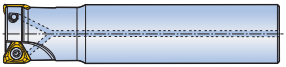


Fig.2

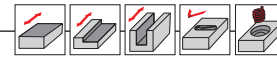
Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LU	APMX			
3P TE90-112-12-06-L80	1	12	12	80	20	4.7	●	2	3PK(H)T 0603...
114-12-06-L80	1	14	12	80	20	4.7	●	2	E216
216-W16-06	2	16	16	90	25	4.7	●	1	
216-16-06-L110	2	16	16	110	25	4.7	●	2	
216-16-06-L150	2	16	16	150	25	4.7	●	2	
317-16-06-L110	3	17	16	110	25	4.7	●	2	
318-W16-06	3	18	16	90	25	4.7	●	1	
318-16-06-L150	3	18	16	150	25	4.7	●	2	
319-16-06-L150	3	19	16	150	25	4.7	●	2	
320-W20-06	3	20	20	105	25	4.7	●	1	
420-W20-06	4	20	20	105	25	4.7	●	1	
320-20-06-L160	3	20	20	160	25	4.7	●	2	
420-19-06-L160	4	20	19	160	25	4.7	●	2	
421-20-06-L160	4	21	20	160	25	4.7	●	2	
422-W20-06	4	22	20	110	25	4.7	●	1	
425-W20-06	4	25	20	115	25	4.7	●	1	
525-W20-06	5	25	20	115	25	4.7	●	1	
525-W25-06	5	25	25	115	25	4.7	●	1	
630-W25-06	6	30	25	130	30	4.7	●	1	
632-W25-06	6	32	25	130	30	4.7	●	1	
732-W25-06	7	32	25	130	30	4.7	●	1	
840-W32-06	8	40	32	130	30	4.7	●	1	

Cutting Condition E271-E273

Ramping Data E291

3P TE90-10

End mills



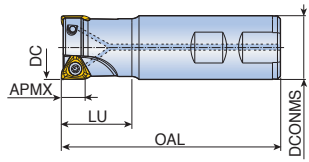


Fig.1

Fig.2

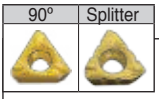
Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LU	APMX			
3P TE90-116-W16-10	1	16	16	90	20	7.0	●	1	3PK(H)T 1004...
220-W20-10	2	20	20	90	25	7.0	●	1	E216
220-19-10-L170	2	20	19	170	30	7.0	x	2	
220-20-10-L170	2	20	20	170	40	7.0	x	2	
221-20-10-L200	2	21	20	200	30	7.0	x	2	
222-W20-10	2	22	20	100	25	7.0	●	1	
225-25-10-L210	2	25	25	210	40	7.0	x	2	
325-W20-10	3	25	20	100	30	7.0	●	1	
325-W25-10	3	25	25	100	30	7.0	●	1	
325-24-10-L210	3	25	24	210	35	7.0	x	2	
325-25-10-L210	3	25	25	210	40	7.0	x	2	
226-25-10-L250	2	26	25	250	30	7.0	x	2	
330-W25-10	3	30	25	110	35	7.0	●	1	
232-W25-10	2	32	25	110	35	7.0	●	1	
332-W25-10	3	32	25	110	35	7.0	●	1	
332-32-10-L250	3	32	32	250	60	7.0	x	2	
432-W32-10	4	32	32	110	40	7.0	●	1	
532-W32-10	5	32	32	110	40	7.0	●	1	
333-32-10-L250	3	33	32	250	35	7.0	x	2	
440-32-10-L200	4	40	32	200	40	7.0	x	2	
540-W32-10	5	40	32	115	40	7.0	●	1	
640-W32-10	6	40	32	115	40	7.0	●	1	

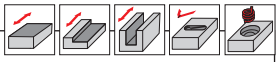
Cutting Condition E271-E273
Ramping Data E291

3P TE90-15/19

MILLRUSH

End mills





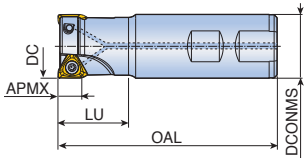


Fig.1

Fig.2

Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LU	APMX			
3P TE90-	**232-W32-15**	32	32	110	40	11.0	●	1	3PK(H)T 1505...
	232-32-15-L250	32	32	250	60	11.0	x	2	E216-E217
	332-W25-15	32	25	100	40	11.0	●	1	
	332-W25-15-L155	32	25	155	35	11.0	x	2	
	332-W32-15	32	32	110	40	11.0	●	1	
	332-32-15-L150	32	32	150	40	11.0	x	2	
	332-32-15-L250	32	32	250	60	11.0	x	2	
	233-32-15-L200	33	32	200	40	11.0	x	2	
	233-32-15-L250	33	32	250	40	11.0	x	2	
	335-W32-15	35	32	110	40	11.0	●	1	
	340-W32-15	40	32	110	40	11.0	●	1	
	340-32-15-L200	40	32	200	40	11.0	x	2	
	440-W32-15	40	32	110	40	11.0	●	1	
3P TE90-	**240-32-19-L250**	40	32	250	45	15.0	x	2	3PK(H)T 1906...
	340-W32-19	40	32	115	45	15.0	●	1	E216-E217
	340-32-19-L200	40	32	200	45	15.0	x	2	
	450-W32-19	50	32	115	45	15.0	●	1	

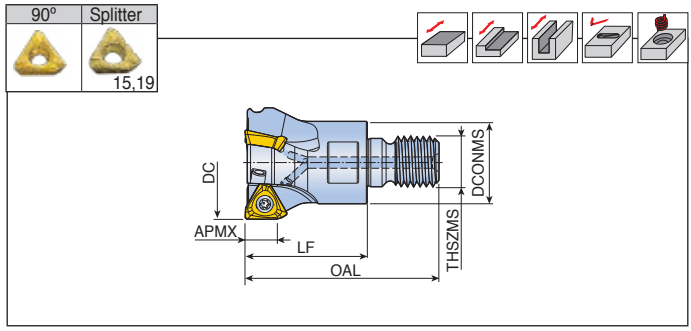
Cutting Condition E271-E273

Ramping Data E292

3P TE90-M-06/10/15/19

MILLRUSH

Modular heads



Designation		Dimension (mm)						Coolant hole	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX		
3P TE90-216-M08-06	2	16	13	23	40.5	M08	4.7	•	3PK(H)T 0603...
320-M10-06	3	20	18	35	55	M10	4.7	•	E216
420-M10-06	4	20	18	35	55	M10	4.7	•	
425-M12-06	4	25	21	35	57	M12	4.7	•	
525-M12-06	5	25	21	35	57	M12	4.7	•	
632-M16-06	6	32	29	43	68	M16	4.7	•	
732-M16-06	7	32	29	43	68	M16	4.7	•	
735-M16-06	7	35	29	43	68	M16	4.7	•	
3P TE90-220-M10-10	2	20	18	35	55	M10	7.0	•	3PK(H)T 1004...
325-M12-10	3	25	21	35	57	M12	7.0	•	E216
326-M12-10	3	26	21	35	57	M12	7.0	•	
432-M16-10	4	32	29	43	68	M16	7.0	•	
532-M16-10	5	32	29	43	68	M16	7.0	•	
535-M16-10	5	35	29	43	68	M16	7.0	•	
540-M16-10	5	40	29	43	68	M16	7.0	•	
640-M16-10	6	40	29	43	68	M16	7.0	•	
642-M16-10	6	42	29	43	68	M16	7.0	•	
3P TE90-232-M16-15	2	32	29	43	68	M16	11.0	•	3PK(H)T 1505...
332-M16-15	3	32	29	43	68	M16	11.0	•	E216-E217
340-M16-15	3	40	29	43	68	M16	11.0	•	
440-M16-15	4	40	29	43	68	M16	11.0	•	
3P TE90-340-M16-19	3	40	29	43	68	M16	15.0	•	3PK(H)T 1906...
									E216-E217

• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench			
					
3P TE90-06	TS 20043I/HG-P	TD 6P	-		
3P TE90-10	TS 25C065I/HG	TD 8	-		
3P TE90-15	TS 40B100I	TD 15	-		
3P TE90-19	TS 45120I	-	T-T20		

Cutting Condition E271-E273
Ramping Data E291-E292

ADVANCE CUTTING TaeguTec

6N TE90-04/06/09

MILL2RUSH

End Mills

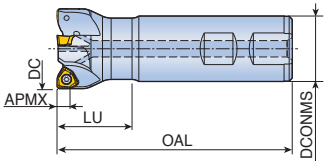


Fig.1

Fig.2

90°

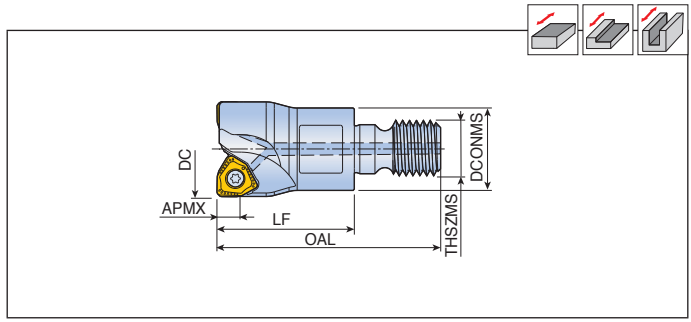
Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LU	APMX			
6N TE90-320-W20-04	3	20	20	90	30	4.1	●	1	6NKU 0403... E222
320-20-04-L160	3	20	20	160	30	4.1	●	2	
425-25-04-L170	4	25	25	170	30	4.1	●	2	
525-W25-04	5	25	25	100	35	4.1	●	1	
532-32-04-L200	5	32	32	200	40	4.1	●	2	
632-W32-04	6	32	32	110	40	4.1	●	1	
6N TE90-225-W25-06	2	25	25	100	30	6.2	●	1	6NGU 0604... E221
225-25-06 -L150	2	25	25	150	30	6.2	●	2	
232-W32-06	2	32	32	110	40	6.2	●	1	
232-32-06 -L160	2	32	32	160	40	6.2	●	2	
332-W32-06	3	32	32	110	40	6.2	●	1	
332-32-06 -L160	3	32	32	160	40	6.2	●	2	
340-W32-06	3	40	32	115	40	6.2	●	1	
340-32-06-L200	3	40	32	200	40	6.2	●	2	
440-W32-06	4	40	32	115	40	6.2	●	1	
6N TE90-232-W32-09	2	32	32	110	40	9.2	●	1	6NGU 0905... E221
232-32-09-L160	2	32	32	160	60	9.2	●	2	
340-W32-09	3	40	32	120	40	9.2	●	1	
340-32-09-L200	3	40	32	200	40	9.2	●	2	
440-W32-09	4	40	32	120	40	9.2	●	1	

Cutting Condition E271-E273

6N TE90-...-M...-04/06/09

MILL2RUSH

Modular heads



90°

Designation		Dimension (mm)						Coolant hole	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX		
6N TE90-320-M10-04	3	20	18	35	55	M10	4.1	•	6NKU 0403... E222
525-M12-04	5	25	21	35	57	M12	4.1	•	
632-M16-04	6	32	29	43	68	M16	4.1	•	
6N TE90-225-M12-06	2	25	21	35	57	M12	6.2	•	6NGU 0604... E221
332-M16-06	3	32	29	43	68	M16	6.2	•	
440-M16-06	4	40	29	43	68	M16	6.2	•	
6N TE90-232-M16-09	2	32	29	43	68	M16	9.2	•	6NGU 0905... E221
340-M16-09	3	40	29	43	68	M16	9.2	•	
440-M16-09	4	40	29	43	68	M16	9.2	•	

• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench			
					
6N TE90-04	TS 25064I	TD 8			
6N TE90-06	TS 30085I/HG	TD 9			
6N TE90-09	TS 40B100I	TD15			

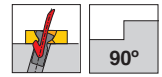
Cutting Condition E271-E273

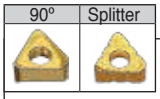
ADVANCE CUTTING TaeguTec

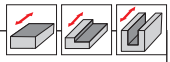
SCRM90TN-18/SCRM90TN-M-18

MILL2RUSH

End Mills & Modular heads







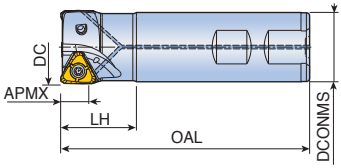


Fig.1

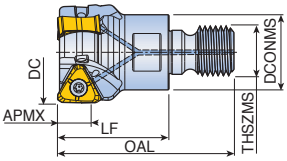


Fig.2

Designation		Dimension (mm)							Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LH	LF	THSZMS	APMX			
SCRM90TN 235-W32-18	2	35	32	115	35	-	-	13.0	●	1	TNMX 1806...
340-W32-18	3	40	32	115	35	-	-	13.0	●	1	E261
SCRM90TN 235-M16-18	2	35	29	68	-	43	M16	13.0	●	2	
340-M16-18	3	40	29	68	-	43	M16	13.0	●	2	

• Matched with T-FLEXTEC holder

Spare parts

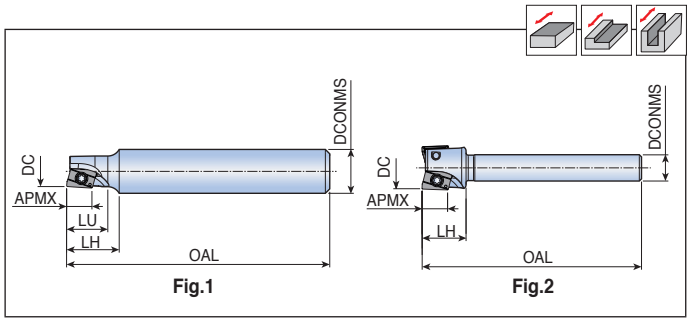
Designation	Screw	Wrench			
					
SCRM90TN-18	TS 40B100I	T-T15			

Cutting Condition
E271-E273

MTE90AX-06-L

CHASEMILL

End mills



90°

Designation		Dimension (mm)						Fig.	Insert
		DC	DCONMS	OAL	LU	LH	APMX		
MTE90AX 108-10-06-L60	1	8	10	60	9	12	5.5	1	AXCT 06-L... E230
210-05-06-L40	2	10	5	40	-	10	5.5	2	
210-06-06-L50	2	10	6	50	-	10	5.5	2	
210-07-06-L50	2	10	7	50	-	10	5.5	2	
210-10-06-L50	2	10	10	50	10	12	5.5	1	
212-10-06-L50	2	12	10	50	-	10	5.5	2	
214-10-06-L50	2	14	10	50	-	10	5.5	2	
315-05-06-L40	3	15	5	40	-	10	5.5	2	
316-07-06-L50	3	16	7	50	-	10	5.5	2	
316-10-06-L50	3	16	10	50	-	10	5.5	2	
320-07-06-L50	3	20	7	50	-	10	5.5	2	
320-10-06-L50	3	20	10	50	-	10	5.5	2	
530-10-06-L50	5	30	10	50	-	10	5.5	2	

Spare parts

Designation	Screw	Wrench			
MTE90AX-06-L	TS 18041I/HG	TD 6P			

Cutting Condition E271-E273

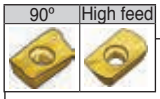
ADVANCE CUTTING TaeguTec

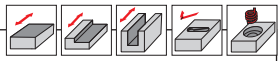
TE90AX-06

CHASEMILL

End mills

90°





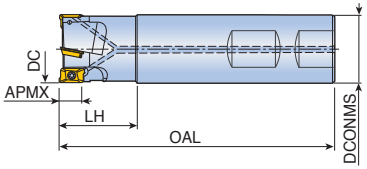


Fig.1

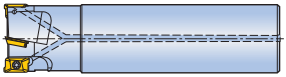


Fig.2

Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LH	APMX			
TE90AX 108-08-06-C	1	8	8	80	17	5.5	●	2	AXM(C)T 0602 ...
210-09-06-L120	2	10	9	120	17	5.5	x	2	E230-E231
210-10-06-C	2	10	10	80	17	5.5	●	2	
211-10-06	2	11	10	80	17	5.5	x	2	
212-12-06-C	2	12	12	80	18	5.5	●	2	
212-12-06-L	2	12	12	130	18	5.5	x	2	
212-11-06-L120	2	12	11	120	20	5.5	x	2	
312-12-06-C	3	12	12	80	18	5.5	●	2	
313-12-06-C	3	13	12	90	20	5.5	●	2	
314-12-06	3	14	12	80	18	5.5	x	2	
415-12-06	4	15	12	80	18	5.5	x	2	
316-16-06-C	3	16	16	110	20	5.5	●	2	
316-16-06-L	3	16	16	150	20	5.5	x	2	
416-W16-06-C	4	16	16	90	20	5.5	●	1	
417-16-06	4	17	16	90	20	5.5	x	2	
418-W16-06-C	4	18	16	90	20	5.5	●	1	
418-16-06-L	4	18	16	150	20	5.5	x	2	
419-W16-06	4	19	16	90	20	5.5	x	1	
420-20-06	4	20	20	160	25	5.5	x	2	
420-W20-06-C	4	20	20	160	25	5.5	●	1	
520-19-06-L	5	20	19	160	25	5.5	x	1	
520-W20-06-C	5	20	20	105	25	5.5	●	1	
521-20-06	5	21	20	105	25	5.5	x	2	
725-W20-06-C	7	25	20	115	25	5.5	●	1	
725-W25-06	7	25	25	120	30	5.5	x	1	
832-W25-06-C	8	32	25	130	32	5.5	●	1	
1040-W32-06-C	10	40	32	140	40	5.5	●	1	

Cutting Condition E271-E273
Ramping Data E314,E318

TE90AX-M(S)-06

CHASEMILL

Modular heads

90°

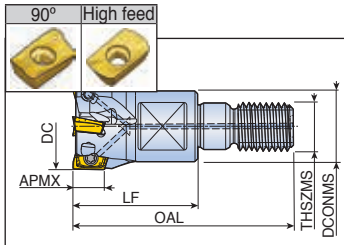


Fig.1

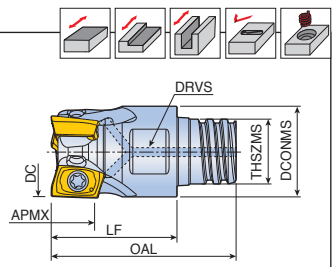


Fig.2

Designation		Dimension (mm)							Coolant hole	Fig.	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX	DRVS			
TE90AX 210-M06-06	2	10	9.7	17	31.5	M06	5.5	8	●	1	AXM(C)T 0602...
312-M06-06	3	12	11	17	31.5	M06	5.5	8	●	1	E230-E231
416-M08-06	4	16	13	23	40.5	M08	5.5	10	●	1	
520-M10-06	5	20	18	23	43	M10	5.5	15	●	1	
725-M12-06	7	25	21	27	49	M12	5.5	17	●	1	
832-M16-06	8	32	29	27	52	M16	5.5	25	●	1	
1040-M16-06	10	40	29	27	52	M16	5.5	25	●	1	
TE90AX 210-S06-06	2	10	9.6	15	21.3	S06	5.5	8	●	2	
312-S08-06	3	12	11.5	16	23.5	S08	5.5	10	●	2	
416-S10-06	4	16	15.2	20	31.3	S10	5.5	13	●	2	

- Matched with T-FLEXTEC holder(Fig.1) & MAXI-RUSH holder(Fig.2)
- Cutter body for 'AXMT 06' insert with corner radius more than 1.0mm should be modified accordingly body "RE"=Insert "RE"-0.1mm

Spare parts

Designation	Screw	Wrench			
					
TE90AX-06	TS 18041I/HG	TD 6P			

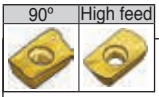
Cutting Condition E271-E273
Ramping Data E314,E318

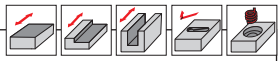
2S-TE90AP-09

CHASEMILL

End mills

90°





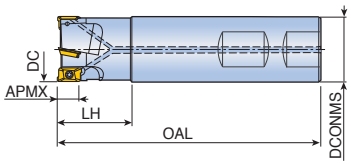


Fig.1

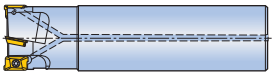


Fig.2

Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LH	APMX			
2S-TE90AP 110-W10-09-C	1	10	10	80	25	8.8	●	1	APK(C)T 09T3...
112-W12-09	1	12	12	80	25	8.8	x	1	E225,E230
112-W16-09-C	1	12	16	80	26	8.8	●	1	
114-W12-09	1	14	12	80	25	8.8	x	1	
216-15-09-L	2	16	15	170	30	8.8	x	2	
216-W16-09-C	2	16	16	90	25	8.8	●	1	
216-16-09-L	2	16	16	145	30	8.8	x	2	
217-16-09-L	2	17	16	180	25	8.8	x	2	
218-W16-09-C	2	18	16	90	25	8.8	●	1	
220-19-09-L	2	20	19	170	25	8.8	x	2	
220-20-09-L	2	20	20	170	40	8.8	x	2	
320-W20-09-C	3	20	20	110	30	8.8	●	1	
221-20-09-L	2	21	20	200	25	8.8	x	2	
322-W20-09-C	3	22	20	110	30	8.8	●	1	
225-24-09-L	2	25	24	210	28	8.8	x	2	
225-25-09-L	2	25	25	210	40	8.8	x	2	
325-W20-09-C	3	25	20	110	30	8.8	●	1	
325-W25-09	3	25	25	110	30	8.8	x	1	
425-W20-09-C	4	25	20	110	30	8.8	●	1	
226-25-09-L	2	26	25	250	40	8.8	x	2	
430-W25-09-C	4	30	25	130	32	8.8	●	1	
232-32-09-L	2	32	32	250	65	8.8	x	2	
432-W25-09-C	4	32	25	130	32	8.8	●	1	
532-W25-09-C	5	32	25	130	32	8.8	●	1	
333-32-09-L	3	33	32	250	40	8.8	x	2	
240-32-09-L	2	40	32	250	32	8.8	x	2	
540-W32-09-C	5	40	32	130	32	8.8	●	1	
640-W32-09	6	40	32	130	32	8.8	x	1	

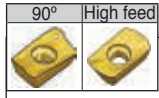
Cutting Condition E271-E273
Ramping Data E315,E319

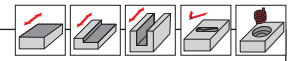
2S-TE90AP-M-09

CHASEMILL

Modular heads

90°





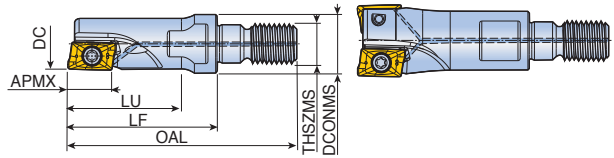


Fig.1 Fig.2

Designation		Dimension (mm)							Coolant hole	Fig.	Insert
		DC	DCONMS	LF	OAL	LU	THSZMS	APMX			
2S-TE90AP 110-M06-09	1	10	9.7	33	47.5	19	M06	8.8	●	1	APK(C)T 09T3...
112-M08-09	1	12	13	33	50.5	25	M08	8.8	●	1	E225,E230
216-M08-09	2	16	13	38	50.5	-	M08	8.8	●	2	
320-M10-09	3	20	18	38	58	-	M10	8.8	●	2	
325-M12-09	3	25	21	38	60	-	M12	8.8	●	2	
425-M12-09	4	25	21	38	60	-	M12	8.8	●	2	
432-M16-09	4	32	29	38	63	-	M16	8.8	●	2	
532-M16-09	5	32	29	38	63	-	M16	8.8	●	2	
540-M16-09	5	40	29	43	68	-	M16	8.8	●	2	
640-M16-09	6	40	29	43	68	-	M16	8.8	●	2	

- Matched with T-FLEXTEC holder
- Cutter body for 'APKT09' insert with corner radius more than 2.4mm should be modified accordingly body “RE”=Insert “RE”-0.2mm

Spare parts

Designation	Screw	Wrench			
2S-TE90AP-09	TS 25055I/HG	TD 8			

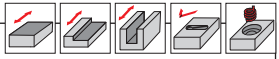
Cutting Condition E271-E273
Ramping Data E315,E319

TE90AP-12

CHASEMILL

End mills

90°



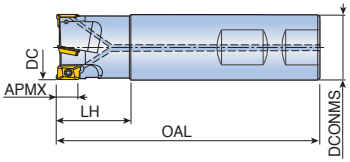


Fig.1

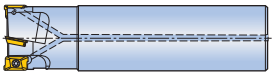


Fig.2

Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LH	APMX			
TE90AP 116-W16-12-C	1	16	16	85	26	12.0	●	1	APK(C)T 1204....
218-W20-12-C	2	18	20	85	26	12.0	●	1	E226,E230
220-19-12-L	2	20	19	170	30	12.0	●	2	
220-W20-12-C	2	20	20	90	30	12.0	●	1	
220-W20-12-L-C	2	20	20	125	30	12.0	●	1	
220-20-12-L	2	20	20	170	30	12.0	●	2	
220-20-12-L200	2	20	20	200	30	12.0	●	2	
221-20-12-L200	2	21	20	200	30	12.0	●	2	
221-20-12-L250	2	21	20	250	30	12.0	●	2	
225-24-12-L	2	25	24	200	40	12.0	●	2	
225-W25-12-L-C	2	25	25	145	40	12.0	●	1	
225-25-12-L	2	25	25	210	40	12.0	●	2	
225-25-12-L200	2	25	25	200	40	12.0	●	2	
325-W25-12-C	3	25	25	100	40	12.0	●	1	
226-25-12-L200	2	26	25	200	40	12.0	●	2	
226-25-12-L250	2	26	25	250	40	12.0	●	2	
232-25-12-L	2	32	25	250	40	12.0	●	2	
332-W25-12-L-C	3	32	25	155	35	12.0	●	1	
332-W32-12-C	3	32	32	110	40	12.0	●	1	
332-32-12-L	3	32	32	250	40	12.0	●	2	
332-32-12-L150	3	32	32	150	40	12.0	●	2	
432-W25-12-C	4	32	25	100	40	12.0	●	1	
233-32-12-L200	2	33	32	200	40	12.0	●	2	
233-32-12-L250	2	33	32	250	40	12.0	●	2	
333-32-12-L200	3	33	32	200	40	12.0	●	2	
333-32-12-L250	3	33	32	250	40	12.0	●	2	
435-W25-12	4	35	25	100	40	12.0	●	1	
440-W32-12-C	4	40	32	115	45	12.0	●	1	
440-32-12-L	4	40	32	250	40	12.0	●	2	
540-W32-12-C	5	40	32	115	45	12.0	●	1	

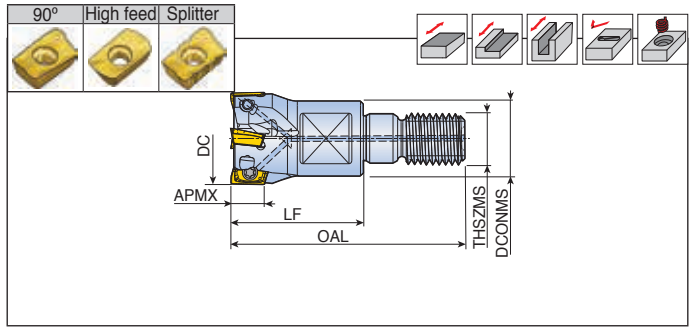
Cutting Condition E271-E273
Ramping Data E316,E320

TE90AP-M-12

CHASEMILL

Modular heads

90°



Designation		Dimension (mm)						Coolant hole	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX		
TE90AP 116-M08-12	1	16	13	35	52.5	M08	12.0	●	APK(C)T 1204...
220-M10-12	2	20	18	35	55	M10	12.0	●	E226,E230
325-M12-12	3	25	21	35	57	M12	12.0	●	
432-M16-12	4	32	29	43	68	M16	12.0	●	
540-M16-12	5	40	29	43	68	M16	12.0	●	
542-M16-12	5	42	29	43	68	M16	12.0	●	

- Matched with T-FLEXTEC holder
- Cutter body for 'APKT 12' insert with corner radius more than 1.6mm should be modified accordingly body "RE"=Insert "RE"-0.5mm

Spare parts

Designation	Screw	Wrench			
TE90AP-12 (Ø16-Ø26)	TS 35A070I/HG	TD 10P			
TE90AP-12 (Ø32-)	TS 35A088I/HG	TD 10P			

Cutting Condition E271-E273
Ramping Data E316,E320

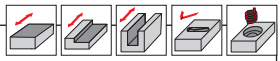
ADVANCE CUTTING TaeguTec

TE90AP-17

CHASEMILL

End mills

90°



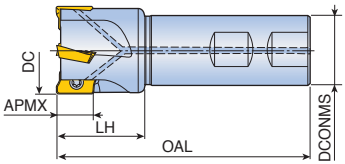


Fig.1

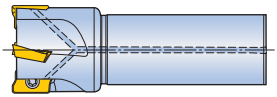


Fig.2

Designation			Dimension (mm)					Coolant hole	Fig.	Insert
			DC	DCONMS	OAL	LH	APMX			
TE90AP	**120-W20-17-C**	1	20	20	90	32	16.1	●	1	APK(C)T 1705...
	225-24-17-L	2	25	24	210	40	16.1	x	2	E227-E228
	225-W25-17-C	2	25	25	100	39	16.1	●	1	
	225-25-17-L	2	25	25	210	40	16.1	x	2	
	226-25-17-L200	2	26	25	200	40	16.1	●	2	
	226-25-17-L250	2	26	25	250	40	16.1	●	2	
	232-32-17-L	2	32	32	250	65	16.1	x	2	
	233-32-17-L250	2	33	32	250	40	16.1	●	2	
	233-32-17-L300	2	33	32	300	40	16.1	●	2	
	332-W32-17-C	3	32	32	110	40	16.1	●	1	
	332-32-17-L	3	32	32	200	65	16.1	x	2	
	333-32-17-L200	3	33	32	200	55	16.1	●	2	
	333-32-17-L250	3	33	32	250	55	16.1	●	2	
	240-32-17-L	2	40	32	250	57	16.1	x	2	
	340-W32-17	3	40	32	110	40	16.1	x	1	
	340-32-17-L	3	40	32	200	54	16.1	x	2	
	440-W32-17-C	4	40	32	115	45	16.1	●	1	
	440-32-17-L	4	40	32	200	57	16.1	x	2	

Cutting Condition E271-E273
Ramping Data E317

TaeguTec

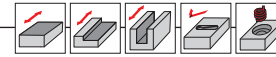
TE90AP-M-17

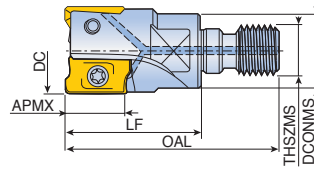
CHASEMILL

Modular heads

90°

90°	Splitter
	





Designation		Dimension (mm)						Coolant hole	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX		
TE90AP 120-M10-17	1	20	18	43	63	M10	16.1	●	APK(C)T 1705...
225-M12-17	2	25	21	43	65	M12	16.1	●	E227-E228
232-M16-17	2	32	29	43	68	M16	16.1	●	
332-M16-17	3	32	29	43	68	M16	16.1	●	
340-M16-17	3	40	29	43	68	M16	16.1	●	
440-M16-17	4	40	29	43	68	M16	16.1	●	

- Matched with T-FLEXTEC holder
- Cutter body for 'APKT 17' insert with corner radius more than 1.6mm should be modified accordingly body "RE"=Insert "RE"-0.8mm

Spare parts

Designation	Screw	Wrench			
					
TE90AP-17 (Ø20-Ø25)	TS 40085I/HG	TD 15			
TE90AP-17 (Ø26-Ø63)	TS 40093I/HG	TD 15			

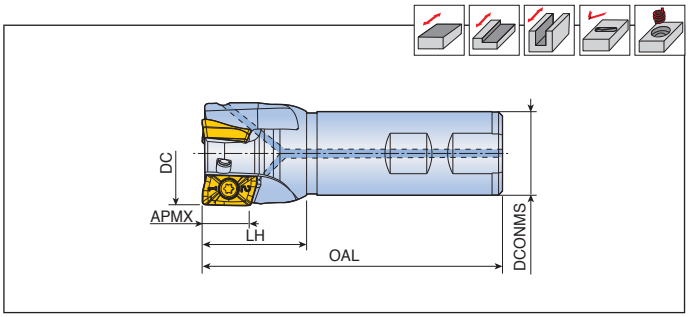
Cutting Condition E271-E273
Ramping Data E317

ADVANCE CUTTING TaeguTec

2S-TE90AP-19

CHASEMILL

End mills



90°

Designation		Dimension (mm)					Coolant hole	Insert
		DC	DCONMS	OAL	LH	APMX		
2S-TE90AP 340-W32-19	3	40	32	115	40	17.9	●	APKT 1907... E229

Spare parts

Designation	Screw	Wrench			
2S-TE90AP-19	TS 50115I	TD 20			

Cutting Condition E271-E273

Ramping Data E317

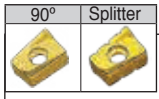
TaeguTec

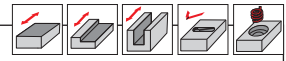
TE90AN-11/16

CHASE2MILL

End mills

90°





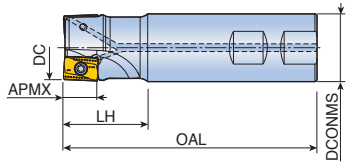


Fig.1

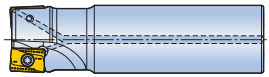


Fig.2

Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LH	APMX			
TE90AN 225-24-11-L	2	25	24	200	40	11.0	●	2	ANM(H)X 1106...
225-W25-11	2	25	25	100	40	11.0	●	1	E224
225-25-11-L	2	25	25	200	40	11.0	●	2	
226-25-11-L	2	26	25	200	40	11.0	●	2	
332-W32-11	3	32	32	110	40	11.0	●	1	
332-32-11-L	3	32	32	200	40	11.0	●	2	
233-32-11-L	2	33	32	250	40	11.0	●	2	
333-32-11-L	3	33	32	200	40	11.0	●	2	
340-32-11-L	3	40	32	250	40	11.0	●	2	
440-W32-11	4	40	32	115	40	11.0	●	1	
440-32-11-L	4	40	32	200	40	11.0	●	2	
TE90AN 232-W32-16	2	32	32	110	30	15.0	●	1	ANM(H)X 1607...
232-32-16	2	32	32	150	45	15.0	●	2	E224
232-32-16-L250	2	32	32	250	40	15.0	●	2	
233-32-16-L200	2	33	32	200	55	15.0	●	2	
340-W32-16	3	40	32	115	35	15.0	●	1	
340-32-16	3	40	32	150	45	15.0	●	2	
340-32-16-L250	3	40	32	250	45	15.0	●	2	
450-32-16	4	50	32	150	50	15.0	●	2	

Cutting Condition E271-E273
Ramping Data E321

ADVANCE CUTTING TaeguTec

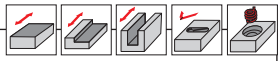
TE90AN-M-11/16

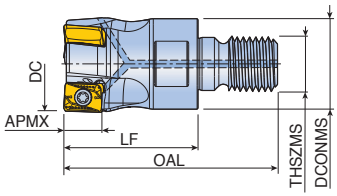
CHASE2MILL

Modular heads

90°

90°	Splitter
	





Designation		Dimension (mm)						Coolant hole	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX		
TE90AN 225-M12-11	2	25	21	35	57	M12	11.0	●	ANM(H)X 1106... E224
332-M16-11	3	32	29	43	68	M16	11.0	●	
440-M16-11	4	40	29	43	68	M16	11.0	●	
TE90AN 232-M16-16	2	32	29	43	68	M16	15.0	●	ANM(H)X 1607... E224
340-M16-16	3	40	29	43	68	M16	15.0	●	

• Matched with T-FLEXTEC holder

Spare parts

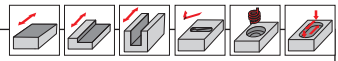
Designation	Screw	Wrench			
					
TE90AN-11	TS 35A088I/HG	TD 10P			
TE90AN-16	TS 40120I	TD 15			

Cutting Condition E271-E273
Ramping Data E321

4N TE90-04

End mills

90°



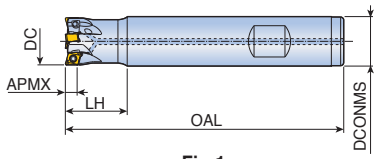


Fig.1

Fig.2

Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LH	APMX			
4N TE90-108-08-04	1	8	8	80	17	3.5	●	2	4NKT 0402...
210-10-04	2	10	10	80	17	3.5	●	2	E218-E219
211-10-04	2	11	10	80	17	3.5	●	2	
212-12-04	2	12	12	80	18	3.5	●	2	
312-12-04	3	12	12	80	18	3.5	●	2	
313-12-04	3	13	12	90	20	3.5	●	2	
316-16-04	3	16	16	90	20	3.5	●	2	
416-W16-04	4	16	16	90	20	3.5	●	1	
420-20-04-L	4	20	20	160	25	3.5	●	2	
520-W20-04	5	20	20	105	25	3.5	●	1	
725-W25-04	7	25	25	120	30	3.5	●	1	
832-W25-04	8	32	25	130	35	3.5	●	1	
1040-W32-04	10	40	32	140	40	3.5	●	1	

Cutting Condition E271-E273
Ramping Data E293-E313

• Cutter body for '4NKT 040212R-HF' insert should be modified with body corner radius 1.2 mm

4N TE90-M(S)-04

CHASE4MILL

Modular heads

90°

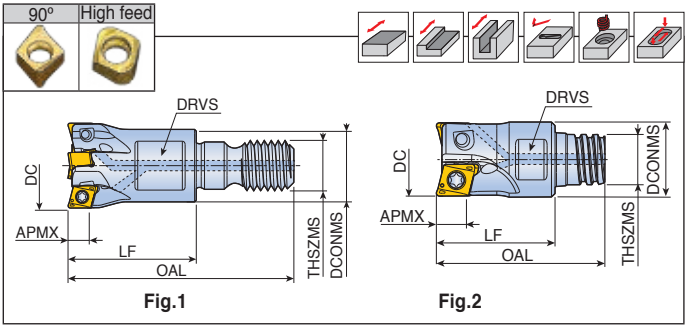


Fig.1 Fig.2

Designation		Dimension (mm)							Coolant hole	Fig.	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX	DRVS			
4N TE90-210-M06-04	2	10	9.7	17	31.5	M06	3.5	8	●	1	4NKT 0402...
211-M06-04	2	11	9.7	17	31.5	M06	3.5	8	●	1	E218-E219
312-M06-04	3	12	11	17	31.5	M06	3.5	8	●	1	
313-M06-04	3	13	11	17	31.5	M06	3.5	8	●	1	
416-M08-04	4	16	13	23	40.5	M08	3.5	10	●	1	
520-M10-04	5	20	18	23	43	M10	3.5	15	●	1	
725-M12-04	7	25	21	27	49	M12	3.5	17	●	1	
4N TE90-210-S06-04	2	10	9.6	15	21.3	S06	3.5	8	●	2	
312-S08-04	3	12	11.5	16	23.5	S08	3.5	10	●	2	
416-S10-04	4	16	15.2	20	31.3	S10	3.5	13	●	2	

- Cutter body for '4NKT 040212R-HF' insert should be modified with body corner radius 1.2 mm
- Matched with T-FLEXTEC holder(Fig.1) & MAXI-RUSH holder(Fig.2)

Spare parts

Designation	Screw	Wrench			
					
4N TE90-04	TS 18041I/HG	TD 6P			

Cutting Condition E271-E273
Ramping Data E293-E313

TaeguTec

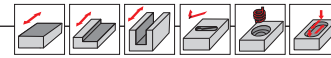
4N TE90-06

CHASE4MILL

End mills

90°

90°	High feed	Side wall



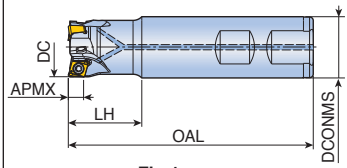


Fig.1

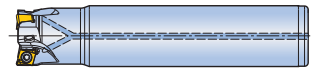


Fig.2

Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LH	APMX			
4N TE90-216-15-06-L150	2	16	15	150	25	6.0	●	2	4NK(H)T 0603.....
216-W16-06	2	16	16	90	25	6.0	●	1	E218-E219
216-16-06-L100	2	16	16	100	25	6.0	●	2	
216-16-06-L150	2	16	16	150	25	6.0	●	2	
217-16-06	2	17	16	90	25	6.0	●	2	
217-16-06-L200	2	17	16	200	25	6.0	●	2	
218-W16-06	2	18	16	90	25	6.0	●	1	
218-16-06-L150	2	18	16	150	25	6.0	●	2	
220-19-06-L160	2	20	19	160	25	6.0	●	2	
220-W20-06	2	20	20	90	25	6.0	●	1	
220-20-06-L110	2	20	20	110	25	6.0	●	2	
220-20-06-L160	2	20	20	160	25	6.0	●	2	
320-W20-06	3	20	20	90	25	6.0	●	1	
320-20-06-L110	3	20	20	110	25	6.0	●	2	
221-20-06-L200	2	21	20	200	25	6.0	●	2	
325-W25-06	3	25	25	100	30	6.0	●	1	
325-25-06-L120	3	25	25	120	30	6.0	●	2	
325-25-06-L200	3	25	25	200	30	6.0	●	2	
326-25-06-L200	3	26	25	200	30	6.0	●	2	
425-W25-06	4	25	25	100	30	6.0	●	1	
425-25-06-L120	4	25	25	120	30	6.0	●	2	
432-W32-06	4	32	32	110	35	6.0	●	1	
432-32-06-L130	4	32	32	130	35	6.0	●	2	
432-32-06-L210	4	32	32	210	35	6.0	●	2	
433-32-06-L220	4	33	32	220	35	6.0	●	2	
532-W32-06	5	32	32	110	35	6.0	●	1	
532-32-06-L130	5	32	32	130	35	6.0	●	2	
540-W32-06	5	40	32	110	40	6.0	●	1	
540-32-06-L150	5	40	32	150	40	6.0	●	2	
540-32-06-L250	5	40	32	250	40	6.0	●	2	
640-W32-06	6	40	32	110	35	6.0	●	1	
640-32-06-L150	6	40	32	150	35	6.0	●	2	

Cutting Condition E271-E273

Ramping Data E293-E313

- Cutter body for '4NKT 060320R-HF' and '4NHT 060320R-F' inserts should be modified with body corner radius 2.0 mm

ADVANCE CUTTING TaeguTec

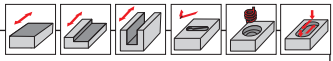
4N TE90-M-06

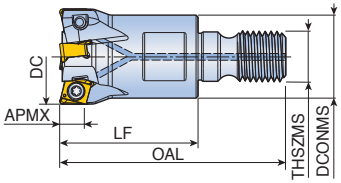
CHASE4MILL

Modular heads

90°

90°	High feed	Side wall
		





Designation		Dimension (mm)						Coolant hole	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX		
4N TE90-216-M08-06	2	16	13	23	40.5	M08	6.0	●	4NK(H)T 0603...
217-M08-06	2	17	13	23	40.5	M08	6.0	●	E218-E219
220-M10-06	2	20	18	35	55	M10	6.0	●	
320-M10-06	3	20	18	35	55	M10	6.0	●	
321-M10-06	3	21	18	35	55	M10	6.0	●	
325-M12-06	3	25	21	35	57	M12	6.0	●	
425-M12-06	4	25	21	35	57	M12	6.0	●	
426-M12-06	4	26	21	35	57	M12	6.0	●	
432-M16-06	4	32	29	43	68	M16	6.0	●	
532-M16-06	5	32	29	43	68	M16	6.0	●	
533-M16-06	5	33	29	43	68	M16	6.0	●	
535-M16-06	5	35	29	43	68	M16	6.0	●	
540-M16-06	5	40	29	43	68	M16	6.0	●	
640-M16-06	6	40	29	43	68	M16	6.0	●	

- Cutter body for '4NKT 060320R-HF' and '4NHT 060320R-F' inserts should be modified with body corner radius 2.0 mm
- Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench			
					
4N TE90-06	TS 30B068I/HG	TD 8			

Cutting Condition E271-E273
Ramping Data E293-E313

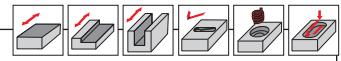
4N TE90-09/11/14

CHASE4MILL

End mills

90°

90°	High feed
	



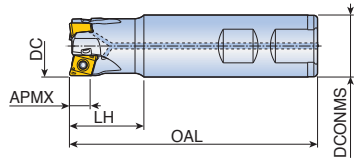


Fig.1

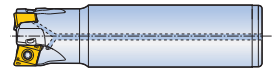


Fig.2

Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	OAL	LH	APMX			
4N TE90-220-W20-09	2	20	20	100	30	8.0	●	1	4NK(H)T 0904.. E218-E219
220-20-09-L170	2	20	20	170	30	8.0	●	2	
225-W25-09	2	25	25	100	30	8.0	●	1	
225-25-09-L200	2	25	25	200	40	8.0	●	2	
325-W25-09	3	25	25	100	30	8.0	●	1	
325-25-09-L210	3	25	25	210	30	8.0	●	2	
332-W32-09	3	32	32	110	40	8.0	●	1	
332-32-09-L250	3	32	32	250	40	8.0	●	2	
432-W25-09	4	32	25	130	35	8.0	●	1	
432-25-09-L200	4	32	25	200	40	8.0	●	2	
432-W32-09	4	32	32	110	40	8.0	●	1	
440-W32-09	4	40	32	115	40	8.0	●	1	
440-32-09-L250	4	40	32	250	40	8.0	●	2	
540-W32-09	5	40	32	115	40	8.0	●	1	
4N TE90-225-W25-11	2	25	25	100	30	10.5	●	1	4NKT 1106... E218-E219
225-25-11-L200	2	25	25	200	40	10.5	●	2	
332-W32-11	3	32	32	110	40	10.5	●	1	
440-W32-11	4	40	32	115	40	10.5	●	1	
440-32-11-L200	4	40	32	200	40	10.5	●	2	
4N TE90-232-W32-14	2	32	32	110	40	13.8	●	1	4NKT 1407... E218-E219
232-32-14	2	32	32	150	45	13.8	●	2	
232-32-14-L250	2	32	32	250	40	13.8	●	2	
340-W32-14	3	40	32	115	40	13.8	●	1	
340-32-14	3	40	32	115	40	13.8	●	2	

Cutting Condition E271-E273

Ramping Data E293-E313

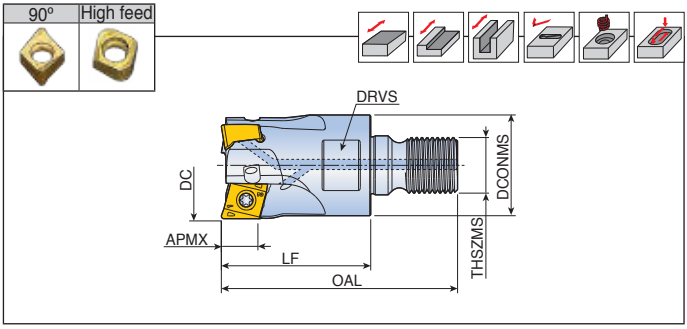
- Cutter body for '4NKT 090432R-HF' insert should be modified with body corner radius 3.2mm
- Cutter body for '4NKT 110640R-HF' insert should be modified with body corner radius 4.0 mm
- Cutter body for '4NKT 140750R-HF' insert should be modified with body corner radius 5.0 mm

4N TE90-M-09/11/14

CHASE4MILL

Modular heads

90°



Designation		Dimension (mm)							Coolant hole	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX	DRVS		
4N TE90- 220-M10-09	2	20	18	30	50	M10	8.0	15	●	4NK(H)T 0904...
325-M12-09	3	25	21	35	57	M12	8.0	17	●	E218-E219
432-M16-09	4	32	29	43	68	M16	8.0	25	●	
540-M16-09	5	40	29	43	68	M16	8.0	25	●	
4N TE90- 225-M12-11	2	25	21	35	57	M12	10.5	17	●	4NKT 1106...
332-M16-11	3	32	29	43	68	M16	10.5	25	●	E218-E219
440-M16-11	4	40	29	43	68	M16	10.5	25	●	
4N TE90- 232-M16-14	2	32	29	43	68	M16	13.8	25	●	4NKT 1407...
340-M16-14	3	40	29	43	68	M16	13.8	25	●	E218-E219

- Cutter body for '4NKT 090432R-HF' insert should be modified with body corner radius 3.2 mm
- Cutter body for '4NKT 110640R-HF' insert should be modified with body corner radius 4.0 mm
- Cutter body for '4NKT 140750R-HF' insert should be modified with body corner radius 5.0 mm
- Matched with T-FLEXTEC holder

Spare parts

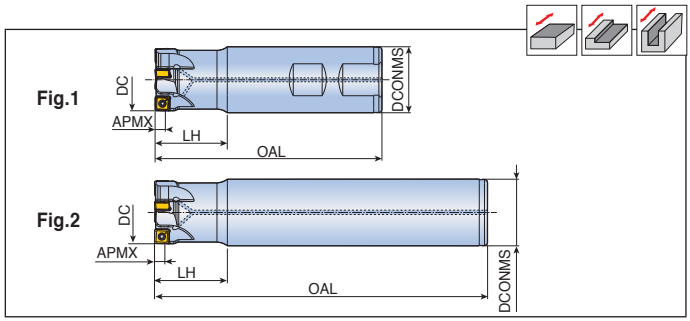
Designation	Screw	Wrench	Wrench handle		
4N TE90-09	TS 35A088I/HG	TBLD T10P-W6	THND 6W		
4N TE90-11	TS 40093I/HG	TBLD T15-W6	THND 6W		
4N TE90-14	TS 50A121I/HG	TBLD T20-W6	THND 6W		

Cutting Condition E271-E273
Ramping Data E293-E313

8D-TE90-07

End mills

90°



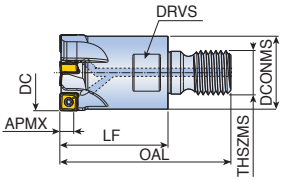
Designation		Dimension (mm)					Coolant hole	Fig.	Insert
		DC	DCONMS	LH	OAL	APMX			
8D-TE90- 216-W16-07	2	16	16	20	90	5.0	●	1	SQKU 0703...
216-16-07-L110	2	16	16	20	110	5.0	●	2	E257
217-16-07-L110	2	17	16	20	110	5.0	●	2	
220-W20-07	2	20	20	25	90	5.0	●	1	
220-20-07-L160	2	20	20	25	160	5.0	●	2	
320-W20-07	3	20	20	25	90	5.0	●	1	
221-20-07-L160	2	21	20	25	160	5.0	●	2	
325-W25-07	3	25	25	30	100	5.0	●	1	
325-25-07-L160	3	25	25	30	160	5.0	●	2	
425-W25-07	4	25	25	30	100	5.0	●	1	
326-25-07-L160	3	26	25	30	160	5.0	●	2	
432-W32-07	4	32	32	35	110	5.0	●	1	
432-32-07-L200	4	32	32	35	200	5.0	●	2	
632-W32-07	6	32	32	35	110	5.0	●	1	
433-32-07-L200	4	33	32	35	200	5.0	●	2	
540-W32-07	5	40	32	40	110	5.0	●	1	
840-W32-07	8	40	32	40	110	5.0	●	1	

Cutting Condition
E271-E273

8D-TE90-M-07

CHASE8MILL

Modular heads



90°

Designation		Dimension (mm)							Coolant hole	Insert
		DC	DCONMS	LF	OAL	THSZMS	APMX	DRVS		
8D-TE90- 216-M08-07	2	16	14	23	40.5	M08	5.0	10	●	SQKU 0703...
320-M10-07	3	20	18	30	50	M10	5.0	15	●	E257
325-M12-07	3	25	22	35	57	M12	5.0	17	●	
432-M16-07	4	32	29	43	68	M16	5.0	25	●	
540-M16-07	5	40	29	43	68	M16	5.0	25	●	

• Matched with T-FLEXTEC holder

Spare parts

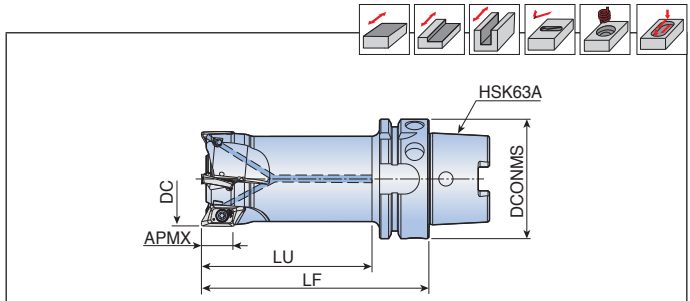
Designation	Screw	Wrench			
					
8D-TE90-07	TS 25D060/HG-P	TD 7P			

Cutting Condition E271-E273

TE90XEV-HSK63A-16

CHASEALU

End mills for HSK toolholder



90°

Designation		Dimension (mm)					Coolant hole	Max RPM	Insert
		DC	DCONMS	LF	LU	APMX			
TE90XEV 225-100-HSK63A-16	2	25	63	100	70	16	●	52,000	XEVT 1605...
232-125-HSK63A-16	2	32	63	125	95	16	●	46,000	E264
332-90-HSK63A-16	3	32	63	90	60	16	●	46,000	
340-105-HSK63A-16	3	40	63	105	75	16	●	41,200	
450-105-HSK63A-16	4	50	63	105	75	16	●	36,800	
450-120-HSK63A-16	4	50	63	120	90	16	●	36,800	

• Cutter body for inserts with corner radii more than 3.2mm (XEVT 16) should be modified as follows: body "RE"=insert "RE"-0.3mm

Spare parts

Designation	Screw	Wrench			
TE90XEV-16 (-Ø25)	TS 40085I/HG	T-T15			
TE90XEV-16 (Ø32-)	TS 40093I/HG	T-T15			

Cutting Condition E271-E273
Ramping Data E322-E323

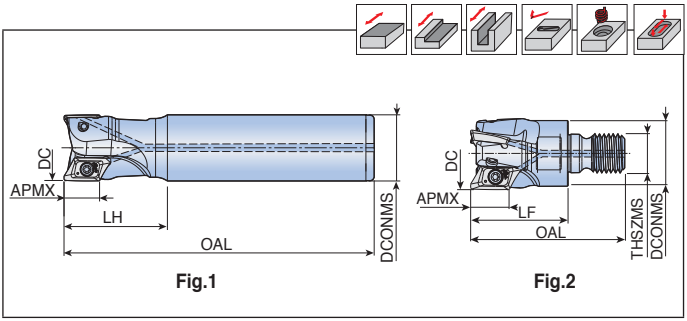
ADVANCE CUTTING TaeguTec

TE90XEV-16/22

CHASE ALU

End mills & Modular heads

90°



Designation			Dimension (mm)							Coolant hole	Fig.	Max RPM	Insert
			DC	DCONMS	OAL	THSZMS	LF	LH	APMX				
TE90XEV	**225-25-16**	2	25	25	125	-	-	55	16	●	1	52,000	XEVT 1605...
	225-25-16-L170	2	25	25	170	-	-	70	16	●	1	52,000	E264
	232-32-16	2	32	32	150	-	-	50	16	●	1	46,000	
	232-32-16-L200	2	32	32	200	-	-	80	16	●	1	46,000	
	332-32-16	3	32	32	150	-	-	50	16	●	1	46,000	
	332-32-16-L200	3	32	32	200	-	-	80	16	●	1	46,000	
	340-32-16	3	40	32	170	-	-	55	16	●	1	41,200	
	340-32-16-L250	3	40	32	250	-	-	55	16	●	1	41,200	
TE90XEV	**225-M12-16**	2	25	21	65	M12	43	-	16	●	2	52,000	
	232-M16-16	2	32	29	68	M16	43	-	16	●	2	46,000	
	332-M16-16	3	32	29	68	M16	43	-	16	●	2	46,000	
	340-M16-16	3	40	29	68	M16	43	-	16	●	2	41,200	
TE90XEV	**232-32-22**	2	32	32	160	-	-	100	21	●	1	37,500	XEVT 2206...
	340-40-22	3	40	40	160	-	-	80	21	●	1	35,100	E264

- Matched with T-FLEXTEC holder
- Cutter body for inserts with corner radii more than 3.2mm (XEVT 16) and 3.0mm (XEVT 22) should be modified as follows: body "RE"=insert "RE"-0.3mm

Spare parts

Designation	Screw	Wrench			
					
TE90XEV-16 (-Ø25)	TS 40085I/HG	T-T 15			
TE90XEV-16 (Ø32-)	TS 40093I/HG	T-T 15			
TE90XEV-22 (-Ø32)	TS 50105I	T-T 20			
TE90XEV-22 (Ø40-)	TS 50115I	T-T 20			

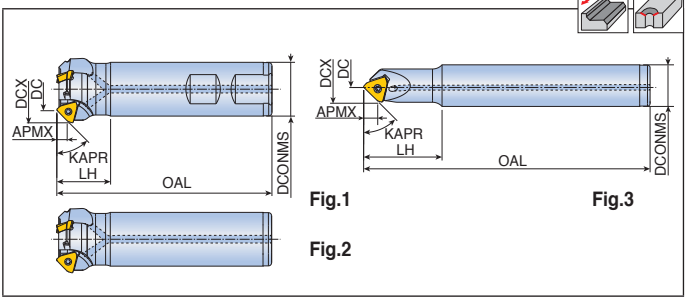
Cutting Condition E271-E273

Ramping Data E322-E326

3P-TCF-06/10

End mills for chamfering

30°-60°



Designation			Dimension (mm)							Fig.	Application range	Insert
			KAPR	DC	DCX	DCONMS	OAL	LH	APMX			
3P-TCF	**45-309-12-06**	3	45°	9	16.7	12	100	17	3.0	2	Ø10.3-Ø14.4	3PK(H)T 0603...
	60-320-W25-10	3	60°	20	27.3	25	100	25	5.9	1	Ø21.3-Ø26.2	3PK(H)T 1004...
	45-320-W25-10	3	45°	20	31.2	25	100	25	4.8	1	Ø21.3-Ø28.9	E216
	30-320-W25-10	3	30°	20	34.5	25	100	25	3.3	1	Ø21.3-Ø31.0	
3P-TCF	**45-D2-16-10-L110**	1	45°	2	13.3	16	110	30	4.7	3	Ø3.3-Ø10.6	3PK(H)T 1004... E216

• Coolant through type

Spare parts

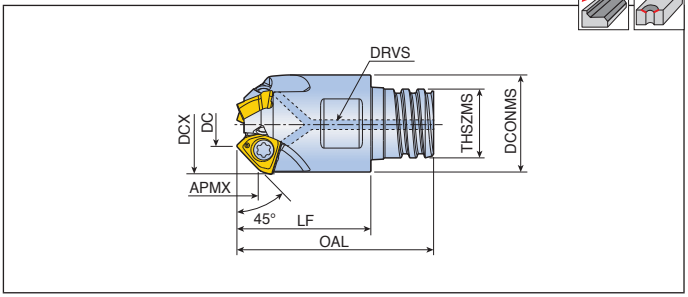
Designation	Screw	Wrench			
					
3P-TCF-06	TS 20043I/HG-P	TD 6P			
3P-TCF-10	TS 25C065I/HG	TD 8			

Cutting Condition E271-E273

ADVANCE CUTTING TaeguTec

3P-TCF-S-04

Modular heads for chamfering



45°

Designation		Dimension (mm)								Application range	Insert
		DC	DCX	DCONMS	LF	OAL	THSZMS	APMX	DRVS		
3P-TCF45-306-S08-04	3	6	12.3	11.6	16	23.5	S08	2.5	10	Ø7.3-Ø10.5	3PKT 0402... E216

• Matched with MAXI-RUSH holder • Coolant through type

Spare parts

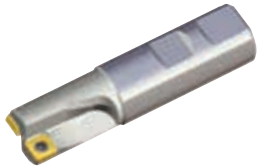
Designation	Screw	Wrench			
3P-TCF-S-04	TS 18033/HG-P	TD 6P			

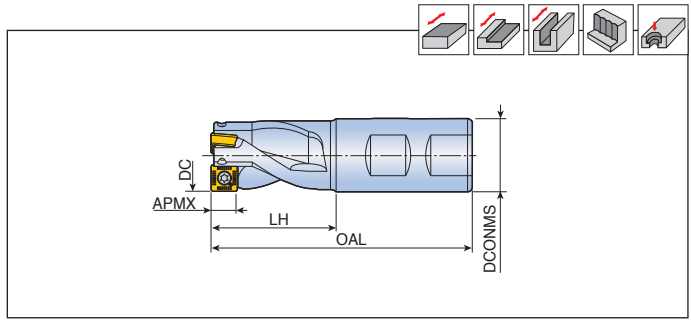
Cutting Condition E271-E273

TSF-06/09/11/14

CHASEQUAD

End mills





90°

Designation		Dimension (mm)					Insert
		DC	DCONMS	OAL	LH	APMX	
TSF 112-W16-06	1	12	16	80	27	5.6	XOMT 0602... E255
216-W20-06	2	16	20	90	27	5.6	
320-W20-06	3	20	20	100	25	5.6	
TSF 222-W25-09	2	22	25	100	40	9.0	SPMG(T) 0904... E255
225-W25-09	2	25	25	100	40	9.0	
TSF 332-W32-11	3	32	32	115	55	10.7	SPMG(T) 1104... E255
440-W32-11	4	40	32	125	55	10.7	
TSF 445-W32-14	4	45	32	130	70	13.4	SPMG(T) 1405... E255
450-W32-14	4	50	32	140	80	13.4	

Spare parts

Designation	Screw	Wrench			
TSF (Ø12)	TS 22046I	TD 7			
TSF (Ø16-Ø20)	TS 22052I/HG	TD 7			
TSF (Ø22-Ø25)	TS 35088I	TD 10			
TSF (Ø32-Ø40)	TS 40093I	TD 15			
TSF (Ø45-Ø50)	TS 50A121I/HG	TD 20			

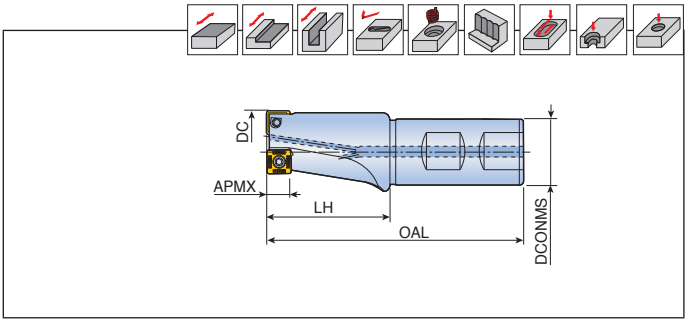
Cutting Condition E271-E273

ADVANCE CUTTING TaeguTec

TDM-06/09/11/14

CHASEQUAD

End mills



90°

Designation		Dimension (mm)					Coolant hole	Max. drilling depth (mm)	Insert
		DC	DCONMS	OAL	LH	APMX			
TDM 112 W16-06	1	12	16	80	20	5.6	●	12	XOMT 0602... E255
216 W20-06	2	16	20	90	25	5.6	●	16	
218 W20-06	2	18	20	90	25	5.6	●	16	
220 W25-06	2	20	25	100	40	5.6	●	20	
222 W25-06	2	22	25	110	47	5.6	●	25	
TDM 225 W25-09	2	25	25	110	50	9.0	●	30	SPMG(T) 0904...-EM E255
228 W32-09	2	28	32	125	60	9.0	●	38	
TDM 232 W32-11	2	32	32	125	60	10.7	●	38	SPMG(T) 1104...-EM E255
240 W32-11	2	40	32	125	60	10.7	●	38	
TDM 245 W32-14	2	45	32	130	66	13.4	●	40	SPMG(T) 1405...-EM E255
250 W32-14	2	50	32	150	66	13.4	●	40	

Spare parts

Designation	Screw	Wrench			
TDM (Ø12)	TS 22046I	TD 7			
TDM (Ø16-Ø22)	TS 22052I/HG	TD 7			
TDM (Ø25-Ø28)	TS 35088I	TD 10			
TDM (Ø32-Ø40)	TS 40093I	TD 15			
TDM (Ø45-Ø50)	TS 50A121I/HG	TD 20			

Cutting Condition E271-E273

End mills

45°

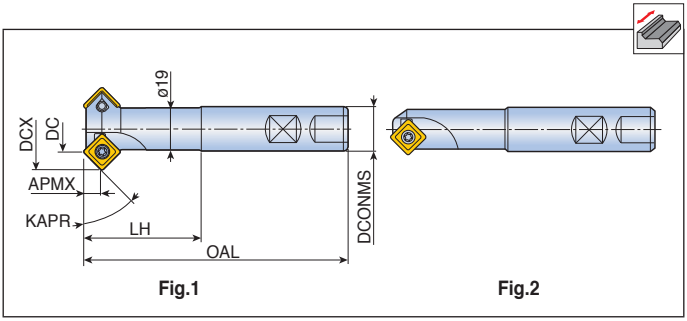


Fig.1 Fig.2

Designation		Dimension (mm)							Fig.	Application range(mm)	Insert
		KAPR	DCX	DC	DCONMS	OAL	LH	APMX			
TCF 15 D25-11	2	75°	30.5	25	20	120	40	10.1	1	Ø26.3-Ø30.0	SPMT(G) 1104...EM
30 D25-11	2	60°	35.5	25	20	120	40	8.9	1	Ø26.3-Ø34.0	E255
45 D07-11	1	45°	21.5	7	20	120	40	7.2	2	Ø8.3-Ø20.9	
45 D19-11	2	45°	33.4	19	20	120	40	7.2	1	Ø20.3-Ø32.9	
45 D25-11	3	45°	39.4	25	20	120	40	7.2	1	Ø26.3-Ø38.9	

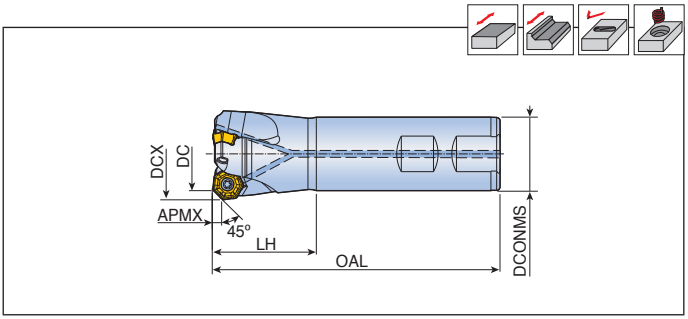
Spare parts

Designation	Screw	Wrench			
TCF-11	TS 40093I	TD 15			

Cutting Condition
E271-E273

7S-E45-06

End mills



45°

Designation		Dimension (mm)						Coolant hole	Insert
		DCX	DC	DCONMS	OAL	LH	APMX		
7S-E45 232P-W32-06	2	32	23.7	32	125	45	3.2	●	7EMT 0604 ...
340P-W32-06	3	40	31.6	32	125	45	3.2	●	E223
450P-W32-06	4	50	41.5	32	125	45	3.2	●	

Spare parts

Designation	Screw	Wrench			
7S-E45-06 (-Ø40)	TS 40085I/HG	TD 15			
7S-E45-06 (Ø50-)	TS 40093I/HG	TD 15			

Cutting Condition E271-E273
Ramping Data E327

End mills

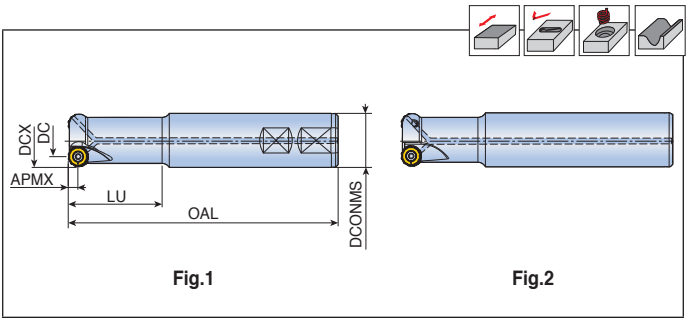


Fig.1 Fig.2

Designation			Dimension (mm)						Coolant hole	Fig.	Insert
			DCX	DC	DCONMS	OAL	LU	APMX			
TERNS	225-25-10-L160	2	25	15	25	160	60	5.0	●	2	RNMU 1004...
	225-32-10-L250	2	25	15	32	250	40	5.0	●	2	E244
	325-25-10-L160	3	25	15	25	160	60	5.0	●	2	
	226-25-10-L200	2	26	16	25	200	80	5.0	●	2	
	332-32-10-L180	3	32	22	32	180	70	5.0	●	2	
	332-32-10-L250	3	32	22	32	250	100	5.0	●	2	
	432-32-10-L180	4	32	22	32	180	70	5.0	●	2	
	432-32-10-L250	4	32	22	32	250	100	5.0	●	2	
	433-32-10-L200	4	33	23	32	200	80	5.0	●	2	
	433-32-10-L250	4	33	23	32	250	100	5.0	●	2	
TERNS	232-32-12-L150	2	32	20	32	150	50	6.0	●	2	RNMU 1205...
	232-32-12-L200	2	32	20	32	200	60	6.0	●	2	E244
	232-32-12-L	2	32	20	32	250	50	6.0	●	2	
	332-W32-12	3	32	20	32	160	60	6.0	●	1	
	332-32-12-L200	3	32	20	32	200	70	6.0	●	2	
	332-32-12-L250	3	32	20	32	250	60	6.0	●	2	
	233-32-12-L200	2	33	21	32	200	50	6.0	●	2	
	233-32-12-L250	2	33	21	32	250	50	6.0	●	2	
	333-32-12-L200	3	33	21	32	200	70	6.0	●	2	
	333-32-12-L250	3	33	21	32	250	60	6.0	●	2	
	340-W32-12	3	40	28	32	160	50	6.0	●	1	
	340-32-12-L250	3	40	28	32	250	50	6.0	●	2	
	440-W32-12	4	40	28	32	160	50	6.0	●	1	
	440-32-12-L250	4	40	28	32	250	60	6.0	●	2	
	450-32-12-L200	4	50	38	32	200	70	6.0	●	2	
	550-32-12-L250	5	50	38	32	250	60	6.0	●	2	
TERNS	240-W32-16-L160	2	40	24	32	160	50	6.0	●	1	RNMU 1606...
	240-32-16-L180	2	40	24	32	180	70	8.0	●	2	E244
	240-32-16-L250	2	40	24	32	250	100	8.0	●	2	
	340-32-16-L180	3	40	24	32	180	70	8.0	●	2	
	340-32-16-L250	3	40	24	32	250	100	8.0	●	2	

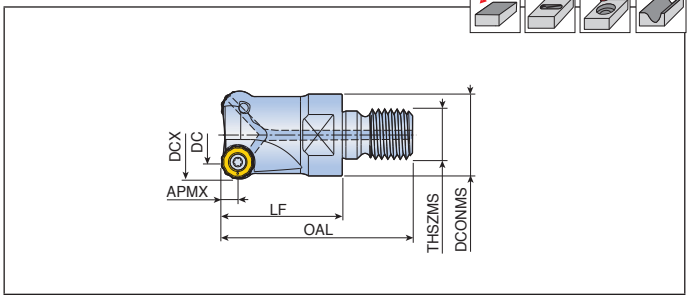
Cutting Condition E271-E273

Ramping Data E339-E340

TERNS-M

CHASE2MOLD

Modular heads



Designation			Dimension (mm)							Coolant hole	Insert
			DCX	DC	DCONMS	LF	OAL	THSZMS	APMX		
TERNS	**225-M12-10**	2	25	15	21	35	57	M12	5.0	•	RNMU 1004... E244
	325-M12-10	3	25	15	21	35	57	M12	5.0	•	
	432-M16-10	4	32	22	29	43	68	M16	5.0	•	
	542-M16-10	5	42	32	29	43	68	M16	5.0	•	
TERNS	**232-M16-12**	2	32	20	29	43	68	M16	6.0	•	RNMU 1205... E244
	332-M16-12	3	32	20	29	43	68	M16	6.0	•	
	233-M16-12	2	33	21	29	43	68	M16	6.0	•	
	333-M16-12	3	33	21	29	43	68	M16	6.0	•	
	340-M16-12	3	40	28	29	43	68	M16	6.0	•	
	440-M16-12	4	40	28	29	43	68	M16	6.0	•	
TERNS	**240-M16-16**	2	40	24	29	43	68	M16	8.0	•	RNMU 1606... E244
	340-M16-16	3	40	24	29	43	68	M16	8.0	•	

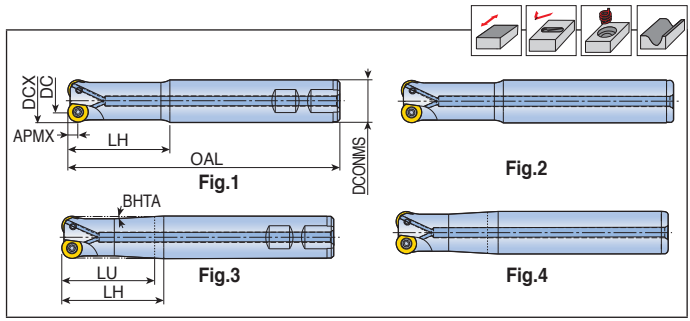
• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench			
TERNS-10	TS 35085I/HG	TD 15	-		
TERNS-12	TS 40G110I	-	T-T15		
TERNS-16	TS 50A121I/HG	TD 20	-		

Cutting Condition E271-E273
Ramping Data E339-E340

End mills



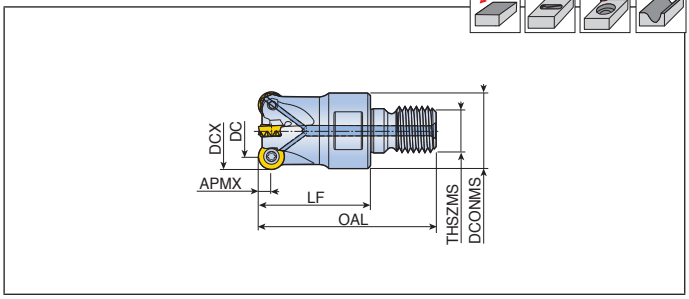
Designation			Dimension (mm)								Coolant hole	Fig.	Insert
			DCX	DC	DCONMS	OAL	LU	LH	BHTA	APMX			
TERY	216-W20-08-L	2	16	8	20	110	45	55	4.1	4.0	●	3	RYM(H)X 0803... E245-E246
	217-16-08-L130	2	17	9	16	130	-	30	-	4.0	●	2	
	218-16-08-L150	2	18	10	16	150	-	30	-	4.0	●	2	
	320-W20-08	3	20	12	20	150	-	43	-	4.0	●	1	
	320-20-08-L110	3	20	12	20	110	-	60	-	4.0	●	2	
	321-20-08-L150	3	21	13	20	150	-	40	-	4.0	●	2	
	425-W25-08	4	25	17	25	150	-	43	-	4.0	●	1	
	426-25-08-L150	4	26	18	25	150	-	40	-	4.0	●	2	
	532-W32-08	5	32	24	32	160	-	60	-	4.0	●	1	
TERY	220-W20-10	2	20	10	20	160	-	60	-	5.0	●	1	RYM(H)X 1004... E245-E246
	220-25-10-L	2	20	10	25	250	60	80	3.5	5.0	●	4	
	221-20-10-L200	2	21	11	20	200	-	30	-	5.0	●	2	
	225-32-10-L	2	25	15	32	250	53	80	5.0	5.0	●	4	
	225-W25-10	2	25	15	25	160	-	60	-	5.0	●	1	
	325-W25-10	3	25	15	25	160	-	60	-	5.0	●	1	
	226-25-10-L200	2	26	16	25	200	-	30	-	5.0	●	2	
	326-25-10-L200	3	26	16	25	200	-	60	-	5.0	●	2	
	432-W32-10	4	32	22	32	160	-	60	-	5.0	●	1	
TERY	225-W25-12	2	25	13	25	160	-	60	-	6.0	●	1	RYM(H)X 1205... E245-E246
	226-25-12-L200	2	26	14	25	200	-	60	-	6.0	●	2	
	232-32-12-L	2	32	20	32	250	-	50	-	6.0	●	2	
	332-W32-12	3	32	20	32	160	-	64	-	6.0	●	1	
	332-W32-12-S	3	32	20	32	105	-	35	-	6.0	●	1	
	233-32-12-L250	2	33	21	32	250	-	40	-	6.0	●	2	
	333-32-12-L200	3	33	21	32	200	-	60	-	6.0	●	2	
	340-W32-12	3	40	28	32	160	-	50	-	6.0	●	1	
	340-W32-12-S	3	40	28	32	105	-	35	-	6.0	●	1	
	340-32-12-L250	3	40	28	32	250	-	50	-	6.0	●	2	
	440-W32-12	4	40	28	32	150	-	35	-	6.0	●	1	
	440-W32-12-S	4	40	28	32	105	-	35	-	6.0	●	1	
TERY	240-W32-16	2	40	24	32	160	-	50	-	8.0	●	1	RYM(H)X 1606... E245-E246
	340-32-16-L250	3	40	24	32	250	-	50	-	8.0	●	2	
TERY	350-32-20	3	50	30	32	160	-	50	-	10.0	●	2	RYM(H)X 2007... E245-E246
	350-40-20	3	50	30	40	200	-	60	-	10.0	●	2	

Cutting Condition E271-E273
Ramping Data E341-E343

TERY-M-08/10

CHASEMOLD

Modular heads



Designation		Dimension (mm)							Coolant hole	Insert
		DCX	DC	DCONMS	LF	OAL	THSZMS	APMX		
TERY 216-M08-08	2	16	8	13	23	40.5	M08	4.0	●	RYM(H)X 0803...
218-M08-08	2	18	10	13	23	40.5	M08	4.0	●	E245-E246
220-M10-08	2	20	12	18	30	50	M10	4.0	●	
320-M10-08	3	20	12	18	30	50	M10	4.0	●	
425-M12-08	4	25	17	21	35	57	M12	4.0	●	
530-M16-08	5	30	22	29	43	68	M16	4.0	●	
532-M16-08	5	32	24	29	43	68	M16	4.0	●	
540-M16-08	5	40	32	29	43	68	M16	4.0	●	
640-M16-08	6	40	32	29	43	68	M16	4.0	●	
TERY 220-M10-10	2	20	10	18	30	50	M10	5.0	●	RYM(H)X 1004...
225-M12-10	2	25	15	21	35	57	M12	5.0	●	E245-E246
325-M12-10	3	25	15	21	35	57	M12	5.0	●	
430-M16-10	4	30	20	29	43	68	M16	5.0	●	
432-M16-10	4	32	22	29	43	68	M16	5.0	●	
435-M16-10	4	35	25	29	43	68	M16	5.0	●	
542-M16-10	5	42	32	29	43	68	M16	5.0	●	
642-M16-10	6	42	32	29	43	68	M16	5.0	●	

Cutting Condition E271-E273

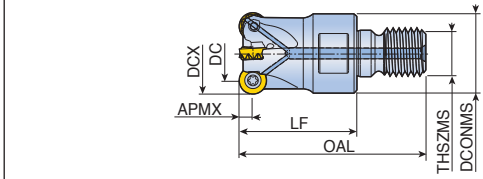
Ramping Data E341

• Matched with T-FLEXTEC holder

TERY-M-12/16

CHASEMOLD

Modular heads



Designation		Dimension (mm)							Coolant hole	Insert
		DCX	DC	DCONMS	LF	OAL	THSZMS	APMX		
TERY 225-M12-12	2	25	13	21	35	57	M12	6.0	●	RYM(H)X 1205...
232-M16-12	2	32	20	29	43	68	M16	6.0	●	E245-E246
332-M16-12	3	32	20	29	43	68	M16	6.0	●	
335-M16-12	3	35	23	29	43	68	M16	6.0	●	
340-M16-12	3	40	28	29	43	68	M16	6.0	●	
440-M16-12	4	40	28	29	43	68	M16	6.0	●	
442-M16-12	4	42	30	29	43	68	M16	6.0	●	
TERY 232-M16-16	2	32	16	29	43	68	M16	8.0	●	RYM(H)X 1606...
240-M16-16	2	40	24	29	43	68	M16	8.0	●	E245-E246
342-M16-16	3	42	26	29	43	68	M16	8.0	●	

• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench		Wrench handle	
					
TERY-08	TS 30A060I/HG	TD 9	-		
TERY-10	TS 35070I/HG(UnderD21), TS 35085I/HG	TD 15	-		
TERY-12	TS 40093I	TD 15	-		
TERY-16	TS 50115I	TD 20	-		
TERY-20	TS 60A130I	-	BLD T25/M7	SW6-T	

Cutting Condition E271-E273
Ramping Data E342-E343

ADVANCE CUTTING TaeguTec

End mills

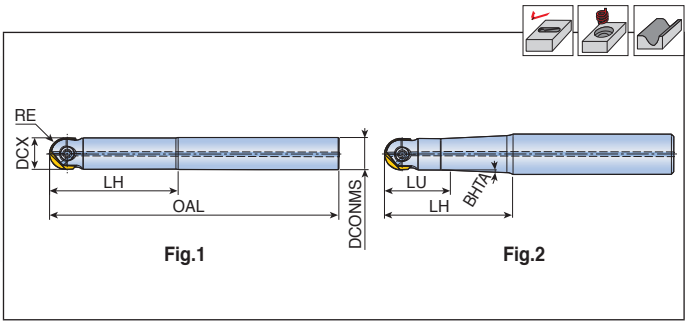


Fig.1 Fig.2

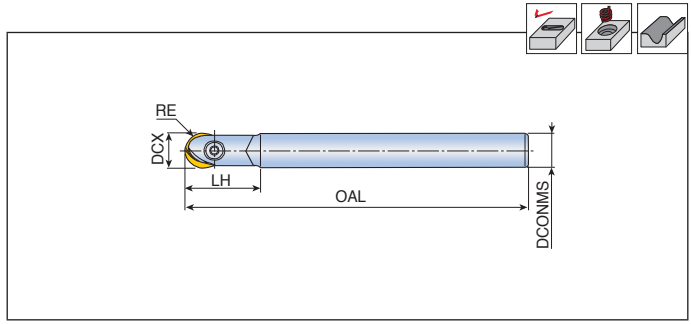
Designation	Dimension (mm)							Coolant hole	Fig.	Insert
	DCX	RE	DCONMS	OAL	LH	LU	BHTA			
TNF 060-10M	6	3	10	80	30	15	7.5°	●	2	NFB 060...
060-30-L80	6	3	10	80	30	-	-	●	1	NFR 060A...
080-08S	8	4	8	90	20	-	-	●	1	NFB 080...
080-12S	8	4	12	100	20	10	9.5°	●	2	NFR 080A...
080-12M	8	4	12	130	50	10	3°	●	2	
100-10S	10	5	10	90	30	-	-	●	1	NFB 100...
100-12S	10	5	12	110	25	15	5°	●	2	NFR 100A...
100-16M	10	5	16	130	60	15	3.5°	●	2	NFR 110A...
120-12S	12	6	12	110	30	-	-	●	1	NFB 120...
120-12M	12	6	12	180	60	-	-	●	1	NFR 120A...
120-16M	12	6	16	140	60	25	2.4°	●	2	NFR 130A...
120-20L	12	6	20	180	80	40	5°	●	2	
160-16M	16	8	16	130	40	-	-	●	1	NFB 160...
160-16L	16	8	16	200	100	-	-	●	1	NFR 160A...
160-20M	16	8	20	160	60	25	2.5°	●	2	NFR 170A...
160-25L	16	8	25	220	100	55	5°	●	2	
200-20S	20	10	20	110	40	-	-	●	1	NFB 200...
200-20M	20	10	20	150	50	-	-	●	1	NFR 200A...
200-20L	20	10	20	220	70	-	-	●	1	NFR 210A...
200-25M	20	10	25	180	80	40	2.5°	●	2	
200-25L	20	10	25	220	110	45	1.5°	●	2	
250-25S	25	12.5	25	125	40	-	-	●	1	NFB 250...
250-25M	25	12.5	25	170	70	-	-	●	1	NFR 250A...
250-32M	25	12.5	32	200	90	32	3°	●	2	NFR 260A...
250-32L	25	12.5	32	250	130	40	1.5°	●	2	
300-32S	30	15	32	140	55	-	-	●	1	NFB 300...
300-32M	30	15	32	190	75	-	-	●	1	NFB 320...
300-32L	30	15	32	250	100	65	1°	●	2	NFR 300A...
300-32XL	30	15	32	300	150	-	-	●	1	NFR 320A...
300-32-L220	30	15	32	220	100	55	1°	●	2	
320-32L	32	16	32	250	60	-	-	●	1	NFB 320...
										NFR 320A...
										E239-E241

Cutting Condition
E271-E273

TNF-CT-L

FINEBALL

End mills-carbide shank

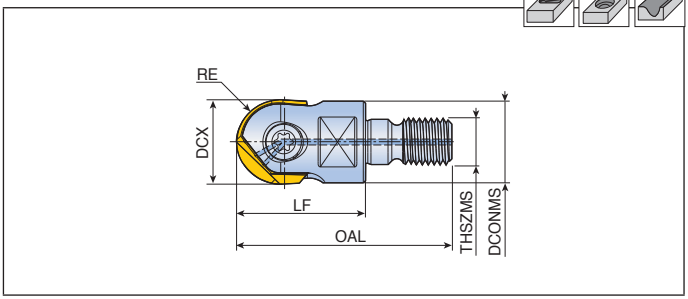


Designation		Dimension (mm)					Insert
		DCX	RE	DCONMS	OAL	LH	
TNF	060-06-CT-L60	6	3	6	60	15	NFB 060... NFR 060A...
	060-06-CT-L80	6	3	6	80	20	
	060-06-CT-L92	6	3	6	92	35	
	060-06-CT-L120	6	3	6	120	65	
	060-06-CT-L140	6	3	6	140	25	
	080-08-CT-L100	8	4	8	100	30	NFB 080... NFR 080A...
	080-10-CT-L140	8	4	10	140	75	
	080-08-CT-L160	8	4	8	160	80	
	100-10-CT-L100	10	5	10	100	35	NFB 100... NFR 100A... NFR 110A...
	100-10-CT-L140	10	5	10	140	75	
	100-10-CT-L200	10	5	10	200	70	
	100-10-CT-L220	10	5	10	220	140	
	120-12-CT-L120	12	6	12	120	50	NFB 120... NFR 120A... NFR 130A...
	120-12-CT-L160-S	12	6	12	160	30	
	120-12-CT-L160	12	6	12	160	90	
	120-12-CT-L200	12	6	12	200	70	
	120-12-CT-L220	12	6	12	220	150	
	160-16-CT-L120	16	8	16	120	60	NFB 160... NFR 160A... NFR 170A...
	160-16-CT-L160-S	16	8	16	160	70	
	160-16-CT-L160	16	8	16	160	80	
	160-16-CT-L200	16	8	16	200	70	
	160-16-CT-L220	16	8	16	220	150	
	200-20-CT-L200	20	10	20	200	70	NFB 200... NFR 200A... NFR 210A...
	200-20-CT-L110	20	10	20	110	40	
	200-20-CT-L220	20	10	20	220	120	
	200-20-CT-L300	20	10	20	300	220	
	250-25-CT-L200	25	12.5	25	200	70	NFB 250... NFR 250A... NFR 260A...
	250-25-CT-L220-S	25	12.5	25	220	80	
	250-25-CT-L220	25	12.5	25	220	120	
	250-25-CT-L300	25	12.5	25	300	220	
	300-32-CT-L200	30	15	32	200	70	NFB 300... NFB 320... NFR 300A... NFR 320A... E239-E241
	300-32-CT-L250-S	30	15	32	250	80	
	300-32-CT-L250	30	15	32	250	150	
	300-32-CT-L350-S	30	15	32	350	80	
	300-32-CT-L350	30	15	32	350	230	
	320-32-CT-L300	32	16	32	300	220	NFB 320... NFR 320A...

TNF-M

FINEBALL

Modular heads



Designation	Dimension (mm)						Coolant hole	Insert
	DCX	RE	DCONMS	OAL	LF	THSZMS		
TNF 100-M06	10	5	9.7	34.5	20	M06	•	NFB 100...
								NFR 100A...
								NFR 110A...
120-M06	12	6	11.5	37.5	23	M06	•	NFB 120...
120-M08	12	6	13	40.5	23	M08	•	NFR 120A...
								NFR 130A...
160-M08	16	8	13	47.5	30	M08	•	NFB 160...
								NFR 160A...
								NFR 170A...
200-M10	20	10	19	50	30	M10	•	NFB 200...
								NFR 200A...
								NFR 210A...
250-M12	25	12.5	24	57	35	M12	•	NFB 250...
250-M16	25	12.5	29	68	43	M16	•	NFR 250A...
								NFR 260A...
300-M16	30	15	29	68	43	M16	•	NFB 300...
								NFB 320...
								NFR 300A...
								NFR 320A...
320-M16	32	16	29.5	68	43	M16	•	NFB 320...
								NFR 320A...
								E239-E241

• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench			Wrench handle	
TNF 060	TS 20F060A	TD 6	-	-	-	
TNF 080	TS 25F080A	TD 8	-	-	-	
TNF 100	TS 30F100A	TD 10	-	-	-	
TNF 120	TS 40F120A	TD 15	-	-	-	
TNF 160	TS 50F160A	-	T-T20	-	-	
TNF 200	TS 60F200A	-	-	BLD T25/M7	SW6-T	
TNF 250	TS 70F250A	-	-	BLD T25/M7	SW6-T	
TNF 300, TNF 320	TS 80F300A	-	T-T30	-	-	

Cutting Condition
E271-E273

TNFR

End mills

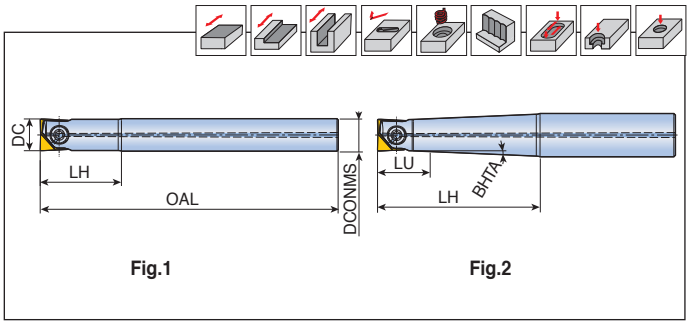


Fig.1 Fig.2

Designation	Dimension (mm)						Coolant hole	Fig.	Insert
	DC	DCONMS	OAL	LH	LU	BHTA			
TNFR 060-10M	6	10	80	30	15	9°	●	2	NFR 060A...
080-12S	8	12	100	22	10	9°	●	2	NFR 080A...
080-12M	8	12	130	50	10	2.8°	●	2	
100-12S	10	12	110	25	15	5°	●	2	NFR 100A...
100-16M	10	16	150	50	15	3.5°	●	2	NFR 110A...
120-12S	12	12	110	30	-	-	●	1	NFR 120A...
120-16M	12	16	160	60	18	2.5°	●	2	NFR 130A...
160-16S	16	16	130	50	-	-	●	1	NFR 160A...
160-16M	16	16	170	70	-	-	●	1	NFR 170A...
160-16L	16	16	200	100	-	-	●	1	
200-20S	20	20	140	60	-	-	●	1	NFR 200A...
200-20M	20	20	180	80	-	-	●	1	NFR 210A...
200-20L	20	20	250	120	-	-	●	1	
250-25S	25	25	150	70	-	-	●	1	NFR 250A...
250-25M	25	25	200	100	-	-	●	1	NFR 260A...
250-25L	25	25	250	120	-	-	●	1	
300-32S	30	32	140	55	-	-	●	1	NFR 300A
300-32M	30	32	190	75	-	-	●	1	NFR 320A
300-32L	30	32	250	100	65	1°	●	2	
320-32L	32	32	250	60	-	-	●	1	NFR 320A

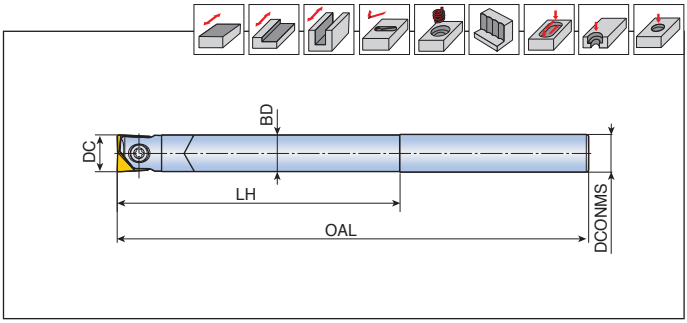
E240-E241

Cutting Condition E271-E273

TNFR-CT-L

FINEBALL

End mills-carbide shank



Designation	Dimension (mm)					Insert
	DC	DCONMS	BD	OAL	LH	
TNFR 060-06-CT-L60	6	6	5.8	60	15	NFR 060A...
060-06-CT-L80	6	6	5.8	80	20	
080-08-CT-L140	8	8	7.8	140	75	NFR 080A...
100-10-CT-L140	10	10	9.7	140	75	NFR 100A... NFR 110A...
120-12-CT-L160	12	12	11.7	160	95	NFR 120A... NFR 130A...
160-16-CT-L200	16	16	15.5	200	120	NFR 160A... NFR 170A...
200-20-CT-L250	20	20	19.5	250	160	NFR 200A... NFR 210A...
250-25-CT-L300	25	25	24.5	300	200	NFR 250A... NFR 260A...
300-32-CT-L350	30	32	29.5	350	230	NFR 300A... NFR 320A...
320-32-CT-L350	32	32	31.5	350	230	NFR 320A...

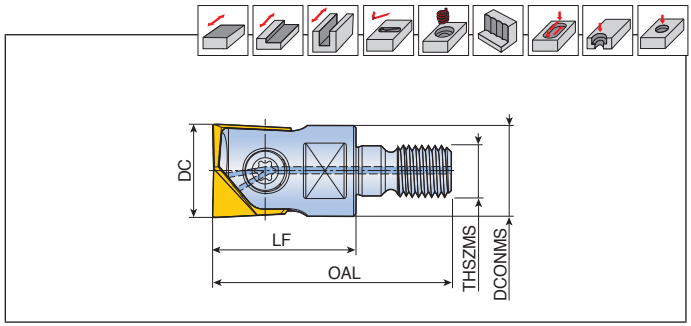
E240-E241

Cutting Condition E271-E273

TNFR-M

FINEBALL

Modular heads



Designation	Dimension (mm)					Coolant hole	Insert
	DC	DCONMS	LF	OAL	THSZMS		
TNFR 100-M06	10	9.7	20	34.5	M06	●	NFR 100A... NFR 110A...
120-M06	12	11.5	23	37.5	M06	●	NFR 120A...
120-M08	12	13	23	40.5	M08	●	NFR 130A...
160-M08	16	13	30	47.5	M08	●	NFR 160A... NFR 170A...
200-M10	20	19	30	50	M10	●	NFR 200A... NFR 210A...
250-M12	25	24	35	57	M12	●	NFR 250A... NFR 260A...
300-M16	30	29	43	68	M16	●	NFR 300A NFR 320A
320-M16	32	29.5	43	68	M16	●	NFR 320A E240-E241

• Matched with T-FLEXTEC holder

Spare parts

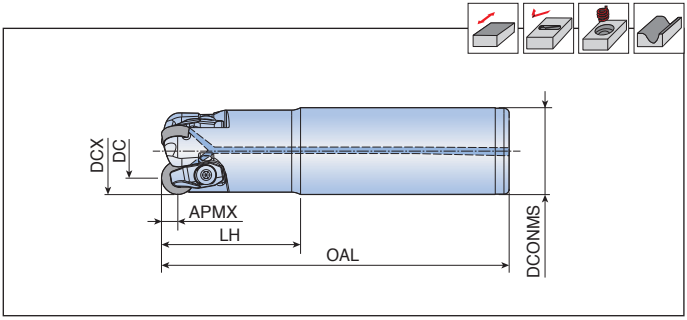
Designation	Screw	Wrench			Wrench handle	
						
TNFR 060	TS 20F060A	TD 6	-	-	-	
TNFR 080	TS 25F080A	TD 8	-	-	-	
TNFR 100	TS 30F100A	TD 10	-	-	-	
TNFR 120	TS 40F120A	TD 15	-	-	-	
TNFR 160	TS 50F160A	-	T-T20	-	-	
TNFR 200	TS 60F200A	-	-	BLD T25/M7	SW6-T	
TNFR 250	TS 70F250A	-	-	BLD T25/M7	SW6-T	
TNFR 300, TNFR 320	TS 80F300A	-	T-T30	-	-	

Cutting Condition
E271-E273

TERP-09

CHASESPEED

End mills



Designation			Dimension (mm)						Air hole(1)	Insert
			DCX	DC	DCONMS	OAL	LH	APMX		
TERP	**220-20-09FL-L80**	2	20	10.6	20	80	30	4.7	●	RPGN 0903 FL...
	325-25-09FL-L100	3	25	15.6	25	100	40	4.7	●	E243
	432-32-09FL-L120	4	32	22.5	32	120	40	4.7	●	

• (1) Use only air (Coolant is prohibited)

Spare parts

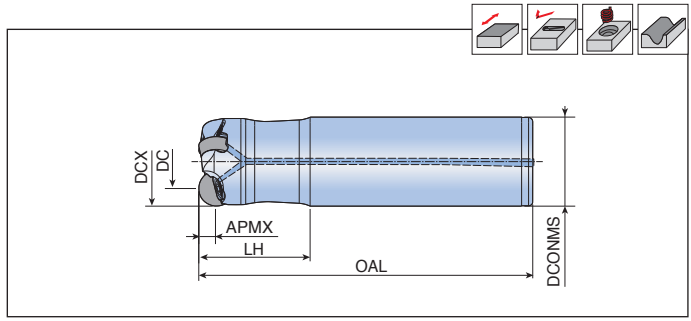
Designation	Clamp	Screw	Snap ring	Wrench	
TERP-09	CCL-3S-F	CLS-35A120	CSR 1.25	L-W 2	

Cutting Condition E271-E273

TERP-12

CHASESPEED

End mills



Designation		Dimension (mm)						Air hole(1)	Insert
		DCX	DC	DCONMS	OAL	LH	APMX		
TERP 332-32-12-L120	3	32	19.3	32	120	40	6.3	•	RPGN 1204 FL...
440-32-12-L120	4	40	27.3	32	120	40	6.3	•	E243

• (1) Use only air (Coolant is prohibited)

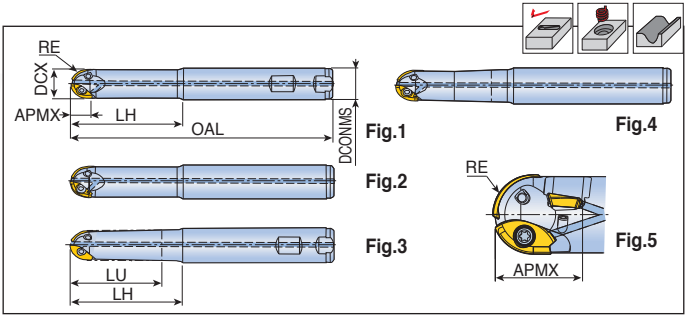
Spare parts

Designation	Clamp	Screw	Wrench		
TERP-12	WFZ 6-C	WS 6	T-W 3		

Cutting Condition
E271-E273

ADVANCE CUTTING
TaeguTec

End mills

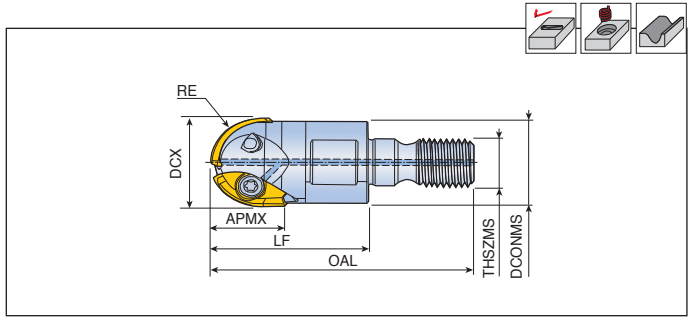


Designation	Dimension (mm)							Coolant hole	Fig.	Insert			
	DCX	RE	DCONMS	OAL	LU	LH	APMX			Ball		Periphery	
2F 16-11-W20-L120	16	8	20	120	35.5	60	11.8	●	3	2FB160 E214	2	-	-
16-11-20-L130	16	8	20	130	45.9	60	11.8	●	4		2	-	-
16-11-20-L200	16	8	20	200	45.9	60	11.8	●	4		2	-	-
16-20-W20-L120-P	16	8	20	120	41.8	60	20.5	X	5		2	APKT 09T3 E225	1
16-20-25-L200-P	16	8	25	200	43.4	65	20.5	X	5		2		1
20-13-W25-L105	20	10	25	105	-	45	13.6	●	1	2FB200 E214	2	-	-
20-13-W25-L150	20	10	25	150	45.7	65	13.6	●	3		2	-	-
20-13-20-L220	20	10	20	220	-	70	13.6	●	2		2	-	-
20-13-25-L160	20	10	25	160	58.4	75	13.6	●	4		2	-	-
20-13-25-L220	20	10	25	220	65.7	85	13.6	●	4		2	-	-
20-22-25-L125-P	20	10	25	125	45.7	65	22.3	●	5		2	APKT 09T3 E225	1
20-22-25-L200-P	20	10	25	200	74.3	90	22.3	●	5		2		1
20-22-32-L250-P	20	10	32	250	72.3	100	22.3	●	5		2		1
25-17-W25-L150	25	12.5	25	150	-	60	17.7	●	1	2FB250 E214	2	-	-
25-17-32-L150	25	12.5	32	150	55.7	75	17.7	●	4		2	-	-
25-17-32-L200	25	12.5	32	200	61.6	85	17.7	●	4		2	-	-
25-17-32-L300	25	12.5	32	300	80	120	17.7	●	4		2	-	-
25-35-25-L200-P	25	12.5	25	200	-	87.5	35.1	●	5		2		2
25-35-32-L200-P	25	12.5	32	200	-	100	35.1	●	5		2	APKT 09T3 E225	2
25-35-32-L250-P	25	12.5	32	250	-	110	35.1	●	5		2		2
25-43-32-L300-P	25	12.5	32	300	-	120	43.7	●	5		2		3
30-20-W32-L180	30	15	32	180	-	86.1	20.0	●	1	2FB300 E214	2	-	-
30-20-30-L250	30	15	30	250	-	104.6	20.0	●	2		2	-	-
30-20-32-L200	30	15	32	200	-	86.1	20.0	●	2		2	-	-
30-20-32-L300	30	15	32	300	-	126.1	20.0	●	2		2	-	-
30-43-32-L160-P	30	15	32	160	-	66	43.7	●	5		2		2
30-43-32-L200-P	30	15	32	200	-	85.6	43.7	●	5		2	APKT 1204 E226	2
30-43-32-L250-P	30	15	32	250	-	125.6	43.7	●	5		2		2
30-51-32-L300-P	30	15	32	300	-	146	55.3	●	5		2		3
32-21-W32-L200	32	16	32	200	-	100	21.4	●	1	2FB320 E214	2	-	-
32-21-32-L180	32	16	32	180	-	100	21.4	●	2		2	-	-
32-21-32-L300	32	16	32	300	-	130	21.4	●	2		2	-	-
32-44-32-L160-P	32	16	32	160	-	66.4	44.7	●	5		2		2
32-44-32-L200-P	32	16	32	200	-	83.7	44.7	●	5		2	APKT 1204 E226	2
32-44-32-L250-P	32	16	32	250	-	123.7	44.7	●	5		2		2
32-44-32-L300-P	32	16	32	300	-	143.7	44.7	●	5		2		2

Cutting Condition
E271-E273

DUETBALL

Modular heads



Designation		Dimension (mm)							Coolant hole	Insert
		DCX	RE	DCONMS	LF	OAL	THSZMS	APMX		
2F 16-11-M08	2	16	8	13	25	42.5	M08	11.8	●	2FB160...
20-13-M10	2	20	10	18	30	50	M10	13.6	●	2FB200...
25-17-M12	2	25	12.5	21	35	57	M12	17.7	●	2FB250...
30-20-M16	2	30	15	29	43	68	M16	20.0	●	2FB300...
32-21-M16	2	32	16	29	43	68	M16	21.4	●	2FB320...
										E214

• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw		Wrench		
	Ball	Periphery	Ball	Periphery	
2FB160/APKT 09T3	TS 25064I	TS 25055I/HG	TD 8	TD 8	
2FB200/APKT 09T3	TS 30085I/HG	TS 25055I/HG	TD 9	TD 8	
2FB250/APKT 09T3	TS 35085I/HG	TS 25055I/HG	TD 15	TD 8	
2FB300/APKT 1204	TS 40A100I	TS 35A088I/HG	TD 15	TD 10P	
2FB320/APKT 1204	TS 40A115I	TS 35A088I/HG	TD 15	TD 10P	

Cutting Condition
E271-E273

End mills

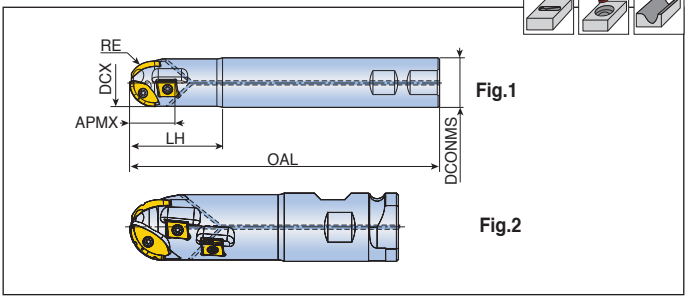


Fig.1

Fig.2

Designation	Dimension (mm)						Fig.	Insert					
	DCX	RE	DCONMS	OAL	LH	APMX		Ball1		Ball2		Periphery	
3F 32-39-W32-150	32	16	32	150	60	39	1	3FB320C-M E215	1	3FB320P-M E215	2	CNHX 131108T E235	2
32-39-W32-200	32	16	32	200	60	39	1		1		2		2
32-39-W32-250	32	16	32	250	60	39	1		1		2		2
50-54-W40-150	50	25	40	150	70	54	1	3FB500C-M E215	1	3FB500P-M E215	2	CNHX 160608T E235	2
50-80-W50-200	50	25	50	200	110	80	1		1		2		4
50-80-W50-250	50	25	50	250	110	80	1		1		2		4
3F 50-68-CN50.8-200	50	25	50.8	200	115	68	2		1		2		3
50-94-CN50.8-250	50	25	50.8	250	165	94	2		1		2		5

• When machining over 'APMX', please calculate Z=1 • Coolant through type

Spare parts

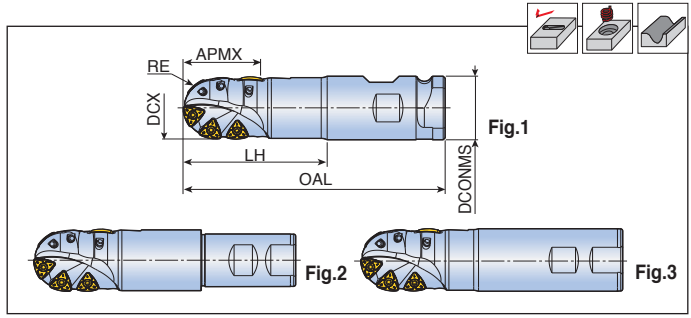
Designation	Screw	Wrench			
3F 32	TS 40093I	TD 15	-		
3F 50	TS 50115I	-	T-T20		

Cutting Condition
E271-E273

TDB50X-CN/-W

CHASE2BALL

End mills



Designation		Dimension (mm)						Fig.	Insert
		DCX	RE	DCONMS	OAL	LH	APMX		
TDB50X 59-CN50.8-L200	6	50	25	50.8	200	110	59	1	6RBE 50-M...
69-CN50.8-L250	7	50	25	50.8	250	160	69	1	E222
TDB50X 59-W40-L200	6	50	25	40	200	128	59	2	
69-W40-L250	7	50	25	40	250	178	69	2	
59-W42-L200	6	50	25	42	200	128	59	2	
69-W42-L250	7	50	25	42	250	178	69	2	
59-W50-L200	6	50	25	50	200	90	59	3	
69-W50-L250	7	50	25	50	250	140	69	3	

Spare parts

Designation	Screw	Wrench			
					
TDB50X	TS50B106I/HG	T-T20			

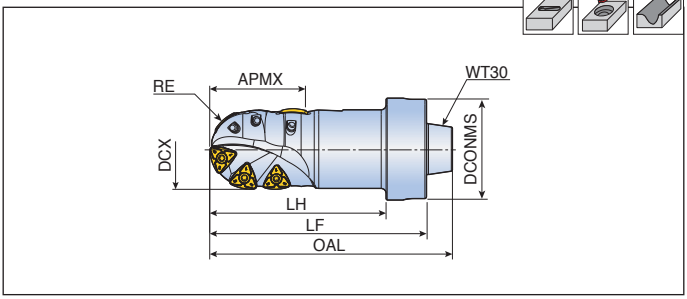
Cutting Condition E271-E273

ADVANCE CUTTING TaeguTec

TDB50X-WT

CHASE2BALL

End mills



Designation		Dimension (mm)							Insert
		DCX	RE	DCONMS	OAL	LH	LF	APMX	
TDB50X 59-WT30-L150	6	50	25	63	150	109	134	59	6RBE 50-M...
69-WT30-L200	7	50	25	63	200	159	184	69	E222

Spare parts

Designation	Screw	Wrench			
TDB50X-WT	TS50B106I/HG	T-T20			

Cutting Condition
E271-E273

TaeguTec

High feed end mills

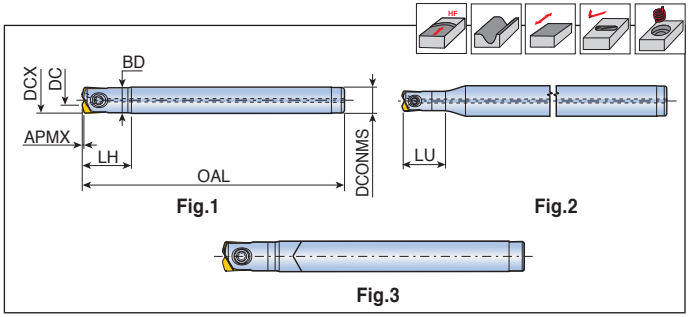


Fig.1 Fig.2

Fig.3

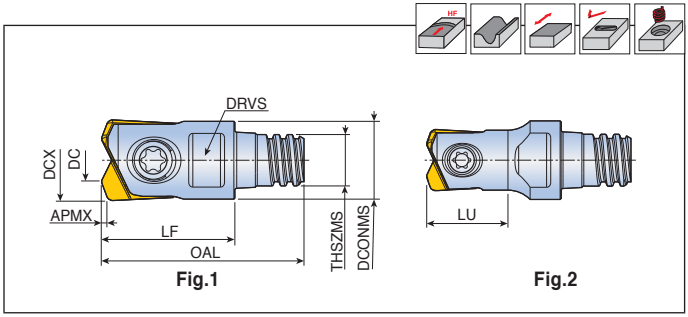
Designation		Dimension (mm)								Coolant hole	Fig.	Insert
		DCX	DC	DCONMS	BD	OAL	LH	LU	APMX			
THFN 060-06-L80	2	6	3	6	5.8	80	13	-	0.3	●	1	HFN 060...
060-10-L120	2	6	3	10	5.8	120	-	13	0.3	●	2	
080-08-L80	2	8	4	8	7.6	80	18	-	0.5	●	1	HFN 080...
080-12-L140	2	8	4	12	7.6	140	-	18	0.5	●	2	
THFN 060-06-CT-L80	2	6	3	6	5.8	80	20	-	0.3	x	3	HFN 060...
060-06-CT-L140	2	6	3	6	5.8	140	25	-	0.3	x	3	
080-08-CT-L80	2	8	4	8	7.6	80	20	-	0.5	x	3	HFN 080...
080-08-CT-L160	2	8	4	8	7.6	160	30	-	0.5	x	3	E236

Cutting Condition E271-E273
Ramping Data E330

• THFN-CT is carbide shank end mill

THFN-S

High feed modular heads



Designation		Dimension (mm)									Coolant hole	Fig.	Insert
		DCX	DC	DCONMS	LF	LU	OAL	THSZMS	APMX	DRVS			
THFN 060-S05	2	6	3	7.6	13	7.8	19.7	S05	0.3	5.5	x	2	HFN 060...
THFN 080-S05	2	8	4	7.6	13	-	19.7	S05	0.5	5.5	x	1	HFN 080...
													E236

• Matched with MAXI-RUSH holder

Spare parts

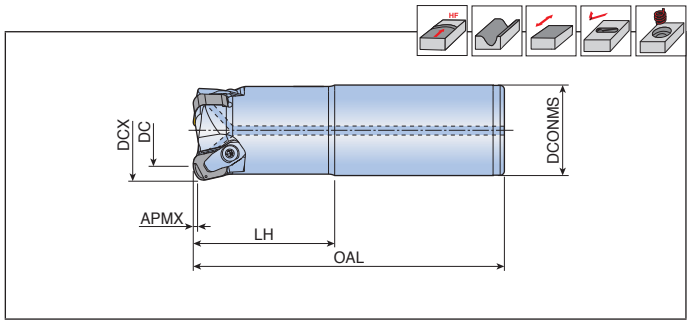
Designation	Screw	Wrench		Wrench handle	
THFN 060	TS 20F060A	TD 6	-	-	
THFN 080	TS 25F080A	-	TBLD T08-W4	THND 4W	

Cutting Condition E271-E273
Ramping Data E330

TEBN-09CH

CERAMICSFEED

High feed end mills



Designation		Dimension (mm)						Air hole (1)	Insert
		DCX	DC	DCONMS	OAL	LH	APMX		
TEBN 225-25-09CH-L100	2	25	14.8	25	100	40	1.5	x	BNGX 0904...
325-25-09CH-L100	3	25	14.8	25	100	40	1.5	x	E234
332-32-09CH-L120	3	32	21.5	32	120	40	1.5	●	
440-32-09CH-L120	4	40	29.4	32	120	40	1.5	●	

• (1) Use only air (Coolant is prohibited)

Spare parts

Designation	Clamp	Screw	Snap ring	Wrench	
TEBN-09CH	CCL-3S	CLS-35A120	CSR 1.25	L-W 2	

Cutting Condition E271-E273
Ramping Data E344

ADVANCE CUTTING TaeguTec

TEPT-05/10

CHASE10MILL

High feed end mills & modular heads

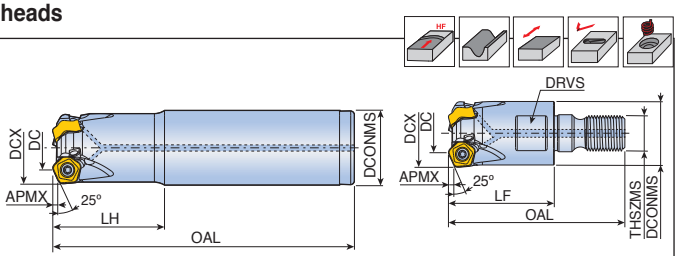


Fig.1 Fig.2

Designation		Dimension (mm)									Coolant hole	Fig.	Insert
		DCX	DC	DCONMS	LF	OAL	THSZMS	LH	DRVS	APMX			
TEPT 320-20-05-L150	3	20	11.9	20	-	150	-	50	-	1.5	●	1	PTKU 0503... E242
425-25-05-L150	4	25	16.8	25	-	150	-	50	-	1.5	●	1	
426-25-05-L200	4	26	17.8	25	-	200	-	30	-	1.5	●	1	
532-32-05-L200	5	32	23.8	32	-	200	-	50	-	1.5	●	1	
533-32-05-L200	5	33	24.8	32	-	200	-	30	-	1.5	●	1	
640-32-05-L200	6	40	31.8	32	-	200	-	30	-	1.5	●	1	
TEPT 320-M10-05	3	20	11.9	18	30	50	M10	-	15	1.5	●	2	
425-M12-05	4	25	16.8	21	35	57	M12	-	17	1.5	●	2	
532-M16-05	5	32	23.8	29	43	68	M16	-	25	1.5	●	2	
640-M16-05	6	40	31.8	29	43	68	M16	-	25	1.5	●	2	
TEPT 340-32-10-L200	3	40	23.5	32	-	200	-	40	-	3.0	●	1	PTKU 1006... E242
TEPT 340-M16-10	3	40	23.5	29	43	68	M16	-	25	3.0	●	2	

• Matched with T-FLEXTEC holder

Spare parts

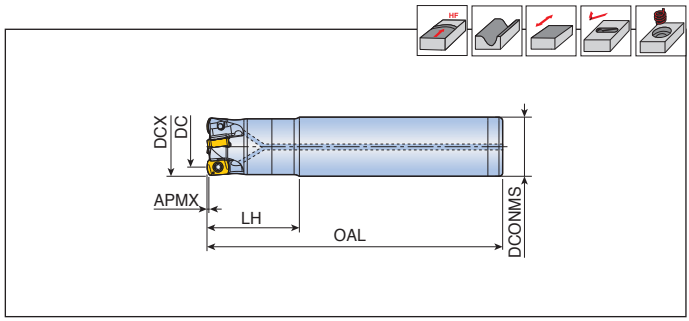
Designation	Screw	Wrench		Wrench handle	
TEPT-05	TS 25D060/HG-P	TD 7P	-	-	
TEPT-10	TS 50D130/HG-P	-	TBLD T20P-W6	THND 6W	

Cutting Condition E271-E273
Ramping Data E328-E329

TEBL-04

CHASE4FEED

High feed end mills



Designation		Dimension (mm)						Coolant hole	Insert
		DCX	DC	DCONMS	OAL	LH	APMX		
TEBL 108-08-04-L80	1	8	3.8	8	80	20	0.5	●	BLMP 0402...
210-10-04-L100	2	10	5.7	10	100	20	0.5	●	E232
211-10-04-L100	2	11	6.6	10	100	20	0.5	●	
312-12-04-L110	3	12	7.6	12	110	20	0.5	●	
313-12-04-L110	3	13	8.6	12	110	20	0.5	●	
416-16-04-L150	4	16	11.6	16	150	25	0.5	●	
417-16-04-L200	4	17	12.6	16	200	25	0.5	●	
520-20-04-L200	5	20	15.5	20	200	25	0.5	●	
521-20-04-L200	5	21	16.5	20	200	25	0.5	●	

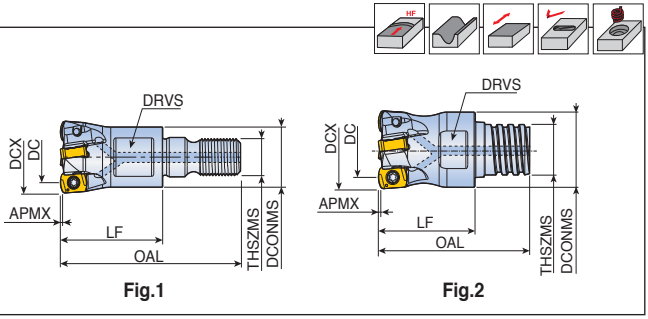
Cutting Condition E271-E273
Ramping Data E331

ADVANCE CUTTING TaeguTec

TEBL-M(S)-04

CHASE4FEED

High feed modular heads



Designation		Dimension (mm)								Coolant hole	Fig.	Insert
		DCX	DC	DCONMS	LF	OAL	THSZMS	APMX	DRVS			
TEBL 210-M06-04	2	10	5.7	9.7	17	31.5	M06	0.5	8	●	1	BLMP 0402... E232
211-M06-04	2	11	6.6	9.7	17	31.5	M06	0.5	8	●	1	
312-M06-04	3	12	7.6	11	17	31.5	M06	0.5	8	●	1	
313-M06-04	3	13	8.6	11	17	31.5	M06	0.5	8	●	1	
416-M08-04	4	16	11.6	13	23	40.5	M08	0.5	10	●	1	
417-M08-04	4	17	12.6	13	23	40.5	M08	0.5	10	●	1	
520-M10-04	5	20	15.5	18	23	43	M10	0.5	15	●	1	
725-M12-04	7	25	20.6	21	27	49	M12	0.5	17	●	1	
832-M16-04	8	32	27.5	29	27	52	M16	0.5	25	●	1	
TEBL 210-S06-04	2	10	5.6	9.6	15	21.3	S06	0.5	8	●	2	
312-S08-04	3	12	7.6	11.5	16	23.5	S08	0.5	10	●	2	
416-S10-04	4	16	11.6	15.2	20	31.3	S10	0.5	13	●	2	

• Matched with T-FLEXTEC holder(Fig.1) & MAXI-RUSH holder(Fig.2)

Spare parts

Designation	Screw	Wrench			
					
TEBL-04	TS 18041I/HG	T 6P			

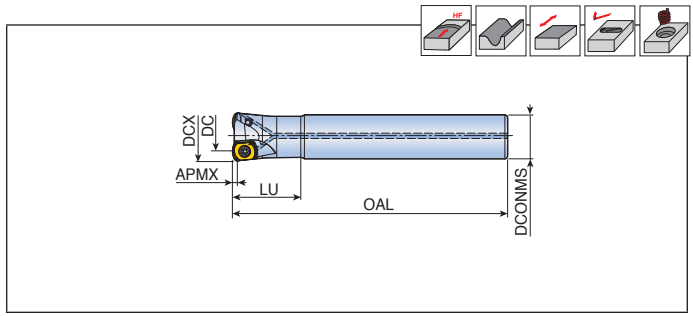
Cutting Condition E271-E273

Ramping Data E331

TEBL-06

CHASE4FEED

High feed end mills



Designation			Dimension (mm)						Coolant hole	Insert
			DCX	DC	DCONMS	OAL	LU	APMX		
TEBL	216-15-06-L150	2	16	9.4	15	150	40	0.7	●	BLMP 0603...
	216-16-06	2	16	9.4	16	150	40	0.7	●	E232
	216-16-06-S	2	16	9.4	16	100	30	0.7	●	
	217-16-06	2	17	10.1	16	150	40	0.7	●	
	217-16-06-S	2	17	10.1	16	100	30	0.7	●	
	217-16-06-L200	2	17	10.1	16	200	20	0.7	●	
	218-16-06	2	18	11.1	16	150	25	0.7	●	
	220-20-06-L200	2	20	12.4	20	200	80	1.0	●	
	320-19-06-L180	3	20	12.4	19	180	80	1.0	●	
	320-20-06	3	20	12.4	20	160	80	1.0	●	
	320-20-06-S	3	20	12.4	20	130	50	1.0	●	
	420-20-06-S	4	20	12.4	20	130	50	1.0	●	
	321-20-06-S	3	21	13.4	20	150	20	1.0	●	
	321-20-06-L200	3	21	13.4	20	200	20	1.0	●	
	325-25-06-L220	3	25	17.3	25	220	50	1.0	●	
	425-24-06-L180	4	25	17.3	24	180	60	1.0	●	
	425-25-06	4	25	17.3	25	180	60	1.0	●	
	425-25-06-S	4	25	17.3	25	140	60	1.0	●	
	525-25-06-S	5	25	17.3	25	140	60	1.0	●	
	425-25-06-L250	4	25	17.3	25	250	40	1.0	●	
	326-25-06-L200	3	26	18.3	25	200	30	1.0	●	
	326-25-06-L250	3	26	18.3	25	250	30	1.0	●	
	426-25-06-S	4	26	18.3	25	150	30	1.0	●	
	426-25-06-L200	4	26	18.3	25	200	30	1.0	●	
	426-25-06-L250	4	26	18.3	25	250	30	1.0	●	
	530-32-06-S	5	30	22.3	32	150	70	1.0	●	
	530-32-06-L200	5	30	22.3	32	200	120	1.0	●	
	432-32-06-S	4	32	24.3	32	150	70	1.0	●	
	532-32-06-S	5	32	24.3	32	150	70	1.0	●	
	532-32-06-L200	5	32	24.3	32	200	120	1.0	●	
	433-32-06-L220	4	33	25.3	32	220	40	1.0	●	
	433-32-06-L300	4	33	25.3	32	300	50	1.0	●	
	533-32-06-S	5	33	25.3	32	150	30	1.0	●	
	533-32-06-L200	5	33	25.3	32	200	40	1.0	●	
	533-32-06-L250	5	33	25.3	32	250	40	1.0	●	

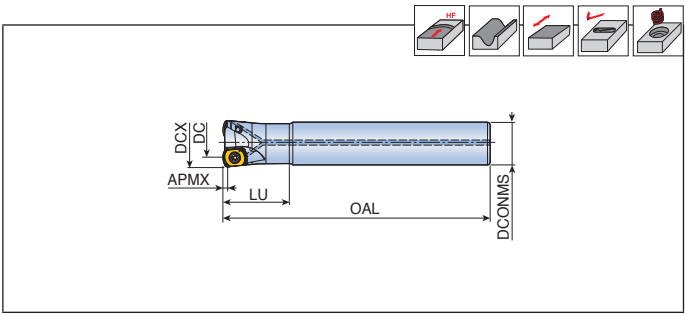
Cutting Condition E271-E273
Ramping Data E332

ADVANCE CUTTING TaeguTec

TEBL-06

CHASE4FEED

High feed end mills



Designation		Dimension (mm)						Coolant hole	Insert
		DCX	DC	DCONMS	OAL	LU	APMX		
TEBL 435-32-06-L200	4	35	27.3	32	200	50	1.0	●	BLMP 0603...
435-32-06-L300	4	35	27.3	32	300	50	1.0	●	E232
535-32-06-L200	5	35	27.3	32	200	50	1.0	●	
535-32-06-L300	5	35	27.3	32	300	50	1.0	●	
540-32-06-L220	5	40	32.2	32	220	40	1.0	●	
640-32-06-S	6	40	32.2	32	150	40	1.0	●	
640-32-06-L220	6	40	32.2	32	220	40	1.0	●	

Spare parts

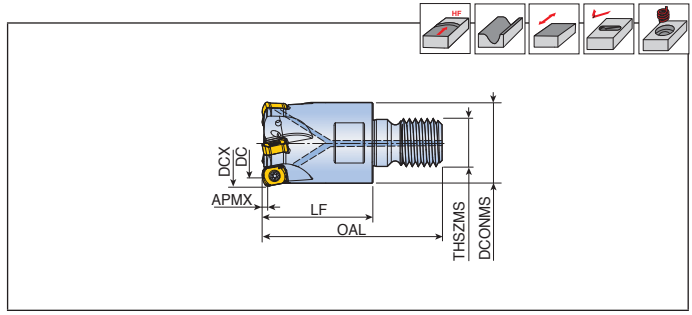
Designation	Screw	Wrench			
					
TEBL-06	TS 25064I/HG-P	TD 8P			

Cutting Condition E271-E273
Ramping Data E332

TEBL-M-06

CHASE4FEED

High feed modular heads



Designation		Dimension (mm)							Coolant hole	Insert
		DCX	DC	DCONMS	LF	OAL	THSZMS	APMX		
TEBL 216-M08-06	2	16	9.4	13	25	42.5	M08	0.7	●	BLMP 0603... E232
217-M08-06	2	17	10.1	13	25	42.5	M08	0.7	●	
218-M08-06	2	18	11.1	13	25	42.5	M08	0.7	●	
220-M10-06	2	20	12.4	18	30	50	M10	1.0	●	
320-M10-06	3	20	12.4	18	30	50	M10	1.0	●	
321-M10-06	3	21	13.4	18	30	50	M10	1.0	●	
322-M10-06	3	22	14.4	18	30	50	M10	1.0	●	
325-M12-06	3	25	17.3	21	35	57	M12	1.0	●	
425-M12-06	4	25	17.3	21	35	57	M12	1.0	●	
326-M12-06	3	26	18.3	21	35	57	M12	1.0	●	
426-M12-06	4	26	18.3	21	35	57	M12	1.0	●	
530-M16-06	5	30	22.3	29	40	65	M16	1.0	●	
432-M16-06	4	32	24.3	29	40	65	M16	1.0	●	
532-M16-06	5	32	24.3	29	40	65	M16	1.0	●	
433-M16-06	4	33	25.3	29	40	65	M16	1.0	●	
533-M16-06	5	33	25.3	29	40	65	M16	1.0	●	
435-M16-06	4	35	27.3	29	43	68	M16	1.0	●	
535-M16-06	5	35	27.3	29	43	68	M16	1.0	●	
640-M16-06	6	40	32.2	29	43	68	M16	1.0	●	
542-M16-06	5	42	34.2	29	43	68	M16	1.0	●	
642-M16-06	6	42	34.2	29	43	68	M16	1.0	●	

• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench			
					
TEBL-06	TS 25064I/HG-P	TD 8P			

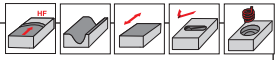
Cutting Condition E271-E273
Ramping Data E332

ADVANCE CUTTING TaeguTec

TEBL-09

CHASE4FEED

High feed end mills



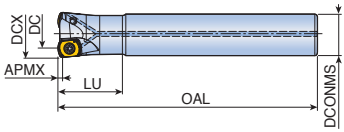


Fig.1

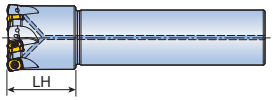


Fig.2

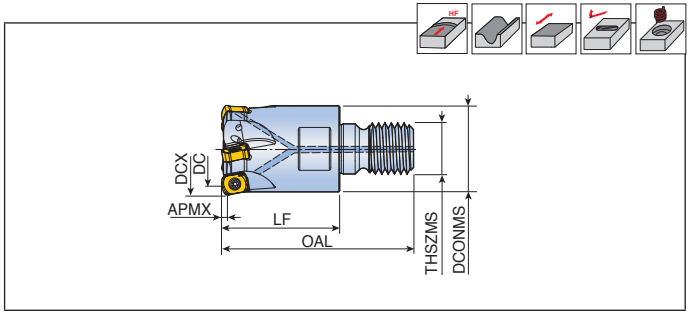
Designation			Dimension (mm)							Coolant hole	Fig.	Insert
			DCX	DC	DCONMS	OAL	LU	LH	APMX			
TEBL	225-25-09-L150	2	25	14.7	25	150	70	-	1.5	●	1	BLMP 0904...
	225-25-09-L200	2	25	14.7	25	200	100	-	1.5	●	1	E232
	325-25-09-L150	3	25	14.7	25	150	70	-	1.5	●	1	
	325-25-09-L200	3	25	14.7	25	200	110	-	1.5	●	1	
	326-25-09-L150	3	26	15.7	25	150	30	-	1.5	●	1	
	326-25-09-L220	3	26	15.7	25	220	30	-	1.5	●	1	
	330-32-09-L160	3	30	19.6	32	160	70	-	1.5	●	1	
	330-32-09-L220	3	30	19.6	32	220	120	-	1.5	●	1	
	332-32-09-L160	3	32	21.6	32	160	70	-	1.5	●	1	
	332-32-09-L220	3	32	21.6	32	220	120	-	1.5	●	1	
	432-32-09-L160	4	32	21.6	32	160	70	-	1.5	●	1	
	432-32-09-L220	4	32	21.6	32	220	120	-	1.5	●	1	
	433-32-09-L180	4	33	22.6	32	180	30	-	1.5	●	1	
	433-32-09-L250	4	33	22.6	32	250	30	-	1.5	●	1	
	440-32-09-L180	4	40	29.6	32	180	-	40	1.5	●	2	
	440-32-09-L250	4	40	29.6	32	250	-	40	1.5	●	2	
	540-32-09-L180	5	40	29.6	32	180	-	40	1.5	●	2	
	540-32-09-L250	5	40	29.6	32	250	-	40	1.5	●	2	

Cutting Condition E271-E273
Ramping Data E333

TEBL-M-09

CHASE4FEED

High feed modular heads



Designation		Dimension (mm)							Coolant hole	Insert
		DCX	DC	DCONMS	LF	OAL	THSZMS	APMX		
TEBL 225-M12-09	2	25	14.7	21	35	57	M12	1.5	●	BLMP 0904... E232
325-M12-09	3	25	14.7	21	35	57	M12	1.5	●	
326-M12-09	3	26	15.7	21	35	57	M12	1.5	●	
330-M16-09	3	30	19.6	29	43	68	M16	1.5	●	
332-M16-09	3	32	21.6	29	43	68	M16	1.5	●	
432-M16-09	4	32	21.6	29	43	68	M16	1.5	●	
433-M16-09	4	33	22.6	29	43	68	M16	1.5	●	
335-M16-09	3	35	24.6	29	43	68	M16	1.5	●	
435-M16-09	4	35	24.6	29	43	68	M16	1.5	●	
440-M16-09	4	40	29.6	29	43	68	M16	1.5	●	
540-M16-09	5	40	29.6	29	43	68	M16	1.5	●	
542-M16-09	5	42	31.6	29	43	68	M16	1.5	●	

• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench			
TEBL-09	TS 35A088I/HG	TD 10P			

Cutting Condition E271-E273
Ramping Data E333

ADVANCE CUTTING TaeguTec

TEBL-11

CHASE4FEED

High feed end mills & modular heads

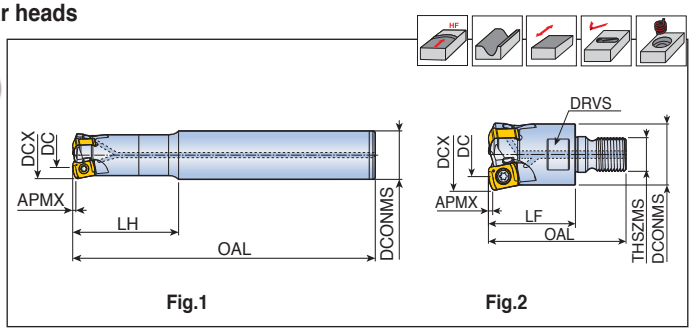


Fig.1 Fig.2

Designation			Dimension (mm)									Coolant hole	Fig.	Insert
			DCX	DC	DCONMS	OAL	THSZMS	LH	LF	DRVS	APMX			
TEBL	**230-32-11-L150**	2	30	14.7	32	150	-	70	-	-	2.0	●	1	BLMP 1105... E232
	232-32-11-L150	2	32	16.6	32	150	-	70	-	-	2.0	●	1	
	232-32-11-L200	2	32	16.6	32	200	-	70	-	-	2.0	●	1	
	332-32-11-L200	3	32	16.6	32	200	-	70	-	-	2.0	●	1	
	233-32-11-L200	2	33	17.6	32	200	-	40	-	-	2.0	●	1	
	233-32-11-L250	2	33	17.6	32	250	-	50	-	-	2.0	●	1	
	333-32-11-L250	3	33	17.6	32	250	-	50	-	-	2.0	●	1	
	335-32-11-L200	3	35	19.5	32	200	-	40	-	-	2.0	●	1	
	340-32-11-L150	3	40	24.4	32	150	-	40	-	-	2.0	●	1	
	340-32-11-L200	3	40	24.4	32	200	-	40	-	-	2.0	●	1	
	440-32-11-L200	4	40	24.4	32	200	-	40	-	-	2.0	●	1	
TEBL	**230-M16-11**	2	30	14.7	29	68	M16	-	43	25	2.0	●	2	
	232-M16-11	2	32	16.6	29	68	M16	-	43	25	2.0	●	2	
	233-M16-11	2	33	17.6	29	68	M16	-	43	25	2.0	●	2	
	335-M16-11	3	35	19.5	29	68	M16	-	43	25	2.0	●	2	
	340-M16-11	3	40	24.4	29	68	M16	-	43	25	2.0	●	2	
	342-M16-11	3	42	26.4	29	68	M16	-	43	25	2.0	●	2	

• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench	Wrench handle		
					
TEBL-11	TS 50A121I/HG	TBLD T20-W6	THND 6W		

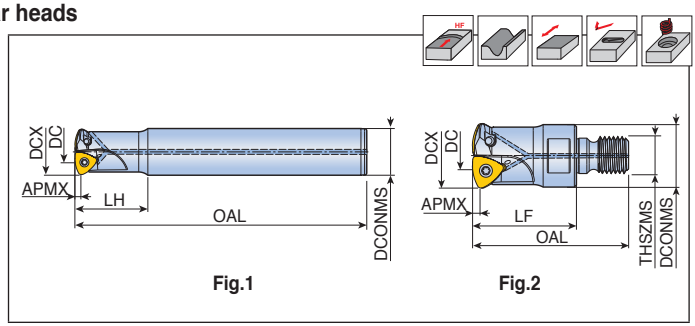
Cutting Condition E271-E273

Ramping Data E334

TEBL-13

CHASE2FEED

High feed end mills & Modular heads



Designation		Dimension (mm)								Coolant hole	Fig.	Insert
		DCX	DC	DCONMS	OAL	THSZMS	LH	LF	APMX			
TEBL 232-32-13-L150	2	32	12.9	32	150	-	50	-	2.0	●	1	BLMP 1306...
232-32-13-L200	2	32	12.9	32	200	-	80	-	2.0	●	1	E233
232-32-13-L	2	32	12.9	32	200	-	120	-	2.0	●	1	
233-32-13-L200	2	33	14.3	32	200	-	50	-	2.0	●	1	
233-32-13-L250	2	33	14.3	32	250	-	50	-	2.0	●	1	
235-32-13-L200	2	35	16.1	32	200	-	30	-	2.0	●	1	
240-42-13-XL	2	40	20.7	42	300	-	120	-	2.0	●	1	
340-32-13-L150	3	40	20.7	32	150	-	40	-	2.0	●	1	
340-32-13-L200	3	40	20.7	32	200	-	70	-	2.0	●	1	
340-42-13-S	3	40	20.7	42	150	-	70	-	2.0	●	1	
TEBL 232-M16-13	2	32	12.9	30	75	M16	-	50	2.0	●	2	
233-M16-13	2	33	14.3	30	75	M16	-	50	2.0	●	2	
235-M16-13	2	35	16.1	30	75	M16	-	50	2.0	●	2	
340-M16-13	3	40	20.7	30	75	M16	-	50	2.0	●	2	
342-M16-13	3	42	22.6	30	75	M16	-	50	2.0	●	2	

• Matched with T-FLEXTEC holder

Spare parts

Designation	Screw	Wrench			
					
TEBL-13	TS50B106I/HG	T-T20			

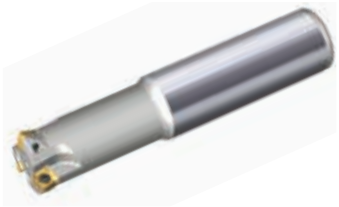
Cutting Condition E271-E273
Ramping Data E335

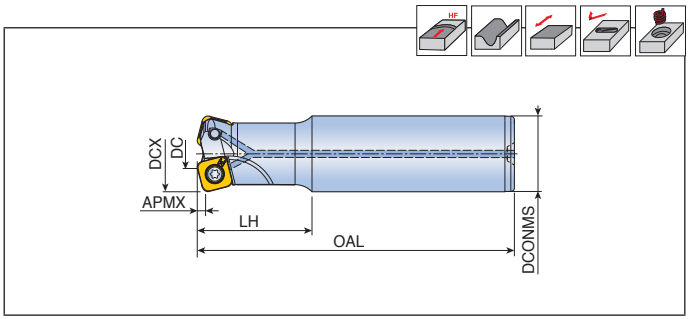
ADVANCE CUTTING TaeguTec

TESB-06/09

CHASEFEED

High feed end mills





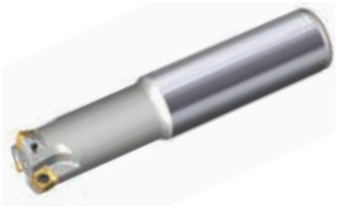
Designation		Dimension (mm)						Coolant hole	Insert
		DCX	DC	DCONMS	OAL	LH	APMX		
TESB 216-16-06-L150	2	16	5.9	16	150	40	1.0	●	SBMT 0603... 247
217-16-06-L200	2	17	6.8	16	200	20	1.0	●	
320-20-06-L160	3	20	9.8	20	160	50	1.0	●	
420-20-06-L130	4	20	9.8	20	130	50	1.0	●	
321-20-06-L200	3	21	10.7	20	200	20	1.0	●	
425-25-06-L180	4	25	14.8	25	180	60	1.0	●	
525-25-06-L140	5	25	14.8	25	140	60	1.0	●	
532-32-06-L200	5	32	21.8	32	200	80	1.0	●	
TESB 225-25-09-L150	2	25	10.8	25	150	70	1.2	●	SBMT 0904... E247
225-25-09-L200	2	25	10.8	25	200	70	1.2	●	
325-25-09-L150	3	25	10.8	25	150	70	1.2	●	
325-25-09-L200	3	25	10.8	25	200	70	1.2	●	
226-25-09-L200	2	26	11.7	25	200	30	1.2	●	
226-25-09-L250	2	26	11.7	25	250	30	1.2	●	
326-25-09-L150	3	26	11.7	25	150	30	1.2	●	
326-25-09-L200	3	26	11.7	25	200	30	1.2	●	
326-25-09-L250	3	26	11.7	25	250	30	1.2	●	
330-32-09-L200	3	30	15.5	32	200	70	1.2	●	
332-32-09-L160	3	32	17.4	32	160	70	1.2	●	
332-32-09-L200	3	32	17.4	32	200	70	1.2	●	
332-32-09-L300	3	32	17.4	32	300	70	1.2	●	
432-32-09-L160	4	32	17.4	32	160	70	1.2	●	
432-32-09-L220	4	32	17.4	32	220	70	1.2	●	
233-32-09-L250	2	33	18.4	32	250	30	1.2	●	
333-32-09-L250	3	33	18.4	32	250	30	1.2	●	
333-32-09-L300	3	33	18.4	32	300	30	1.2	●	
433-32-09-L180	4	33	18.4	32	180	30	1.2	●	
433-32-09-L250	4	33	18.4	32	250	30	1.2	●	
335-32-09-L250	3	35	20.4	32	250	30	1.2	●	
440-32-09-L250	4	40	25.4	32	250	40	1.2	●	
440-32-09-L300	4	40	25.4	32	300	40	1.2	●	
540-32-09-L180	5	40	25.4	32	180	40	1.2	●	
540-32-09-L250	5	40	25.4	32	250	40	1.2	●	

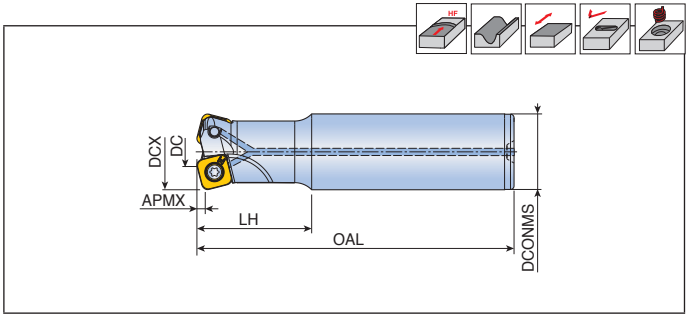
Cutting Condition E271-E273
Ramping Data E336-E337

TESB-13

CHASEFEED

High feed end mills





Designation			Dimension (mm)						Coolant hole	Insert
			DCX	DC	DCONMS	OAL	LH	APMX		
TESB	**232-32-13-L150**	2	32	11.6	32	150	50	2.0	●	SBMT 1306... E247
	232-32-13-L200	2	32	11.6	32	200	80	2.0	●	
	233-32-13-L200	2	33	12.6	32	200	30	2.0	●	
	233-32-13-L250	2	33	12.6	32	250	50	2.0	●	
	235-32-13-L200	2	35	14.6	32	200	30	2.0	●	
	340-32-13-L150	3	40	19.5	32	150	30	2.0	●	
	340-32-13-L200	3	40	19.5	32	200	30	2.0	●	
	342-32-13-L200	3	42	21.5	32	200	30	2.0	●	

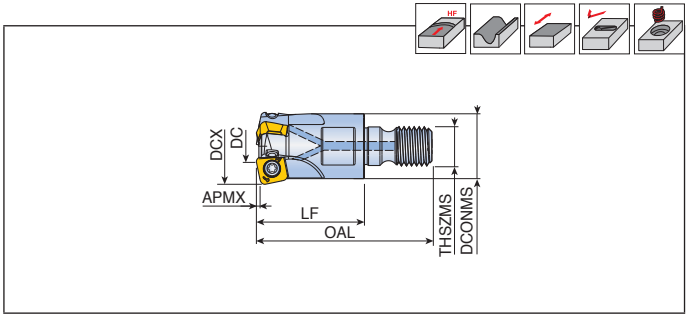
Cutting Condition E271-E273
Ramping Data E338

ADVANCE CUTTING TaeguTec

TESB-M-06/09/13

CHASEFEED

High feed modular heads



Designation		Dimension (mm)							Coolant hole	Insert
		DCX	DC	DCONMS	LF	OAL	THSZMS	APMX		
TESB 216-M08-06	2	16	5.9	13	25	42.5	M08	1.0	●	SBMT 0603... E247
320-M10-06	3	20	9.8	18	30	50	M10	1.0	●	
425-M12-06	4	25	14.8	21	35	57	M12	1.0	●	
532-M16-06	5	32	21.8	29	40	65	M16	1.0	●	
TESB 225-M12-09	2	25	10.8	21	35	57	M12	1.2	●	SBMT 0904... E247
325-M12-09	3	25	10.8	21	35	57	M12	1.2	●	
332-M16-09	3	32	17.4	29	43	68	M16	1.2	●	
432-M16-09	4	32	17.4	29	43	68	M16	1.2	●	
435-M16-09	4	35	20.4	29	43	68	M16	1.2	●	
440-M16-09	4	40	25.4	29	43	68	M16	1.2	●	
540-M16-09	5	40	25.4	29	43	68	M16	1.2	●	
542-M16-09	5	42	27.4	29	43	68	M16	1.2	●	
TESB 232-M16-13	2	32	11.6	29	50	75	M16	2.0	●	SBMT 1306... E247
233-M16-13	2	33	12.6	29	50	75	M16	2.0	●	
340-M16-13	3	40	19.5	29	50	75	M16	2.0	●	
342-M16-13	3	42	21.5	29	50	75	M16	2.0	●	

• Matched with T-FLEXTEC holder

Spare parts

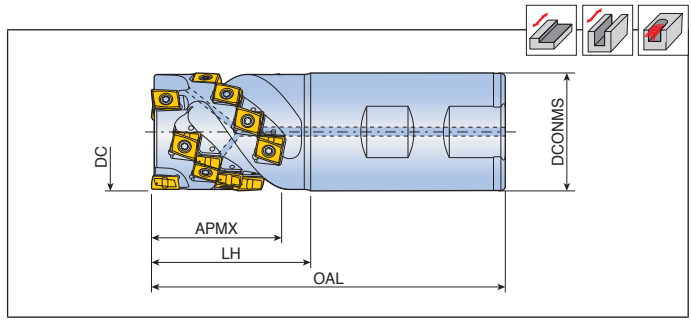
Designation	Screw	Wrench			
TESB-06	TS 250648I/HG-P	TD 8P	-		
TESB-09	TS 35A088I/HG	TD 10P	-		
TESB-13	TS 50115I	-	T-T20		

Cutting Condition E271-E273
Ramping Data E336-E338

4T-TEF-05/09

TANGSFEED

Extended flute cutters



90°

Designation		No. of insert	Dimension (mm)					Coolant hole	Insert
			DC	DCONMS	OAL	LH	APMX		
4T-TEF	D16-15-W16-05	2	8	16	16	80	28	15	●	LPK(H)U 0502... E238
	D20-23-W20-05	3	18	20	20	85	33	23	●	
	D25-27-W25-05	4	28	25	25	95	35	27	●	
4T-TEF	D25-36-W25-09	2	10	25	25	100	43	36	●	LPK(H)U 0904... E238
	D32-36-W32-09	3	15	32	32	105	44	36	●	
	D32-43-W32-09	3	18	32	32	115	52	43	●	
	D40-43-W40-09	3	18	40	40	125	54	43	●	
	D40-51-W40-09	3	21	40	40	135	64	51	●	

Spare parts

Designation	Screw	Wrench		Wrench handle	
4T-TEF-05	TS 18049/HG-P	TD 6P	-	-	
4T-TEF-09	TS 30D082-P	-	TBLD T08P-W4	THND 4W	

Cutting Condition E271-E273

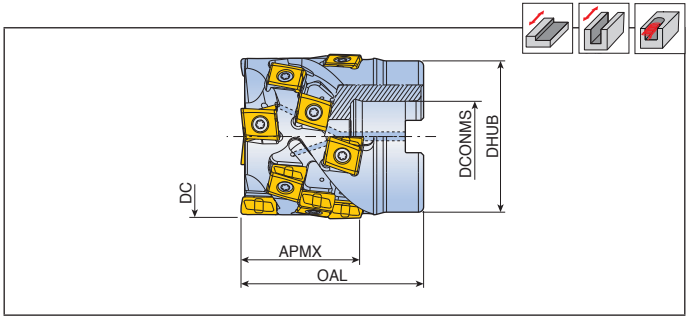
ADVANCE CUTTING TaeguTec

4T-TES-14

TANGSFEED

Extended flute cutters

90°



Designation		No. of insert	Dimension (mm)					Coolant hole	Kg	Mounting bolt	Insert
			DC	DCONMS	DHUB	OAL	APMX				
4T-TES	**D50-34-22R-14**	3	9	50	22	45	55	34	•	0.5	SH M10x40	LPKU 1407... E238
	D50-45-22R-14	3	12	50	22	45	65	45	•	0.6	SH M10x50	
	D63-45-27R-14	4	16	63	27	58	70	45	•	1.1	SH M12x50	
	D63-56-27R-14	4	20	63	27	58	80	56	•	1.3	SH M12x60	
	D80-56-32R-14	5	25	80	32	74	85	56	•	2.3	SH M16x60	
	D100-56-40R-14	6	30	100	40	94	90	56	•	4.1	SH M20x60	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

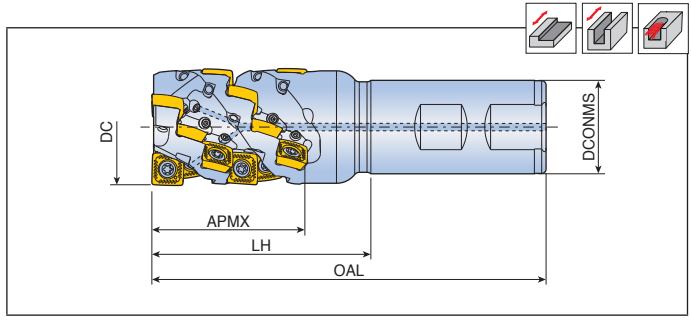
Spare parts

Designation	Screw	Wrench	Wrench handle		
					
4T-TES-14	TS 40G110I	TBLD T15-W6	SW6-T		

Cutting Condition E271-E273
Arbor Style E274-E275

4S-TEF-11V

Extended flute cutters



90°

Designation		No. of insert	Dimension (mm)					Coolant hole	Insert
			DC	DCONMS	OAL	LH	APMX		
4S-TEF-	**D32-52-W32-11V-2F**	2	12	32	32	135	70	52	●	SVK(H)T 1145... E258
	D40-52-W32-11V-3F	3	18	40	32	135	75	52	●	
	D40-60-W32-11V-3F	3	21	40	32	180	85	60	●	
	D50-52-W40-11V-4F	4	24	50	40	145	75	52	●	
	D50-77-W40-11V-4F	4	36	50	40	170	100	77.9	●	

Spare parts

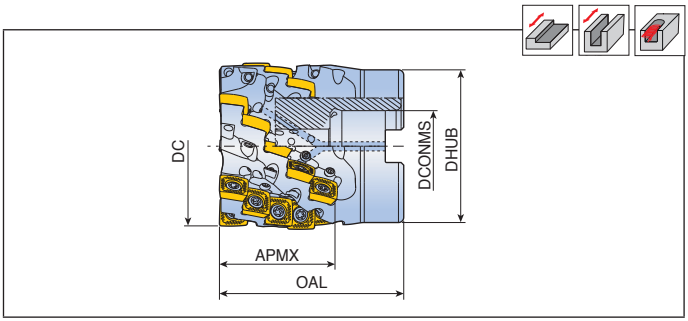
Designation	Screw	Wrench	Wrench handle	Coolant Nozzle	
4S-TEF-11V	TS 40093I/HG	TBLD T15-W6	THND 6W	SS 3003-06C	

Cutting Condition E271-E273

4S-TES-11V

CHASE QUAD

Extended flute cutters



90°

Designation	No. of insert	Dimension (mm) DC	DCONMS	DHUB	OAL	APMX	Coolant hole	Arbor style	Kg	Mounting bolt	Insert
4S-TES-D40-27-16R-11V-3F	3	9	40	16	38	55	27	●	A	0.3	SH M8x40	SVK(H)T 1145... E258
D50-43-22R-11V-4F	4	20	50	22	45	65	43	●	A	0.6	SH M10x50	
D50-69-22R-11V-4F	4	32	50	22	45	90	69	●	A	0.8	SH M10x80	
D63-60-27R-11V-5F	5	35	63	27	58	85	60	●	A	1.2	SH M12x60	
D63-69-27R-11V-5F	5	40	63	27	58	93	69	●	A	1.4	SH M12x80	
D80-76-32R-11V-6F	6	54	80	32	76	100	76	●	A	2.6	SH M16x80	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

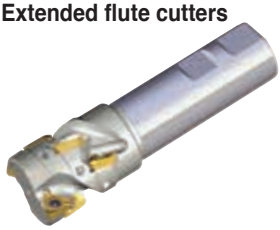
Designation	Screw	Wrench	Wrench handle	Coolant Nozzle	
4S-TES-11V	TS 40093I/HG	TBLD T15-W6	SW6-T	SS 3003-06C	

Cutting Condition E271-E273
Arbor Style E274-E275

3P TEF-06/10/15/19

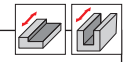
MILLRUSH

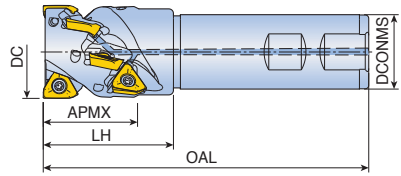
Extended flute cutters



90°

90°	Splitter
	 15,19





Designation		No. of insert	Dimension (mm)					Coolant hole	Insert
			DC	DCONMS	OAL	LH	APMX		
3P TEF	**D20-20-W20-06**	2	10	20	20	85	33	20	x	3PK(H)T 0603...
	D25-24-W25-06	3	18	25	25	95	39	24	●	
	D32-32-W32-06	4	32	32	32	105	43	32	●	
3P TEF	**D32-42-W32-10**	2	14	32	32	120	56	42	●	3PK(H)T 1004...
	D40-42-W32-10	3	21	40	32	130	56	42	●	
3P TEF	**D40-40-W32-15**	2	8	40	32	140	56	40	●	3PK(H)T 1505...
3P TEF	**D50-55-W40-19**	2	8	50	40	150	75	55	●	3PK(H)T 1906... E216-E217

Spare parts

Designation	Screw	Wrench			
					
3P TEF-06	TS 20043I/HG-P	TD 6P	-		
3P TEF-10	TS 25C065I/HG	TD 8	-		
3P TEF-15	TS 40B100I	TD 15	-		
3P TEF-19	TS 45120I	-	T-T20		

Cutting Condition E271-E273

ADVANCE CUTTING TaeguTec

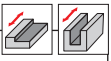
3P TES-10/15/19

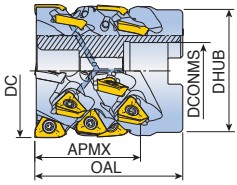
MILLRUSH

Extended flute cutters

90°

90°	Splitter
	 15,19





Designation		No. of insert	Dimension (mm) DC	DCONMS	DHUB	OAL	APMX	Coolant hole	Kg	Mounting bolt	Insert
3P TES	**D50-48-22R-10**	4	32	50	22	45	65	48	•	0.6	SH M10x50	3PK(H)T 1004...
	D63-54-27R-10	4	36	63	27	58	75	54	•	1.2	SH M12x50	
3P TES	**D50-40-22R-15-2F**	2	8	50	22	45	65	40	•	0.6	SH M10x50	3PK(H)T 1505...
	D50-40-22R-15	3	12	50	22	45	65	40	•	0.6	SH M10x50	
	D63-50-27R-15	4	20	63	27	58	70	50	•	1.0	SH M12x50	
	D80-60-32R-15	4	24	80	32	77	75	60	•	2.0	SH M16x50	
	D100-78-40R-15-4F	4	32	100	40	96	110	78	•	5.0	SH M20x80	
3P TES	**D63-42-27R-19**	3	9	63	27	58	70	42	•	1.0	SH M12x50	3PK(H)T 1906... E216-E217
	D63-42-27R-19-4F	4	12	63	27	58	70	42	•	1.0	SH M12x50	
	D80-56-32R-19	4	16	80	32	76	75	56	•	1.7	SH M16x50	
	D100-83-40R-19-4F	4	24	100	40	96	110	83	•	4.4	SH M20x80	
	D100-83-40R-19	5	30	100	40	96	110	83	•	4.5	SH M20x80	
	D100-83-40R-19-6F	6	36	100	40	96	110	83	•	4.6	SH M20x80	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

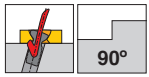
Designation	Screw	Wrench			
					
3P TES-10	TS 25C065I/HG	TD 8	-		
3P TES-15	TS 40B100I	TD 15	-		
3P TES-19	TS 45120I	-	T-T20		

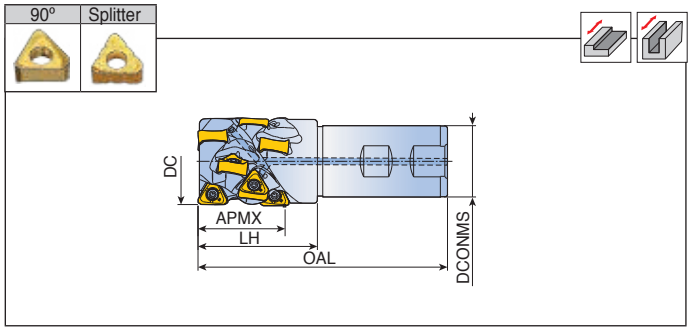
Cutting Condition E271-E273
Arbor Style E274-E275

TaeguTec

TEF-TN18

Extended flute cutters





Designation		No. of insert	Dimension (mm)					Coolant hole	Insert
			DC	DCONMS	OAL	LH	APMX		
TEF	D50-48-W40-TN18-2F	2	50	40	140	67	48	●	TNMX 1806...
	D50-48-W40-TN18	3	50	40	140	67	48	●	E261

Spare parts

Designation	Screw	Wrench			
TEF-TN18	TS 40B100I	T-T15			

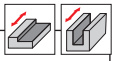
Cutting Condition
E271-E273

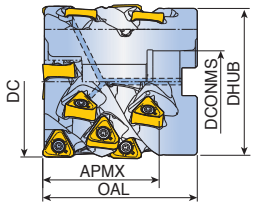
TES-TN18

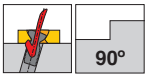
MILL2RUSH

Extended flute cutters

90°	Splitter
	







Designation	No. of insert	Dimension (mm) DC	DCONMS	DHUB	OAL	APMX	Coolant hole	Kg	Mounting bolt	Insert
TES D63-48-27R-TN18-2F	2	8	63	27	60	70	48	●	1.2	SH M12x50	TNMX 1806... E261
D63-48-27R-TN18	3	12	63	27	60	70	48	●	1.1	SH M12x50	
D80-60-32R-TN18	4	20	80	32	76	80	60	●	2.2	SH M16x60	
D100-71-40R-TN18-4F	4	24	100	40	96	100	71	●	4.5	SH M20x70	
D100-71-40R-TN18	5	30	100	40	96	100	71	●	4.4	SH M20x70	
D100-71-40R-TN18-6F	6	36	100	40	96	100	71	●	4.4	SH M20x70	

Spare parts

Designation	Screw	Wrench			
					
TES-TN18	TS 40B100I	T-T15			

Cutting Condition E271-E273
Arbor Style E274-E275

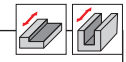
TEF-AN11/16

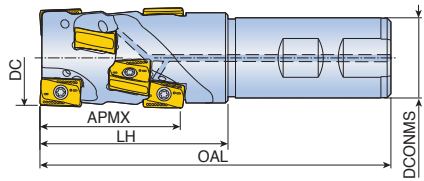
CHASE2MILL

Extended flute cutters

90°

90°	Splitter
	





Designation		No. of insert	Dimension (mm)					Coolant hole	Insert
			DC	DCONMS	OAL	LH	APMX		
TEF **D32-40-W32-AN11**	2	8	32	32	110	48	40	●	ANM(H)X 1106··· E224
D40-40-W32-AN11	3	12	40	32	125	50	40	●	
TEF **D40-42-W32-AN16**	2	6	40	32	120	55	42	●	ANM(H)X 1607··· E224
D40-56-W32-AN16	2	8	40	32	140	75	56	●	
D50-56-W40-AN16	3	12	50	40	140	70	56	●	

Spare parts

Designation	Screw	Wrench			
					
TEF-AN11	TS 35A088I/HG	TD 10P	-		
TEF-AN16	TS 40120I/HG	-	T-T15		

Cutting Condition E271-E273

ADVANCE CUTTING TaeguTec

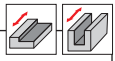
TES-AN11/16

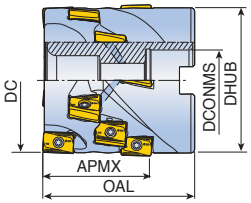
CHASE2MILL

Extended flute cutters

90°

90°	Splitter
	





Designation		No. of insert	Dimension (mm)					Coolant hole	Kg	Mounting bolt	Insert
			DC	DCONMS	DHUB	OAL	APMX				
TES	D50-40-22R-AN11	3	12	50	22	45	60	40	•	0.6	SH M10x40	ANM(H)X 1106··· E224
	D63-60-27R-AN11	4	24	63	27	60	80	60	•	1.3	SH M12x60	
	D80-60-32R-AN11	5	30	80	32	76	80	60	•	2.3	SH M16x60	
TES	D50-42-22R-AN16	2	6	50	22	47	65	42	•	0.7	SH M10x40	ANM(H)X 1607··· E224
	D63-42-27R-AN16	3	9	63	27	60.5	70	42	•	1.1	SH M12x50	
	D63-56-27R-AN16	3	12	63	27	60.5	80	56	•	1.3	SH M12x50	
	D80-56-32R-AN16	4	16	80	32	76.5	80	56	•	2.2	SH M16x50	
	D100-69-40R-AN16	5	25	100	40	96.4	100	69	•	4.5	SH M20x60	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
					
TES-AN11	TS 35A088I/HG	TD 10P	-		
TES-AN16	TS 40120I/HG	-	T-T15		

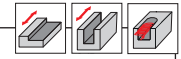
Cutting Condition E271-E273
Arbor Style E274-E275

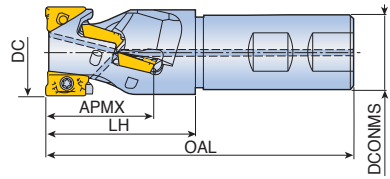
TEF-AP(AX)

Extended flute cutters

90°

90°	Splitter
	 12,17





Designation		No. of insert	Dimension (mm)					Coolant hole	Insert
			DC	DCONMS	OAL	LH	APMX		
TEF	D16-16-W16-AX06	2	6	16	16	80	28	16	x	AXM(C)T 0602...
	D20-21-W20-AX06	3	12	20	20	85	33	21	●	E231
	D25-26-W25-AX06	4	20	25	25	95	38	26	●	
2S-TEF	D20-25-W20-AP09	1	3	20	20	110	38	26	●	APK(C)T 09T3...
	D25-42-W25-AP09	2	10	25	25	115	48	42	●	E225
	D32-42-W32-AP09	2	10	32	32	120	51	42	●	
TEF	D25-34-W25-AP12	2	6	25	25	120	47	34	●	APK(C)T 1204...
	D32-45-W32-AP12	2	8	32	32	120	58	45	●	E226
	D40-45-W32-AP12	3	12	40	32	140	65	45	●	
TEF	D32-30-W32-AP17	2	4	32	32	120	50	30	●	APK(C)T 1705...
	D40-44-W32-AP17	2	6	40	32	140	65	44	●	E227-E228

Spare parts

Designation	Screw	Wrench			
					
TEF-AX06	TS 18041 I/HG	TD 6P			
2S-TEF-AP09	TS 25055I/HG	TD 8			
TEF-AP12(Ø16-Ø25)	TS 35A070I/HG	TD 10P			
TEF-AP12(Ø32-)	TS 35A088I/HG	TD 10P			
TEF-AP17	TS 40093I/HG	TD 15			

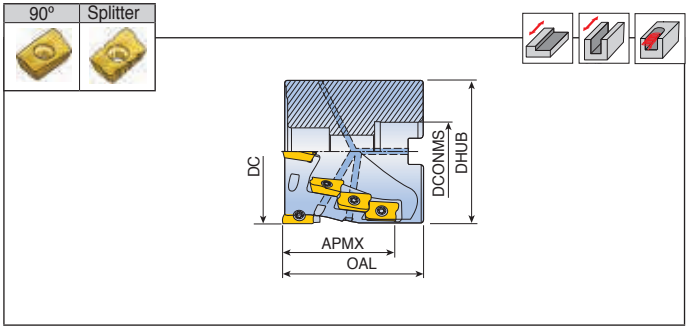
Cutting Condition
E271-E273

TES-AP12/17

CHASEMILL

Extended flute cutters

90°



Designation	No. of insert	Dimension (mm) DC	DCONMS	DHUB	OAL	APMX	Coolant hole	Kg	Mounting bolt	Insert
TES D50-45-22R-AP12	4	16	50	22	47	65	45	•	0.6	SH M10x40	APK(C)T 1204...
D63-56-27R-AP12	5	25	63	27	60	75	56	•	1.2	SH M10x50	E226
TES D50-44-22-AP17	2	6	50	22	48.2	60	44	•	0.5	SH M10x40	APK(C)T 1705...
D63-44-27-AP17	3	9	63	27	60.8	63	44	•	0.9	SH M12x40	E227-E228
D63-44-27-AP17-4F	4	12	63	27	60.8	63	44	•	0.9	SH M12x40	
D80-58-32-AP17	4	16	80	32	78.4	75	58	•	1.9	SH M16x50	
D100-88-40-AP17-4F	4	24	100	40	97.4	110	88	•	4.4	SH M20x80	
D100-88-40-AP17	5	30	100	40	97.4	110	88	•	4.8	SH M20x80	

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
TES-AP12	TS 35A088I/HG	TD 10P	-		
TES-AP17	TS 40093I/HG	-	T-T15		

Cutting Condition E271-E273

Arbor Style E274-E275

TaeguTec

TEF/TES

CHASEQUAD

Extended flute cutters

90°

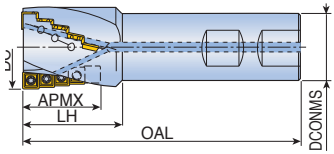


Fig.1

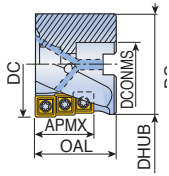


Fig.2

Designation		No. of insert	Dimension (mm)					Coolant hole	Fig.	Insert
			DC	DCONMS	OAL	LH	APMX			
TEF D32-23-W32-09	2	6	32	32	120	40	23.8	●	1	SPMG(T) 090408-EM
D40-38-W32-11	2	8	40	32	130	60	38.9	●	1	SPMG(T)110408-EM
D50-48-W40-11	3	15	50	40	140	70	48.4	●	1	E255
D50-48-W42-11	3	15	50	42	140	70	48.4	●	1	

Designation		No. of insert	Dimension (mm)					Coolant hole	Fig.	Mounting bolt	Insert
			DC	DCONMS	DHUB	OAL	APMX				
TES D50-29-22-11	3	9	50	22	47.3	52	29.0	●	2	SH M10x30	SPMG(T) 110408-EM
D63-35-27-11	4	16	63	27	60.5	55	35.0	●	2	SH M12x35	
D80-47-32-14	4	16	80	32	77.2	65	47.0	●	2	SH M16x40	SPMG(T)140508-EM
											E255

• Mounting bolt with coolant through hole is available on request (ordering example: SH M10x1.5x30-C)

Spare parts

Designation	Screw	Wrench			
TEF (Ø32)	TS 35088I	TD 10	-		
TEF (Ø40-Ø50)	TS 40093I	TD 15	-		
TES (Ø50-Ø63)	TS 40093I	TD 15	-		
TES (Ø80)	TS 50A121I/HG	-	T-T20		

Cutting Condition E271-E273
Arbor Style E274-E275

TSM-W-TS16

TOPSLOT

Slotting cutters: End mills

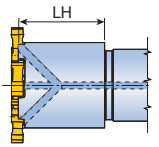


Fig.1

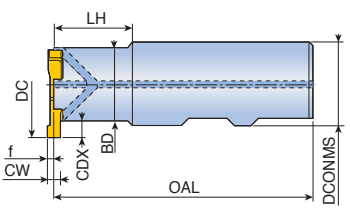


Fig.2

	Designation	CW (mm)		Dimension (mm) DC	DCONMS	BD	OAL	LH	Coolant hole	Fig.	Kg	Insert
TSM	**D32-W25-3Z-TS16**	1.20-4.0	3	32.2	25	21.7	110	52.3	●	2	0.34	TS16-1.2–4.0
	D32-W25-3Z-B-TS16	4.01-6.0	3	32.2	25	21.7	110	52.3	●	2	0.46	TS16-4.01–6.0
	D40-W25-4Z-TS16	1.20-4.0	4	40.0	25	29.7	110	30.0	●	1	0.44	TS16-1.2–4.0
	D40-W25-4Z-B-TS16	4.01-6.0	4	40.0	25	29.7	110	30.0	●	1	0.53	TS16-4.01–6.0
	D50-W32-6Z-TS16	1.20-4.0	6	50.0	32	39.7	110	30.0	●	1	0.75	TS16-1.2–4.0
												E263

• f, CDX: Please refer to insert data

Spare parts

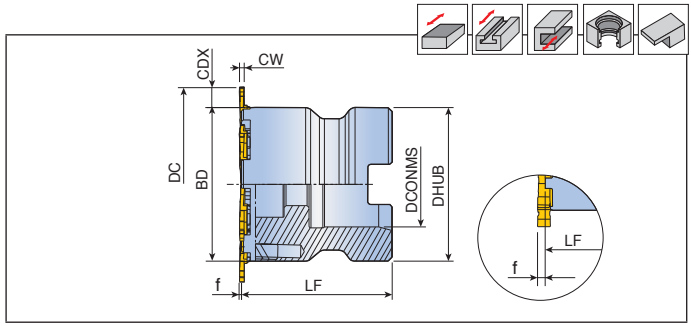
Designation	Screw	Wrench	Wrench handle		
TSM D32-W25-3Z-TS16	TS 40097I-N3.5	BLD T15/S7	SW6-T		
TSM D32-W25-3Z-B-TS16	TS 40097I	BLD T15/S7	SW6-T		
TSM D40-W25-4Z-TS16	TS 40097I-N3.5	BLD T15/S7	SW6-T		
TSM D40-W25-4Z-B-TS16	TS 40097I	BLD T15/S7	SW6-T		
TSM D50-W32-6Z-TS16	TS 40097I-N3.5	BLD T15/S7	SW6-T		

Cutting Condition E271-E273

TSM-TS16

TOPSLOT

Slotting cutters: Flange type



Designation		CW (mm)		Dimension (mm)					Arbor style	Kg	Insert
				DC	DCONMS	DHUB	BD	LF			
TSM	D50-22R-6Z-TS16	1.20-4.0	6	50	22	39.7	39.7	39	A	0.24	TS16-1.20–4.0
	D50-22R-6Z-B-TS16	4.01-6.0	6	50	22	39.7	39.7	39	A	0.24	TS16-4.01–6.0
	D63-22R-8Z-TS16	1.20-4.0	8	63	22	40.0	52.7	39	A	0.40	TS16-1.20–4.0
	D63-22R-8Z-B-TS16	4.01-6.0	8	63	22	40.0	52.7	39	A	0.27	TS16-4.01–6.0
	D80-27R-11Z-TS16	1.20-4.0	11	80	27	69.7	69.7	49	B	0.40	TS16-1.20–4.0
	D80-27R-11Z-B-TS16	4.01-6.0	11	80	27	69.7	69.7	49	B	0.95	TS16-4.01–6.0
											E263

• f, CDX: Please refer to insert data

Spare parts

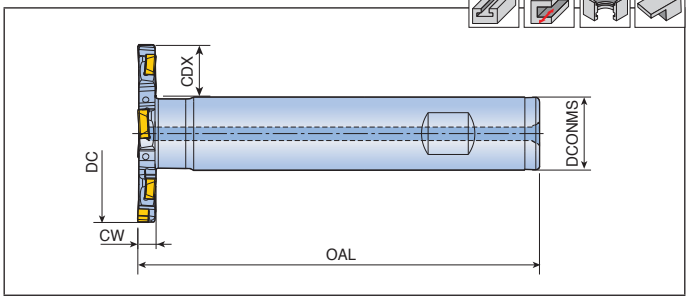
Designation	Screw	Wrench	Wrench handle		
TSM D50-22R-6Z-TS16	TS 40097I-N3.5	BLD T15/S7	SW6-T		
TSM D50-22R-6Z-B-TS16	TS 40097I	BLD T15/S7	SW6-T		
TSM D63-22R-8Z-TS16	TS 40097I-N3.5	BLD T15/S7	SW6-T		
TSM D63-22R-8Z-B-TS16	TS 40097I	BLD T15/S7	SW6-T		
TSM D80-27R-11Z-TS16	TS 40097I-N3.5	BLD T15/S7	SW6-T		
TSM D80-27R-11Z-B-TS16	TS 40097I	BLD T15/S7	SW6-T		

Cutting Condition E271-E273
Arbor Style E274-E275

TSM-W-SL

TOPSLOT

Slotting cutters: End mills



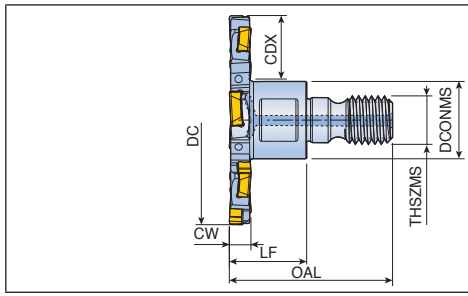
Designation		CW (mm)		Dimension (mm)				Coolant hole	Insert
				DC	DCONMS	OAL	CDX		
TSM	D25-03-W12-SL18	3	1+1	25	12	90	6.5	●	SLOT 018... E250
	D32-03-W16-SL18	3	2+2	32	16	90	8.0	●	
	D40-03-W16-SL18	3	3+3	40	16	105	12.0	●	
	D50-03-W20-SL18	3	4+4	50	20	110	15.0	●	
	D63-03-W20-SL18	3	5+5	63	20	110	21.5	●	
TSM	D25-04-W12-SL23	4	1+1	25	12	90	6.5	●	SLOT 023... E250
	D32-04-W16-SL23	4	2+2	32	16	90	8.0	●	
	D40-04-W16-SL23	4	3+3	40	16	105	12.0	●	
	D50-04-W20-SL23	4	4+4	50	20	110	15.0	●	
	D63-04-W20-SL23	4	5+5	63	20	110	21.5	●	
TSM	D25-05-W12-SL28	5	1+1	25	12	90	6.5	●	SLOT 028... E250
	D32-05-W16-SL28	5	2+2	32	16	90	8.0	●	
	D40-05-W16-SL28	5	3+3	40	16	105	12.0	●	
	D50-05-W20-SL28	5	4+4	50	20	110	15.0	●	
	D63-05-W20-SL28	5	5+5	63	20	110	21.5	●	
TSM	D25-06-W12-SL33	6	1+1	25	12	90	6.5	●	SLOT 033... E250
	D32-06-W16-SL33	6	2+2	32	16	90	8.0	●	
	D40-06-W16-SL33	6	3+3	40	16	105	12.0	●	
	D50-06-W20-SL33	6	4+4	50	20	110	15.0	●	
	D63-06-W20-SL33	6	5+5	63	20	110	21.5	●	

Cutting Condition E271-E273

TSM-M-SL

TOPSLOT

Slotting cutters: modular heads



Designation		CW (mm)		Dimension (mm)						Coolant hole	Insert
				DC	DCONMS	LF	OAL	THSZMS	CDX		
TSM	D25-03-M08-SL18	3	1+1	25	13	18	35.5	M08	6	•	SLOT 018... E250
	D32-03-M08-SL18	3	2+2	32	13	18	35.5	M08	9	•	
	D40-03-M08-SL18	3	3+3	40	13	18	35.5	M08	13	•	
	D50-03-M10-SL18	3	4+4	50	18	18	38	M10	15	•	
	D63-03-M10-SL18	3	5+5	63	18	18	38	M10	22	•	
TSM	D25-04-M08-SL23	4	1+1	25	13	18	35.5	M08	6	•	SLOT 023... E250
	D32-04-M08-SL23	4	2+2	32	13	18	35.5	M08	9	•	
	D40-04-M08-SL23	4	3+3	40	13	18	35.5	M08	13	•	
	D50-04-M10-SL23	4	4+4	50	18	18	38	M10	15	•	
	D63-04-M10-SL23	4	5+5	63	18	18	38	M10	22	•	
TSM	D25-05-M08-SL28	5	1+1	25	13	18	35.5	M08	6	•	SLOT 028... E250
	D32-05-M08-SL28	5	2+2	32	13	18	35.5	M08	9	•	
	D40-05-M08-SL28	5	3+3	40	13	18	35.5	M08	13	•	
	D50-05-M10-SL28	5	4+4	50	18	18	38	M10	15	•	
	D63-05-M10-SL28	5	5+5	63	18	18	38	M10	22	•	
TSM	D25-06-M08-SL33	6	1+1	25	13	18	35.5	M08	6	•	SLOT 033... E250
	D32-06-M08-SL33	6	2+2	32	13	18	35.5	M08	9	•	
	D40-06-M08-SL33	6	3+3	40	13	18	35.5	M08	13	•	
	D50-06-M10-SL33	6	4+4	50	18	18	38	M10	15	•	
	D63-06-M10-SL33	6	5+5	63	18	18	38	M10	22	•	

• Matched with T-FLEXTEC holder

Spare parts

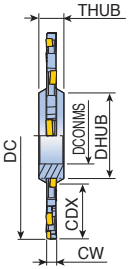
Designation	Screw	Wrench			
TSM...-03...-SL18	TS 25B024I/HG	TD 7P	L-T7P		
TSM...-04...-SL23	TS 25B031I/HG	TD 7P	L-T7P		
TSM...-05...-SL28	TS 25B042I/HG	TD 7P	L-T7P		
TSM...-06...-SL33	TS 25B053I/HG	TD 7P	L-T7P		

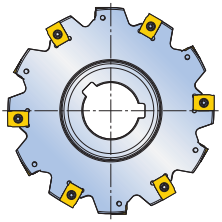
Cutting Condition E271-E273

TSM FD-N-Z

TOPSLOT

Slotting cutters: Fixed pocket disk type





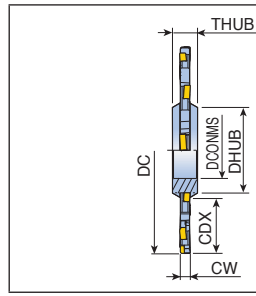
Designation	CW (mm)		Dimension (mm)					Kg	Insert
			DC	DCONMS	DHUB	OAL	CDX		
TSM 063FD-03-22N-Z018	3	4+4	63	22	34	8	12.0	0.1	ZNHT 018... E267
080FD-03-22N-Z018	3	5+5	80	22	34	8	20.5	0.1	
100FD-03-27N-Z018	3	6+6	100	27	41	12	26.0	0.2	
125FD-03-40N-Z018	3	7+7	125	40	55	12	31.5	0.3	
160FD-03-40N-Z018	3	9+9	160	40	55	12	49.0	0.4	
TSM 063FD-04-22N-Z023	4	4+4	63	22	34	8	12.0	0.1	ZNHT 023... E267
080FD-04-22N-Z023	4	5+5	80	22	34	8	21.0	0.1	
100FD-04-27N-Z023	4	6+6	100	27	41	12	27.0	0.2	
125FD-04-40N-Z023	4	7+7	125	40	55	12	32.0	0.4	
160FD-04-40N-Z023	4	9+9	160	40	55	12	50.0	0.6	
TSM 063FD-05-22N-Z028	5	4+4	63	22	34	8	13.0	0.1	ZNHT 028... E267
080FD-05-22N-Z028	5	5+5	80	22	34	8	21.0	0.2	
100FD-05-27N-Z028	5	6+6	100	27	41	12	27.0	0.3	
125FD-05-40N-Z028	5	7+7	125	40	55	12	33.0	0.4	
160FD-05-40N-Z028	5	9+9	160	40	55	12	50.0	0.7	
TSM 063FD-06-22N-Z033	6	4+4	63	22	34	8	13.0	0.1	ZNHT 033... E267
080FD-06-22N-Z033	6	5+5	80	22	34	8	21.5	0.2	
100FD-06-27N-Z033	6	6+6	100	27	41	12	27.0	0.3	
125FD-06-40N-Z033	6	7+7	125	40	55	12	33.0	0.5	
160FD-06-40N-Z033	6	9+9	160	40	55	12	50.0	0.8	
200FD-06-50N-Z033	6	10+10	200	50	69	12	63.0	1.2	
250FD-06-50N-Z033	6	12+12	250	50	69	12	88.0	2.0	
TSM 080FD-07-22N-Z038	7	4+4	80	22	34	12	20.0	0.2	ZNHT 038... E267
100FD-07-27N-Z038	7	5+5	100	27	41	12	26.5	0.3	
125FD-07-40N-Z038	7	6+6	125	40	55	12	32.0	0.5	
160FD-07-40N-Z038	7	8+8	160	40	55	12	49.5	0.8	
200FD-07-50N-Z038	7	9+9	200	50	69	12	62.5	1.3	
250FD-07-50N-Z038	7	12+12	250	50	69	12	87.5	1.9	

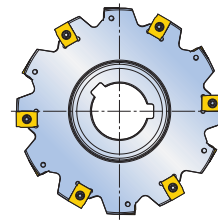
Cutting Condition E271-E273

TSM FD-N-Z

TOPSLOT

Slotting cutters: Fixed pocket disk type





Designation		CW (mm)		Dimension (mm)					Kg	Insert
				DC	DCONMS	DHUB	OAL	CDX		
TSM	080FD-08-22N-Z043	8	4+4	80	22	34	12	20.5	0.2	ZNHT 043... E267
	100FD-08-27N-Z043	8	5+5	100	27	41	12	27.0	0.3	
	125FD-08-40N-Z043	8	6+6	125	40	55	12	32.5	0.5	
	160FD-08-40N-Z043	8	8+8	160	40	55	12	50.0	0.9	
	200FD-08-50N-Z043	8	9+9	200	50	69	12	63.0	1.4	
	250FD-08-50N-Z043	8	12+12	250	50	69	12	88.0	2.3	
TSM	100FD-09-27N-Z048	9	5+5	100	27	41	12	27.5	0.4	ZNHT 048... E267
	125FD-09-40N-Z048	9	6+6	125	40	55	12	33.0	0.6	
	160FD-09-40N-Z048	9	8+8	160	40	55	12	50.5	1.0	
	200FD-09-50N-Z048	9	9+9	200	50	69	12	63.5	1.6	
	250FD-09-50N-Z048	9	12+12	250	50	69	12	88.5	2.6	
TSM	100FD-10-27N-Z053	10	5+5	100	27	41	12	28.0	0.4	ZNHT 053... E267
	125FD-10-40N-Z053	10	6+6	125	40	55	12	33.5	0.6	
	160FD-10-40N-Z053	10	8+8	160	40	55	12	51.0	1.3	
	200FD-10-50N-Z053	10	9+9	200	50	69	12	64.0	2.0	
	250FD-10-50N-Z053	10	12+12	250	50	69	12	89.0	3.2	

• Arbor: SCA

Spare parts

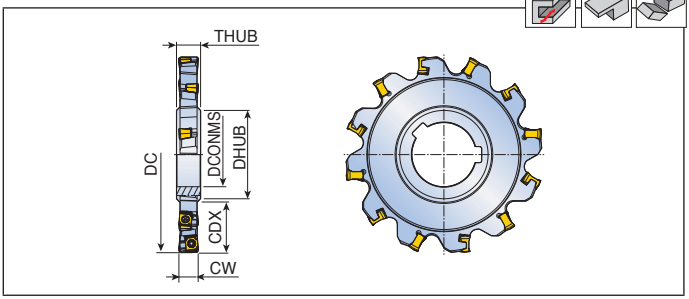
Designation	Screw	Wrench		Designation	Screw	Wrench	
							
TSM-Z018	TS 25B024I/HG	TD 7P	L-T7P	**TSM-Z038**	TS 40K0535I	T-T15	L-T15
TSM-Z023	TS 25B031I/HG	TD 7P	L-T7P	**TSM-Z043**	TS 40K065I	T-T15	L-T15
TSM-Z028	TS 25B042I/HG	TD 7P	L-T7P	**TSM-Z048**	TS 40K075I	T-T15	L-T15
TSM-Z033	TS 25B053I/HG	TD 7P	L-T7P	**TSM-Z053**	TS 40K085I	T-T15	L-T15

Cutting Condition E271-E273

TSM FD-N-ZN08/11

TOPSLOT

Slotting cutters: Fixed pocket disk type



Designation	CW (mm)		Dimension (mm)					Kg	Insert
			DC	DCONMS	DHUB	OAL	CDX		
TSM 080FD-10-27N-ZN08	10.0	4+4	80	27	41	15	15.5	0.3	ZNHU 080... E268
100FD-10-27N-ZN08	10.0	5+5	100	27	41	15	25.5	0.5	
125FD-10-40N-ZN08	10.0	6+6	125	40	55	15	31.0	0.7	
080FD-12-27N-ZN08	12.0	4+4	80	27	41	15	16.5	0.3	
100FD-12-27N-ZN08	12.0	5+5	100	27	41	15	26.5	0.5	
125FD-12-40N-ZN08	12.0	6+6	125	40	55	15	32.0	0.8	
TSM 125FD-14-40N-ZN11	14.0	6+6	125	40	55	15	34.5	0.9	ZNHU 110... E268
125FD-17-40N-ZN11	17.0	6+6	125	40	55	18	34.5	1.1	
125FD-20-40N-ZN11	20.0	6+6	125	40	55	20	34.5	1.3	

• Arbor: SCA

Spare parts

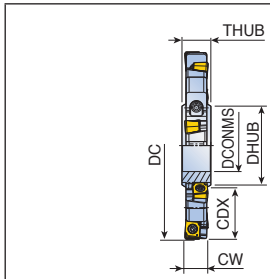
Designation	Screw	Wrench			
TSM...FD...-ZN08	TS 30085I/HG	TD 9	-		
TSM...FD...-ZN11	TS 40120I/HG	-	T-T15		

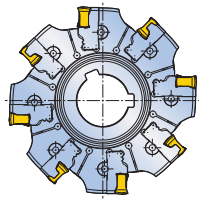
Cutting Condition E271-E273

TSM FD-S/W-ZN08

TOPSLOT

Slotting cutters: Adjustable disk type





Designation		CW (mm)		Dimension (mm)					Kg	Insert
				DC	DCONMS	DHUB	OAL	CDX		
TSM	100FD-S-27N-ZN08	10-12	4+4	100	27	41	15	26.5	0.4	ZNHU 080...
	125FD-S-40N-ZN08	10-12	5+5	125	40	55	15	31.5	0.7	E268
	160FD-S-40N-ZN08	10-12	6+6	160	40	55	15	48.5	1.1	
	200FD-S-50N-ZN08	10-12	8+8	200	50	69	15	61.5	1.8	
	250FD-S-50N-ZN08	10-12	9+9	250	50	69	15	87.5	2.8	
	100FD-W-27N-ZN08	12-14	4+4	100	27	41	15	27.0	0.5	
	125FD-W-40N-ZN08	12-14	5+5	125	40	55	15	31.5	0.8	
	160FD-W-40N-ZN08	12-14	6+6	160	40	55	15	49.5	1.3	
	200FD-W-50N-ZN08	12-14	8+8	200	50	69	15	62.5	2.1	
	250FD-W-50N-ZN08	12-14	9+9	250	50	69	15	87.5	3.4	

• Width of cut is set at the smallest unless a specific width is requested • Arbor: SCA

Spare parts

Designation	Right cartridge	Left cartridge	Wedge	Adjust screw	Insert screw
					
TSM...FD-S/W...-ZN08	TCT-SR-ZN08 TCT-WR-ZN08	TCT-SL-ZN08 TCT-WL-ZN08	WFZ 5	SA M8-6.0	TS 30085I/HG
	Wedge screw	Wrench	L-Wrench	Wedge Wrench	
					
	WS 5	TD 9	L-W 3	F-W 2.5	

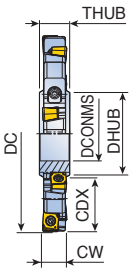
Cutting Condition E271-E273
Technical Data E281-E283

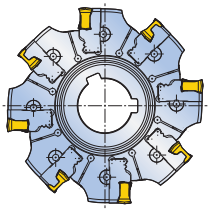
ADVANCE CUTTING TaeguTec

TSM FD-S/W-ZN11

TOPSLOT

Slotting cutters: Adjustable disk type





Designation	CW (mm)		Dimension (mm)					Kg	Insert
			DC	DCONMS	DHUB	OAL	CDX		
TSM 100FD-S-27N-ZN11	14-17	3+3	100	27	41	18	28.0	0.6	ZNHU 110...
125FD-S-40N-ZN11	14-17	4+4	125	40	55	18	31.0	1.0	E268
160FD-S-40N-ZN11	14-17	6+6	160	40	55	18	48.5	1.6	
200FD-S-50N-ZN11	14-17	7+7	200	50	69	18	61.5	2.6	
250FD-S-50N-ZN11	14-17	9+9	250	50	69	18	86.5	4.2	
100FD-W-27N-ZN11	17-20	3+3	100	27	41	22	28.0	0.8	
125FD-W-40N-ZN11	17-20	4+4	125	40	55	22	31.0	1.2	
160FD-W-40N-ZN11	17-20	6+6	160	40	55	22	48.5	2.0	
200FD-W-50N-ZN11	17-20	7+7	200	50	69	22	61.5	3.2	
250FD-W-50N-ZN11	17-20	9+9	250	50	69	22	86.5	5.2	
315FD-W-60N-ZN11	17-20	12+12	315	60	85	22	110.0	8.5	

• Width of cut is set at the smallest unless a specific width is requested • Arbor: SCA

Spare parts

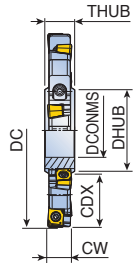
Designation	Right cartridge	Left cartridge	Wedge	Adjust screw	Insert screw
					
TSM...FD-S/W...-ZN11	TCT-SR-ZN11 TCT-WR-ZN11	TCT-SL-ZN11 TCT-WL-ZN11	WFZ 6	SA M8-9.0	TS 40120I/HG
	Wedge screw	Wrench	L-Wrench	Wedge Wrench	
					
	WS 6	T-T15	L-W 4	T-W 3	

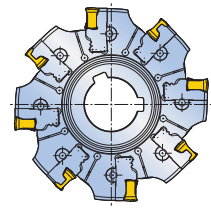
Cutting Condition E271-E273
Technical Data E281-E283

TSM FD-S/W-ZN14

TOPSLOT

Slotting cutters: Adjustable disk type





Designation		CW (mm)		Dimension (mm)					Kg	Insert
				DC	DCONMS	DHUB	OAL	CDX		
TSM	**125FD-S-40N-ZN14**	20-23	3+3	125	40	55	24.5	32.0	1.4	ZNHU 140... E268
	160FD-S-40N-ZN14	20-23	5+5	160	40	55	24.5	49.0	2.4	
	200FD-S-50N-ZN14	20-23	6+6	200	50	69	24.5	62.5	3.9	
	250FD-S-50N-ZN14	20-23	8+8	250	50	69	24.5	87.0	6.3	
	315FD-S-60N-ZN14	20-23	10+10	315	60	85	24.5	111.5	10.2	
	125FD-W-40N-ZN14	23-26	3+3	125	40	55	27.5	32.0	1.6	
	160FD-W-40N-ZN14	23-26	5+5	160	40	55	27.5	49.0	2.7	
	200FD-W-50N-ZN14	23-26	6+6	200	50	69	27.5	62.5	4.3	
	250FD-W-50N-ZN14	23-26	8+8	250	50	69	27.5	87.0	7.1	
	315FD-W-60N-ZN14	23-26	10+10	315	60	85	27.5	111.5	11.6	

• Width of cut is set at the smallest unless a specific width is requested • Arbor: SCA

Spare parts

Designation	Right cartridge	Left cartridge	Wedge	Adjust screw	Insert screw
					
TSM...FD-S/W...-ZN14	TCT-SR-ZN14	TCT-SL-ZN14	WFZ 6	SA M8-9.0	TS 40120I/HG
	Wedge screw	Wrench	L-Wrench	Wedge Wrench	
					
	WS 6	T-T15	L-W 4	T-W 3	

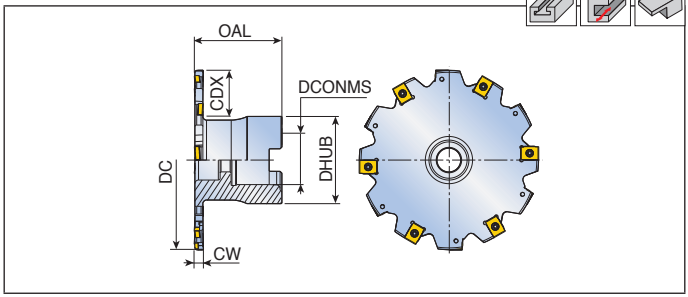
Cutting Condition E271-E273
Technical Data E281-E283

ADVANCE CUTTING TaeguTec

TSM FF-Z

TOPSLOT

Slotting cutters: Fixed pocket flange type



Designation	CW (mm)		Dimension (mm)					Arbor style	Kg	Mounting bolt	Insert
			DC	DCONMS	DHUB	OAL	CDX				
TSM 080FF-03-22R-Z018	3	5+5	80	22	40	50	20.0	A	0.4	SH M10x35	ZNHT 018...
100FF-03-27R-Z018	3	6+6	100	27	48	50	26.0	A	0.6	SH M12x35	
080FF-04-22R-Z023	4	5+5	80	22	40	50	20.0	A	0.4	SH M10x35	ZNHT 023...
100FF-04-27R-Z023	4	6+6	100	27	48	50	26.0	A	0.6	SH M12x35	
080FF-05-22R-Z028	5	5+5	80	22	40	50	20.0	A	0.5	SH M10x35	ZNHT 028...
100FF-05-27R-Z028	5	6+6	100	27	48	50	26.0	A	0.7	SH M12x35	
080FF-06-22R-Z033	6	5+5	80	22	40	50	20.0	A	0.5	SH M10x35	ZNHT 033...
100FF-06-27R-Z033	6	6+6	100	27	48	50	26.0	A	0.7	SH M12x35	E267
125FF-06-40R-Z033	6	7+7	125	40	70	50	25.0	B	1.1	-	
160FF-06-40R-Z033	6	9+9	160	40	70	50	43.0	B	1.4	-	
080FF-07-22R-Z038	7	4+4	80	22	40	50	20.0	A	0.5	SH M10x40	ZNHT 038...
100FF-07-27R-Z038	7	5+5	100	27	48	50	25.5	A	0.7	SH M12x35	E267
125FF-07-40R-Z038	7	6+6	125	40	70	50	24.5	B	1.1	-	
160FF-07-40R-Z038	7	8+8	160	40	70	50	42.0	B	1.4	-	
080FF-08-22R-Z043	8	4+4	80	22	40	50	20.0	A	0.5	SH M10x35	ZNHT 043...
100FF-08-27R-Z043	8	5+5	100	27	48	50	25.5	A	0.8	SH M12x35	E267
125FF-08-40R-Z043	8	6+6	125	40	70	50	24.5	B	1.2	-	
160FF-08-40R-Z043	8	8+8	160	40	70	50	42.0	B	1.5	-	
100FF-09-27R-Z048	9	5+5	100	27	48	50	26.0	A	0.7	SH M12x35	ZNHT 048...
125FF-09-40R-Z048	9	6+6	125	40	70	50	24.5	B	1.2	-	E267
160FF-09-40R-Z048	9	8+8	160	40	70	50	42.0	B	1.6	-	
100FF-10-27R-Z053	10	5+5	100	27	48	50	26.0	A	0.8	SH M12x35	ZNHT 053..
125FF-10-40R-Z053	10	6+6	125	40	70	50	24.5	B	1.4	-	E267
160FF-10-40R-Z053	10	8+8	160	40	70	50	42.0	B	1.7	-	

Spare parts

Designation	Screw	Wrench		Designation	Screw	Wrench	
TSM-Z018	TS 25B024I/HG	TD 7P	L-T7P	**TSM-Z038**	TS 40K0535I	T-T15	L-T15
TSM-Z023	TS 25B031I/HG	TD 7P	L-T7P	**TSM-Z043**	TS 40K065I	T-T15	L-T15
TSM-Z028	TS 25B042I/HG	TD 7P	L-T7P	**TSM-Z048**	TS 40K075I	T-T15	L-T15
TSM-Z033	TS 25B053I/HG	TD 7P	L-T7P	**TSM-Z053**	TS 40K085I	T-T15	L-T15

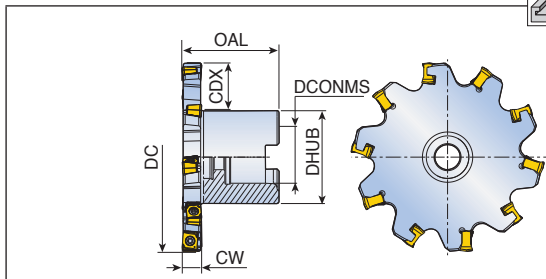
Cutting Condition E271-E273
Arbor Style E274-E275

TaeguTec

TSM FF-ZN08/11

TOPSLOT

Slotting cutters: Fixed pocket flange type



Designation	CW (mm)		Dimension (mm) DC	DCONMS	DHUB	OAL	CDX	Arbor style	Kg	Mounting bolt	Insert
TSM 063FF-10-22R-ZN08	10.0	3+3	63	22	40	50	15	A	0.4	SH M10x35	ZNHU 080...
080FF-10-22R-ZN08	10.0	4+4	80	22	40	50	24	A	0.5	SH M10x35	E268
100FF-10-27R-ZN08	10.0	5+5	100	27	48	50	26	A	0.8	SH M12x35	
125FF-10-32R-ZN08	10.0	6+6	125	32	58	50	34	B	1.1	-	
063FF-12-22R-ZN08	12.0	3+3	63	22	40	50	15	A	0.4	SH M10x35	
080FF-12-22R-ZN08	12.0	4+4	80	22	40	50	24	A	0.5	SH M10x35	
100FF-12-27R-ZN08	12.0	5+5	100	27	48	50	26	A	0.9	SH M12x35	
125FF-12-32R-ZN08	12.0	6+6	125	32	58	50	34	B	1.2	-	
TSM 063FF-14-22R-ZN11	14.0	3+3	63	22	40	50	15	A	0.4	SH M10x35	ZNHU 110...
080FF-14-22R-ZN11	14.0	4+4	80	22	40	50	24	A	0.5	SH M10x35	E268
100FF-14-27R-ZN11	14.0	5+5	100	27	48	50	26	A	1.0	SH M12x35	
125FF-14-32R-ZN11	14.0	6+6	125	32	58	50	34	B	1.3	-	
160FF-14-40R-ZN11	14.0	6+6	160	40	70	50	43	B	2.5	-	
080FF-17-22R-ZN11	17.0	4+4	80	22	40	50	24	A	0.6	SH M10x35	
100FF-17-27R-ZN11	17.0	5+5	100	27	48	50	26	A	1.0	SH M12x35	
125FF-17-32R-ZN11	17.0	6+6	125	32	58	50	34	B	1.5	-	
080FF-20-22R-ZN11	20.0	4+4	80	22	40	50	24	A	0.7	SH M10x35	
100FF-20-27R-ZN11	20.0	5+5	100	27	48	50	26	A	1.1	SH M12x35	
125FF-20-32R-ZN11	20.0	6+6	125	32	58	50	34	B	1.6	-	

Spare parts

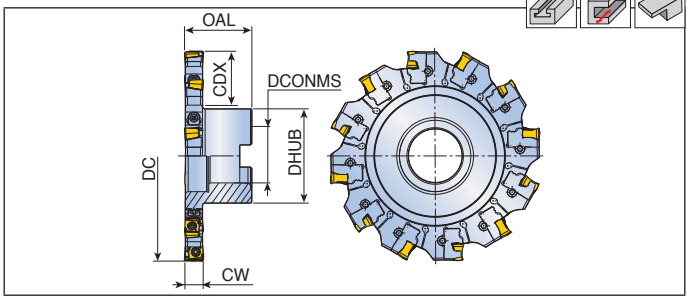
Designation	Screw	Wrench			
TSM...FF...-ZN08	TS 30085I/HG	TD 9	-		
TSM...FF...-ZN11	TS 40120I/HG	-	T-T15		

Cutting Condition E271-E273
Arbor Style E274-E275

TSM FF-S/W-ZN08

TOPSLOT

Slotting cutters: Adjustable flange type



Designation	CW (mm)		Dimension (mm) DC	DCONMS	DHUB	OAL	CDX	Arbor style	Kg	Mounting bolt	Insert
TSM 100FF-S-27R-ZN08	10-12	4+4	100	27	48	50	25	A	0.8	SH M12x35	ZNHU 080...
125FF-S-32R-ZN08	10-12	5+5	125	32	58	50	31.5	B	1.1	-	E268
160FF-S-40R-ZN08	10-12	6+6	160	40	70	50	43	B	1.8	-	
200FF-S-40R-ZN08	10-12	8+8	200	40	90	50	53	C	2.9	-	
100FF-W-27R-ZN08	12-14	4+4	100	27	48	50	25	A	0.9	SH M12x35	
125FF-W-32R-ZN08	12-14	5+5	125	32	58	50	31.5	B	1.2	-	
160FF-W-40R-ZN08	12-14	6+6	160	40	70	50	43	B	2.0	-	
200FF-W-40R-ZN08	12-14	8+8	200	40	90	50	53	C	3.2	-	

• Width of cut is set at the smallest unless a specific width is requested

Spare parts

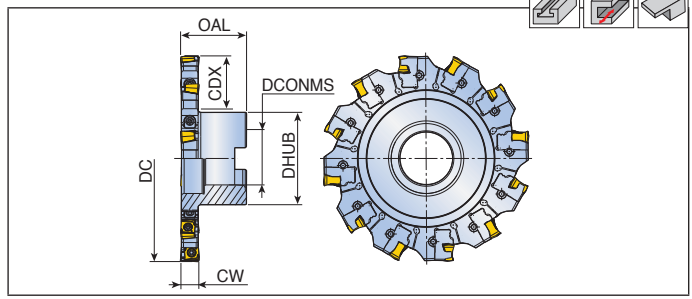
Designation	Right cartridge	Left cartridge	Wedge	Adjust screw	Insert screw
					
TSM...FF-S/W...-ZN08	TCT-SR-ZN08 TCT-WR-ZN08	TCT-SL-ZN08 TCT-WL-ZN08	WFZ 5	SA M8-6.0	TS 30085I/HG
	Wedge screw	Wrench	L-Wrench	Wedge Wrench	
					
	WS 5	TD 9	L-W 3	F-W 2.5	

Cutting Condition E271-E273
Arbor Style E274-E275
Technical Data E281-E283

TSM FF-S/W-ZN11

TOPSLOT

Slotting cutters: Adjustable flange type



Designation	CW (mm)		Dimension (mm)					Arbor style	Kg	Mounting bolt	Insert
			DC	DCONMS	DHUB	OAL	CDX				
TSM 100FF-S-27R-ZN11	14-17	3+3	100	27	48	50	25.0	A	0.9	SH M12x35	ZNHU 110...
125FF-S-32R-ZN11	14-17	4+4	125	32	58	50	31.5	B	1.3	-	E268
160FF-S-40R-ZN11	14-17	6+6	160	40	70	50	43.0	B	2.2	-	
200FF-S-40R-ZN11	14-17	7+7	200	40	90	50	53.0	C	3.9	-	
250FF-S-60R-ZN11	14-17	9+9	250	60	130	50	55.0	C	6.2	-	
315FF-S-60R-ZN11	14-17	12+12	315	60	130	50	90.0	C	8.9	-	
100FF-W-27R-ZN11	17-20	3+3	100	27	48	50	25.0	A	1.0	SH M12x35	
125FF-W-32R-ZN11	17-20	4+4	125	32	58	50	31.5	B	1.5	-	
160FF-W-40R-ZN11	17-20	6+6	160	40	70	50	43.0	B	2.2	-	
200FF-W-40R-ZN11	17-20	7+7	200	40	90	50	53.0	C	4.1	-	
250FF-W-60R-ZN11	17-20	9+9	250	60	130	50	55.0	C	6.9	-	
315FF-W-60R-ZN11	17-20	12+12	315	60	130	50	90.0	C	10.2	-	

• Width of cut is set at the smallest unless a specific width is requested

Spare parts

Designation	Right cartridge	Left cartridge	Wedge	Adjust screw	Insert screw
					
TSM...FD-S/W...-ZN11	TCT-SR-ZN11 TCT-WR-ZN11	TCT-SL-ZN11 TCT-WL-ZN11	WFZ 6	SA M8-9.0	TS 40120I/HG
	Wedge screw	Wrench	L-Wrench	Wedge Wrench	
					
	WS 6	T-T15	L-W 4	T-W 3	

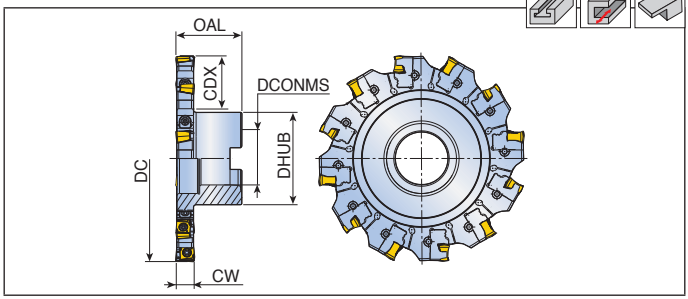
Cutting Condition E271-E273
Arbor Style E274-E275
Technical Data E281-E283

ADVANCE CUTTING TaeguTec

TSM FF-S/W-ZN14

TOPSLOT

Slotting cutters: Adjustable flange type



Designation	CW (mm)		Dimension (mm) DC	DCONMS	DHUB	OAL	CDX	Arbor style	Kg	Insert
TSM 125FF-S-32R-ZN14	20-23	3+3	125	32	58	50	32.5	B	2.6	ZNHU 140...
160FF-S-40R-ZN14	20-23	5+5	160	40	70	50	43.0	B	2.8	E268
200FF-S-40R-ZN14	20-23	6+6	200	40	90	50	53.0	C	4.6	
250FF-S-60R-ZN14	20-23	8+8	250	60	130	50	58.0	C	7.2	
315FF-S-60R-ZN14	20-23	10+10	315	60	130	50	90.0	C	11.3	
125FF-W-32R-ZN14	23-26	3+3	125	32	58	50	32.5	B	1.8	
160FF-W-40R-ZN14	23-26	5+5	160	40	70	50	43.0	B	3.0	
200FF-W-40R-ZN14	23-26	6+6	200	40	90	50	53.0	C	5.0	
250FF-W-60R-ZN14	23-26	8+8	250	60	130	50	58.0	C	7.5	
315FF-W-60R-ZN14	23-26	10+10	315	60	130	50	90.0	C	12.2	

• Width of cut is set at the smallest unless a specific width is requested

Spare parts

Designation	Right cartridge	Left cartridge	Wedge	Adjust screw	Insert screw
					
TSM...FD-S/W...-ZN14	TCT-SR-ZN14	TCT-SL-ZN14	WFZ 6	SA M8-9.0	TS 40120I/HG
	Wedge screw	Wrench	L-Wrench	Wedge Wrench	
					
	WS 6	T-T15	L-W 4	T-W 3	

Cutting Condition E271-E273
Arbor Style E274-E275
Technical Data E281-E283

TSC

Slotting cutters

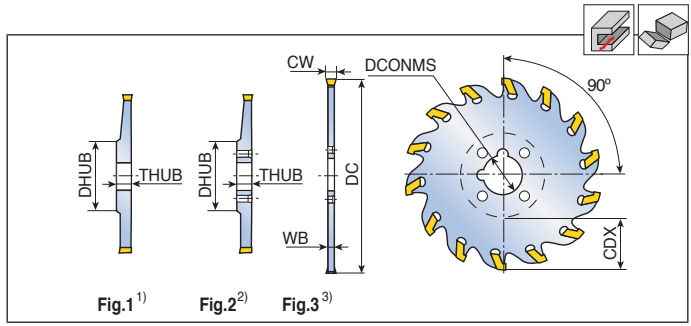


Fig.1 [1] Fig.2 [2] Fig.3 [3]

Designation		CW (mm)		Dimension (mm)						Fig.	Insert seat size	Insert
				DC	DCONMS	DHUB	WB	THUB	CDX			
TSC	75 1.6 22A	1.6	8	75	22.0	39	1.24	2.4	17	1	1	TIMC TIMJ TIPV E259-E260
	100 1.6 22A	1.6	10	100	22.0	39	1.24	2.4	30	1	1	
	125 1.6 27A	1.6	12	125	27.0	64	1.24	2.4	30	1	1	
	75 2 22A	2.0-2.3	8	75	22.0	39	1.6	2.4	17	1	2	
	100 2 22A	2.0-2.3	10	100	22.0	39	1.6	2.4	30	1	2	
	125 2 27A	2.0-2.3	12	125	27.0	64	1.6	2.4	30	1	2	
	100 2.4 22K	2.3-2.5	10	100	22.0	46	1.9	2.4	26	2	2	
	125 2.4 32K	2.3-2.5	12	125	32.0	55	1.9	2.4	34	2	2	
	160 2.4 32K	2.3-2.5	16	160	32.0	55	1.9	2.4	52	2	2	
	100 3 22K	2.8-3.58	6	100	22.0	-	2.4	-	26	3	4	
	125 3 32K	2.8-3.53	8	125	32.0	-	2.4	-	34	3	4	
	160 3 40K	2.8-3.53	10	160	40.0	-	2.4	-	39	3	4	
	100 4 22K	3.54-4.52	6	100	22.0	-	3.2	-	27	3	4	
	125 4 32K	3.54-4.52	8	125	32.0	-	3.2	-	34	3	4	
	160 4 40K	3.54-4.52	10	160	40.0	-	3.2	-	39	3	4	

• [1] Arbor type, [2] Drive shank, [3] Drive flange+Drive shank

Spare parts

Designation	Drive flange set	Drive shank			
TSC-2.4-22K	-	TW32-40			
TSC-2.4-32K	-	T32-55			
TSC-22K	TR22-46	TW32-40			
TSC-32K	TR32-55	T32-55			
TSC-40K	TR40-80	T40-80			

Cutting Condition E271-E273 | Technical Data E284-E285

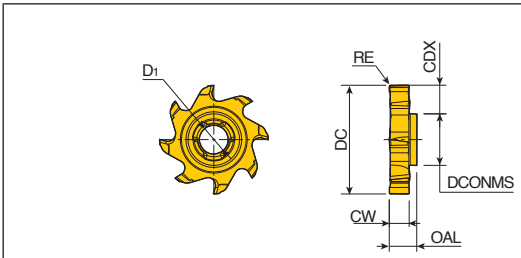
• Extractor(ESG 0.5 or ESG 1) supplied with each cutter
• Flange set and shank should be ordered separately

ADVANCE CUTTING TaeguTec

TR-S

MAXISLOT

Interchangeable solid carbide slot milling heads



Designation	Feed	Dimension (mm)								Grade
	(mm/tooth)	DC	CW	CDX	NOF	RE	D1	DCONMS	OAL	TT5525
TR13-S-24.7-3.0R0.4	0.02-0.15	24.7	3	5.5	6	0.4	7.5	13	8	●
24.7-4.0R0.4	0.02-0.15	24.7	4	5.5	6	0.4	7.5	13	8	●
24.7-5.0R0.4	0.02-0.15	24.7	5	5.5	6	0.4	7.5	13	8	●
24.7-6.0R0.4	0.02-0.15	24.7	6	5.5	6	0.4	7.5	13	8	●
24.7-7.0R0.4	0.02-0.15	24.7	7	5.5	6	0.4	7.5	13	8	●
24.7-8.0R0.4	0.02-0.15	24.7	8	5.5	6	0.4	7.5	13	8	●
TR15-S-31.7-3.0R0.4	0.022-0.18	31.7	3	8	8	0.4	8.4	15	8	●
31.7-4.0R0.4	0.022-0.18	31.7	4	8	8	0.4	8.4	15	8	●
31.7-5.0R0.4	0.022-0.18	31.7	5	8	8	0.4	8.4	15	8	●
31.7-6.0R0.4	0.022-0.18	31.7	6	8	8	0.4	8.4	15	8	●
31.7-7.0R0.4	0.022-0.18	31.7	7	8	8	0.4	8.4	15	8	●
31.7-8.0R0.4	0.022-0.18	31.7	8	8	8	0.4	8.4	15	8	●
TR17-S-39.7-4.0R0.4	0.025-0.20	39.7	4	11	10	0.4	9.8	17	10	●
39.7-5.0R0.4	0.025-0.20	39.7	5	11	10	0.4	9.8	17	10	●
39.7-6.0R0.4	0.025-0.20	39.7	6	11	10	0.4	9.8	17	10	●
39.7-7.0R0.4	0.025-0.20	39.7	7	11	10	0.4	9.8	17	10	●
39.7-8.0R0.4	0.025-0.20	39.7	8	11	10	0.4	9.8	17	10	●
39.7-9.0R0.4	0.025-0.20	39.7	9	11	10	0.4	9.8	17	10	●
39.7-10.0R0.4	0.025-0.20	39.7	10	11	10	0.4	9.8	17	10	●

Cutting Condition
E271-E273

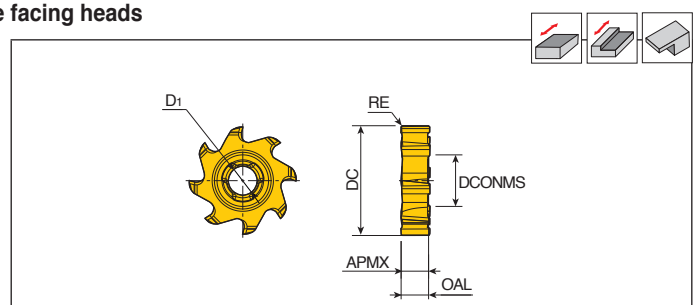

E208

• NOF: Number of flutes

●: Standard items

TaeguTec

Interchangeable solid carbide facing heads



Designation	Feed (mm/tooth)	Dimension (mm)							Grade
		DC	APMX	NOF	RE	D1	DCONMS	OAL	TT5525
TR13-F-25-8.0-R0.4	0.04-0.15	24.25	8	6	0.4	7.5	13	8	●
15-F-32-8.0-R0.4	0.04-0.15	31.25	8	8	0.4	8.4	15	8	●
17-F-40-10.0-R0.4	0.04-0.15	39.25	10	10	0.4	9.8	17	10	●

• NOF: Number of flutes

●: Standard items

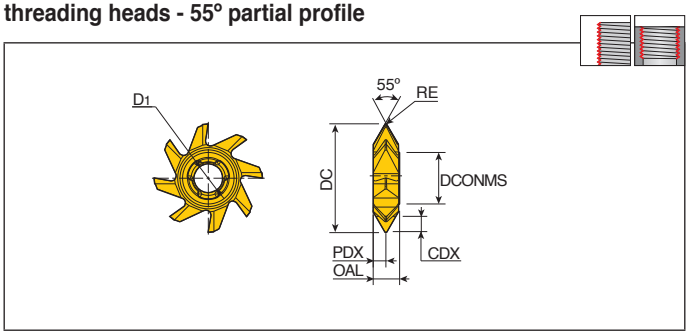
Cutting Condition E271-E273

E209

TR-T-W55

MAXISLOT

Interchangeable solid carbide threading heads - 55° partial profile



Designation	TPI	Dimension (mm)									Grade
		DC	DMIN	PDX	RE	D1	CDX	OAL	ZEFP	DCONMS	TT5525
TR13-T-24.7-W55-3T	5-3	24.7	36	2.2	0.5	7.5	3.5	7.7	6	13	●
15-T-31.7-W55-4T	6-4	31.7	46	3.7	0.5	8.4	4.7	7.7	8	15	●
17-T-39.7-W55-3T	4-3	39.7	57	4.5	0.8	9.8	6.2	9.5	10	17	●

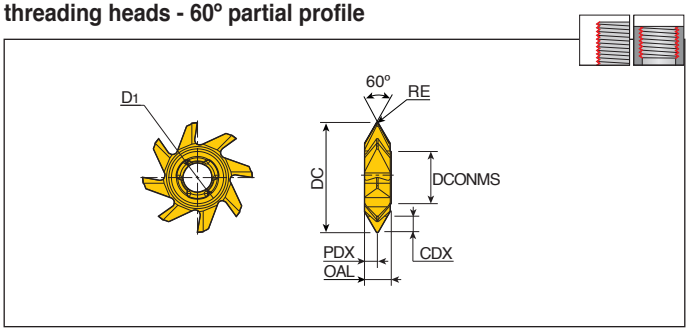
• TPI: Threads per inch
• ZEFP: Peripheral effective cutting edge count

●: Standard items

TR-T-M60

MAXISLOT

Interchangeable solid carbide threading heads - 60° partial profile



Designation	TP (mm)	TPI	Dimension (mm)									Grade
			DC	DMIN	PDX	RE	D1	CDX	OAL	ZEFP	DCONMS	TT5525
TR13-T-24.7-M60-5P	3-5	5-3	24.7	36	2.2	0.2	7.5	3.5	7.7	6	13	●
15-T-31.7-M60-6P	4-6	6-4	31.7	46	3.7	0.3	8.4	4.7	7.7	8	15	●
17-T-39.7-M60-8P	6-8	4-3	39.7	57	4.5	0.4	9.8	6.2	9.5	10	17	●

Cutting Condition E271-E273

E208

• TP: Threads pitch, TPI: Threads per inch
• ZEFP: Peripheral effective cutting edge count

●: Standard items

TaeguTec

Slotting & threading holders

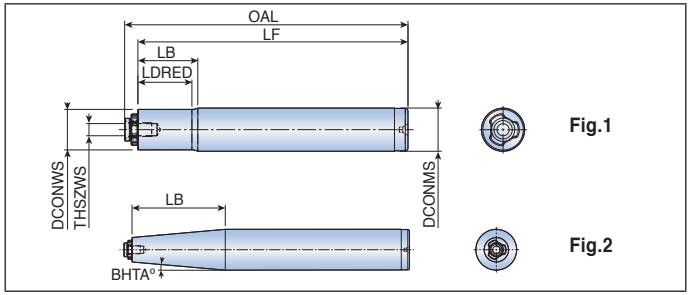


Fig.1

Fig.2

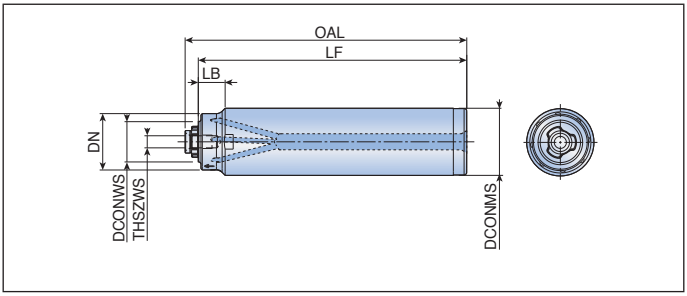
Designation	Dimension (mm)								Coolant hole	Fig.	Carbide head
	DCONMS	DCONWS	LB	LF	OAL	THSZWS	LDRED	BHTA°			
TR13-16-L100	16	13	16.6	100	104.35	M4x0.5	13.0	-	x	1	TR-S.. TR-T.. E205, E207
15-16-L100	16	15	18.2	100	104.90	M5x0.5	16.0	-	x	1	
15-16-L130	16	15	18.2	130	134.90	M5x0.5	16.0	-	x	1	
17-20-L140	20	17	23.8	140	146.00	M6x0.5	20.2	-	x	1	
15-25-TC170	25	15	57.2	170	174.90	M5x0.5	-	5	x	2	

Spare parts

Designation	Screw	Wrench	Wrench handle		
					
TR13	TS 40T098/HG-P	BLD IP15/S7	SW6-T		
TR15	TS 50T110/HG-P	BLD IP20/S7	SW6-T		
TR17	TS 60T130/HG-P	BLD IP20/S7	SW6-T		

TR-F-C

Facing holders



Designation	Dimension (mm)							Coolant hole	Carbide head
	DCONMS	DCONWS	LB	LF	OAL	THSZWS	DN		
TR13-20-L100-F-C	20	13	10	100	104.35	M4x0.5	16	●	TR-F.....
13-25-L100-F-C	25	13	12.5	100	104.35	M4x0.5	16	●	E206
15-25-L100-F-C	25	15	10	100	104.90	M5x0.5	21	●	
15-32-L110-F-C	32	15	13.5	110	114.90	M5x0.5	21	●	
17-32-L140-F-C	32	17	10	140	146.00	M6x0.5	28	●	
17-42-L140-F-C	42	17	15	140	146.00	M6x0.5	28	●	

Spare parts

Designation	Screw	Wrench	Wrench handle		
					
TR13	TS 40T098/HG-P	BLD IP15/S7	SW6-T		
TR15	TS 50T110/HG-P	BLD IP20/S7	SW6-T		
TR17	TS 60T130/HG-P	BLD IP20/S7	SW6-T		

TAEGUTEC

Milling Inserts

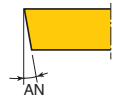
Insert Designation System

S	P	K	N
1	2	3	4

1 Shape

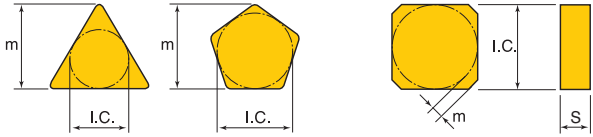
											Special
A	B	C	H	L	O	P	R	S	T	W	X

2 Clearance angle



B	C	D	E	F	G	N	P
5°	7°	15°	20°	25°	30°	0°	11°

3 Tolerance



Class	Tolerance (mm)			I.C. Dimension (mm)					
	m	S	I.C.	6.35	9.52	12.70	15.87	19.05	25.40
A	±0.005	±0.025	±0.025	•	•	•	•	•	•
E	±0.025	±0.025	±0.025	•	•	•	•	•	•
F	±0.005	±0.025	±0.013	•	•	•	•	•	•
G	±0.025	±0.130	±0.025	•	•	•	•	•	•
H	±0.013	±0.025	±0.013	•	•	•	•	•	•
K	±0.013	±0.025	±0.05	•	•				
			±0.08			•			
			±0.10				•	•	
			±0.13						•
M	±0.08	±0.130	±0.05	•	•				
	±0.13		±0.08			•			
	±0.15		±0.10				•	•	
	±0.18		±0.13						•

4 Chipformer and clamp type

								Special
A	F	G	M	N	R	T	W	X

ADVANCE CUTTING
TaeguTec

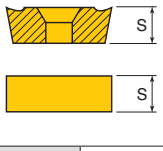
Insert Designation System

12	03	08 ED	T	R	-	
5	6	7	8	9	10	

5 Cutting edge length(mm)

I.C(mm)	C	R,S	T	H	O
5.56			09		
6.35	06	06	11		
7.94	08		13		
9.52	09	09	16		
12.70	12	12	22	05	05
15.87	16	15	27	09	
25.40	25	25			

6 Thickness(mm)

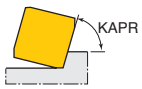


01	1.59
02	2.38
03	3.18
T3	3.97
04	4.76
05	5.56
06	6.35
07	7.94
09	9.52

7 Corner radius(mm)

02R	0.2
04R	0.4
05R	0.5
08R	0.8
10R	1.0
12R	1.2
15R	1.5
16R	1.6
24R	2.4
32R	3.2
40R	4.0

7 Parallel land



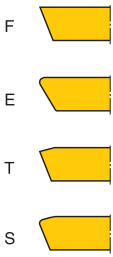
A=45° D=60°
E=75° F=85°
P=90° Z=Special

Entering angle

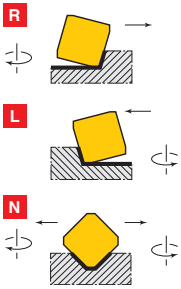
B= 5° F=25°
C= 7° G=30°
D=15° N= 0°
E=20° P=11°
Z=Special

Clearance angle of wiper

8 Edge condition



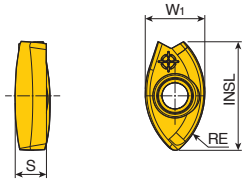
9 Hand of tool



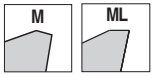
10 Manufacturer's option

AL	Aluminum
WC	Wiper crown
MR	Medium rough
M	Medium
L	Light
ML	Medium light
E□□	Economical

Inserts



Size	Dimension (mm)					
	INSL	W1	S	APMX	RE	
160	12.4	6.8	3.7	8.0	8.0	
200	14.9	8.2	4.8	10.0	10.0	
250	18.9	10.2	5.9	12.5	12.5	
300	22.1	11.8	6.8	15.0	15.0	
320	23.9	12.8	7.5	16.0	16.0	

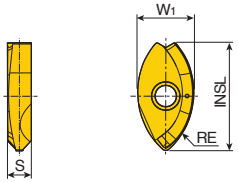


Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**2FB 160-M**	2.0-6.5	0.30-0.07	●		●	●	●				●	
	200-M	3.0-8.0	0.35-0.08	●		●	●	●				●	
	250-M	3.5-10.0	0.35-0.08	●		●	●					●	
	300-M	4.0-12.5	0.40-0.08	●		●	●					●	
	320-M	4.5-13.0	0.40-0.08	●		●	●					●	
	**2FB 160-ML**	2.0-6.5	0.28-0.05	●		●	●						
	200-ML	3.0-8.0	0.32-0.07	●		●	●						
	250-ML	3.5-10.0	0.32-0.07	●		●							

● : Standard items

E155-E156

Inserts



Size	Dimension (mm)					
	INSL	W1	S	APMX	RE	
320C-M	23	12.0	5.2	16	16	
500C-M	36	18.6	7.0	25	25	
320P-M	21	9.9	5.2	16	16	
500P-M	32.9	15.3	7.0	25	25	

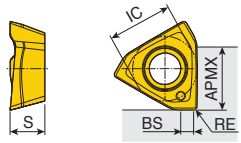
Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**3FB 320C-M**	4.5-13.0	0.15-0.08	●		●						●	
	500C-M	7.5-20.0	0.30-0.15	●		●		●				●	
	**3FB 320P-M**	4.5-13.0	0.15-0.08	●		●						●	
	500P-M	7.5-20.0	0.30-0.08	●		●						●	

● : Standard items

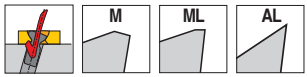
TaeguTec

MILLRUSH

Inserts



Size	Dimension (mm)				
	IC	S	APMX	BS	RE
04	3.9	2.1	3.5	0.5-0.7	0.2-0.4
06	5.3	2.8	4.7	0.6-1.2	0.2-0.8
10	6.9	4.0	7.0	0.5-1.3	0.4-1.6
15	10.7	5.0	11.0	0.5-2.0	0.4-2.4
19	13.5	6.0	15.0	0.5-2.0	0.4-3.2



Insert	Designation		Recommended machining conditions		Cermet	Coated								Uncoated
			ap (mm)	Feed (mm/tooth)	CT7000	TT9080	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	3PKT	040202R-M	0.5-3.0	0.08-0.04		●	●							
		040204R-M	0.5-3.0	0.08-0.04		●	●							
		060302R-M	1.0-4.0	0.10-0.04		●	●	●					●	
		060304R-M	1.0-4.0	0.10-0.04		●	●	●				●	●	
		060308R-M	1.0-4.0	0.10-0.04		●	●	●				●	●	
		100404R-M	2.0-6.0	0.12-0.05		●	●	●		●	●	●	●	
		100408R-M	2.0-6.0	0.12-0.05		●	●	●		●	●	●	●	
		100416R-M	2.0-6.0	0.12-0.05		●							●	
		150508R-M	3.0-9.0	0.17-0.07		●	●	●	●	●	●	●	●	
		150516R-M	3.0-9.0	0.17-0.07		●				●			●	
		150524R-M	3.0-12.0	0.17-0.07		●							●	
		190608R-M	4.5-12.0	0.22-0.09		●	●	●	●	●	●	●	●	
		190616R-M	4.5-12.0	0.22-0.09		●	●	●		●			●	
		190624R-M	4.5-12.0	0.22-0.09		●							●	
		190632R-M	4.5-12.0	0.22-0.09		●							●	
	3PHT	100404R-M	2.0-6.0	0.12-0.05	●	●								
		100408R-M	2.0-6.0	0.12-0.05	●	●								
		150504R-M	3.0-9.0	0.17-0.07		●								
		150508R-M	3.0-9.0	0.17-0.07	●	●								
		150516R-M	3.0-9.0	0.17-0.07	●	●								
		190608R-M	4.5-12.0	0.22-0.09	●	●								
	3PKT	100404R-ML	2.0-6.0	0.10-0.04		●	●	●				●		
		100408R-ML	2.0-6.0	0.10-0.04		●	●	●						
		150508R-ML	3.0-9.0	0.12-0.05		●	●	●				●		
		190608R-ML	4.5-12.0	0.14-0.06		●	●	●				●		
	3PHT	100408R-ML	2.0-6.0	0.10-0.04		●	●							
		150508R-ML	3.0-9.0	0.12-0.05		●	●							
	3PHT	060304R-AL	1.0-4.0	0.22-0.07										●
		100404R-AL	2.0-6.0	0.40-0.10										●
		100408R-AL	2.0-6.0	0.40-0.10										●
		150504R-AL	3.0-9.0	0.50-0.10										●
		150508R-AL	3.0-9.0	0.50-0.10										●
		190604R-AL	4.5-12.0	0.50-0.15										●
		190608R-AL	4.5-12.0	0.50-0.15										●

● : Standard items


E39-E41

E105-E110

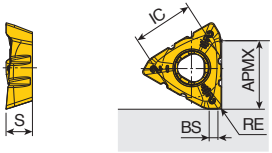
E136-E137

E180-E181

ADVANCE CUTTING
TaeguTec

3PKT-SM

Splitter Inserts



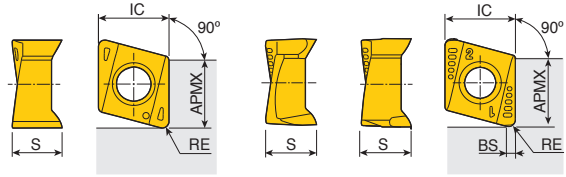
Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
15	10.7	5.0	11.0	1.6	0.8	
19	13.5	6.0	15.0	2.0	0.8	

Insert	Designation	Recommended machining conditions		Cermet	Coated							Uncoated		
		ap (mm)	Feed (mm/tooth)	CT7000	TT9080	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10	
	**3PKT 150508-SM2**	3.0-9.0	0.17-0.07		●	●		●			●			
	190608-SM2	4.5-12.0	0.22-0.09		●	●		●			●			
	**3PKT 150508-SM3**	3.0-9.0	0.17-0.07		●	●		●			●			
	190608-SM3	4.5-12.0	0.22-0.09		●	●		●			●			

● : Standard items

4NK(H)T

Inserts



M PNR-M ML / AL

Size	Dimension (mm)				
	IC	S	APMX	BS	RE
04	4.0	3.1	3.5	-	0.2-0.8
06	6.6	4.2-5.0	5.8-6.2	0.6-1.0	0.4-2.0
09	8.6	5.7-6.3	8.0	0.8-1.2	0.4-1.6
11	10.7	8.1	9.9-10.5	1.0	0.8
14	14.0	9.2-9.4	13.5-13.8	1.25	0.8

Insert	Designation		Recommended machining conditions		Coated								Uncoated
			ap (mm)	Feed (mm/tooth)	TT9080	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**4NKT**	**040202R-M**	0.5-3.0	0.08-0.04	●	●							
		040204R-M	1.0-3.0	0.12-0.06	●	●					●		
		040208R-M	1.0-3.0	0.12-0.06	●	●							
		060304R-M	0.5-5.0	0.15-0.07	●	●					●		
		060308R-M	1.0-5.0	0.15-0.07	●	●				●	●	●	
		060312R-M	1.0-5.0	0.15-0.07	●	●							
		060316R-M	2.0-4.5	0.15-0.07	●	●				●	●	●	
		060320R-M	2.0-4.5	0.15-0.07	●	●							
		090408R-M	2.5-7.0	0.15-0.07	●	●				●	●	●	
		090416R-M	2.5-7.0	0.15-0.07	●	●					●		
		110608R-M	3.5-10.0	0.18-0.09	●	●					●		
		110616R-M	2.5-9.5	0.18-0.09	●								
		110624R-M	2.5-9.5	0.18-0.09	●								
		140708R-M	4.0-12.0	0.18-0.09	●	●		●	●		●		
	**4NKT**	**110608 PNR-M**	3.5-10.0	0.18-0.09	●	●		●					
		140708 PNR-M	4.0-12.0	0.18-0.09	●	●		●					
	**4NKT**	**060304R-ML**	0.5-5.0	0.10-0.05	●	●					●		
		060308R-ML	1.0-5.0	0.10-0.05	●	●				●	●		
		060312R-ML	1.0-5.0	0.10-0.05	●	●					●		
		060316R-ML	2.0-4.5	0.10-0.05	●	●				●	●		
		060320R-ML	2.0-4.5	0.12-0.05	●	●					●		
	**4NHT**	**060304R-ML**	0.5-5.0	0.13-0.05	●								
		060308R-ML	1.0-5.0	0.13-0.05	●	●							
		090404R-ML	2.5-7.0	0.10-0.04	●								
		090408R-ML	2.5-7.0	0.10-0.04	●	●							
	**4NHT**	**060304R-AL**	1.0-5.0	0.40-0.10									●
		060308R-AL	1.0-5.0	0.40-0.10									●
		090404R-AL	2.5-7.0	0.50-0.10									●
		090408R-AL	2.5-7.0	0.50-0.10									●
		110608R-AL	3.5-10.0	0.50-0.10									●
		140708R-AL	4.0-12.0	0.50-0.10									●

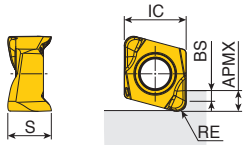
● : Standard items

ADVANCE CUTTING TaeguTec

4NHT 06-F

CHASE4MILL

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
05R	6.6	4.9	2.3	1.8	0.5	
10R	6.6	4.7	2.1	1.1	1.0	
15R	6.6	4.5	3.3	1.8	1.5	
20R	6.6	4.3	3.0	1.1	2.0	

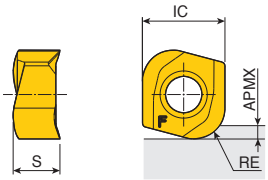
Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**4NHT 060305R-F**	0.2-2.0	1.15-0.07	●							●	
	060310R-F	0.2-1.8	1.15-0.07	●							●	
	060315R-F	0.2-3.0	1.15-0.07	●							●	
	060320R-F	0.2-2.7	1.15-0.07	●							●	

● : Standard items

4NKT-HF

CHASE4MILL

High feed inserts

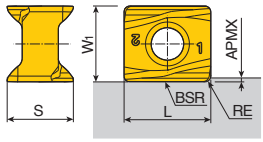


Size	Dimension (mm)					
	IC	S	APMX	RE		
04-HF	4.0	2.65	0.5	1.2		
06-HF	6.6	3.85	1.0	2.0		
09-HF	8.6	4.76	1.5	3.2		
11-HF	10.7	6.56	2.0	4.0		
14-HF	14.0	7.34	3.0	5.0		

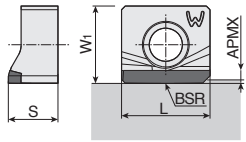
Insert	Designation	Recommended machining conditions		Coated							Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT8080	TT8525B	TT7515	TT7080	TT6080	TT2510	K10
	**4NKT 040212R-HF**	0.2-0.4	0.60-0.10	●						●	
	060320R-HF	0.2-0.6	0.80-0.20	●	●	●				●	
	090432R-HF	0.3-0.8	1.00-0.20	●							
	110640R-HF	0.3-1.2	1.20-0.30	●							
	140750R-HF	0.3-1.5	1.50-0.30	●		●					

● : Standard items

Inserts

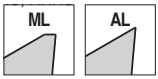


ML/AL



PCD / CBN

Size	Dimension (mm)					
	L	W_1	S	APMX	RE	BSR
12-ML/AL	12	10.5	9.08	0.5	0.8	1000
12-PCD	12	10.5	6.74	0.5	-	1000
12-CBN	12	10.63	6.71	0.5	-	1000

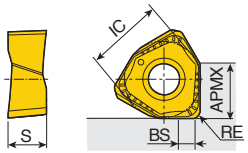


Insert	Designation	Recommended machining conditions		Cermet	Coated				Uncoated	PCD	CBN
		ap (mm)	Feed (mm/tooth)	CT7000	TT9080	TT9030	TT6080	TT2510	K10	TD810	TB7015
	**4WHU 1207-ML**	0.25-0.5	0.25-0.10		●		●	●			
	**4WHU 1207-ML**	0.25-0.5	0.25-0.10	●							
	**4WHU 1207-AL**	0.25-0.5	0.25-0.10						●		
	**4WHU 1207-PCD**	0.25-0.5	0.25-0.10							●	
	**4WHU 1207-CBN**	0.25-0.5	0.25-0.10								●

●: Standard items

6NGU

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
06	9.26	4.76	6.2	1.2-2.4	0.4-1.6	
09	13.05	6.70	9.2	1.2-2.2	0.4-1.6	

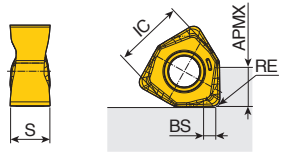
Insert	Designation		Recommended machining conditions		Coated								Uncoated
			ap (mm)	Feed (mm/tooth)	TT9080	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**6NGU**	**060404R-M**	1.5-5.0	0.15-0.08	●	●			●		●	●	
		060405R-M	1.5-5.0	0.15-0.08	●							●	
		060408R-M	1.5-5.0	0.15-0.08	●	●	●	●	●		●	●	
		060410R-M	1.5-5.0	0.15-0.08	●						●	●	
		060416R-M	1.5-5.0	0.15-0.08	●	●			●		●	●	
		090504R-M	2.5-7.5	0.20-0.10	●	●			●		●	●	
		090508R-M	2.5-7.5	0.20-0.10	●	●	●	●	●	●	●	●	
		090516R-M	2.5-7.5	0.20-0.10	●	●		●	●	●	●	●	
	**6NGU**	**060404R-ML**	1.5-5.0	0.10-0.05	●	●					●		
		060405R-ML	1.5-5.0	0.10-0.05	●								
		060408R-ML	1.5-5.0	0.10-0.05	●	●	●		●		●		
		060416R-ML	1.5-5.0	0.10-0.05	●	●					●		
		090504R-ML	2.5-7.5	0.10-0.05	●	●					●		
		090508R-ML	2.5-7.5	0.10-0.05	●	●	●		●		●		
		090516R-ML	2.5-7.5	0.10-0.05	●	●					●		
	**6NGU**	**060404R-AL**	1.5-5.0	0.40-0.10									●
		060408R-AL	1.5-5.0	0.40-0.10									●
		090504R-AL	2.5-7.5	0.40-0.10									●
		090508R-AL	2.5-7.5	0.40-0.10									●

● : Standard items

6NKU 04

MILL2RUSH

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
04	7	3.9	4.1	0.85-1.25	0.4-0.8	

M

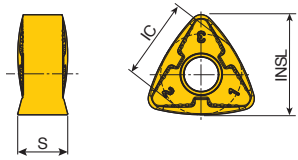
Insert	Designation	Recommended machining conditions		Coated								Uncoated	
		ap (mm)	Feed (mm/tooth)	TT9080	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10	
	**6NKU 040304R-M**	1.0-3.0	0.10-0.05	●	●					●	●		
	040308R-M	1.0-3.0	0.10-0.05	●	●					●	●		

● : Standard items

6RBE

CHASE2BALL

Inserts



Size	Dimension (mm)					
	IC	S	INSL			
6RBE 50	13	8	16			

M

Insert	Designation	Recommended machining conditions		Coated								Uncoated	
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**6RBE 50-M**	1.0-5.0	0.80-0.10	●		●	●	●			●	●	

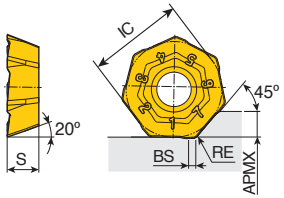
● : Standard items

ADVANCE CUTTING
TaeguTec

7EMT

CHASE HEPTA

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
06	12.8	4.2	3.2	1.0	0.8	

M ML

Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**7EMT 0604 AETR-M**	1.0-2.5	0.15-0.06	●	●			●		●		
	**7EMT 0604 AETR-ML**	1.0-2.5	0.15-0.06	●	●					●		

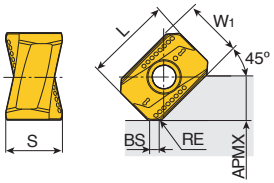
E77 E141

● : Standard items

ANHX 1607 ANR-M

CHASE 2 MILL

Inserts



Size	Dimension (mm)					
	L	W1	S	APMX	BS	RE
16	16	11	10.4	8.4	1.6	1.0

M

Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10
	**ANHX 1607 ANR-M**	2.5-7.0	0.30-0.15	●		●		●	●		●	

E82

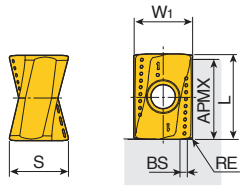
• Use only for 45° cutter

● : Standard items

TaeguTec

ANM(H)X

Inserts



Size	Dimension (mm)					
	L	W1	S	APMX	BS	RE
11	12	9.2	8.5	11	0.7-1.5	0.4-1.6
16	16	11.0	10.4-10.9	15	0.6-1.7	0.4-2.4

Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**ANMX 110608R-M**	3.0-9.0	0.20-0.10	●		●							
	160708R-M	4.5-12.0	0.20-0.10	●		●							
	ANHX 110604R-M	3.0-9.0	0.15-0.08	●		●					●	●	
	110608R-M	3.0-9.0	0.15-0.08	●		●	●	●	●	●	●	●	
	110616R-M	3.0-9.0	0.15-0.08	●		●						●	
	160704R-M	4.5-12.0	0.20-0.10	●	●	●			●	●	●	●	
	160708R-M	4.5-12.0	0.20-0.10	●	●	●	●	●	●	●	●	●	
	160716R-M	4.5-12.0	0.20-0.10	●		●			●		●	●	
	160724R-M	4.5-12.0	0.20-0.10	●		●		●	●		●	●	
	**ANHX 160708R-ML**	4.5-12.0	0.12-0.06			●	●	●					
	**ANHX 160708R-MR**	4.5-12.0	0.25-0.13			●		●					
	**ANHX 110604R-AL**	3.0-9.0	0.40-0.10										●
	110608R-AL	3.0-9.0	0.40-0.10										●
	160704R-AL	4.5-12.0	0.40-0.10										●
	160708R-AL	4.5-12.0	0.40-0.10										●
	**ANHX 110608R-SM**	3.0-9.0	0.15-0.08	●		●		●			●		
	160708R-SM	4.5-12.0	0.20-0.10	●		●		●		●	●		
	**ANHX 110608R-SML**	3.0-9.5	0.15-0.06	●		●							
	160708R-SML	4.5-13.5	0.20-0.06	●		●					●		

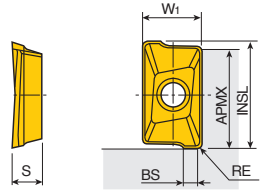
● : Standard items

E51-E52 E124-E125 E184-E185 E277-E278

APK(C)T 09

CHASEMILL

Inserts



Size	Dimension (mm)					
	INSL	W1	S	APMX	BS	RE
09	9.7-10.6	6.20	3.8	8.8	0.5-1.79	0.4-3.2
09T3 PER	9.8-9.9	6.20	3.8	8.8	0-1.14	0.4

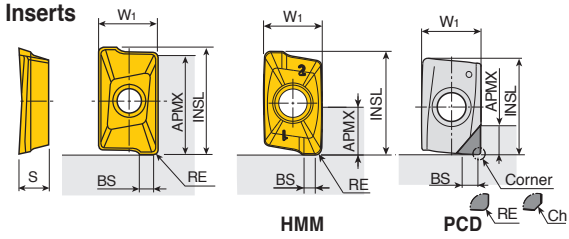
Insert	Designation	Recommended machining conditions		Cermet	Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	CT7000	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**APKT 09T3 PER-EM**	2.5-7.5	0.10-0.05	●	●	●	●	●	●	●		●	●	●
	09T305R-EM	2.5-7.5	0.10-0.05					●						
	09T308R-EM	2.5-7.5	0.10-0.05		●	●	●	●		●		●	●	
	09T316R-EM	2.5-7.5	0.10-0.05		●	●	●	●		●		●	●	
	09T320R-EM	2.5-7.5	0.10-0.05		●		●						●	
	09T332R-EM	2.5-7.5	0.10-0.05		●		●						●	
	09T3 PER-M	2.5-7.5	0.10-0.05					●		●		●	●	
	**APCT 09T3 PER-ML**	3.0-7.5	0.10-0.05		●		●	●		●		●		
	**APCT 09T3 PER-AL**	2.5-7.5	0.35-0.05											●

● : Standard items

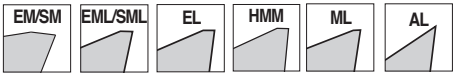
TaeguTec

APK(C)T 12

Inserts



Size	Dimension (mm)					
	INSL	W1	S	APMX	BS	RE(ch)
12	13.0-14.6	8.3	4.5-4.9	11.8-12.5	0.9-2.1	0.4-4.0
1204 PER	13.4-14.6	8.3	4.5-4.9	11.8-12.5	0.9-2.1	0.8
1204-HMM	14.6	8.3	4.7	6.5	1.6	0.8
12...R-PCD	13.3	8.2	4.5	3.5	2	0.4
12...C-PCD	13.3	8.2	4.5	3.5	2.1	(0.25)

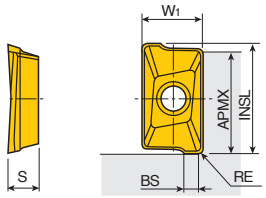


Insert	Designation		Recommended machining conditions		PCD	Coated								Uncoated
			ap (mm)	Feed (mm/tooth)	TD830	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**APKT**	**1204 PER-EM**	3.5-10.0	0.14-0.07		●	●	●	●	●	●	●	●	●	
		120404R-EM	3.5-10.0	0.14-0.07			●		●		●		●	●	
		120416R-EM	3.5-10.0	0.14-0.07		●	●	●	●	●	●		●	●	
		120424R-EM	3.5-10.0	0.14-0.07			●	●	●					●	
		120430R-EM	3.5-10.0	0.14-0.07		●	●	●	●	●	●		●	●	
		120432R-EM	3.5-10.0	0.14-0.07			●		●				●	●	
		120440R-EM	3.5-10.0	0.14-0.07		●		●						●	
	**APKT**	**1204 PER-SM**	3.5-10.0	0.14-0.07		●		●		●			●		
	**APKT**	**1204 PER-SML**	3.5-10.5	0.14-0.06		●		●							
	**APKT**	**1204 PER-EML**	3.5-10.0	0.08-0.04		●		●							
	**APKT**	**1204 PER-EL**	3.5-10.0	0.05-0.03		●	●	●	●						
	**APKT**	**1204 PER-HMM**	3.5-6.5	0.12-0.05		●									
	**APCT**	**120430R-ML**	3.5-10.0	0.08-0.04		●		●							
		120432R-ML	3.5-10.0	0.08-0.04		●		●							
		120440R-ML	3.5-9.5	0.08-0.04		●		●							
	**APCT**	**1204 PER-AL**	3.5-10.0	0.50-0.10											●
		120404R-AL	3.5-10.0	0.50-0.10											●
		120416R-AL	3.5-10.0	0.50-0.10											●
 PCD	**APCT**	**120404R-PCD35**	0.2-3.0	0.30-0.05	●										
		1204C025-PCD35	0.2-3.0	0.30-0.05	●										

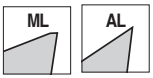
● : Standard items

APCT 17

Inserts



Size	Dimension (mm)					
	INSL	W1	S	APMX	BS	RE
17-ML	18.5	10.8	5.55	16.1	2.07	0.8
17-AL	18.3-18.5	10.8	5.62	16.1	1.55-2.56	0.8-3.0
17-SAL	18.5	10.8	5.62	16.1	2.56	0.8



Insert	Designation	Recommended machining conditions		Coated									Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**APCT 1705 PER-ML**	4.5-13.0	0.12-0.06	●		●							
	**APCT 1705 PER-AL**	4.5-13.0	0.50-0.10										●
	170530R-AL	4.5-13.0	0.50-0.10										●
	**APCT 1705 PER-SAL**	4.5-13.0	0.50-0.10										●

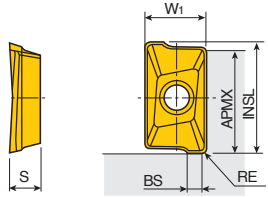

E48-E49

E121-E122

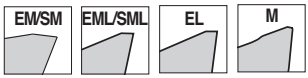
E186-E187

● : Standard items

Inserts



Size	Dimension (mm)					
	INSL	W1	S	APMX	BS	RE
17	16.8–18.5	10.7	5.56	15-16	0.9-3.17	0.4-6.4
17 PER	18.5-18.9	10.7	5.56-6.5	16	0.9-3.17	0.8



Insert	Designation	Recommended machining conditions		Coated									Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**APKT 1705 PER-EM**	4.5-13.0	0.18-0.09	●	●	●	●	●	●		●	●	●
	170504R-EM	4.5-13.0	0.18-0.09	●		●	●		●		●	●	
	170510R-EM	4.5-13.0	0.17-0.09	●	●	●		●	●		●	●	
	170516R-EM	4.5-13.0	0.17-0.09	●	●	●	●		●		●	●	
	170524R-EM	4.5-13.0	0.17-0.09	●	●	●	●	●	●		●	●	
	170530R-EM	4.5-13.0	0.17-0.09	●	●	●	●		●			●	
	170532R-EM	4.5-13.0	0.17-0.09	●	●	●	●	●	●		●	●	
	170535R-EM	4.5-13.0	0.17-0.09	●	●						●	●	
	170540R-EM	4.5-13.0	0.20-0.10	●	●		●					●	
	170548R-EM	4.5-13.0	0.17-0.09	●	●	●	●	●	●	●	●	●	
	170550R-EM	4.5-13.0	0.20-0.10		●		●					●	
	170564R-EM	4.5-13.0	0.18-0.09	●	●	●	●		●		●	●	
	**APKT 1705 PER-M**	4.5-13.0	0.18-0.09				●		●		●	●	●
	170516R-M	4.5-13.0	0.30-0.15				●						
	170532R-M	4.5-13.0	0.20-0.10				●		●		●	●	
	170548R-M	4.5-13.0	0.20-0.10				●						
	**APKT 1705 PER-SM**	4.5-13.0	0.17-0.09	●		●		●			●		
	**APKT 1705 PER-SML**	4.5-14.5	0.17-0.06	●		●							
	**APKT 1705 PER-EML**	4.5-13.0	0.14-0.07	●		●			●				
	**APKT 1705 PER-EL**	4.5-13.0	0.10-0.05	●	●	●	●	●					

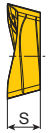
● : Standard items

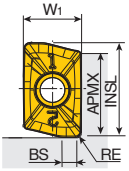
E48-E49,E67 E121-E122 E186-E187 E277-E278

APKT 19

CHASEMILL

Inserts





Size	Dimension (mm)					
	INSL	W_1	S	APMX	BS	RE
19	21	13	7.35	17.9	2.0	1.2

Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**APKT 190712R-M**	5.0-15.0	0.20-0.07	●		●		●	●		●	●	
	**APKT 190712R-MR**	5.0-15.0	0.25-0.10	●		●		●	●			●	
	**APKT 190712R-ML**	5.0-15.0	0.20-0.08	●							●		

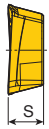
● : Standard items

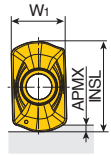
TaeguTec

APKT/AXMT-HF

CHASEMILL

High feed inserts





Size	Dimension (mm)					
	INSL	W1	S	APMX		
06	6.7	4.04	2.6	0.5		
09	10.7	5.94	3.9	1.0		
12	14.2	8.0	5.0	1.2		

Insert	Designation	Recommended machining conditions		Coated								Uncoated		
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10	
	**AXMT 0602R-HF**	0.2-0.5	0.70-0.30	●		●						●		
	APKT 09T3R-HF	0.1-1.0	0.80-0.30	●		●						●		
	1204R-HF	0.2-1.0	0.80-0.10	●		●						●		

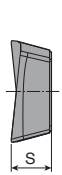
● : Standard items

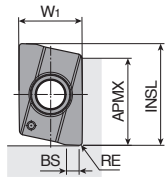
E47-E49 E115-E120

AXCT 06-L

CHASEMILL

Inserts





Size	Dimension (mm)					
	INSL	W1	S	APMX	BS	RE
06	6.5	4.2	2.6	5.5	0.6-1.0	0-0.4

Insert	Designation	Recommended machining conditions		Coated								Uncoated		
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT5525	K10	
	**AXCT 060200R-L**	0.1-5.0	0.08-0.03									●		
	060202R-L	0.2-5.0	0.10-0.03									●		
	060204R-L	0.3-5.0	0.10-0.03									●		

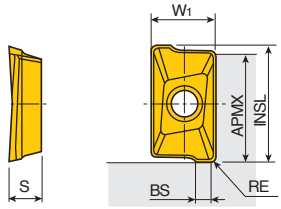
● : Standard items

E114

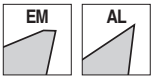
AXMT 06/AXCT 06

CHASEMILL

Inserts



Size	Dimension (mm)					
	INSL	W_1	S	APMX	BS	RE
06-EM	6.7	4.15	2.6	5.5	0-0.76	0.2-2.0
06-AL	6.7	4.20	2.6	5.5	0.23-0.83	0.2-0.8



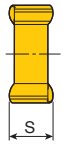
Insert	Designation	Recommended machining conditions		Coated									Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT5525	TT2510	K10
	**AXMT 0602 PER-EM**	1.5-5.0	0.08-0.04	●	●	●	●						●	
	060204R-EM	1.5-5.0	0.13-0.07	●	●	●	●				●		●	
	060208R-EM	1.5-5.0	0.13-0.07	●	●	●	●				●		●	
	060216R-EM	1.5-5.0	0.13-0.07	●	●	●	●						●	
	060220R-EM	1.5-5.0	0.13-0.07	●		●								
	**AXCT 060202R-AL**	1.5-5.0	0.20-0.10											●
	060204R-AL	1.5-5.0	0.20-0.10											●
	060208R-AL	1.5-5.0	0.20-0.10											●

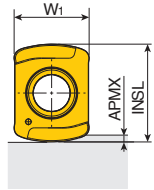
● : Standard items

TaeguTec

BLMP

High feed inserts





Size	Dimension (mm)					
	INSL	W1	S	APMX		
04	6.0	4.2	2.5	0.5		
06	9.0	6.39	3.73	1.0		
09	11.9	9.20	4.79	1.5		
11	14.6	11.2	6.54	2.0		

Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**BLMP 0402R-M**	0.1-0.5	1.50-0.20	●	●						●	
	0603R-M	0.1-1.0	2.50-0.30	●	●	●	●			●	●	
	0904R-M	0.1-1.5	3.50-0.30	●	●	●	●		●	●	●	
	1105R-M	0.3-2.0	4.00-0.30	●	●	●	●				●	
	**BLMP 0603R-MM**	0.1-1.0	2.00-0.20	●	●	●					●	
	0904R-MM	0.1-1.5	3.00-0.20	●	●	●					●	
	**BLMP 0402R-ML**	0.1-0.5	0.80-0.10	●	●							
	0603R-ML	0.1-1.0	0.80-0.10	●	●	●						
	0904R-ML	0.1-1.5	0.80-0.30	●	●	●						
	1105R-ML	0.3-2.0	0.40-0.30	●	●							

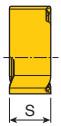
● : Standard items

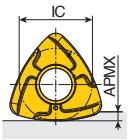
ADVANCE CUTTING
TaeguTec

BLMP 13

CHASE2FEED

High feed inserts





Size	Dimension (mm)					
	IC	S	APMX			
13	12.3	7	2.0			

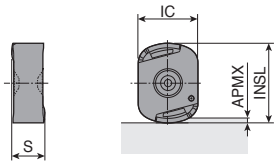
Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**BLMP 1306R-M**	0.5-2.0	4.50-0.40	●	●	●	●		●	●	●	
	**BLMP 1306R-MM**	0.5-2.0	4.50-0.40	●	●	●	●				●	
	**BLMP 1306R-MR**	0.5-2.0	4.50-0.40	●	●	●	●		●	●	●	

● : Standard items

TaeguTec

BNGX 09

High feed inserts



Size	Dimension (mm)					
	INSL	IC	S	APMX		
09	12	9	5	1.5		

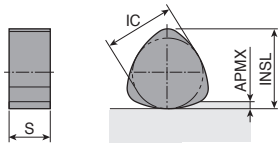
Insert	Designation	Recommended machining conditions		Ceramic		Coated								Uncoated		
		ap (mm)	Feed (mm/tooth)	TC3030	TC3020	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10		
	**BNGX 0904 CH-E04**	0.5-1.0	0.35-0.15	●												

• E04: Honing 0.04-0.05mm

●: Standard items

BNGX 12

High feed inserts



Size	Dimension (mm)					
	INSL	IC	S	APMX		
12	13.6	12	7	2.5		

Insert	Designation	Recommended machining conditions		Ceramic		Coated								Uncoated		
		ap (mm)	Feed (mm/tooth)	TC3030	TC3020	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10		
	**BNGX 1207-E04**	1.0-2.0	0.35-0.15	●												

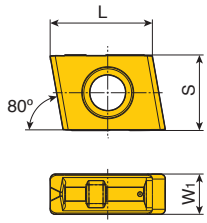
• E04: Honing 0.04-0.05mm

●: Standard items

CNHX

TRIOBALL

Inserts



Size	Dimension (mm)					
	L	S	W1			
131108T	12.7	11	5.4			
160608T	16.0	12	6.4			

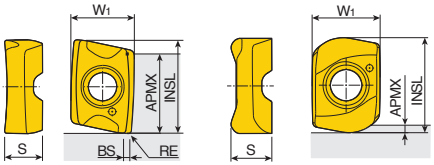
Insert	Designation	Recommended machining conditions		Coated								Uncoated		
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10		
	**CNHX 131108T**	1.2-5.5	0.55-0.17					●						
	160608T	1.2-5.5	0.60-0.20					●						

●: Standard items

CVK(H)T

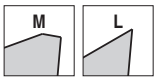
MILLSFEED

Inserts



M/L HF (High Feed)

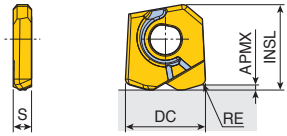
Size	Dimension (mm)					
	INSL	W1	S	APMX	BS	RE
05-M	6.3	4.2	2.6	5.0	0.35	0.2
05-L	6.3	4.1	2.6	5.0	0.30	0.2
05-HF	5.6	4.1	2.5	0.5	-	-



Insert	Designation	Recommended machining conditions		Coated									Uncoated		
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT5525	TT2510	K10		
	**CVKT 0502PNR-M**	0.5-4.0	0.08-0.04	●		●										
	**CVHT 0502PNR-L**	0.5-4.0	0.07-0.03	●		●						●				
	**CVKT 0502R-HF**	0.2-0.4	0.70-0.30	●		●							●			

●: Standard items

High feed inserts



Size	Dimension (mm)					
	INSL	DC	S	APMX	RE	
06	5.9	6	1.6	0.3	0.5	
08	8.4	8	1.8	0.5	0.6	

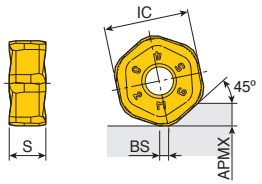
Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT5515	K10
	**HFN 060-M**	0.1-0.2	0.50-0.30									●	
	080-M	0.2-0.3	0.50-0.30									●	

●: Standard items

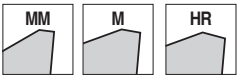

E160-E161

HXK(H)U

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS		
06-MM	14	6.8	3.0	1.3		
06-M	14	6.8	3.0	1.0		
10-MM	19.05	8.3	5.0	1.6		
10-M/HR	19.05	8.3	5.0	1.0		



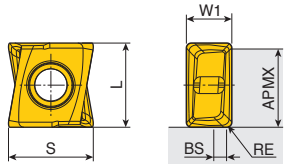
Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10
	**HXHU 0605 ANR-MM**	1.0-3.0	0.25-0.10	●							●	
	1007 ANR-MM	2.0-5.0	0.30-0.10								●	
	**HXKU 0605 ANR-M**	1.0-3.0	0.35-0.10	●				●			●	
	1007 ANR-M	2.0-5.0	0.45-0.10	●				●				
	**HXKU 1007 ANR-HR**	2.0-5.0	0.60-0.10					●				
		2.0-5.0	0.70-0.10							●		

●: Standard items

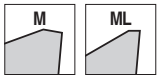
E71-E72

TaeguTec

Inserts



Size	Dimension (mm)					
	L	W1	S	APMX	BS	RE
05	5	2.7	5.0	4.6	-	0.4
09	9	4.5	8.6	8.3	0.6	0.4-0.8
14	13.5	6.7	13.5	12.5	0.9	0.8



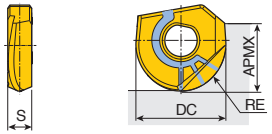
Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10
	**LPKU 050204 PNR-M**	1.0-3.5	0.08-0.04	●		●					●	
	090404 PNR-M	2.5-6.0	0.15-0.06	●		●		●			●	
	090408 PNR-M	2.5-6.0	0.15-0.06	●		●					●	
	140708 PNR-M	3.5-10.0	0.20-0.10	●		●		●			●	
	**LPHU 050204 PNR-ML**	1.0-3.5	0.08-0.04			●					●	
	**LPHU 090404 PNR-M**	2.5-6.0	0.15-0.06			●					●	

●: Standard items

NFB

FINEBALL

Inserts



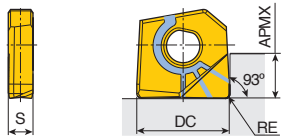
Size	Dimension (mm)					
	DC	S	APMX	RE		
060	6	2.0	4.5-4.8	3.0		
080	8	2.2	6.6-6.9	4.0		
100	10	2.7	8.0-8.2	5.0		
120	12	3.2	9.6-9.7	6.0		
160	16	4.2	12.3-12.7	8.0		
200	20	5.2	14.4-14.7	10.0		
250	25	6.2	16.8-17.4	12.5		
300	30	7.2	18.6-19.2	15.0		
320	32	7.2	18.4-19.2	16.0		

Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT8080	TT8525B	TT7080	TT7515	TT6080	TT5525	TT5515	TT2510	K10
 Straight cutting edge	**NFB 060-FM**	0.05-0.2	0.15-0.05								●		
	080-FM	0.05-0.3	0.20-0.05							●	●		
	100-FM	0.05-0.3	0.20-0.05							●	●		
	120-FM	0.05-0.5	0.30-0.08							●	●		
	160-FM	0.05-0.5	0.30-0.08							●	●		
	200-FM	0.10-1.0	0.30-0.08							●	●		
	250-FM	0.15-1.0	0.40-0.08							●	●		
	300-FM	0.15-1.0	0.40-0.08							●	●		
	320-FM	0.15-1.0	0.40-0.08							●	●		
 Helical cutting edge	**NFB 060-SM**	0.80-2.5	0.20-0.05								●	●	
	080-SM	1.20-3.2	0.25-0.05							●	●	●	
	100-SM	1.50-4.0	0.25-0.05							●	●	●	
	120-SM	1.80-4.8	0.35-0.08							●	●	●	
	160-SM	2.40-6.4	0.35-0.08							●	●	●	
	200-SM	3.00-8.0	0.35-0.08							●	●	●	
	250-SM	3.75-10.0	0.45-0.08							●	●	●	
	300-SM	4.50-12.0	0.45-0.08							●	●	●	
	320-SM	4.80-12.8	0.45-0.08							●	●	●	

● : Standard items

E147-E149

Inserts



Size	Dimension (mm)					
	DC	S	APMX	RE		
060	6	2.0	2.5	0.3-1.0		
080	8	2.2	3.4	0.3-1.0		
100	10	2.7	4.0	0.3-2.0		
110	11	2.7	4.4	0.3-2.0		
120	12	3.2	5.0	0.3-2.0		
130	13	3.2	5.4	0.3-2.0		
160	16	4.2	6.9	0.3-3.0		
170	17	4.2	7.4	1.0-2.0		

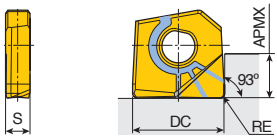
Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT8080	TT8525B	TT7080	TT7515	TT6080	TT5525	TT5515	TT2510	K10
	**NFR 060A-R03**	0.05-0.15	0.10-0.05								●		
	060A-R05	0.10-0.15	0.10-0.05								●		
	060A-R10	0.10-0.15	0.10-0.05								●		
	080A-R03	0.05-0.2	0.12-0.05							●	●	●	
	080A-R05	0.05-0.2	0.12-0.05							●	●	●	
	080A-R06	0.05-0.2	0.12-0.05							●	●	●	
	080A-R10	0.05-0.2	0.12-0.05							●	●	●	
	100A-R03	0.05-0.3	0.12-0.05							●	●	●	
	100A-R05	0.05-0.3	0.12-0.05							●	●	●	
	100A-R08	0.05-0.3	0.12-0.05							●	●	●	
	100A-R10	0.05-0.3	0.12-0.05							●	●	●	
	100A-R15	0.05-0.3	0.12-0.05							●	●	●	
	100A-R20	0.05-0.3	0.12-0.05								●	●	
	110A-R10	0.05-0.3	0.12-0.05							●	●	●	
	110A-R20	0.05-0.3	0.12-0.05							●	●	●	
	120A-R03	0.07-0.3	0.15-0.08							●	●	●	
	120A-R05	0.07-0.3	0.15-0.08							●	●	●	
	120A-R10	0.07-0.3	0.15-0.08							●	●	●	
	120A-R15	0.07-0.3	0.15-0.08							●	●	●	
	120A-R20	0.07-0.3	0.15-0.08							●	●	●	
	130A-R10	0.07-0.3	0.15-0.08							●	●	●	
	130A-R20	0.07-0.3	0.15-0.08							●		●	
	160A-R03	0.08-0.5	0.15-0.08							●	●	●	
	160A-R05	0.08-0.5	0.15-0.08							●	●	●	
	160A-R10	0.08-0.5	0.15-0.08							●	●	●	
	160A-R13	0.08-0.5	0.15-0.08								●	●	
	160A-R15	0.08-0.5	0.15-0.08							●	●	●	
	160A-R20	0.08-0.5	0.15-0.08							●	●	●	
	160A-R30	0.08-0.5	0.15-0.08							●	●	●	
	170A-R10	0.08-0.5	0.15-0.08								●	●	
	170A-R20	0.08-0.5	0.15-0.08								●		

● : Standard items

E147-E152

NFR

Inserts



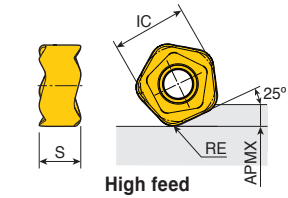
Size	Dimension (mm)					
	DC	S	APMX	RE		
200	20	5.2	8.7-9.2	0.3-3.0		
210	21	5.2	9.2	1.0-2.0		
250	25	6.2	10.6	0.3-3.0		
260	26	6.2	11	1.0-2.0		
300	30	7.1	12.7	1.0-2.0		
320	32	7.1	13.6	1.0-2.0		

Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT8080	TT8525B	TT7080	TT7515	TT6080	TT5525	TT5515	TT2510	K10
	**NFR 200A-R03**	0.1-0.7	0.15-0.08							●	●	●	
	200A-R05	0.1-0.7	0.15-0.08							●	●	●	
	200A-R10	0.1-0.7	0.15-0.08							●	●	●	
	200A-R15	0.1-0.7	0.15-0.08							●	●	●	
	200A-R16	0.1-0.7	0.15-0.08							●	●	●	
	200A-R20	0.1-0.7	0.15-0.08							●	●	●	
	200A-R30	0.1-0.7	0.15-0.08							●	●	●	
	210A-R10	0.1-0.7	0.15-0.08							●	●	●	
	210A-R20	0.1-0.7	0.15-0.08							●	●	●	
	250A-R03	0.1-1.0	0.15-0.08							●	●	●	
	250A-R05	0.1-1.0	0.15-0.08							●	●	●	
	250A-R10	0.1-1.0	0.15-0.08							●	●	●	
	250A-R15	0.1-1.0	0.15-0.08							●	●	●	
	250A-R20	0.1-1.0	0.15-0.08							●	●	●	
	250A-R30	0.1-1.0	0.15-0.08							●	●	●	
	260A-R10	0.1-1.0	0.15-0.08							●	●	●	
	260A-R20	0.1-1.0	0.15-0.08							●	●	●	
	300A-R05	0.1-1.0	0.20-0.08							●	●	●	
	300A-R10	0.1-1.0	0.20-0.08								●	●	
	300A-R20	0.1-1.0	0.20-0.08								●	●	
	320A-R10	0.1-1.0	0.20-0.08							●	●	●	
	320A-R20	0.1-1.0	0.20-0.08								●	●	

● : Standard items

E147-E152

Inserts



Size	Dimension (mm)					
	IC	S	APMX	RE		
05(HF)	7.1	3.8	1.5	1.5		
05(65°)	7.1	3.8	3.3	1.5		
10(HF)	14.2	7.7	3.0	3.0		
10(65°)	14.2	7.7	6.5	3.0		

Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10
	**PTKU 0503R-M** (High feed)	0.2-1.5	1.20-0.20	●		●						
	1006R-M (High feed)	0.3-2.0	2.00-0.30	●		●		●				
	PTKU 0503R-M (65°)	1.0-3.0	0.20-0.07	●		●						
	1006R-M (65°)	1.5-5.0	0.25-0.10	●		●		●				

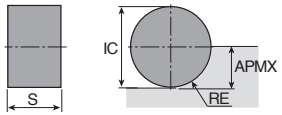
● : Standard items

E68, E94
E163

RNGN 12-FL

CHASESPEED

Inserts



Size	Dimension (mm)					
	RE	IC	S	APMX		
12	6.35	12.7	7.94	6.3		

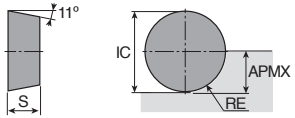
Insert	Designation	Recommended machining conditions		Ceramic		Coated							Uncoated
		ap (mm)	Feed (mm/tooth)	TC3020	TC3030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**RNGN 1207 FL-E**	0.5-3.0	0.25-0.10	●	●								
	1207 FL-E04	0.5-3.0	0.25-0.10	●	●								
	1207 FL-T6	0.5-3.0	0.25-0.10	●	●								

● : Standard items

RPGN 09/12-FL

CHASESPEED

Inserts



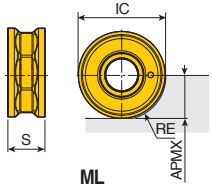
Size	Dimension (mm)					
	RE	IC	S	APMX		
09	4.76	9.52	3.18	4.7		
12	6.35	12.7	4.76	6.3		

Insert	Designation	Recommended machining conditions		Ceramic		Coated							Uncoated
		ap (mm)	Feed (mm/tooth)	TC3020	TC3030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**RPGN 0903 FL-E04**	0.5-1.5	0.15-0.07	●	●								
	1204 FL-E	0.5-2.0	0.20-0.07	●	●								
	1204 FL-E04	0.5-2.0	0.20-0.07	●	●								
	1204 FL-T6	0.5-2.0	0.20-0.07	●	●								

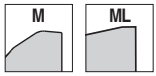
● : Standard items

CHASE2MOLD

Inserts



Size	Dimension (mm)					
	RE	IC	S	APMX		
10	5	10	4.5	5.0		
12	6	12	5.0	6.0		
16	8	16	6.3	8.0		



Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**RNMU1004-ML**	1.5-4.0	0.30-0.05	●		●	●	●				●	
	1205-ML	1.5-5.0	0.35-0.05	●		●	●	●				●	
	1606-ML	2.0-6.5	0.40-0.05	●		●	●	●				●	
	**RNMU1004S-M**	1.5-4.0	0.35-0.05	●		●	●	●				●	
	1205S-M	1.5-5.0	0.40-0.05	●		●	●	●				●	
	1606S-M	2.0-6.5	0.45-0.05	●		●	●	●				●	

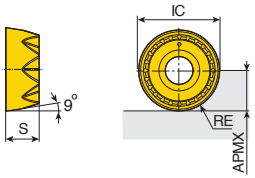
● : Standard items

E85-E86
E142-E143

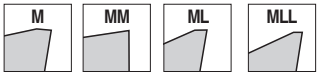
ADVANCE CUTTING
TaeguTec

RYM(H)X

Inserts



Size	Dimension (mm)					
	RE	IC	S	APMX		
08	4	8	3.2	4.0		
10	5	10	4.0	5.0		
12	6	12	4.8	6.0		
16	8	16	6.1	8.0		
20	10	20	7.0	10.0		

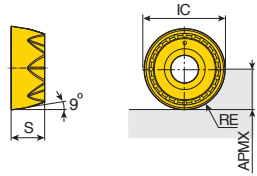


Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**RYMX 0803-M**	1.0-3.5	0.25-0.05	●		●		●	●		●	●	
	1004-M	1.5-4.0	0.30-0.10	●		●	●	●	●		●	●	
	1205-M	1.5-5.0	0.50-0.10	●		●	●	●	●		●	●	
	1205-6M	1.5-5.0	0.50-0.10	●								●	
	1606-M	2.0-6.5	0.50-0.10	●		●	●	●	●		●	●	
	1606-7M	2.0-6.5	0.50-0.10	●				●				●	
	2007-M	3.0-8.0	0.50-0.10	●		●	●	●	●		●	●	
	**RYMX 0803-MM**	1.0-3.5	0.30-0.07	●		●	●						
	1004-MM	1.5-4.0	0.35-0.07	●		●	●						
	1205-MM	1.5-5.0	0.40-0.10	●		●	●	●					
	1205-6MM	1.5-5.0	0.40-0.10	●									
	1606-MM	2.0-6.5	0.45-0.10	●		●	●						
	1606-7MM	2.0-6.5	0.45-0.10	●		●	●						
	RYHX 1205-MM	3.0-8.0	0.40-0.10	●			●						
	**RYMX 0803-ML**	1.0-3.5	0.25-0.05	●		●	●	●					
	1004-ML	1.5-4.0	0.30-0.05	●		●	●	●					
	1205-ML	1.5-5.0	0.35-0.05	●		●	●	●					
	1205-6ML	1.5-5.0	0.35-0.05	●		●							
	1606-ML	2.0-6.5	0.40-0.05	●		●	●	●					
	1606-7ML	2.0-6.5	0.40-0.05	●									
	2007-ML	3.0-8.0	0.50-0.10	●		●	●	●	●				
	RYHX 0803-ML	1.0-3.5	0.25-0.05	●		●	●						
	1004-ML	1.5-4.0	0.30-0.05	●		●	●						
	1205-ML	1.5-5.0	0.35-0.05	●		●	●						
	1606-ML	2.0-6.5	0.40-0.10	●		●							
	**RYMX 0803-MLL**	1.0-3.5	0.25-0.05			●	●						
	1004-MLL	1.5-4.0	0.30-0.05	●		●	●						
	1205-MLL	1.5-5.0	0.35-0.05	●		●	●						
	RYHX 0803-MLL	1.0-3.5	0.25-0.05			●	●						
	1004-MLL	1.5-4.0	0.30-0.05			●							
	1205-MLL	1.5-5.0	0.35-0.05	●		●	●						

● : Standard items

E87-E89 E144-E146

Inserts



Size	Dimension (mm)					
	RE	IC	S	APMX		
08	4	8	3.2	4.0		
10	5	10	4.0	5.0		
12	6	12	4.8	6.0		
16	8	16	6.1	8.0		
20	10	20	7.0	10.0		

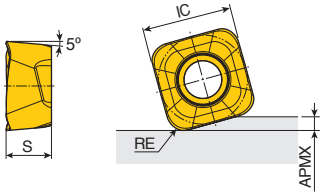
Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**RYMX 0803-MR**	1.0-3.5	0.30-0.05	●				●	●		●	●	
	1004-MR	1.5-4.0	0.35-0.05	●		●			●			●	
	1205-MR	1.5-5.0	0.35-0.05	●		●			●		●	●	
	1606-MR	2.0-6.5	0.40-0.05	●				●	●		●	●	
	2007-MR	3.0-8.0	0.45-0.10	●				●			●	●	
	RYHX 0803-MR	1.5-4.0	0.30-0.05	●								●	
	1004-MR	1.5-5.0	0.35-0.05	●							●	●	
	1205-MR	2.0-6.5	0.35-0.05	●							●	●	
	**RYHX 0803-AL**	1.0-3.5	0.80-0.10										●
	1004-AL	1.5-4.0	0.80-0.10										●
	1205-AL	1.5-5.0	0.80-0.10										●
	1606-AL	2.0-6.5	0.80-0.10										●
	**RYHX 0803-L**	1.0-3.5	0.25-0.05			●							
	1004-L	1.5-4.0	0.30-0.05	●		●	●						
	1205-L	1.5-5.0	0.35-0.05	●		●	●						

● : Standard items

E87-E89 E144-E146

SBMT

Inserts



Size	Dimension (mm)					
	IC	S	APMX	RE		
06	6.3	3.16	1.0	1.0		
09	9.0	4.0	1.2	1.5		
13	13.1	6.7	2.0	2.5		

Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**SBMT 060310R-M**	0.1-1.0	1.50-0.20	●	●							
	090415R-M	0.1-1.2	2.00-0.20	●	●	●	●	●		●	●	
	130625R-M	0.5-2.0	2.00-0.42	●	●	●	●	●		●	●	
	**SBMT 060310R-ML**	0.1-1.0	1.20-0.10	●	●							
	090415R-ML	0.1-1.2	1.50-0.10	●	●							
	130625R-ML	0.5-2.0	2.00-0.42	●	●							
	**SBMT 090415R-MR**	0.1-1.2	2.50-0.30	●			●				●	
	130625R-MR	0.5-2.0	2.00-0.42	●							●	

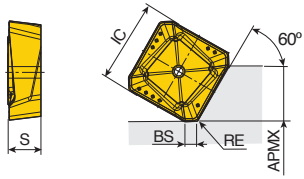
● : Standard items

E99-E100 E173-E175

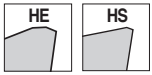
SCKN 21/27

LIONMILL

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
21-HE	20.8	7	13	2	1.5	
21-HS	21	6.95	13	2	1.5	
27-HE	26.8	8.95	18	2	2	
27-HS	27	8.9	18	2	2	



Insert	Designation	Recommended machining conditions		Coated							Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10
	**SCKN 2107 DDTR-HE**	3.5-10.5	0.25-0.13					●	●	●		
	2708 DDTR-HE	5.0-14.5	0.30-0.15					●	●			
	**SCKN 2107 DDTR-HS**	3.5-10.5	0.25-0.13					●				
	2708 DDTR-HS	5.0-14.5	0.25-0.13					●				

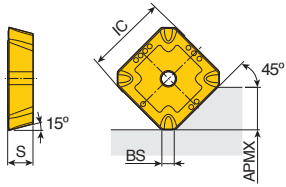
● : Standard items

E69-E70

SDKN 12/15

LIONMILL

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS		
12	12.7	3.18	6.5	2.00		
15	15.875	4.76	8.7	1.89		

Insert	Designation	Recommended machining conditions		Coated							Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10
	**SDKN 1203 MT-HPN**	1.5-6.0	0.25-0.10						●			
	1504 MT-HPN	1.5-8.0	0.25-0.10						●			
	**SDKN 1203 MT-GPN**	1.5-6.0	0.25-0.10						●			

● : Standard items

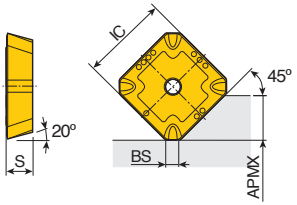
E83

ADVANCE CUTTING
TaeguTec

SEKN 12/15

LIONMILL

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS		
12	12.7	3.18	6.5	2.08		
15	15.875	4.76	8.7	2.06		

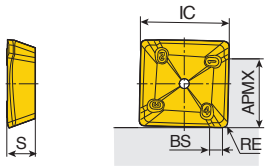
Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10
	**SEKN 1203 AFTN-HPN**	1.5-6.0	0.25-0.10						●			
	1504 AFTN-HPN	1.5-8.0	0.25-0.10						●			

●: Standard items

SEKX 21

LIONMILL

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
21 PETR-M	21.85	7	17	2	1.2	

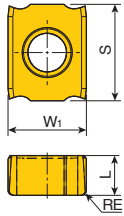
Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10
	**SEKX 2107 PETR-M**	5.5-13.0	0.22-0.10					●			●	

●: Standard items

TaeguTec

TOPSLOT

Inserts



Size	Dimension (mm)					
	S	W1	L	RE		
018	8	6.5	1.8	0.4		
023	8	6.5	2.3	0.4		
028	8	6.5	2.8	0.4		
033	8	6.5	3.3	0.4		

Insert	Designation	Recommended machining conditions		Coated								Uncoated		
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080			K10
	**SLOT 018-04**	-	0.08-0.05	●		●					●			
	023-04	-	0.08-0.05	●		●					●			
	028-04	-	0.08-0.05	●		●					●			
	033-04	-	0.10-0.06	●		●					●			

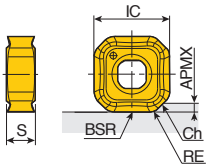
● : Standard items

E191-E192

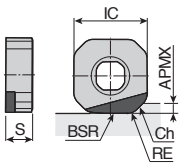
ADVANCE CUTTING
TaeguTec

SNEX(T) 12

Inserts



P-W



CBN

Size	Dimension (mm)					
	IC	S	APMX	RE	BSR	Ch
1204 P-W	12.7	4.76	1.0	2.0	450	2.5
1204-W	12.7	4.76	1.0	2.0	800	-
1205-W	12.7	5.56	1.0	2.0	450	2.5
1204R-CBN	12.7	4.76	1.0	0.8	250	1.5

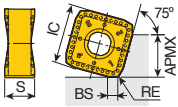
Insert	Designation	Recommended machining conditions		Cermet	CBN	Coated					Uncoated
		ap (mm)	Feed (mm/tooth)	CT3000	TB7015	TT9080	TT9030	TT7515	TT6080	TT2510	K10
	**SNEX 1204 P-W**	0.3-0.8	0.15-0.07						●	●	●
	**SNEX 1204-W**	0.3-0.8	0.15-0.07						●	●	
	**SNET 1205-W**	0.3-0.8	0.15-0.07	●		●			●		
	**SNEX 1204R-CBN**	0.3-0.8	0.12-0.08		●						

● : Standard items

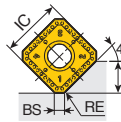
E59-E60

SNG(M)X 13

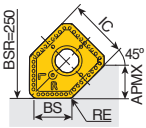
Inserts



ENTN/XTN



AN(T)N/XTN



W

Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
13 ENTN-M	13.5	7.0	9.5	2.2	0.4	
13 ANTN-M/ML/AL	13.5	6.8	7.0	2.2	0.4	
13 ANTR-MP	13.5	6.8	6.0	2.2	0.4	
13 ANTN-W	13.5	6.8	7.0	7.5	1.2	
13 XTN(75°)	13.5	6.8	9.6	1.4	0.4	
13 XTN(45°)	13.5	6.8	6.35	1.4	0.4	

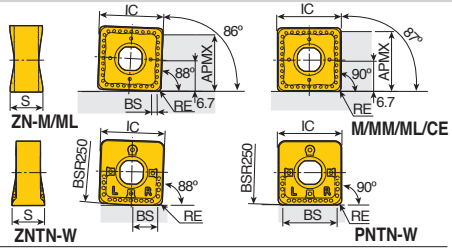
Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**SNGX 1306 ENTN-M**	2.5-8.0	0.20-0.10	●		●		●		●	●		
	SNMX 1306 ENTN-M	2.5-8.0	0.20-0.10	●		●		●		●	●	●	
	**SNGX 1306 ANTN-M**	2.0-6.0	0.20-0.10	●		●		●	●		●		
	1306 ANTN-ML	2.0-6.0	0.25-0.13	●		●					●		
	SNMX 1306 ANTN-M	2.0-6.0	0.20-0.10	●		●		●	●	●	●	●	
	**SNGX 1306 ANN-AL**	2.0-6.0	0.35-0.10										●
	**SNMX 1306 ANTR-MP**	2.0-6.0	0.20-0.10	●		●		●			●		
	**SNMX 1306 XTN**	2.5-6.5	0.20-0.10	●		●			●	●	●	●	
	**SNGX 1306 ANTN-W**	0.2-1.0	0.20-0.10	●							●		

● : Standard items

SNGX 13

CHASE2QUAD

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
13	13.5	6.8-7.0	10-12	1.2-5.3	0.4-1.6	
13 -W	13.5	6.8	10-12	11.5	1.0	

Insert	Designation	Recommended machining conditions		Ceramic	Coated							Uncoated		
		ap (mm)	Feed (mm/tooth)	AS10	TT9080	TT9030	TT8080	TT8525B	TT7080	TT7515	TT6080	TT2510	K10	
	**SNGX 1306 ZN-M**	3.5-10.0	0.20-0.10		●		●		●	●	●			
	**SNGX 1306 ZN-ML**	3.5-10.0	0.25-0.13				●				●			
	1306C08 ZN-M	3.5-10.0	0.20-0.10		●				●	●	●			
	130608-MM	3.5-10.0	0.15-0.08				●							
	130612-MM	3.5-10.0	0.15-0.08								●			
	130616-MM	3.5-10.0	0.15-0.08				●		●					
	130608-ML	3.5-10.0	0.25-0.13							●	●			
	130612-ML	3.5-10.0	0.25-0.13							●				
	**SNGX 130608-M**	3.5-10.0	0.20-0.10		●				●	●	●			
	130612-M	3.5-10.0	0.20-0.10		●					●	●			
	130616-M	3.5-10.0	0.20-0.10		●		●	●	●	●	●			
	130620-M	3.5-10.0	0.20-0.10		●				●	●	●			
	**SNGX 130608-CE**	3.5-10.0	0.25-0.13	●										
	**SNGX 1306 ZNTN-W**	0.2-1.0	0.20-0.10		●						●			
	1306 PNTN-W	0.2-1.0	0.20-0.10		●						●			

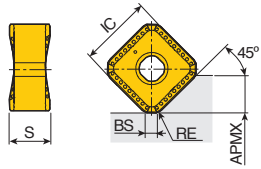
● : Standard items

E63-E64

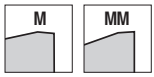
TaeguTec

SNM(H)X 16

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
SNMX 16	16.7	7.8	8.8	2.4	0.8	
SNHX 16	16.7	6.4	8.8	2.4	0.8	



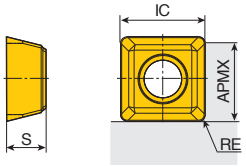
Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10
	**SNMX 1607 ANTN-M**	2.5-7.5	0.25-0.13	●		●		●	●		●	
	**SNHX 1606 ANN-MM**	2.5-7.5	0.20-0.10						●		●	

● : Standard items

E79-E81

CHASEQUAD

Inserts



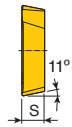
Size	Dimension (mm)					
	IC	S	APMX	RE		
06	6.16	2.56	5.6	0.4		
09	9.8	4.3	9.0	0.8		
11	11.5	4.8	10.7	0.8		
14	14.2	5.2	13.4	0.8		

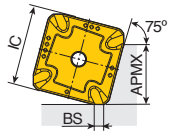
Insert	Designation	Recommended machining conditions		Cermet	Coated							Uncoated		
		ap (mm)	Feed (mm/tooth)	CT7000	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10	
	**SPMG 090404-EM**	2.5-7.5	0.15-0.08					●						
	090408-EM	2.5-7.5	0.15-0.08		●			●		●		●		
	110408-EM	3.0-8.5	0.16-0.09		●	●	●	●		●		●		
	140508-EM	4.0-11.0	0.18-0.10		●		●	●		●		●		
	**SPMT 090408-EM**	2.5-7.5	0.15-0.08		●	●		●		●		●		
	110408-EM	3.0-8.5	0.16-0.09		●	●	●	●		●		●		
	140508-EM	4.0-11.0	0.18-0.10		●		●	●	●	●		●		
	**XOMT 060204**	1.5-4.5	0.06-0.03			●		●						

● : Standard items

SPKN 12/15

Inserts





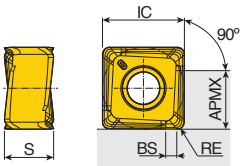
Size	Dimension (mm)					
	IC	S	APMX	BS		
12	12.7	3.18	9.5	1.2-1.6		
15	15.875	4.76	12.5	1.4-1.6		

Insert	Designation	Recommended machining conditions		Coated								Uncoated		
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080		K10	
	**SPKN 1203 EDTR-HPN**	1.5-7.0	0.25-0.10						●					
	1504 EDTR-HPN	1.5-10.0	0.25-0.10						●					
	**SPKN 1203 EDR-HPN**	1.5-7.0	0.25-0.10				●				●			
	1504 EDR-HPN	1.5-10.0	0.25-0.10				●				●			

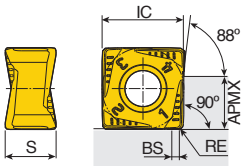
● : Standard items

SQK(H)U

Inserts



07



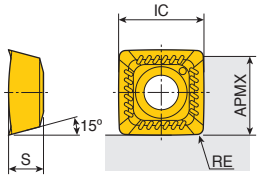
12

Size	Dimension (mm)				
	IC	S	APMX	BS	RE
07	7.0	4.16	5.0	0.9	0.8
12-MP	12.2	8.06	8.5	1.1	0.8
12-MMP	12.2	8.06	8.0	1.1	0.8

Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**SQKU 070308 PNR-M**	1.0-4.0	0.20-0.10	●		●					●	●	
	**SQKU 070308 PNR-ML**	1.0-4.0	0.20-0.10	●		●							
	**SQKU 120608 PNR-MP**	2.0-6.5	0.25-0.15	●				●			●	●	
	**SQHU 120608 PNR-MMP**	2.0-6.5	0.25-0.15	●							●		

●: Standard items

Inserts



Size	Dimension (mm)					
	IC	S	APMX	RE		
114508	11	4.5	10	0.8		
114516	11	4.5	9	1.6		

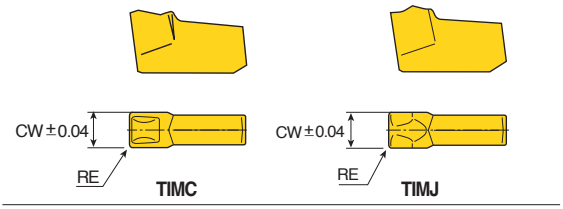
Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10
	**SVKT 114508-M**	10.0	0.15-0.04	●		●					●	
	**SVKT 114508-ML**	10.0	0.15-0.04	●		●						
	114516-ML	9.0	0.15-0.04	●		●						
	**SVKT 114508-L**	10.0	0.12-0.03	●		●						
	**SVHT 114508-L**	10.0	0.12-0.03	●		●						

●: Standard items

E178-E179

TIMC/J

Slotting inserts



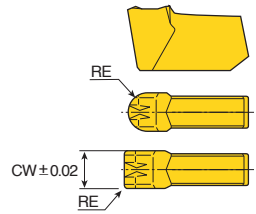
Size	Dimension (mm)					
	Seat size	CW	RE			
1.6	1	1.6	0.16			
2	2	2.2	0.20			
2.4	2	2.4	0.20			
3	4	3.1	0.20			
4	4	4.1	0.25			
4.8	4	4.8	0.28			

Insert	Designation		Recommended machining conditions		Coated								Uncoated
			ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT7220	TT7080	TT6030	TT5100	K10
	**TIMC**	**1.6**	-	0.12-0.04		●		●	●		●		●
		2	-	0.13-0.05		●		●	●		●		●
		2.4	-	0.15-0.06		●							
		3	-	0.18-0.06		●		●	●		●	●	
		4	-	0.20-0.08		●		●	●				
		4.8	-	0.20-0.08				●				●	
	**TIMJ**	**2**	-	0.12-0.04				●				●	
		2.4	-	0.13-0.05				●			●		●
		3	-	0.15-0.05				●				●	●
		4	-	0.18-0.05				●			●		●
		4.8	-	0.18-0.05				●			●		●

● : Standard items

TIPV

Slotting inserts



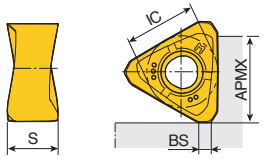
Size	Dimension (mm)			
	Seat size	CW	RE	
TIPV...E ...	3, 4	3.0-4.5	0.4-2.0	
TIPV 1.85-2.15	2	1.85-2.15	0.1-0.2	
TIPV 2.65-4.15	3, 4	2.65-4.15	0.15-0.20	

Insert	Designation		Recommended machining conditions		Coated								Uncoated
			ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT7220	TT7080	TT6030	TT5100	K10
	**TIPV**	**3.00E 0.40**	-	0.18-0.06							●	●	
		4.00E 0.40	-	0.20-0.08								●	
		4.50E 0.40	-	0.20-0.08									
		3.00E 1.50	-	0.18-0.06							●	●	
		4.00E 2.00	-	0.20-0.08							●	●	●
		1.85 0.10	-	0.13-0.05							●	●	
		2.00 0.20	-	0.13-0.05							●	●	
		2.15 0.15	-	0.13-0.05							●	●	●
		2.65 0.15	-	0.18-0.06								●	
		3.00 0.20	-	0.18-0.06								●	●
		3.18 0.20	-	0.18-0.06									●
		4.00 0.20	-	0.20-0.08								●	
		4.15 0.15	-	0.20-0.08								●	

● : Standard items

TNM(G)X

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS		
18	11.65	8	13	1.4		
22	12.7	8	15	2.2		

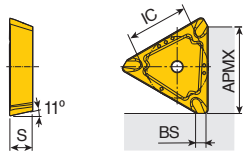
SMR M

Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**TNMX 1806 PNTR-M**	1.0-11.0	0.15-0.07	●		●		●	●	●	●	●	
	**TNMX 1806 PNTR-SMR2**	2.7-11.0	0.20-0.10	●		●		●			●		
	**TNMX 1806 PNTR-SMR3**	2.7-11.0	0.20-0.10	●		●		●			●		
	**TNGX 2207 PNTN**	1.0-13.0	0.20-0.10	●		●		●	●		●		
	TNMX 2207 PNTN	1.0-13.0	0.20-0.10	●		●		●	●		●	●	

● : Standard items

TPKN 22

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS		
22	12.7	4.76	17.6	1.7-1.8		

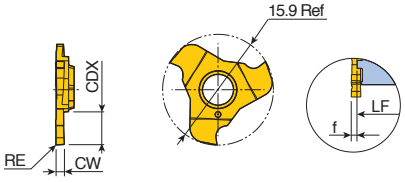
Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10
	**TPKN 2204 PDTR-HPN**	1.5-13.0	0.25-0.10						●			
	**TPKN 2204 PDR-HPN**	1.5-13.0	0.25-0.10				●				●	

● : Standard items

TS16

TOPSLOT

Inserts



Size	Dimension (mm)			Size	Dimension (mm)		
	CW	RE	CDX		CW	RE	CDX
1.2	1.2	0.05	4.6	**3.0**	3.0	0.20	4.8
1.4	1.4	0.10	4.8	**3.25**	3.25	0.15	4.8
1.5	1.5	0.10	4.8	**4.0**	4.0	0.20	4.8
1.7	1.7	0.10	4.8	**4.25**	4.25	0.15	4.8
1.95	1.95	0.15	4.8	**5.0**	5.0	0.20	4.8
2.0	2.0	0.20	4.8	**5.25**	5.25	0.15	4.8
2.25	2.25	0.15	4.8	**6.0**	6.0	0.20	4.8
2.75	2.75	0.15	4.8				

Insert	Designation	Recommended machining conditions		f (mm)	Coated								Uncoated
		CW (mm)	Feed (mm/tooth)		TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10
	**TS16- 1.2-R0.05**	1.20	0.08-0.02	0.45		●							
	1.4-R0.1	1.40	0.10-0.02	0.45		●							
	1.5-R0.1	1.50	0.12-0.03	0.45		●							
	1.7-R0.1	1.70	0.12-0.03	0.45		●							
	1.95-R0.15	1.95	0.15-0.04	0.45		●							
	2.0-R0.2	2.00	0.15-0.04	0.45		●							
	2.25-R0.15	2.25	0.15-0.04	0.65		●							
	2.75-R0.15	2.75	0.20-0.04	1.35		●							
	3.0-R0.2	3.00	0.20-0.04	1.35		●							
	3.25-R0.15	3.25	0.20-0.04	1.35		●							
	4.0-R0.2	4.00	0.25-0.05	2.36		●							
	4.25-R0.15	4.25	0.25-0.05	0.96		●							
	5.0-R0.2	5.00	0.30-0.05	2.15		●							
	5.25-R0.15	5.25	0.30-0.05	2.15		●							
	6.0-R0.2	6.00	0.30-0.05	3.15		●							

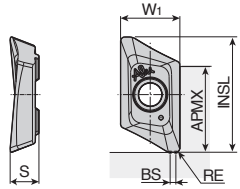
● : Standard items

TaeguTec

XEVT 16/22-AL

CHASE ALU

Inserts



Size	Dimension (mm)					
	INSL	W1	S	APMX	BS	RE
16	18.3-22.2	11.2	5.1-5.5	14-16	0.6-1.5	0.4-5.0
22	22.4-28	13.6	6.8-7.4	18.5-21	1.2-1.7	0.5-6.4

Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10
	**XEVT 160504R-AL**	3.5-12.0	0.4-0.1									●
	160508R-AL	3.5-12.0	0.4-0.1									●
	160512R-AL	3.5-12.0	0.4-0.1									●
	160516R-AL	3.5-12.0	0.4-0.1									●
	160520R-AL	3.5-12.0	0.4-0.1									●
	160524R-AL	3.5-12.0	0.4-0.1									●
	160530R-AL	3.5-12.0	0.4-0.1									●
	160532R-AL	3.5-12.0	0.4-0.1									●
	160540R-AL	3.5-12.0	0.4-0.1									●
	160550R-AL	3.5-12.0	0.4-0.1									●
	220605R-AL	3.5-18.0	0.6-0.1									●
	220608R-AL	3.5-18.0	0.6-0.1									●
	220616R-AL	3.5-18.0	0.6-0.1									●
	220620R-AL	3.5-18.0	0.6-0.1									●
	220630R-AL	3.5-18.0	0.6-0.1									●
	220632R-AL	3.5-18.0	0.6-0.1									●
	220640R-AL	3.5-18.0	0.6-0.1									●
	220650R-AL	3.5-18.0	0.6-0.1									●
	220664R-AL	3.5-18.0	0.6-0.1									●

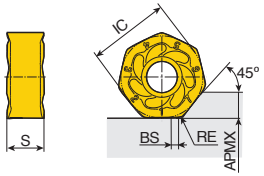
● : Standard items

E57 E134-E135

ADVANCE CUTTING TaeguTec

XNM(H)U 06

Inserts



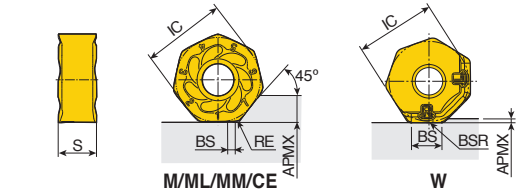
Size	Dimension (mm)					
	IC	S	APMX	BS	RE	
06(M, MM, ML)	13.7	6.2	3.5	1.0	1.0	
06-MT	13.7	6.0	4.2	-	0.8	
06-MLW	13.7	6.2	3.5	1.5	0.2	

Insert	Designation	Recommended machining conditions		Ceramic	Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	AS10	TT9080	TT9030	TT8080	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**XNMU 0605 ANR-M**	1.0-3.0	0.20-0.10		●				●		●		
	**XNHU 0605 ANN-MM**	1.0-3.5	0.20-0.10		●					●	●	●	
	**XNHU 0605 ANN-ML**	1.0-3.5	0.20-0.10		●		●				●		
	**XNMU 060508-MT**	1.0-4.2	0.30-0.10				●						
	**XNHU 0605 ANR-MLW**	0.3-1.0	0.15-0.08				●						

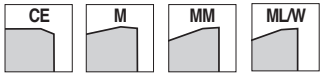
● : Standard items

XNM(H)U 09

Inserts



Size	Dimension (mm)					
	IC	S	APMX	BS	RE	BSR
09	18.5	6.35-7.4	5.0	1.0	1.0	-
09-W	18.5	6.35	1.0	7.1	-	250



Insert	Designation	Recommended machining conditions		Ceramic	Coated							Uncoated
		ap (mm)	Feed (mm/tooth)	AS10	TT9080	TT8080	TT8525B	TT7080	TT7515	TT6080	TT2510	K10
	**XNMU 0906 ANTR-M**	1.5-4.0	0.20-0.10		●	●	●	●	●	●	●	
	**XNMU 0906 ANTN-ML**	1.5-4.0	0.25-0.13		●	●	●	●				
	XNHU 0906 ANTN-ML	1.5-4.0	0.25-0.13		●					●		
	**XNHU 0906 ANTN-MM**	1.5-4.0	0.25-0.13		●		●		●	●	●	
	**XNHU 0906 ANTN-CE**	1.5-4.0	0.25-0.135	●								
	**XNHU 0906 ANTN-W**	0.1-1.0	0.20-0.10							●		

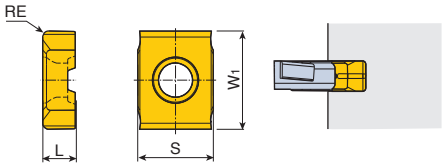
● : Standard items

E74-E76

ZNHT

TOPSLOT

Inserts



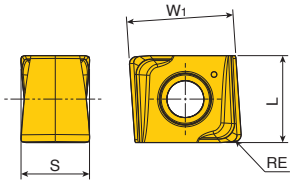
Size	Dimension (mm)					
	W_1	S	L	RE		
018	10	7.5	1.8	0.2-0.8		
023	10	7.5	2.3	0.2-0.8		
028	10	7.5	2.8	0.2-0.8		
033	10	7.5	3.3	0.2-0.8		
038	13	10	3.8	0.4-0.8		
043	13	10	4.3	0.4-0.8		
048	13	10	4.8	0.4-0.8		
053	13	10	5.3	0.4-0.8		

Insert	Designation	Recommended machining conditions		Coated								Uncoated		
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080		K10	
	**ZNHT 018-04**	-	0.08-0.05	●		●					●			
	018-08	-	0.08-0.05	●		●								
	023-04	-	0.08-0.05	●		●					●			
	023-08	-	0.08-0.05	●		●								
	028-04	-	0.10-0.15	●		●					●			
	028-08	-	0.10-0.15	●		●								
	033-04	-	0.12-0.05	●		●					●			
	033-08	-	0.12-0.05	●		●								
	038-04	-	0.12-0.05	●		●					●			
	038-08	-	0.12-0.05	●		●					●			
	043-04	-	0.15-0.05	●		●					●			
	043-08	-	0.15-0.05	●		●					●			
	048-04	-	0.15-0.05	●		●					●			
	048-08	-	0.15-0.05	●		●					●			
	053-04	-	0.15-0.05	●		●					●			
	053-08	-	0.15-0.05	●		●					●			
	**ZNHT 018-04-ML**	-	0.08-0.05			●					●			
	023-04-ML	-	0.08-0.05			●					●			
	028-04-ML	-	0.08-0.05			●					●			
	033-04-ML	-	0.12-0.05			●					●			
	038-04-ML	-	0.12-0.05			●					●			
	043-04-ML	-	0.12-0.05			●					●			
	048-04-ML	-	0.12-0.05			●					●			
	053-04-ML	-	0.12-0.05			●					●			
	**ZNHT 018-02-AL**	-	0.35-0.10										●	
	023-02-AL	-	0.35-0.10										●	
	028-02-AL	-	0.35-0.10										●	
	033-02-AL	-	0.35-0.10										●	
	038-04-AL	-	0.35-0.10										●	
	043-04-AL	-	0.35-0.10										●	
	048-04-AL	-	0.35-0.10										●	
	053-04-AL	-	0.35-0.10										●	

● : Standard items

TaeguTec

Inserts



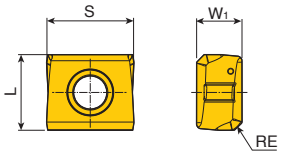
Size	Dimension (mm)					
	L	W1	S	RE		
080	7.6	10.7	6.36-6.49	0.8		
110	10.6	13.0	8.38-8.42	0.8		
140	14	13.0	9.59-9.65	0.8		

Insert	Designation	Recommended machining conditions		Coated								Uncoated
		ap (mm)	Feed (mm/tooth)	TT9080	TT9030	TT8080	TT8020	TT8525B	TT7080	TT7515	TT6080	K10
	**ZNHU 080-08**	-	0.16-0.08	●		●			●		●	
	110-08	-	0.20-0.10	●		●			●		●	
	140-08	-	0.21-0.11	●		●			●		●	
	**ZNHU 080-08-ML**	-	0.010-0.05	●		●					●	
	110-08-ML	-	0.12-0.06	●		●					●	
	140-08-ML	-	0.12-0.06	●		●						

● : Standard items

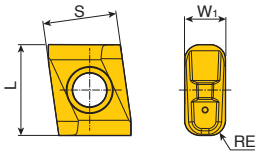
Tailor-made Insert

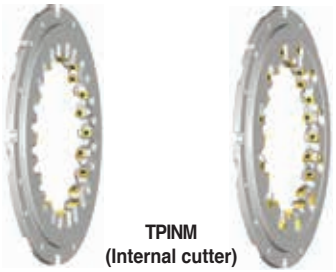
Tangential inserts



TTRC
(Slotting cutter)

Insert	Designation	Dimension (mm)				
		L	S	W1	RE	
	**LNC 1060-C**	10.0	11.5	6.0	chamfer	
	**LNC 137020-L**	13.6	11.6	6.7	2.0	
	**LNCX 136508 PNR-ML**	13.0	10.6	6.5	0.8	



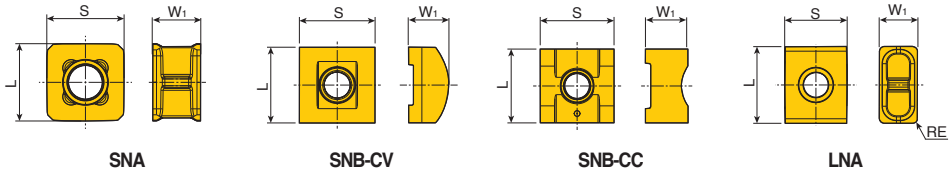


TPINM
(Internal cutter)

Insert	Designation	Dimension (mm)				
		L	S	W1	RE	
	**PMIN 120905-M**	12.0	9.7	5.4	2.0	
	PMIN 130907-M	13.5	9.7	7.0	2.0	
	PMIN 150907-M	15.0	9.9	7.0	2.0	
	PMIN 180907-M	18.0	9.7	7.0	2.0	

Tailor-made Insert

Tangential inserts



SNA SNB-CV SNB-CC LNA

Insert	Designation	Dimension (mm)				
		L	S	W1	RE	
	**SNA 1065-M**	10.5	10.5	6.5	-	
	SNA 1370-M	13.0	13.0	7.0	-	
	SNA 1680-M	16.0	16.0	8.0	-	
	**SNB 1375-CV**	13.0	13.0	7.5	-	
	SNB 1685-CV	16.0	16.0	8.5	-	
	**SNB 1375-CC**	13.0	13.0	7.5	-	
	SNB 1685-CC	16.0	16.0	8.5	-	
	**LNA 137008-M**	13.5	10.0	6.7	0.8	
	LNA 168008-M	16.5	14.0	8.0	0.8	

- CV: Convex, CC: Concave
- Various corner radii are available for SNB insert

TRMT
(Form profile cutter)

Recommended Cutting Conditions

Machining data for MAXI-SLOT

ISO	Material		Hardness HB	Vc(m/min)	Feed (mm/tooth)		
	Material	AISI/SAE/ASTM			TR13	TR15	TR17
P	Non-alloy steel	1020	130-180	120-200	0.04-0.12	0.05-0.15	0.06-0.15
	Low alloy steel	4030	260-300	200-300	0.04-0.12	0.05-0.15	0.06-0.15
	Low alloy steel	3135	HRC 35-40	80-120	0.02-0.06	0.03-0.12	0.04-0.12
	High alloy steel	H13	200-220	100-150	0.03-0.07	0.04-0.12	0.04-0.12
M	Martensitic stainless steel	420	200	100-150	0.02-0.06	0.04-0.12	0.04-0.12
	Austenitic stainless steel	304L	200	80-120	0.02-0.06	0.03-0.10	0.03-0.12
K	Gray cast iron	Class 40	250	150-200	0.04-0.12	0.05-0.20	0.05-0.20
	Malleable cast iron	Class 65 45 12	200	130-180	0.04-0.10	0.05-0.18	0.05-0.18
S	High temp. alloys	Inconel 718	HRC 36-40	20-30	0.015-0.10	0.02-0.12	0.02-0.12
		AMS R56400	HRC40-45	30-40	0.015-0.06	0.02-0.12	0.02-0.12

• For more information of material groups, see the materials & grades "material conversion table".

Steel Stainless steel Cast iron Nonferrous High temp. alloys Hardened steel

Machining data for CBN grade

ISO	Material	D.O.C. (mm)	Grade		
			TB7015		
			Cutting speed Vc(m/min)	Feed (mm/tooth)	Cutting edge
P	Bearing steel	< 2	180 - 220	0.05 - 0.25	Chamfer
	Ferrous powder metal	< 2	150 - 300	0.1 - 0.15	Chamfer
K	Grey cast iron HB 200 - 280	< 0.5	500 - 1500	0.1 - 0.3	Chamfer hone
		0.5 - 2.0	500 - 1100	0.1 - 0.25	Chamfer
	Compated graphite iron (CGI)	< 0.5	400 - 600	0.1 - 0.2	Hone
S	Co based > 35 HRC	0.5 - 2.0	150 - 200	0.05 - 0.15	Chamfer
	Ni based > 35 HRC		120 - 150	0.05 - 0.15	Chamfer
	Fe based > 35 HRC		60 - 120	0.05 - 0.15	Chamfer
	Cr based > 35 HRC		50 - 75	0.05 - 0.15	Chamfer
H	Hardened steels > 45 HRC	< 0.5	80 - 180	0.1 - 0.25	Chamfer
	Hardened cast iron	< 2	80 - 200	0.1 - 0.15	Chamfer

• For more information of material groups, see the materials & grades "material conversion table".

Steel Stainless steel Cast iron Nonferrous High temp. alloys Hardened steel

Recommended Cutting Conditions

Machining data

Cutting Speed :Vc(m/min)

ISO	Material		Condition	Tensile strength (N/mm^2)	Hardness HB	Material No.	Uncoated		
							K10	TT9080	TT9030
P	Non-alloy steel, cast steel, free cutting steel	< 0.25%C	Annealed	420	125	1		220-370	190-310
		>= 0.25%C	Annealed	650	190	2		180-310	160-260
		< 0.55%C	Quenched and tempered	850	250	3		115-195	105-185
		>= 0.55%C	Annealed	750	220	4		130-210	120-200
			Quenched and tempered	1000	300	5		115-175	95-160
	Low alloy steel and cast steel (less than 5% of alloying elements)		Annealed	600	200	6		175-265	160-250
			Quenched and tempered	930	275	7		130-215	120-200
				1000	300	8		105-185	95-175
				1200	350	9		95-160	80-150
	High alloy steel, cast steel and tool steel		Annealed	680	200	10		85-155	75-135
			Quenched and tempered	1100	325	11		75-135	65-120
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12		115-270	100-250
			Martensitic	820	240	13		100-230	80-200
			Austenitic	600	180	14		120-275	110-260
K	Gray cast iron (GG)		Ferritic		160	15		130-300	
			Pearlitic		250	16		120-280	
	Cast iron nodular (GGG)		Ferritic		180	17		110-220	
			Pearlitic		260	18		100-200	
	Malleable cast iron		Ferritic		130	19		150-250	
			Pearlitic		230	20		100-250	
N	Aluminum - wrought alloy		Not cureable		60	21	550-700		
			Cured		100	22	600-750		
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23	800-900		
			Cured		90	24	650-800		
		>12% Si	High temp.		130	25	250-320		
	Copper alloys	>1% Pb	Free cutting		110	26	300-400		
			Brass		90	27	300-400		
			Electrolitic copper		100	28	210-280		
	Non-metallic		Duroplastics, fiber plastics			29	150-250		
			Hard rubber			30	150-250		
S	High temp. alloys	Fe based	Annealed		200	31		40-80	
			Cured		280	32		30-60	
		Ni or Co based	Annealed		250	33		35-70	
			Cured		350	34		30-60	
			Cast		320	35		35-65	
	Titanium, Ti alloys			Rm 400		36		90-130	
			Alpha+beta alloys cured	Rm 1050		37		35-70	
H	Hardened steel		Hardened		55HRC	38		40-75	40-60
			Hardened		60HRC	39		30-55	30-55
	Chilled cast iron		Cast		400	40		70-105	60-100
	Cast iron nodular		Hardened		55HRC	41		50-65	40-60

• For more information of material groups, see the materials & grades "material conversion table"

Steel Stainless steel Cast iron Nonferrous High temp. alloys Hardened steel

Recommended Cutting Conditions

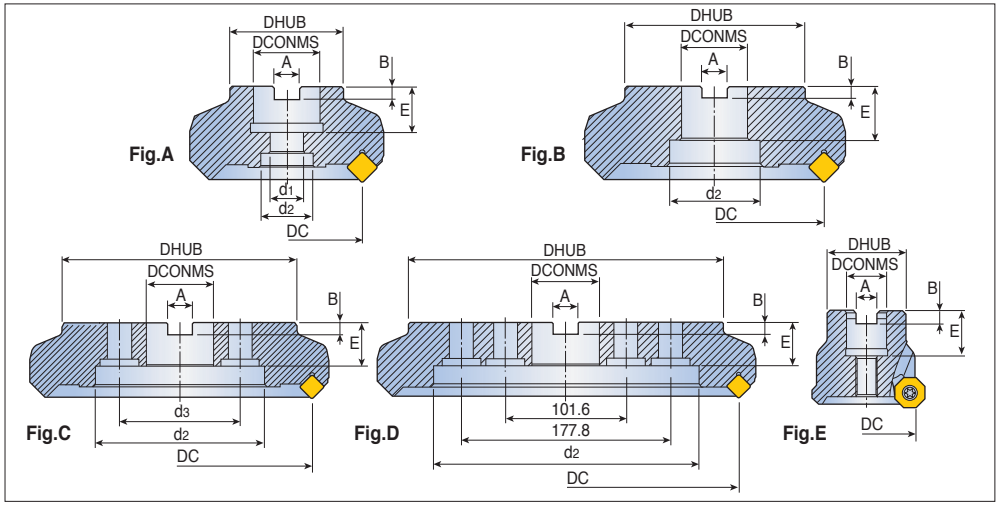
Machining data

Cutting speed :Vc(m/min)

Coated									Ceramic				Cermet
TT7080	TT8525B	TT8080	TT8020	TT6080	TT7515	TT2510	TT5515	TT5525	AS10	AS20	TC3020	TC3030	CT7000
250-410	160-270	170-250	150-210				260-280	150-210					270-510
200-380	140-210	130-220	120-200				200-230	120-200					230-450
140-230	90-160	90-170	70-140				160-220	70-140					150-370
160-250	100-170	100-190	90-150				160-220	90-150					210-430
135-195	80-140	70-160	60-130				140-180	60-130					150-280
190-290	140-200	150-220	130-170				160-220	130-170					150-285
150-240	90-160	110-190	70-150				120-180	70-150					100-190
135-225	70-150	80-160	60-110				130-180	60-110					90-170
120-190	60-110	70-120	50-100				140-180	50-100					80-130
100-150	60-90	70-110	50-80				130-180	60-100					100-170
90-140	50-90	60-100	40-80				70-120	60-120					80-120
		90-200	75-170				80-150	75-170					
		70-160	60-130				60-140	60-130					
		100-210	80-180				60-120	80-180					
				180-350	200-390	250-430	80-260		400-900				
				140-280	160-300	190-270	130-240		250-600				
				115-230	130-250		150-270		350-800				
				100-200	110-210		90-270		250-600				
				190-310	210-330		150-270		360-540				
				120-260	130-280		140-240		300-440				
		30-65					20-40	30-55		500-900			
		20-45					20-30	20-45		500-900			
		25-50					20-30	25-50		500-900	600-1200	600-1200	
		20-40					20-30	20-40		500-900	600-1200	600-1200	
		20-45					30-70	20-45		500-900	600-1200	600-1200	
		60-100					30-70	50-90		500-900			
		25-55					30-70	25-55		500-900			
				60-90		70-180							
				50-90		50-130							
				60-100		60-120	60-80						
				60-80		70-95	30-50						

Mounting Reference

Arbor style



Dimension (mm)										Fig.	Arbor
DC	DCONMS	A	B	E	DHUB		d_1	d_2	d_3		
					For mold & die	For general					
32	16	8.4	5.6	20	30	-	-	-	-	E	SEM16
32	16	8.4	5.6	20	30	-	9	13.5	-	A	SEM16
40	16	8.4	5.6	20	38	-	9	13.5	-	A	SEM16
40	22	10.4	6.3	22	38	-	11	17	-	A	SEM22
50	22	10.4	6.3	22	40	45	11	17	-	A	SEM22
63	22	10.4	6.3	22	47	-	11	17	-	A	SEM22
80	25.4	9.526	6	26	-	70	13	20	-	A	FMA25.4
80	27	12.4	7	28	58	70	13	22	-	A	SEM27
100	31.75	12.7	8	32	-	80	18	26	-	A	FMA31.75
100	31.75	12.7	8	32	-	80	-	46	-	B	FMA31.75
100	32	14.4	8	26	66	85	18	26	-	A	SEM32
100	32	14.4	8	26	66	85	-	46	-	B	SEM32
125	38.1	15.875	10	38	80	-	-	56	-	B	FMA38.1
125	40	16.4	9	32	85	-	22	32	-	A	SEM40
125	40	16.4	9	32	85	-	-	56	-	B	SEM40
160	40	16.4	9	32	110	-	-	90	66.7	C	FM40
160	50.8	19.05	11	38	100	-	-	72	-	B	FMA50.8
200	47.625	25.4	14	38	130	-	-	132	101.6	C	FMA47.625
200	60	25.7	14	40	130	-	-	132	101.6	C	FM60
250	47.625	25.4	14	38	160	-	-	150	101.6	C	FMA47.625
250	60	25.7	14	40	160	-	-	150	101.6	C	FM60
315	47.625	25.4	14	38	220	-	-	224	-	D	-
315	60	25.7	14	40	220	-	-	220	-	D	-

• For Face Mill arbors, please refer to TaeguTec tooling system(part G)

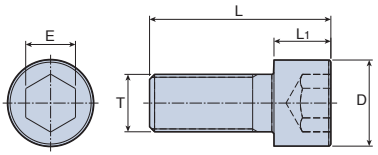
Mounting Reference

Mounting bolt

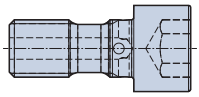
SH type

Designation	Dimension (mm)					Cutter size
	D	L	L_1	T	E	
SH M8x1.25x25(-C)	13	33	8	8	6	32,40
SH M8x1.25x30(-C)	13	38	8	8	6	32,40
SH M8x1.25x35(-C)	13	43	8	8	6	32,40
SH M10x1.5x30(-C)	16	40	10	10	8	50, 63
SH M12x1.75x35(-C)	18	47	12	12	10	80
SH M16x2x35(-C)	24	51	16	16	14	100
SH M20x2.5x40(-C)	30	60	20	20	17	125

• "-C": Bolt with hole for internal coolant



SH

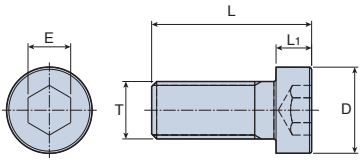


SH-C

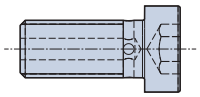
LH type

Description	Dimension (mm)					Cutter size
	D	L	L_1	T	E	
LH M10x1.5x25(-C)	16	31.5	6.5	10	8	50, 63
LH M12x1.75x30(-C)	18	36.9	6.9	12	8	80
LH M16x2x35(-C)	24	45	10	16	12	100

• "-C": Bolt with hole for internal coolant



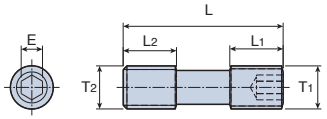
LH



LH-C

KTB, TCS type

Description	Dimension (mm)					
	L	L_1	L_2	T_1	T_2	E
KTB 32B	30	10	10	M8X1.0	M8X1.25	4
TCS10-40	40	10	15	M10X1.25	M10X1.5	5



KTB, TSC

▶ Quick change cutter adapter

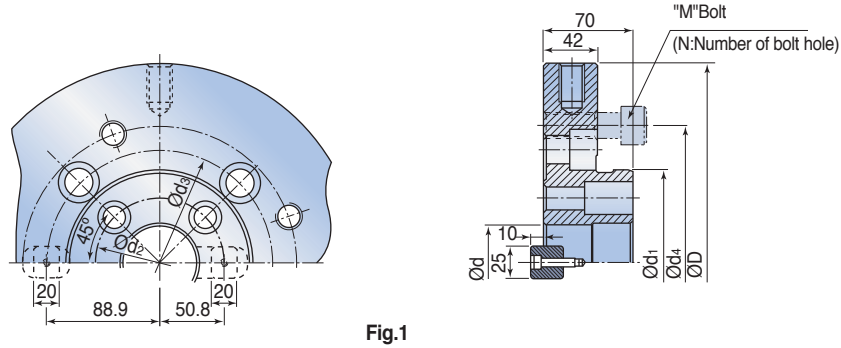


Fig.1

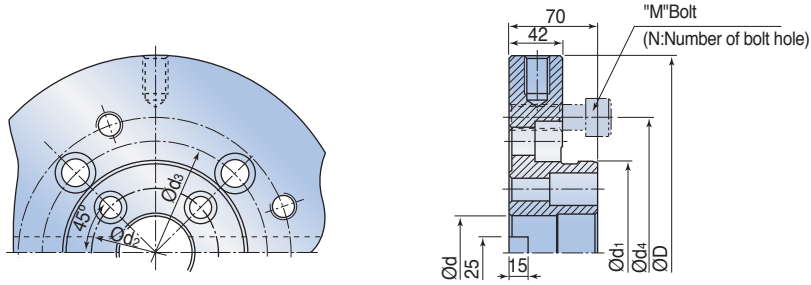


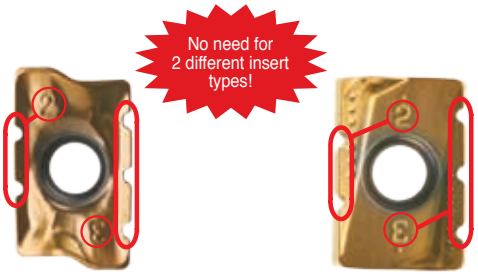
Fig.2

Designation	Dimension (mm)								Weight (Kg)
	D	d	d_1	d_2	d_3	d_4	M	N	
QA 08 K/M	198	47.625	63.5	101.6	-	114.3	M16x40	4	10
QA 10 K/M	248	60	133.35	101.6	-	177.8	M16x50	4	15
QA 12 K/M	313	60	146.05	101.6	177.8	215.9	M20x50	4	19.7
QA 14 K/M	353	60	215.9	101.6	177.8	260.4	M20x50	6	24
QA 16 K/M	398	60	254.0	101.6	177.8	304.8	M20x50	6	29

• K: Adapter with setting key (Fig.1)
M: Adapter without setting key (Fig.2)

How to use splitter

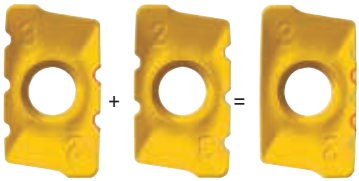
- 3 splitting grooves on one cutting edge and 2 splitting grooves on the opposite side



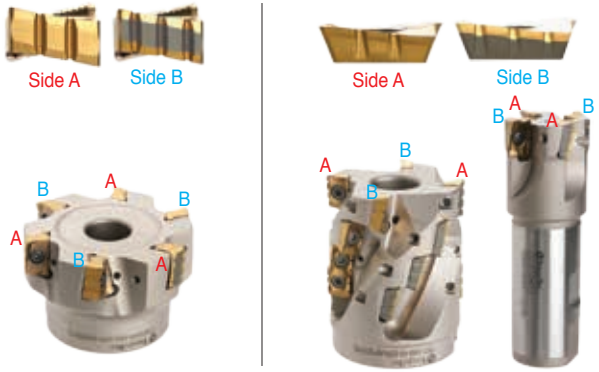
- Full proof configuration-inserts have metal color appearance only on the 3 groove side for simplified mounting

Notice: When insert mounting, ensure they are mounted in a staggered formation
i.e. 1st tooth-2 groove side; 2nd tooth-3 groove side and repeat action for the remaining teeth

- Both cutting edges split chip to small pieces for cutting load reduction and create complete cutting edge when combined.

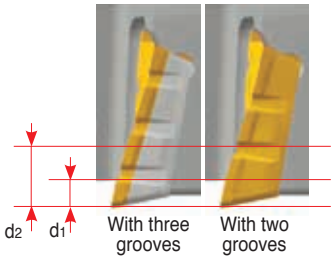


- For optimum machining efficiency, use even numbered flute type cutters

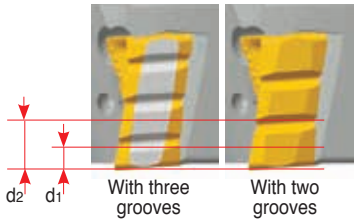


Also applicable to odd numbered flute type cutters

■ The splitter inserts effective in axial depth of cuts ≥ d_1

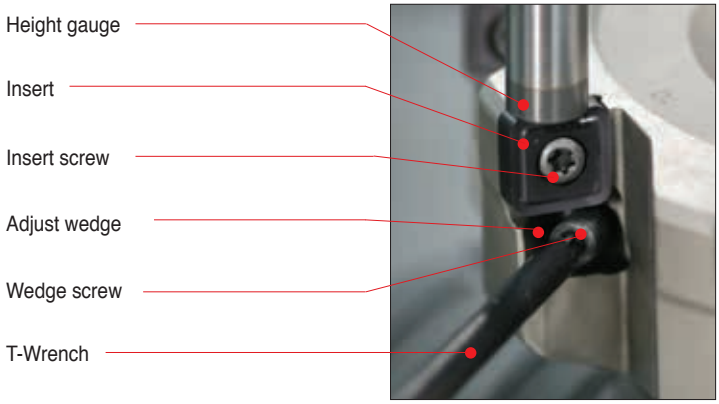


Depth of cut	APKT 17	APKT 12
d_1	3mm	2.4mm
d_2	6.5mm	5.2mm



Depth of cut	ANHX 16
d_1	2.5mm
d_2	6mm

Setting instructions



❶ Move the adjust wedge to its bottom-most position by rotating the wedge screw clockwise.

※Please avoid using too much force.

❷ Mount new cutting edge of insert. Make sure that the insert pocket is thoroughly cleaned before mounting insert.

※Please fix the insert screw completely as readjustment is not expected once it is done.

❸ Measure the Runout of the cutter when all inserts are mounted and select the highest insert as a reference.

※Please ensure that insert edge does not get damaged during setting.
Use optimum dial pressure only.

❹ Set the height of cutter, raising the reference insert by turning the wedge screw counter clockwise.

※Increase height by 0.01mm at least from the highest insert.

❺ -1 Adjust axial Runout of the remaining inserts with the same process as used with the reference insert.

※Please note that max adjustment height should not exceed 0.1mm(.004")

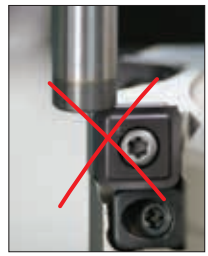
❺ -2 Adjust Runout in the range of 0.005mm rotating the wrench gradually.

❺ -3 If it is beyond the acceptable range, please reset it with the orderof ❶-❷-❺

❻ Runout adjustment is completed.(you don't have to clamp the insert screw anymore once it is fixed.)

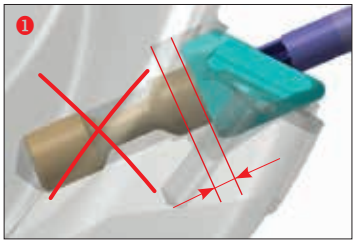
Gauge user guide

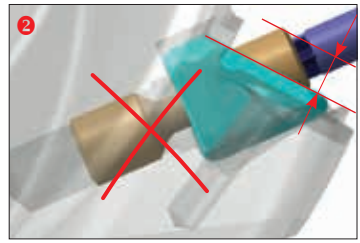


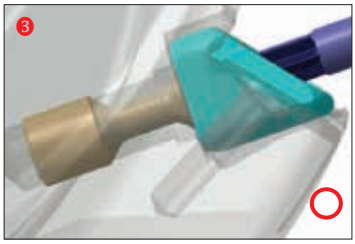



Special precautions

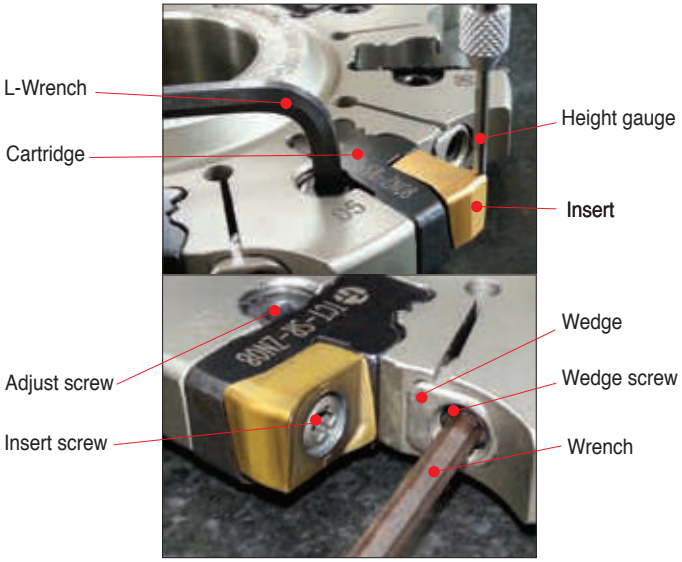
- While loading a new insert corner, ensure that the adjust wedge is in the bottom-most position Bottom out the adjust wedge completely before unclamping the insert from cutter
- Clean the insert and pocket thoroughly before mounting fresh insert /corner
- While assembling adjust wedge onto cutter body, please ensure that the adjust wedge is tightened until it reaches the bottom





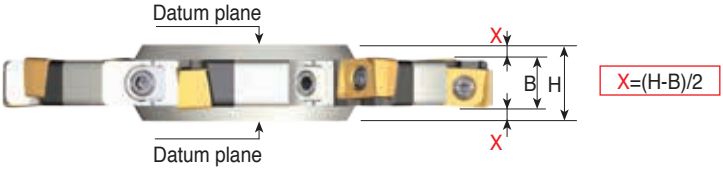


TOPSLOT component names



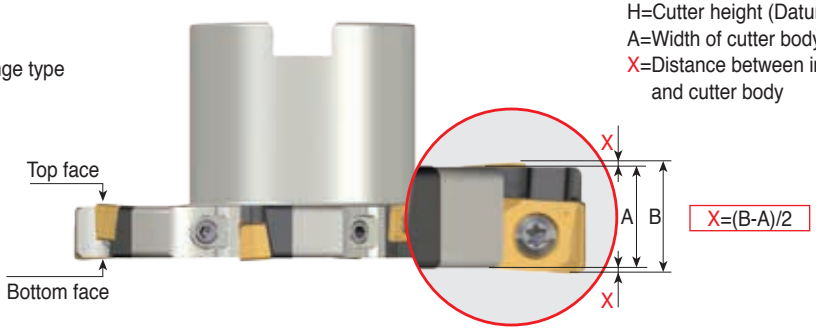
TOPSLOT setup instructions

■ Disk type



B=Cutting width (Target width)
H=Cutter height (Datum)
A=Width of cutter body
X=Distance between insert and cutter body

■ Flange type



Setting procedure

■ Disk type

❶ Index unused inserts firmly onto the cartridge.

❷ Unfasten the wedge screw 1 turn counter-clockwise.

❸ After fastening the wedge around 80%, adjust the cartridge to the desired "X" value after setting the datum zero point.

❹ Follow the same method about other cartridges. (the same as opposite side)

❺ After setting all cartridges, sequentially fasten the wedge 100% over two or three times.

- When adjusting cartridge to the "X" value, set the location of cartridge higher than "X" value and then adjust the cartridge to the "X" value.
- Clockwise rotation : cartridge descends.
- Counter-clockwise rotation : cartridge ascends.

■ Flange type

❶ For setting of bottom face, repeat disk type steps 1-4. (The datum is bottom plane of flange type cutter.)

❷ For top face set-up, the use of setting plate is mandatory and the height gauge must be reset to '0' for each insert.

❸ Put the cutter bottom face on the setting plate and unfasten wedge screw 1 turn counter-clockwise

❹ After fastening the wedge around 80%, adjust the cartridge to the desired (A+X) value.

❺ Follow the same method about other cartridges.

❻ After setting all cartridges, sequentially fasten the wedge 100% over two or three times.

- When adjusting cartridge to the "X" value, set the location of cartridge higher than "X" value and then adjust the cartridge to the "X" value.
- Clockwise rotation: cartridge descends.
- Counter-clockwise rotation: cartridge ascends.

Setting notice

■ Important set-up points

- All adjustments must be done on a plane, flat surface.
- For improved accuracy, remove any foreign substances from the insert and insert pocket surfaces before clamping.
- During reassembly wedges and wedge screws, you must apply lubricant of the friction surface. (Fig.1)
- "X" value must be equal for both top and bottom faces when adjusting the width of slot. (Fig.2)
- Width of cut must be adjusted within the range of the laser marked on the cutter. (Fig.3)
  Ex) WIDTH 12-13 / WIDTH 20-23
- When adjusting cartridge to the "X" value, set the location of cartridge higher than "X" value and then adjust the cartridge to the "X" value.

Fig.1 Lubricant

Fig.2 "X" setting

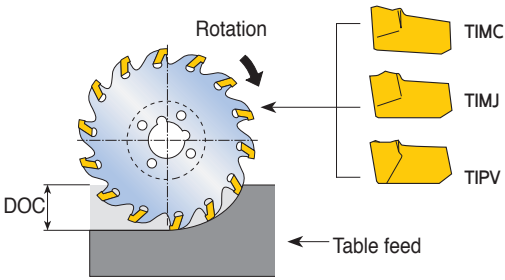
Fig.3 WIDTH

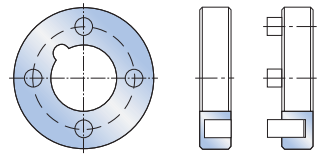
Narrow width slotting cutters

- Metric cutting diameters:
  75mm, 100mm, 125mm, 160mm, 250mm
- Cutting width ranges: 1.6mm - 6.35mm
- Geometry: Positive Rake
- Applications: Slotting and sawing
- Materials: Carbon steels, alloy steels, stainless steels, cast iron, aluminum and exotics

■ Features / Benefits of slotting cutters
- Narrow width applications to 1.6mm
- Simple easy-to-mount inserts
- Secure insert retention self-positioning insert stopper for repeatability
- Drive flange mounting for extra stability
- Minimal radial runout
- Efficient chip evacuation
- Reduced cutting forces
- Improved tool life
- Economical

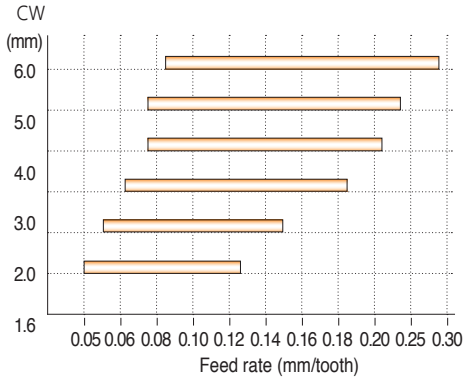
Recommended feed rates for - TSC slotting cutters

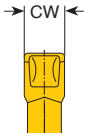




Drive flange set recommended for style 2 cutters

Recommended feed rates (Based on insert width)





Feed rates are for radial
D.O.C. =>1/4 the cutter diameter
For radial DOC <1/4 the cutter diameter
increase feed rates by the following %

DOC/Cutter diameter	1/4	1/6	1/8	1/10	1/20
Increase feed rate by ->	0%	15%	30%	45%	45%

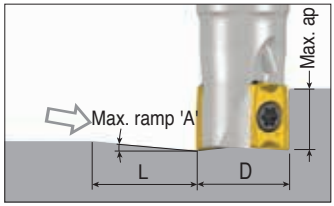
- Cutter entry
  Climb milling enters the workpiece with a thick chip and exits with a thin chip. Honed inserts are recommended.
  Conventional milling enters the workpiece with a thin chip and exits with a thick chip.
  Sharp inserts are recommended. Climb milling should be used whenever possible,
  especially when replacing high speed steel slotting cutters. On machines with backlash eliminators,
  climb milling is preferred.

- Cutter mounting
  The use of drive flange sets are recommended to prevent denting of arbor drive keys and to provide added stability during increased metal removal rates.

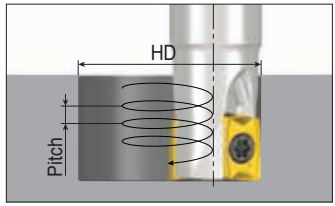
- Insert mounting
  Manually place insert in pocket and seat in place by using a wooden or plastic hammer.
  This will ensure self positioning for insert repeatability and minimal radial runout.
  Pockets must be clean and free of debris prior to installation.

Ramping Data

Straight ramping



Helical ramping



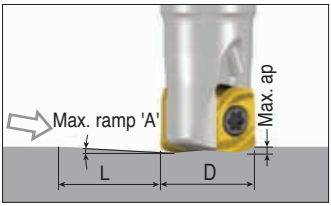
CVK(H)T 05: R0.2

(unit: mm)

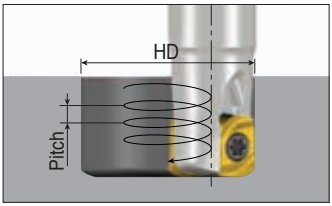
Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø6	2.5	5.0	112	8		0.2
					12	0.7
Ø8	2.1	5.0	136	12		0.4
					16	0.8
Ø9	1.7	5.0	164	14		0.4
					18	0.7
Ø10	1.7	5.0	169	16		0.5
					20	0.8
Ø11	1.3	5.0	212	18		0.4
					22	0.7
Ø12	1.3	5.0	220	20		0.5
					24	0.7
Ø13	1.1	5.0	249	22		0.5
					26	0.7
Ø14	1.0	5.0	273	24		0.5
					28	0.7
Ø16	0.9	5	302	28		0.5
					32	0.7
Ø20	0.7	5	382	36		0.6
					40	0.7

Ramping Data

Straight ramping



Helical ramping

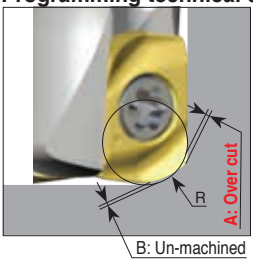


CVKT 05-HF

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (Aº)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø6	0.20	0.5	143	8		0.0
					12	0.1
Ø8	0.45	0.5	64	12		0.1
					16	0.2
Ø9	0.55	0.5	52	14		0.1
					18	0.2
Ø10	0.30	0.5	96	16		0.1
					20	0.1
Ø11	0.35	0.5	82	18		0.1
					22	0.2
Ø12	0.70	0.5	41	20		0.3
					24	0.4
Ø13	0.75	0.5	38	22		0.3
					26	0.5
Ø14	0.85	0.5	34	24		0.4
					28	0.5
Ø16	0.65	0.5	44	28		0.4
					32	0.5
Ø20	0.50	0.5	57	36		0.4
					40	0.5

Programming technical data

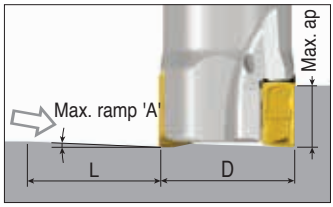


	R Program	A Over cut	B Un-machined
CVKT 05-HF	0.8	0	0.21
	0.9	0	0.18
	1.0	0.02	0.14

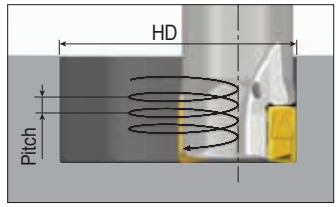
: Recommended program 'R'

Ramping Data

Straight ramping



Helical ramping



LPK(H)U 05

(unit: mm)

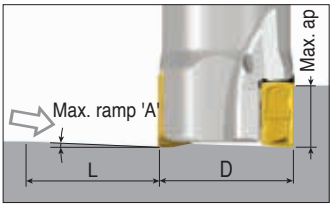
Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø10	1.8	4.6	142	16.8		0.6
					20	0.9
Ø11	1.6	4.6	160	18.8		0.6
					22	0.8
Ø12	1.5	4.6	176	20.8		0.6
					24	0.8
Ø13	1.3	4.6	195	22.8		0.6
					26	0.8
Ø16	1.0	4.6	251	28.8		0.6
					32	0.8
Ø20	0.8	4.6	330	36.8		0.6
					40	0.7
Ø25	0.6	4.6	439	46.8		0.6
					50	0.7
Ø32	0.4	4.6	586	60.8		0.6
					64	0.7

LPK(H)U 09

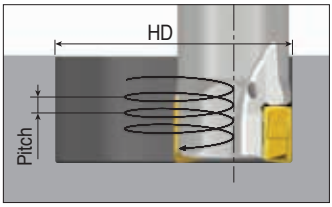
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø20	1.4	8.3	328	33		1.0
					40	1.5
Ø25	1.1	8.3	432	43		1.0
					50	1.5
Ø32	0.8	8.3	594	57		1.1
					64	1.4
Ø40	0.6	8.3	793	73		1.0
					80	1.3
Ø50	0.4	8.3	1057	93		1.0
					100	1.2
Ø63	0.3	8.3	1359	119		1.0
					126	1.2

Straight ramping



Helical ramping

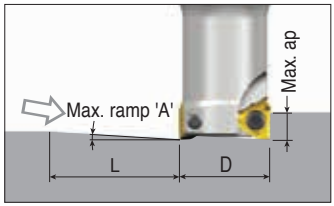


LPKU 14

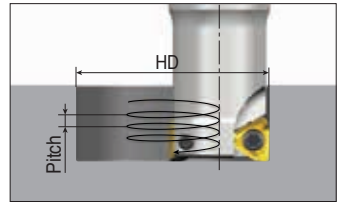
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (Aº)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø40	0.9	12.5	754	69		1.5
					80	2.0
Ø50	0.7	12.5	1023	89		1.5
					100	1.9
Ø63	0.5	12.5	1302	115		1.5
					126	1.9
Ø80	0.4	12.5	1790	149		1.5
					160	1.7
Ø100	0.3	12.5	2387	189		1.4
					200	1.6
Ø125	0.2	12.5	2865	239		1.5
					250	1.7
Ø160	0.2	12.5	3581	309		1.6
					320	1.7
Ø200	0.1	12.5	4775	389		1.5
					400	1.6

Straight ramping



Helical ramping



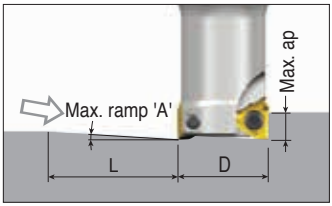
3PKT 04 (unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø8	2.1	3.5	95	13.2		0.6
					16	0.9
Ø10	2.2	3.5	91	17.2		0.8
					20	1.2
Ø11	3.6	3.5	56	19.2		1.6
					22	2.1
Ø12	3.3	3.5	61	21.2		1.6
					24	2.1
Ø13	2.5	3.5	80	23.2		1.4
					26	1.7
Ø14	2.2	3.5	91	25.2		1.3
					28	1.6
Ø16	1.6	3.5	125	29.2		1.1
					32	1.4

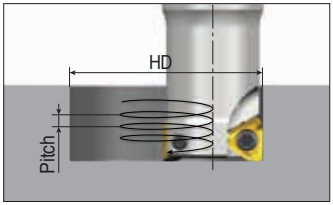
Ramping Data

MILLRUSH

Straight ramping



Helical ramping



3PK(H)T 06

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø12	3.7	4.7	73	19.5		1.3
					24	2.1
Ø14	2.8	4.7	96	23.5		1.2
					28	1.8
Ø16	2.3	4.7	117	27.5		1.2
					32	1.7
Ø17	2.0	4.7	135	29.5		1.2
					34	1.6
Ø18	2.0	4.7	135	31.5		1.3
					36	1.7
Ø20	1.6	4.7	168	35.5		1.2
					40	1.5
Ø21	1.5	4.7	180	37.5		1.2
					42	1.5
Ø22	1.5	4.7	180	39.5		1.2
					44	1.5
Ø25	1.5	4.7	180	45.5		1.4
					50	1.7
Ø30	1.2	4.7	224	55.5		1.4
					60	1.7
Ø32	1.2	4.7	224	59.5		1.5
					64	1.8
Ø35	1.0	4.7	269	65.5		1.4
					70	1.6
Ø40	0.7	4.7	385	75.5		1.2
					80	1.3

3PK(H)T 10

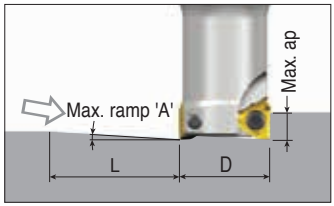
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø16	7.0	7.0	57	24.7		2.8
					32	5.2
Ø20	3.3	7.0	121	33.9		2.1
					40	3.1
Ø21	3.2	7.0	125	35.9		2.2
					42	3.1
Ø22	3.2	7.0	125	37.9		2.4
					44	3.3
Ø25	2.8	7.0	143	43.5		2.4
					50	3.3
Ø26	2.6	7.0	154	45.9		2.4
					52	3.1
Ø30	2.0	7.0	201	53.9		2.2
					60	2.8
Ø32	1.8	7.0	223	57.5		2.1
					64	2.7
Ø33	1.7	7.0	236	59.9		2.1
					66	2.6
Ø40	1.3	7.0	309	73.7		2.0
					80	2.4
Ø50	1.0	7.0	401	93.7		2.0
					100	2.3
Ø63	0.8	7.0	502	119.7		2.1
					126	2.3

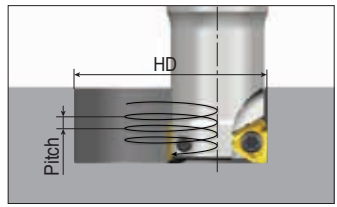
Ramping Data

MILLRUSH

Straight ramping



Helical ramping



3PK(H)T 15

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø32	3.2	11.0	197	53.5		3.2
					64	4.8
Ø33	3.1	11.0	203	55.5		3.3
					66	4.8
Ø35	3.1	11.0	203	59.5		3.5
					70	5.1
Ø40	2.0	11.0	315	70.1		2.8
					80	3.7
Ø50	1.5	11.0	420	90.1		2.8
					100	3.5
Ø63	1.1	11.0	573	116.1		2.7
					126	3.2
Ø80	0.8	11.0	788	150.3		2.6
					160	3.0
Ø100	0.6	11.0	1051	190.5		2.5
					200	2.8
Ø125	0.5	11.0	1261	240.3		2.7
					250	2.9
Ø160	0.3	11.0	2102	310.3		2.1
					320	2.2
Ø200	0.2	11.0	3153	390.3		1.8
					400	1.9

3PK(H)T 19

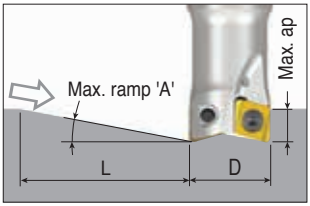
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø40	3.6	15.0	239	66.7		4.5
					80	6.7
Ø50	2.2	15.0	391	87.9		3.9
					100	5.1
Ø63	1.7	15.0	506	113.9		4
					126	5
Ø80	1.3	15.0	661	147.9		4.1
					160	4.8
Ø100	1.0	15.0	860	187.9		4.1
					200	4.7
Ø125	0.8	15.0	1075	237.9		4.2
					250	4.7
Ø160	0.6	15.0	1433	307.9		4.1
					320	4.5
Ø200	0.4	15.0	2150	387.9		3.5
					400	3.7
Ø250	0.3	15.0	2866	487.9		3.3
					500	3.5

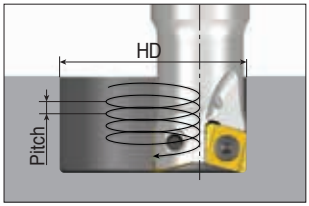
Ramping Data

CHASE4MILL

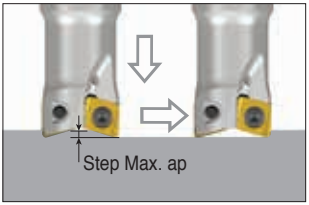
Straight ramping



Helical ramping



Step down



4NKT 04: R0.2

(unit: mm)

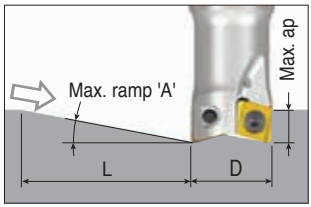
Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø8	4.2	3.5	48	9.9	16	0.4 3.1	0.4
Ø10	4.6	3.5	44	13.9	20	0.8 2.1	0.6
Ø11	5.2	3.5	38	15.9	22	1.2 2.7	0.7
Ø12	4.8	3.5	42	17.9	24	1.3 2.7	0.8
Ø13	5.1	3.5	39	19.9	26	1.6 3.1	0.8
Ø16	4.4	3.5	46	25.9	32	2.0 3.3	1.0
Ø20	3.3	3.5	61	33.9	40	2.1 3.1	1.0
Ø25	2.5	3.5	80	43.9	50	2.2 2.9	1.0
Ø32	1.9	3.5	106	57.9	64	2.3 2.8	1.0
Ø40	1.4	3.5	138	73.9	80	2.3 2.7	1.0

4NKT 04: R0.4

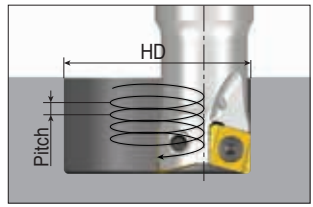
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø8	3.7	3.5	54	9.9	16	0.3 2.8	0.4
Ø10	4.2	3.5	48	13.9	20	0.8 2.0	0.5
Ø11	4.8	3.5	42	15.9	22	1.1 2.5	0.6
Ø12	4.5	3.5	44	17.9	24	1.2 2.5	0.7
Ø13	4.7	3.5	43	19.9	26	1.5 2.9	0.8
Ø16	4.1	3.5	49	25.9	32	1.9 3.1	0.9
Ø20	3.1	3.5	65	33.9	40	2.0 2.9	0.9
Ø25	2.3	3.5	85	43.9	50	2.1 2.7	0.9
Ø32	1.7	3.5	115	57.9	64	2.1 2.6	0.9
Ø40	1.3	3.5	149	73.9	80	2.1 2.5	0.9

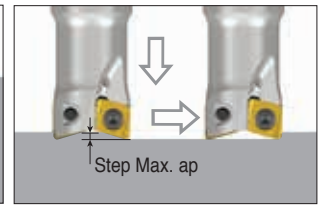
Straight ramping



Helical ramping



Step down



4NKT 04: R0.8

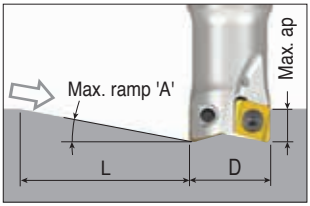
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø8	2.2	3.5	91	9.9		0.2	0.2
					16	1.6	
Ø10	3.0	3.5	67	13.9		0.5	0.4
					20	1.4	
Ø11	3.7	3.5	54	15.9		0.8	0.5
					22	1.9	
Ø12	3.5	3.5	57	17.9		1.0	0.5
					24	2.0	
Ø13	3.9	3.5	51	19.9		1.3	0.6
					26	2.4	
Ø16	3.5	3.5	57	25.9		1.6	0.7
					32	2.6	
Ø20	2.6	3.5	77	33.9		1.7	0.7
					40	2.4	
Ø25	1.9	3.5	103	43.9		1.7	0.7
					50	2.3	
Ø32	1.5	3.5	134	57.9		1.8	0.7
					64	2.2	
Ø40	1.1	3.5	174	73.9		1.8	0.7
					80	2.1	

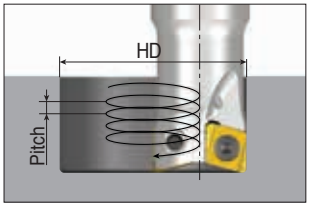
Ramping Data

CHASE4MILL

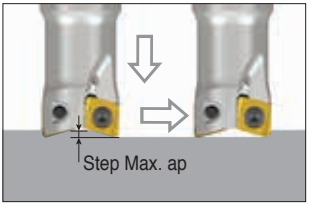
Straight ramping



Helical ramping



Step down



4NKT 06: R0.4

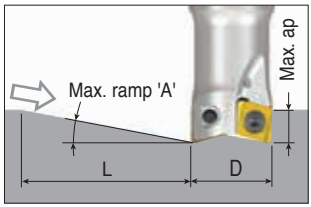
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	4.3	6.0	80	21.5		1.1	0.9
					32	3.2	
Ø17	4.3	6.0	80	23.5		1.3	1.0
					34	3.4	
Ø18	4.7	6.0	73	25.5		1.6	1.1
					36	3.9	
Ø20	4.9	6.0	70	29.5		2.2	1.3
					40	4.6	
Ø21	5.0	6.0	69	31.5		2.5	1.4
					42	4.9	
Ø25	4.9	6.0	70	39.5		3.3	1.6
					50	5.7	
Ø26	4.6	6.0	75	41.5		3.3	1.6
					52	5.6	
Ø32	3.5	6.0	98	53.5		3.5	1.7
					64	5.2	
Ø33	3.4	6.0	101	55.5		3.6	1.7
					66	5.2	
Ø35	3.1	6.0	111	59.5		3.5	1.7
					70	5.1	
Ø36	3.0	6.0	115	61.5		3.6	1.7
					72	5.0	
Ø38	2.8	6.0	123	65.5		3.6	1.7
					76	5.0	
Ø40	2.6	6.0	130	69.5		3.6	1.7
					80	4.9	
Ø43	2.4	6.0	143	75.5		3.6	1.7
					86	4.8	
Ø50	2.0	6.0	168	89.5		3.8	1.7
					100	4.8	
Ø63	1.6	6.0	215	115.5		3.9	1.7
					126	4.7	

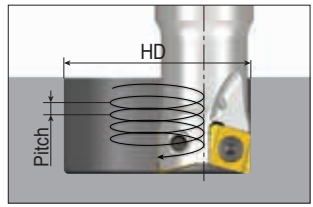
Ramping Data

CHASE4MILL

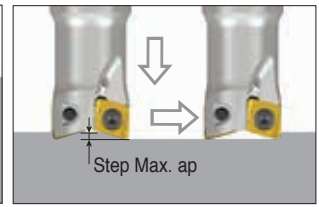
Straight ramping



Helical ramping



Step down



4NKT 06: R0.8

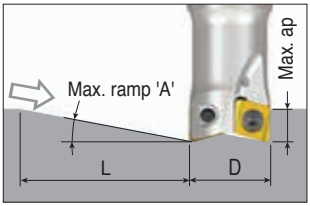
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	3.7	6.0	93	21.5		0.9	0.8
					32	2.8	
Ø17	3.8	6.0	90	23.5		1.2	0.8
					34	3.0	
Ø18	4.2	6.0	82	25.5		1.5	1.0
					36	3.5	
Ø20	4.4	6.0	78	29.5		2.0	1.1
					40	4.1	
Ø21	4.6	6.0	75	31.5		2.3	1.2
					42	4.5	
Ø25	4.6	6.0	75	39.5		3.1	1.5
					50	5.4	
Ø26	4.3	6.0	80	41.5		3.1	1.5
					52	5.2	
Ø32	3.2	6.0	107	53.5		3.2	1.5
					64	4.8	
Ø33	3.1	6.0	111	55.5		3.3	1.5
					66	4.8	
Ø35	2.8	6.0	121	59.5		3.3	1.5
					70	4.6	
Ø36	2.7	6.0	125	61.5		3.3	1.5
					72	4.6	
Ø38	2.5	6.0	135	65.5		3.3	1.5
					76	4.5	
Ø40	2.4	6.0	140	69.5		3.4	1.5
					80	4.6	
Ø43	2.2	6.0	153	75.5		3.4	1.5
					86	4.5	
Ø50	1.9	6.0	181	89.5		3.5	1.5
					100	4.4	
Ø63	1.4	6.0	237	115.5		3.5	1.6
					126	4.3	

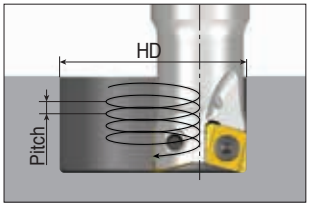
Ramping Data

CHASE4MILL

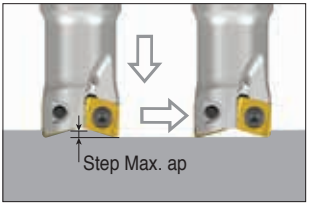
Straight ramping



Helical ramping



Step down

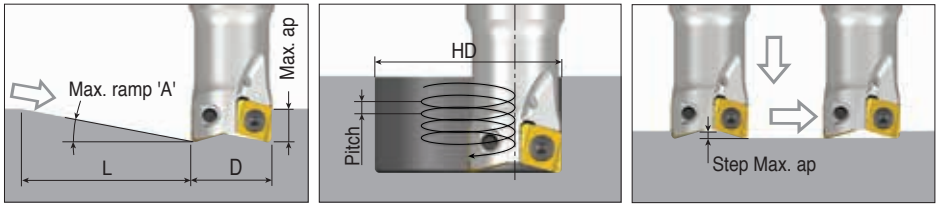


4NKT 06: R1.2

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	3.0	6.0	115	21.5		0.8	0.5
					32	2.2	
Ø17	3.2	6.0	107	23.5		1.0	0.7
					34	2.5	
Ø18	3.6	6.0	95	25.5		1.3	0.8
					36	3.0	
Ø20	3.9	6.0	88	29.5		1.7	1.0
					40	3.6	
Ø21	4.1	6.0	84	31.5		2.0	1.1
					42	4.0	
Ø25	4.2	6.0	82	39.5		2.8	1.3
					50	4.9	
Ø26	3.9	6.0	88	41.5		2.8	1.3
					52	4.7	
Ø32	2.9	6.0	119	53.5		2.9	1.4
					64	4.3	
Ø33	2.8	6.0	123	55.5		2.9	1.4
					66	4.3	
Ø35	2.6	6.0	132	59.5		3.0	1.4
					70	4.2	
Ø36	2.5	6.0	137	61.5		3.0	1.4
					72	4.2	
Ø38	2.3	6.0	146	65.5		3.0	1.4
					76	4.2	
Ø40	2.2	6.0	156	69.5		3.0	1.4
					80	4.1	
Ø43	2.0	6.0	168	75.5		3.1	1.4
					86	4.1	
Ø50	1.7	6.0	202	89.5		3.1	1.4
					100	4.0	
Ø63	1.3	6.0	265	115.5		3.2	1.4
					126	3.8	

Straight ramping | Helical ramping | Step down



4NKT 06: R1.6

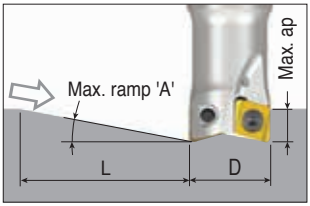
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	2.2	6.0	156	21.5		0.6	0.4
					32	1.6	
Ø17	2.4	6.0	143	23.5		0.7	0.5
					34	1.9	
Ø18	2.8	6.0	123	25.5		1.0	0.6
					36	2.3	
Ø20	3.2	6.0	107	29.5		1.4	0.8
					40	3.0	
Ø21	3.4	6.0	101	31.5		1.7	0.9
					42	3.3	
Ø25	3.7	6.0	93	39.5		2.5	1.1
					50	4.3	
Ø26	3.4	6.0	101	41.5		2.5	1.1
					52	4.1	
Ø32	2.5	6.0	135	53.5		2.6	1.2
					64	3.8	
Ø33	2.4	6.0	140	55.5		2.6	1.2
					66	3.8	
Ø35	2.3	6.0	149	59.5		2.6	1.2
					70	3.8	
Ø36	2.2	6.0	156	61.5		2.6	1.2
					72	3.7	
Ø38	2.0	6.0	168	65.5		2.6	1.2
					76	3.6	
Ø40	1.9	6.0	176	69.5		2.7	1.2
					80	3.6	
Ø43	1.8	6.0	191	75.5		2.7	1.2
					86	3.6	
Ø50	1.5	6.0	229	89.5		2.8	1.2
					100	3.5	
Ø63	1.1	6.0	299	115.5		2.8	1.2
					126	3.4	

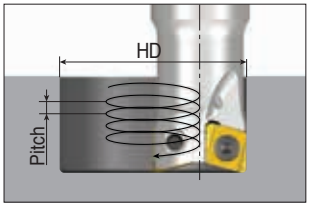
Ramping Data

CHASE4MILL

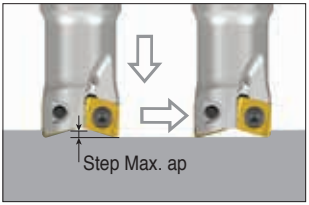
Straight ramping



Helical ramping



Step down



4NKT 06: R2.0

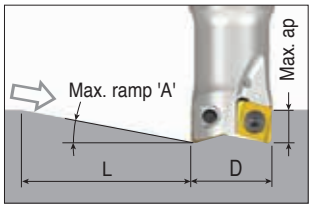
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	1.6	6.0	215	21.5		0.4	0.3
					32	1.2	
Ø17	1.8	6.0	191	23.5		0.5	0.3
					34	1.4	
Ø18	2.3	6.0	149	25.5		0.8	0.5
					36	1.9	
Ø20	2.7	6.0	125	29.5		1.2	0.6
					40	2.6	
Ø21	3.0	6.0	115	31.5		1.5	0.7
					42	2.9	
Ø25	3.3	6.0	104	39.5		2.2	1.0
					50	3.8	
Ø26	3.1	6.0	111	41.5		2.2	1.0
					52	3.8	
Ø32	2.3	6.0	149	53.5		2.3	1.0
					64	3.4	
Ø33	2.2	6.0	156	55.5		2.3	1.0
					66	3.4	
Ø35	2.0	6.0	168	59.5		2.3	1.0
					70	3.3	
Ø36	2.0	6.0	172	61.5		2.4	1.0
					72	3.4	
Ø38	1.8	6.0	186	65.5		2.4	1.0
					76	3.3	
Ø40	1.7	6.0	196	69.5		2.4	1.0
					80	3.3	
Ø43	1.3	6.0	265	75.5		2.0	1.0
					86	2.6	
Ø50	1.3	6.0	255	89.5		2.5	1.0
					100	3.1	
Ø63	1.0	6.0	328	115.5		2.6	1.0
					126	3.1	

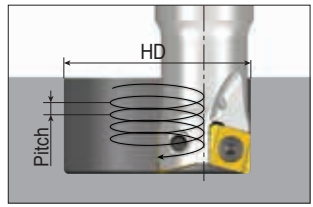
Ramping Data

CHASE4MILL

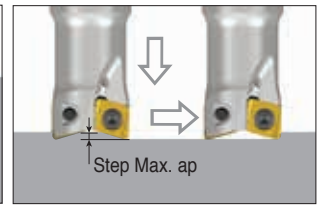
Straight ramping



Helical ramping



Step down



4NHT 06: R0.4

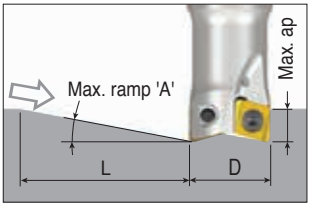
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	2.9	6.0	119	21.5		0.7	0.6
					32	2.2	
Ø17	3.0	6.0	115	23.5		0.9	0.6
					34	2.4	
Ø18	3.4	6.0	101	25.5		1.2	0.8
					36	2.9	
Ø20	3.8	6.0	90	29.5		1.7	0.9
					40	3.5	
Ø21	4.0	6.0	86	31.5		2.0	1.0
					42	3.9	
Ø25	4.1	6.0	84	39.5		2.8	1.3
					50	4.8	
Ø26	3.8	6.0	90	41.5		2.7	1.3
					52	4.6	
Ø32	2.8	6.0	123	53.5		2.8	1.3
					64	4.2	
Ø33	2.7	6.0	127	55.5		2.8	1.3
					66	4.2	
Ø35	2.5	6.0	135	59.5		2.9	1.3
					70	4.2	
Ø36	2.4	6.0	140	61.5		2.9	1.3
					72	4.1	
Ø38	2.3	6.0	149	65.5		2.9	1.3
					76	4.1	
Ø40	2.1	6.0	160	69.5		3.0	1.3
					80	4.0	
Ø43	1.9	6.0	176	75.5		3.0	1.3
					86	3.9	
Ø50	1.6	6.0	208	89.5		3.0	1.3
					100	3.8	
Ø63	1.2	6.0	275	115.5		3.1	1.3
					126	3.7	

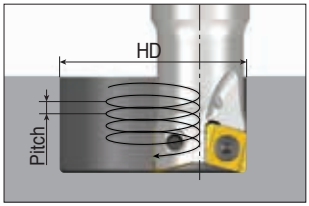
Ramping Data

CHASE4MILL

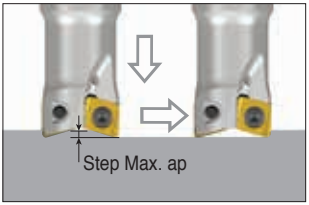
Straight ramping



Helical ramping



Step down



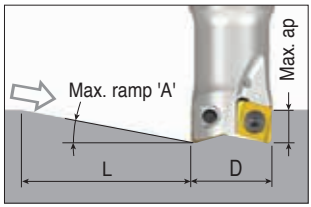
4NHT 06: R0.8

(unit: mm)

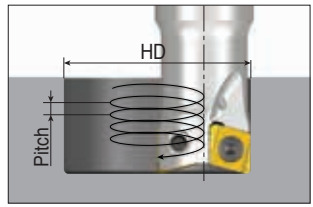
Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	2.9	6.0	119	21.5		0.7	0.6
					32	2.2	
Ø17	3.0	6.0	115	23.5		0.9	0.6
					34	2.4	
Ø18	3.5	6.0	98	25.5		1.2	0.8
					36	2.9	
Ø20	3.8	6.0	90	29.5		1.7	0.9
					40	3.5	
Ø21	4.0	6.0	86	31.5		2.0	1.0
					42	3.9	
Ø25	4.1	6.0	84	39.5		2.8	1.3
					50	4.8	
Ø26	3.8	6.0	90	41.5		2.7	1.3
					52	4.6	
Ø32	2.8	6.0	123	53.5		2.8	1.3
					64	4.2	
Ø33	2.7	6.0	127	55.5		2.8	1.3
					66	4.2	
Ø35	2.5	6.0	135	59.5		2.9	1.3
					70	4.2	
Ø36	2.4	6.0	140	61.5		2.9	1.3
					72	4.1	
Ø38	2.3	6.0	149	65.5		2.9	1.3
					76	4.1	
Ø40	2.1	6.0	160	69.5		3.0	1.3
					80	4.0	
Ø43	1.9	6.0	176	75.5		3.0	1.3
					86	3.9	
Ø50	1.6	6.0	208	89.5		3.0	1.3
					100	3.8	
Ø63	1.25	6.0	275	115.5		3.1	1.3
					126	3.7	

Ramping Data

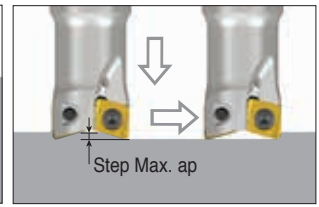
Straight ramping



Helical ramping



Step down



4NHT 06: R0.5-F

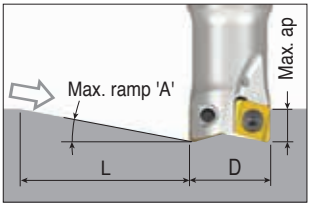
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	3.5	2.3	38	21.5		0.9	0.8
					32	2.6	
Ø17	3.6	2.3	37	23.5		1.1	0.8
					34	2.9	
Ø18	4.0	2.3	33	25.5		1.4	1.0
					36	3.4	
Ø20	4.3	2.3	31	29.5		1.9	1.2
					40	4.0	
Ø21	4.4	2.3	30	31.5		2.2	1.2
					42	4.3	
Ø25	4.9	2.3	27	39.5		3.3	1.6
					50	5.7	
Ø26	4.6	2.3	29	41.5		3.3	1.6
					52	5.6	
Ø32	3.5	2.3	38	53.5		3.5	1.6
					64	5.2	
Ø33	3.3	2.3	40	55.5		3.5	1.6
					66	5.1	
Ø35	3.1	2.3	42	59.5		3.5	1.6
					70	5.1	
Ø36	3.0	2.3	44	61.5		3.6	1.6
					72	5.0	
Ø38	2.8	2.3	47	65.5		3.6	1.7
					76	5.0	
Ø40	2.6	2.3	51	69.5		3.6	1.7
					80	4.8	
Ø43	2.4	2.3	55	75.5		3.6	1.7
					86	4.8	
Ø50	2.0	2.3	64	89.5		3.8	1.7
					100	4.8	
Ø63	1.7	2.3	78	115.5		4.2	1.7
					126	5.0	

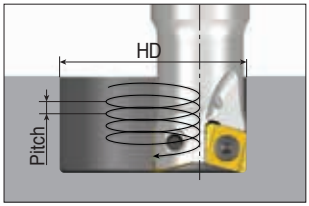
Ramping Data

CHASE4MILL

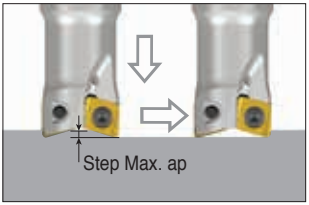
Straight ramping



Helical ramping



Step down



4NHT 06: R0.8-F

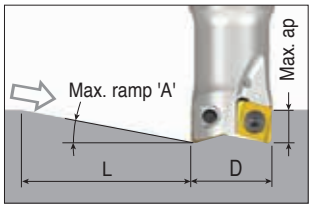
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	3.1	1.9	35	21.5		0.8	0.7
					32	2.3	
Ø17	3.2	1.9	34	23.5		1.0	0.7
					34	2.5	
Ø18	3.6	1.9	30	25.5		1.3	0.9
					36	3.0	
Ø20	3.9	1.9	28	29.5		1.7	1.0
					40	3.6	
Ø21	4.1	1.9	27	31.5		2.0	1.1
					42	4.0	
Ø25	4.6	1.9	24	39.5		3.1	1.5
					50	5.4	
Ø26	4.4	1.9	25	41.5		3.2	1.5
					52	5.3	
Ø32	3.3	1.9	33	53.5		3.3	1.5
					64	4.9	
Ø33	3.1	1.9	35	55.5		3.3	1.5
					66	4.8	
Ø35	2.9	1.9	38	59.5		3.3	1.5
					70	4.7	
Ø36	2.8	1.9	39	61.5		3.3	1.5
					72	4.7	
Ø38	2.6	1.9	41	65.5		3.4	1.5
					76	4.7	
Ø40	2.4	1.9	44	69.5		3.4	1.5
					80	4.6	
Ø43	2.2	1.9	48	75.5		3.4	1.5
					86	4.5	
Ø50	1.9	1.9	57	89.5		3.5	1.6
					100	4.4	
Ø63	1.4	1.9	75	115.5		3.5	1.6
					126	4.3	

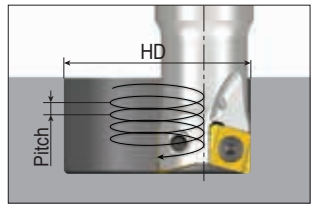
Ramping Data

CHASE4MILL

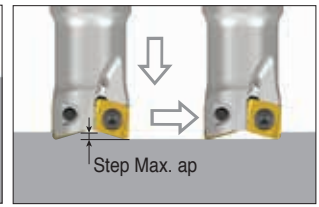
Straight ramping



Helical ramping



Step down



4NHT 06: R1.0-F

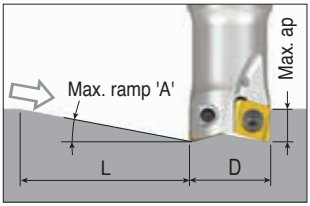
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	2.7	2.1	44	21.5		0.7	0.6
					32	2.1	
Ø17	2.9	2.1	41	23.5		0.9	0.7
					34	2.3	
Ø18	3.3	2.1	36	25.5		1.2	0.8
					36	2.8	
Ø20	3.6	2.1	33	29.5		1.6	1.0
					40	3.4	
Ø21	3.8	2.1	32	31.5		1.9	1.0
					42	3.7	
Ø25	4.4	2.1	27	39.5		3.0	1.4
					50	5.1	
Ø26	4.2	2.1	29	41.5		3.0	1.4
					52	5.1	
Ø32	3.1	2.1	39	53.5		3.1	1.4
					64	4.6	
Ø33	3.0	2.1	40	55.5		3.1	1.4
					66	4.6	
Ø35	2.8	2.1	43	59.5		3.2	1.4
					70	4.6	
Ø36	2.6	2.1	45	61.5		3.1	1.4
					72	4.4	
Ø38	2.5	2.1	48	65.5		3.2	1.5
					76	4.4	
Ø40	2.3	2.1	51	69.5		3.2	1.5
					80	4.4	
Ø43	2.1	2.1	56	75.5		3.3	1.5
					86	4.3	
Ø50	1.8	2.1	67	89.5		3.3	1.5
					100	4.2	
Ø63	1.4	2.1	86	115.5		3.4	1.5
					126	4.1	

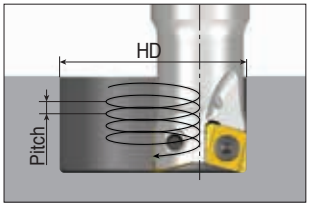
Ramping Data

CHASE4MILL

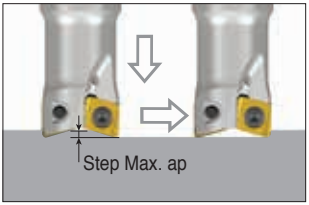
Straight ramping



Helical ramping



Step down

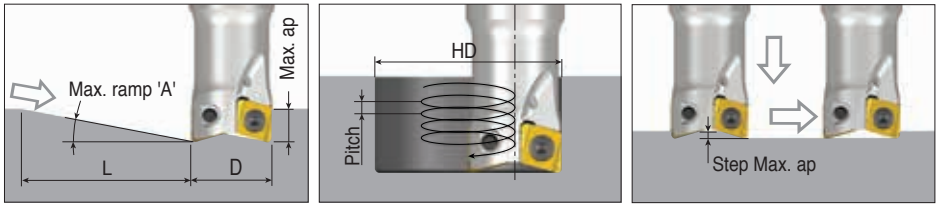


4NHT 06: R1.5-F

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	1.9	3.3	97	21.5		0.5	0.4
					32	1.5	
Ø17	2.1	3.3	88	23.5		0.7	0.5
					34	1.7	
Ø18	2.6	3.3	73	25.5		0.9	0.6
					36	2.2	
Ø20	3.0	3.3	63	29.5		1.3	0.8
					40	2.8	
Ø21	3.2	3.3	59	31.5		1.6	0.9
					42	3.1	
Ø25	3.9	3.3	48	39.5		2.6	1.2
					50	4.5	
Ø26	3.7	3.3	51	41.5		2.7	1.2
					52	4.5	
Ø32	2.7	3.3	70	53.5		2.7	1.2
					64	4.0	
Ø33	2.6	3.3	71	55.5		2.8	1.2
					66	4.1	
Ø35	2.4	3.3	77	59.5		2.8	1.3
					70	4.0	
Ø36	2.3	3.3	80	61.5		2.8	1.3
					72	3.9	
Ø38	2.2	3.3	86	65.5		2.8	1.3
					76	3.9	
Ø40	2.1	3.3	90	69.5		2.9	1.3
					80	3.9	
Ø43	1.9	3.3	100	75.5		2.9	1.3
					86	3.8	
Ø50	1.6	3.3	118	89.5		2.9	1.3
					100	3.7	
Ø63	1.2	3.3	151	115.5		3.1	1.3
					126	3.7	

Straight ramping | Helical ramping | Step down



4NHT 06: R2.0-F

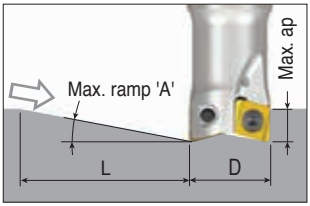
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø16	0.8	2.1	142	21.5		0.2	0.1
					32	0.6	
Ø17	1.1	2.1	109	23.5		0.3	0.2
					34	0.9	
Ø18	1.6	2.1	75	25.5		0.6	0.3
					36	1.3	
Ø20	2.1	2.1	57	29.5		0.9	0.5
					40	2.0	
Ø21	2.3	2.1	51	31.5		1.1	0.6
					42	2.3	
Ø25	3.2	2.1	38	39.5		2.2	0.9
					50	3.7	
Ø26	3.0	2.1	40	41.5		2.2	1.0
					52	3.6	
Ø32	2.2	2.1	53	53.5		2.3	1.0
					64	3.4	
Ø33	2.1	2.1	56	55.5		2.3	1.0
					66	3.3	
Ø35	2.0	2.1	60	59.5		2.3	1.0
					70	3.3	
Ø36	1.9	2.1	62	61.5		2.3	1.0
					72	3.3	
Ø38	1.8	2.1	67	65.5		2.3	1.0
					76	3.2	
Ø40	1.7	2.1	71	69.5		2.3	1.0
					80	3.2	
Ø43	1.5	2.1	78	75.5		2.3	1.0
					86	3.1	
Ø50	1.3	2.1	93	89.5		2.4	1.0
					100	3.0	
Ø63	1.0	2.1	120	115.5		2.4	1.0
					126	2.9	

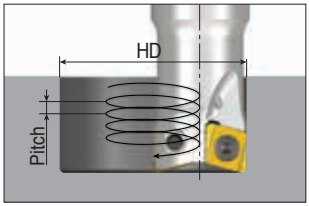
Ramping Data

CHASE4MILL

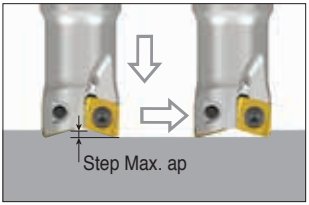
Straight ramping



Helical ramping



Step down



4NKT 09: R0.8

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø20	3.7	8.0	124	25.5		0.9	1.0
					40	3.5	
Ø25	4.9	8.0	93	35.5		2.4	1.6
					50	5.7	
Ø32	4.9	8.0	93	49.5		4.0	2.1
					64	7.3	
Ø40	3.6	8.0	127	65.5		4.3	2.1
					80	6.7	
Ø50	2.7	8.0	170	85.5		4.5	2.1
					100	6.3	
Ø63	2.0	8.0	224	111.5		4.6	2.1
					126	6.0	
Ø80	1.5	8.0	296	145.5		4.7	2.1
					160	5.8	

4NKT 09: R1.6

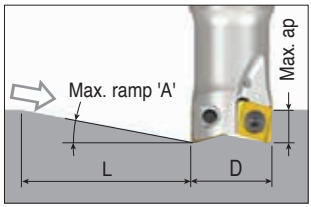
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø20	2.7	8.0	167	25.5		0.7	0.7
					40	2.6	
Ø25	4.1	8.0	112	35.5		2.0	1.3
					50	4.8	
Ø32	4.4	8.0	104	49.5		3.6	1.8
					64	6.6	
Ø40	3.1	8.0	148	65.5		3.7	1.8
					80	5.8	
Ø50	2.3	8.0	195	85.5		3.9	1.8
					100	5.5	
Ø63	1.8	8.0	255	111.5		4.1	1.8
					126	5.3	
Ø80	1.3	8.0	340	145.5		4.1	1.8
					160	5.0	

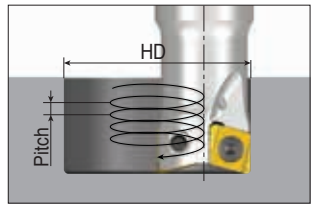
Ramping Data

CHASE4MILL

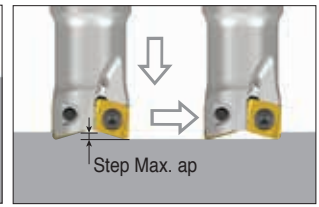
Straight ramping



Helical ramping



Step down



4NHT 09: R0.4

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø20	2.9	8.0	155	25.5		0.8	0.8
					40	2.7	
Ø25	4.3	8.0	106	35.5		2.1	1.3
					50	5.0	
Ø32	4.5	8.0	102	49.5		3.7	1.8
					64	6.7	
Ø40	3.2	8.0	143	65.5		3.8	1.8
					80	6.0	
Ø50	2.4	8.0	191	85.5		4.0	1.8
					100	5.6	
Ø63	1.8	8.0	255	111.5		4.1	1.8
					126	5.3	
Ø80	1.3	8.0	340	145.5		4.1	1.8
					160	5.0	

4NHT 09: R0.8

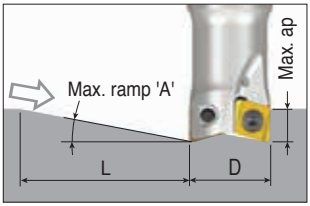
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø20	2.9	8.0	155	25.5		0.8	0.8
					40	2.7	
Ø25	4.3	8.0	106	35.5		2.1	1.3
					50	5.0	
Ø32	4.5	8.0	102	49.5		3.7	1.8
					64	6.7	
Ø40	3.2	8.0	143	65.5		3.8	1.8
					80	6.0	
Ø50	2.4	8.0	191	85.5		4.0	1.8
					100	5.6	
Ø63	1.8	8.0	255	111.5		4.1	1.8
					126	5.3	
Ø80	1.3	8.0	340	145.5		4.1	1.8
					160	5.0	

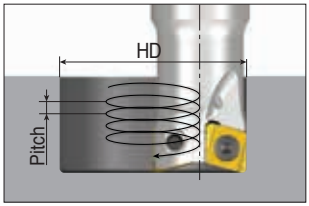
Ramping Data

CHASE4MILL

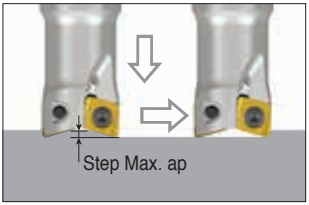
Straight ramping



Helical ramping



Step down



4NKT 11: R0.8

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø25	5.1	10.3	115	31.5		1.5	1.7
					50	6.0	
Ø32	5.3	10.3	111	45.5		3.3	2.4
					64	7.9	
Ø40	5.0	10.3	118	61.5		5.0	2.7
					80	9.3	
Ø50	3.7	10.3	159	81.5		5.4	2.7
					100	8.6	
Ø63	2.7	10.3	219	107.5		5.6	2.7
					126	7.9	
Ø80	2.0	10.3	288	141.5		5.9	2.7
					160	7.6	

4NKT 14: R0.8

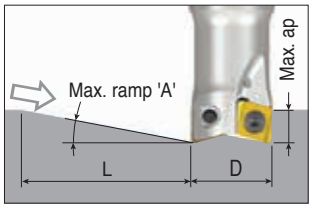
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø32	5.2	13.5	148	39.5		1.8	2.3
					64	7.8	
Ø40	5.2	13.5	148	55.5		3.8	3.0
					80	9.7	
Ø50	5.5	13.5	140	75.5		6.6	3.3
					100	12.8	
Ø63	4.0	13.5	193	101.5		7.2	3.3
					126	11.8	
Ø80	2.9	13.5	267	135.5		7.5	3.3
					160	10.8	

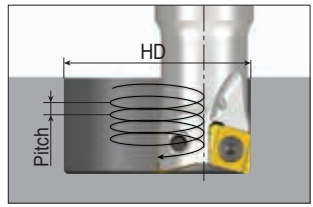
Ramping Data

CHASE4MILL

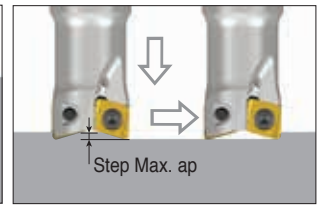
Straight ramping



Helical ramping



Step down



4NKT 11 PNR: R0.8 (unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø25	4.0	10.3	147	31.5		1.2	1.1
					50	4.7	
Ø32	4.3	10.3	135	45.5		2.7	1.0
					64	6.5	
Ø40	4.5	10.3	131	61.5		4.5	0.9
					80	8.4	
Ø50	3.2	10.3	184	81.5		4.7	0.9
					100	7.5	
Ø63	2.4	10.3	246	107.5		5.0	0.9
					126	7.0	
Ø80	1.8	10.3	328	141.5		5.2	0.9
					160	6.7	

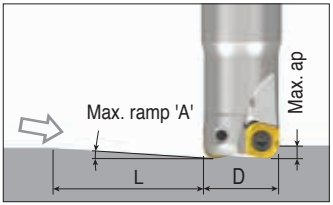
4NKT 14 PNR: R0.8 (unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø32	4.1	13.5	188	39.5		1.4	1.1
					64	6.1	
Ø40	4.3	13.5	180	55.5		3.1	0.9
					80	8.0	
Ø50	4.7	13.5	163	75.5		5.7	0.9
					100	11.1	
Ø63	3.5	13.5	221	101.5		6.3	0.9
					126	10.3	
Ø80	2.6	13.5	297	135.5		6.7	0.9
					160	9.7	

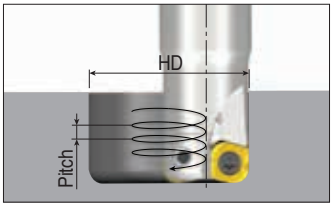
Ramping Data

CHASE4MILL

Straight ramping



Helical ramping



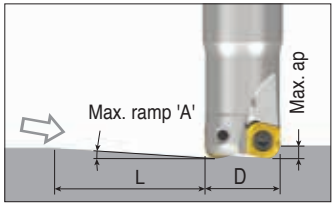
4NKT 04-HF: R1.2 (unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø8	0.1	0.5	191	9.9		0.0
					16	0.1
Ø10	0.8	0.5	34	13.9		0.2
					20	0.4
Ø11	1.6	0.5	18	15.9		0.4
					22	0.5
Ø12	1.6	0.5	18	17.9		0.4
					24	0.5
Ø13	2.0	0.5	14	19.9		0.5
					26	0.5
Ø16	1.9	0.5	15	25.9		0.5
					32	0.5
Ø20	2.3	0.5	12	33.9		0.5
					40	0.5
Ø25	1.7	0.5	16	43.9		0.5
					50	0.5
Ø32	1.3	0.5	22	57.9		0.5
					64	0.5
Ø40	1.0	0.5	29	73.9		0.5
					80	0.5

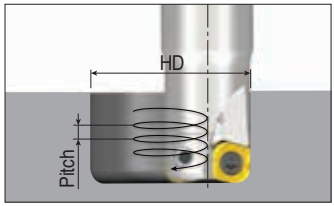
4NKT 06-HF: R2.0 (unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø16	0.6	1.0	88	21.4		0.2
					32	0.5
Ø17	0.7	1.0	76	23.4		0.2
					34	0.6
Ø18	1.1	1.0	50	25.4		0.4
					36	1.0
Ø20	1.7	1.0	34	29.4		0.7
					40	1.0
Ø21	1.9	1.0	29	31.4		0.9
					42	1.0
Ø25	2.3	1.0	24	39.4		1.0
					50	1.0
Ø26	3.2	1.0	18	41.4		1.0
					52	1.0
Ø32	2.4	1.0	24	53.4		1.0
					64	1.0
Ø40	1.8	1.0	32	69.4		1.0
					80	1.0
Ø50	1.4	1.0	41	89.4		1.0
					100	1.0
Ø63	1.1	1.0	52	115.4		1.0
					126	1.0

Straight ramping



Helical ramping



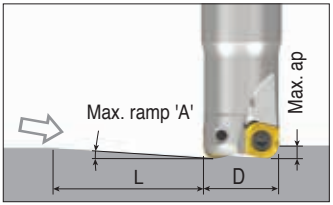
4NKT 09-HF: R3.2 (unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø20	0.3	1.5	287	25		0.1
					40	0.3
Ø25	1.2	1.5	69	35		0.6
					50	1.5
Ø32	2.4	1.5	35	49		1.5
					64	1.5
Ø40	2.3	1.5	37	65		1.5
					80	1.5
Ø50	1.7	1.5	49	85		1.5
					100	1.5
Ø63	1.3	1.5	66	111		1.5
					126	1.5
Ø80	1.0	1.5	86	145		1.5
					160	1.5

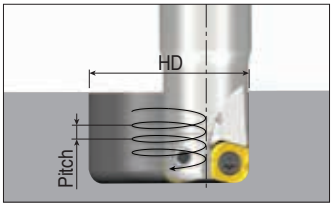
4NKT 11-HF: R4.0 (unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø25	0.8	2.0	143	31		0.2
					50	0.9
Ø32	2.0	2.0	57	45		1.2
					64	2.0
Ø40	3.4	2.0	34	61		2.0
					80	2.0
Ø50	2.4	2.0	48	81		2.0
					100	2.0
Ø63	1.8	2.0	64	107		2.0
					126	2.0
Ø80	1.3	2.0	85	141		2.0
					160	2.0

Straight ramping



Helical ramping

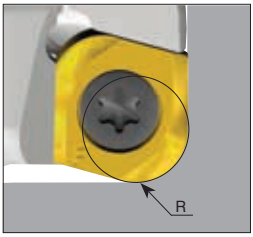


4NKT 14-HF: R5.0

(unit: mm)

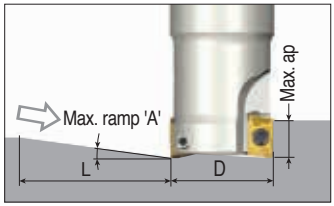
Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø32	1.0	3.0	172	39		0.3
					64	1.5
Ø40	1.8	3.0	96	55		1.3
					80	3.0
Ø50	3.9	3.0	44	75		3.0
					100	3.0
Ø63	2.7	3.0	64	101		3.0
					126	3.0
Ø80	1.9	3.0	88	135		3.0
					160	3.0

Programming technical data

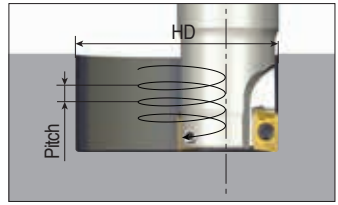


	R Program	A Over cut	B Un-machined
4NKT 040212R-HF	1.2	0	0
4NKT 060320R-HF	2.0	0	0
4NKT 090432R-HF	3.2	0	0
4NKT 110640R-HF	4.0	0	0
4NKT 140750R-HF	5.0	0	0

Straight ramping



Helical ramping

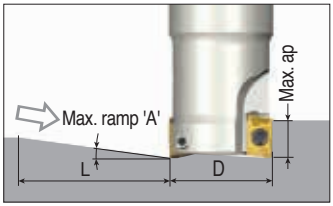


AXMT 06

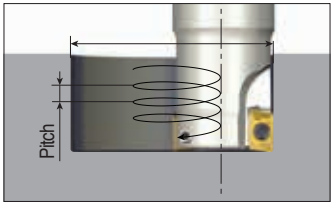
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø8	1.0	5.0	287	9		0.0
					16	0.4
Ø10	8.0	5.0	36	13		1.1
					20	3.7
Ø11	6.0	5.0	48	15		1.1
					22	3.1
Ø12	6.0	5.0	48	17		1.4
					24	3.4
Ø13	5.5	5.0	52	19		1.5
					26	3.3
Ø14	4.8	5.0	60	21		1.6
					28	3.1
Ø15	4.3	5.0	67	23		1.6
					30	3.0
Ø16	4.0	5.0	72	25		1.7
					32	3.0
Ø17	3.5	5.0	82	27		1.6
					34	2.8
Ø18	5.0	5.0	57	29		2.6
					36	4.2
Ø19	4.8	5.0	60	31		2.7
					38	4.3
Ø20	4.0	5.0	72	33		2.4
					40	3.7
Ø21	3.5	5.0	82	35		2.3
					42	3.4
Ø25	3.0	5.0	95	43		2.5
					50	3.5
Ø32	2.0	5.0	143	57		2.3
					64	3.0
Ø40	1.5	5.0	191	73		2.3
					80	2.8

Straight ramping



Helical ramping

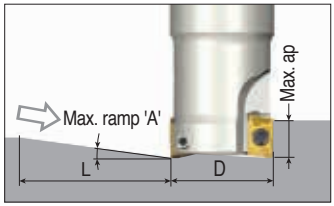


APKT 09

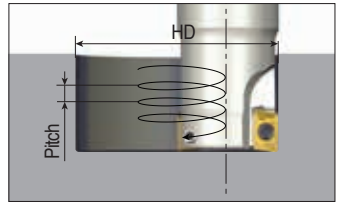
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø10	7.5	9.0	68	14		1.4
					20	3.5
Ø12	7.3	9.0	70	16		1.4
					24	4.1
Ø14	6.0	9.0	86	18		1.1
					28	3.9
Ø16	4.9	9.0	105	21.08		1.2
					32	3.7
Ø17	4.4	9.0	117	23.08		1.2
					34	3.5
Ø18	4.0	9.0	129	25.08		1.3
					36	3.4
Ø20	3.4	9.0	152	29.08		1.4
					40	3.2
Ø21	3.1	9.0	166	31.08		1.5
					42	3.0
Ø22	2.8	9.0	184	33.08		1.4
					44	2.9
Ø25	1.8	9.0	287	39.08		1.2
					50	2.1
Ø26	2.0	9.0	258	41.08		1.4
					52	2.4
Ø30	2.2	9.0	234	49.08		2.0
					60	3.1
Ø32	2.0	9.0	258	53.08		2.0
					64	3.0
Ø33	1.7	9.0	303	55.08		1.7
					66	2.6
Ø40	1.5	9.0	344	69.08		2.0
					80	2.8
Ø50	1.1	9.0	469	89.08		2.0
					100	2.6
Ø63	0.8	9.0	645	115.08		1.9
					126	2.3
Ø80	0.5	9.0	1032	149.08		1.6
					160	1.9

Straight ramping



Helical ramping



APKT 12

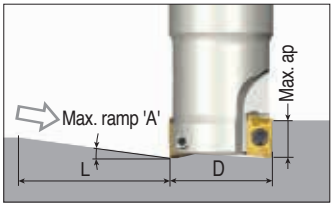
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø16	12.5	12.0	54	17.5		0.5
					32	9.5
Ø18	9.7	12.0	70	20.9		1.3
					36	8.2
Ø20	6.8	12.0	101	24.9		1.6
					40	6.4
Ø21	6.2	12.0	111	26.9		1.7
					42	6.1
Ø25	8.0	12.0	85	34.9		3.7
					50	9.4
Ø26	7.5	12.0	91	36.9		3.8
					52	9.1
Ø32	5.0	12.0	137	48.9		3.9
					64	7.5
Ø33	4.6	12.0	149	50.9		3.8
					66	7.1
Ø40	3.5	12.0	196	64.9		4.1
					80	6.5
Ø50	2.5	12.0	275	84.9		4.8
					100	5.8
Ø63	1.7	12.0	405	110.9		4.5
					126	5.0
Ø80	1.3	12.0	529	144.9		4.6
					160	4.8

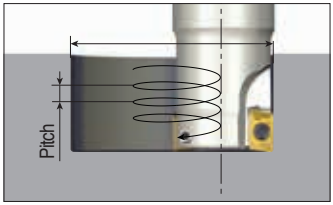
Ramping Data

CHASEMILL

Straight ramping



Helical ramping



APKT 17

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø20	8.0	16.1	115	22		0.7
					40	7.5
Ø25	5.0	16.1	184	30.6		1.3
					50	5.8
Ø26	4.0	16.1	230	32.6		1.2
					52	4.9
Ø32	9.0	16.1	102	44.6		5.3
					64	13.5
Ø33	9.0	16.1	102	46.6		5.7
					66	13.9
Ø40	5.0	16.1	184	60.6		4.8
					80	9.3
Ø50	4.4	16.1	209	80.6		6.3
					100	10.3
Ø63	3.2	16.1	288	106.6		6.5
					126	9.4
Ø80	2.3	16.1	401	140.6		6.5
					160	8.6
Ø100	1.8	16.1	513	180.6		6.8
					200	8.4
Ø125	1.4	16.1	659	230.6		6.9
					250	8.1
Ø160	1.0	16.1	923	300.6		6.5
					320	7.5
Ø200	0.7	16.1	1318	380.6		5.9
					400	6.5

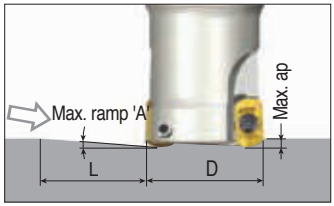
APKT 19

(unit: mm)

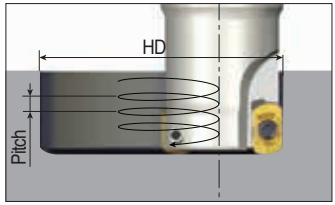
Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø40	6.0	17.5	167	56		4.5
					80	11.2
Ø50	4.0	17.5	250	76		4.9
					100	9.3
Ø63	2.9	17.5	346	102		5.3
					126	8.5
Ø80	2.1	17.5	477	136		5.5
					160	7.8
Ø100	1.6	17.5	627	176		5.7
					200	7.5
Ø125	1.2	17.5	736	226		5.6
					250	7.0
Ø160	0.9	17.5	1115	296		5.7
					320	6.7
Ø200	0.7	17.5	1433	376		5.7
					400	6.5

Ramping Data

Straight ramping



Helical ramping

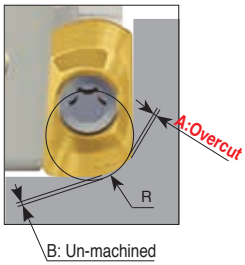


AXMT 0602R-HF

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø8	0.3	0.5	96	14		0.1
					16	0.1
Ø10	0.5	0.5	57	14		0.1
					20	0.2
Ø11	1.0	0.5	29	18		0.3
					22	0.5
Ø12	2.3	0.5	12	18		0.5
					24	0.5
Ø13	4.5	0.5	6	18		0.5
					26	0.5
Ø14	3.5	0.5	8	18		0.5
					28	0.5
Ø15	3.0	0.5	10	26		0.5
					30	0.5
Ø16	2.8	0.5	10	26		0.5
					32	0.5
Ø17	2.5	0.5	11	26		0.5
					34	0.5
Ø18	2.3	0.5	12	26		0.5
					36	0.5
Ø19	2.2	0.5	13	26		0.5
					38	0.5
Ø20	1.9	0.5	15	34		0.5
					40	0.5
Ø21	1.7	0.5	17	34		0.5
					42	0.5
Ø25	1.4	0.5	20	44		0.5
					50	0.5
Ø32	1.0	0.5	29	58		0.5
					64	0.5
Ø40	0.7	0.5	41	74		0.5
					80	0.5

Programming technical data

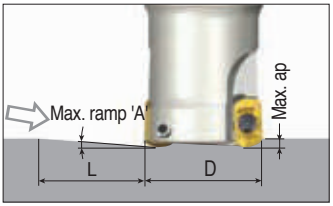


	R Program	A Over cut	B Un-machined
AXMT 0602R-HF	0.9	0	0.22
	1.0	0.01	0.19
	1.5	0.16	0.05
	2.0	0.35	0
APKT 09T3R-HF	1.5	0	0.47
	1.7	0	0.29
	2.0	0.04	0.3
	2.5	0.18	0.15
	3.0	0.36	0.04
APKT 1204R-HF	2	0	0.57
	2.5	0.07	0.42
	3	0.21	0.28
	3.5	0.39	0.15
	4	0.58	0.06

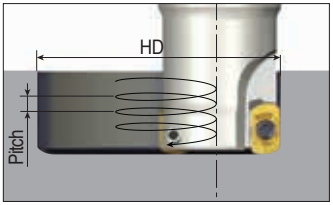
:Recommended program 'R'

Ramping Data

Straight ramping



Helical ramping

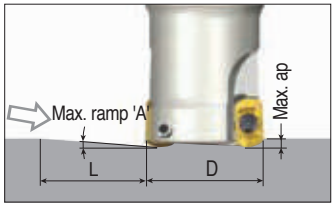


APKT 09T3R-HF

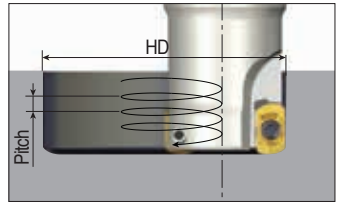
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø16	3.8	1.0	15	22		1.0
					32	1.0
Ø17	3.5	1.0	16	24		1.0
					34	1.0
Ø18	3.4	1.0	17	26		1.0
					36	1.0
Ø20	3.0	1.0	19	30		1.0
					40	1.0
Ø21	2.3	1.0	25	32		1.0
					42	1.0
Ø22	2.0	1.0	29	34		1.0
					44	1.0
Ø25	2.1	1.0	27	40		1.0
					50	1.0
Ø26	2.0	1.0	29	42		1.0
					52	1.0
Ø30	1.8	1.0	32	50		1.0
					60	1.0
Ø32	1.6	1.0	36	54		1.0
					64	1.0
Ø33	1.5	1.0	38	56		1.0
					66	1.0
Ø40	1.2	1.0	48	70		1.0
					80	1.0
Ø50	0.9	1.0	64	90		1.0
					100	1.0
Ø63	0.5	1.0	115	116		1.0
					126	1.0
Ø80	0.4	1.0	143	150		1.0
					160	1.0

Straight ramping



Helical ramping



APKT 1204R-HF

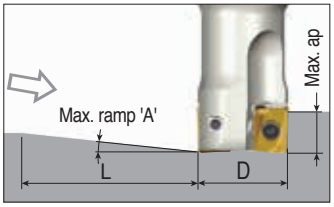
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (Aº)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø16	3.8	1.2	18	21		0.8
					32	1.2
Ø18	4.0	1.2	17	24		1.1
					36	1.2
Ø20	4.0	1.2	17	27		1.2
					40	1.2
Ø21	3.5	1.2	20	29		1.2
					42	1.2
Ø25	2.5	1.2	27	37		1.2
					50	1.2
Ø26	2.3	1.2	30	39		1.2
					52	1.2
Ø32	1.7	1.2	40	51		1.2
					64	1.2
Ø33	1.7	1.2	40	53		1.2
					66	1.2
Ø40	1.5	1.2	46	67		1.2
					80	1.2
Ø50	1.1	1.2	63	86		1.2
					100	1.2
Ø63	1.0	1.2	69	112		1.2
					126	1.2
Ø80	0.8	1.2	86	146		1.2
					160	1.2

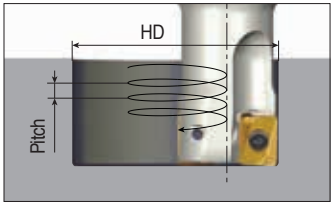
Ramping Data

CHASE2MILL

Straight ramping



Helical ramping



ANH(M)X 11

(unit: mm)

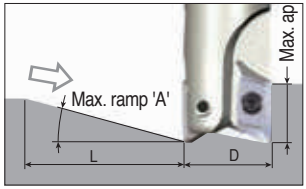
Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø25	1.5	11.0	420	30		0.3
					50	1.7
Ø26	1.4	11.0	450	32		0.4
					52	1.7
Ø32	1.1	11.0	573	44		0.6
					64	1.6
Ø33	1.0	11.0	631	46		0.6
					66	1.5
Ø40	0.8	11.0	788	60		0.7
					80	1.5
Ø50	0.6	11.0	1051	80		0.8
					100	1.4
Ø63	0.4	11.0	1576	106		0.8
					126	1.2
Ø80	0.3	11.0	2102	140		0.8
					160	1.1
Ø100	0.2	11.0	3153	180		0.7
					200	0.9
Ø125	0.2	11.0	3153	230		1.0
					250	1.2

ANH(M)X 16

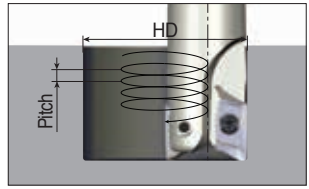
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø32	1.2	15.0	716	44		0.7
					64	1.8
Ø33	1.0	15.0	560	46		0.6
					66	1.5
Ø40	0.9	15.0	955	60		0.8
					80	1.7
Ø50	0.8	15.0	1075	80		1.1
					100	1.9
Ø63	0.6	15.0	1433	106		1.2
					126	1.8
Ø80	0.45	15.0	1911	140		1.3
					160	1.7
Ø100	0.35	15.0	2457	180		1.3
					200	1.6
Ø125	0.25	15.0	3439	230		1.2
					250	1.5
Ø160	0.15	15.0	5732	300		1.0
					320	1.1
Ø200	0.1	15.0	8599	380		0.8
					400	0.9

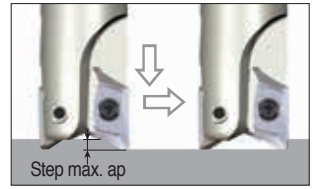
Straight ramping



Helical ramping



Step down



XEVT 16: 0.4R-1.6R

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø25	23.5	16	37	29.1		4.8	4
					50	13.6	4
Ø32	14.5	16	62	43.1		7.7	4
					64	13.6	4
Ø40	10.0	16	91	59.1		9.0	4
					80	13.6	4
Ø50	7.5	16	122	79.1		10.2	4
					100	13.6	4
Ø63	5.5	16	166	105.1		10.8	4
					126	13.6	4
Ø80	4.5	16	203	139.1		12.4	4
					160	13.6	4
Ø100	3.3	16	278	179.1		12.2	4
					200	13.6	4
Ø125	2.5	16	367	229.1		12.1	4
					250	13.6	4
Ø160	1.5	16	611	299.1		9.7	4
					320	11.2	4
Ø200	1.0	16	917	379.1		8.3	4
					400	9.3	4

XEVT 16: 2.0R

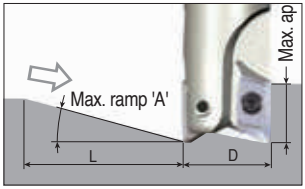
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø25	23.5	15.5	36	29.1		4.8	3.5
					50	13.2	3.5
Ø32	14.5	15.5	60	43.1		7.7	3.5
					64	13.2	3.5
Ø40	10.0	15.5	88	59.1		9.0	3.5
					80	13.2	3.5
Ø50	7.5	15.5	118	79.1		10.2	3.5
					100	13.2	3.5
Ø63	5.5	15.5	161	105.1		10.8	3.5
					126	13.2	3.5
Ø80	4.5	15.5	197	139.1		12.4	3.5
					160	13.2	3.5
Ø100	3.3	15.5	269	179.1		12.2	3.5
					200	13.2	3.5
Ø125	2.5	15.5	355	229.1		12.1	3.5
					250	13.2	3.5
Ø160	1.5	15.5	592	299.1		9.7	3.5
					320	11.2	3.5
Ø200	1.0	15.5	888	379.1		8.3	3.5
					400	9.3	3.5

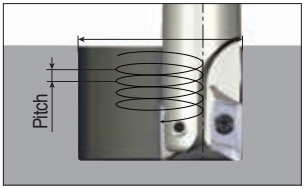
Ramping Data

CHASEALU

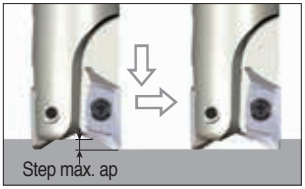
Straight ramping



Helical ramping



Step down



XEVT 16: 3.0R-3.2R

(unit: mm)

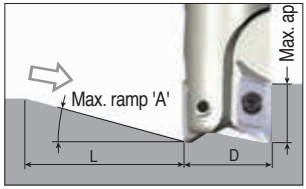
Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø25	22.5	14.5	35	29.1		4.5	2.8
					50	12.3	2.8
Ø32	13.5	14.5	60	43.1		7.1	2.8
					64	12.3	2.8
Ø40	9.0	14.5	92	59.1		8.1	2.8
					80	12.3	2.8
Ø50	6.5	14.5	127	79.1		8.8	2.8
					100	12.3	2.8
Ø63	5.0	14.5	166	105.1		9.8	2.8
					126	12.3	2.8
Ø80	4.0	14.5	207	139.1		11.0	2.8
					160	12.3	2.8
Ø100	3.0	14.5	277	179.1		11.1	2.8
					200	12.3	2.8
Ø125	2.0	14.5	415	229.1		9.7	2.8
					250	11.6	2.8
Ø160	1.1	14.5	756	299.1		7.1	2.8
					320	8.2	2.8
Ø200	0.8	14.5	1039	379.1		6.7	2.8
					400	7.4	2.8

XEVT 16: 4.0R-5.0R

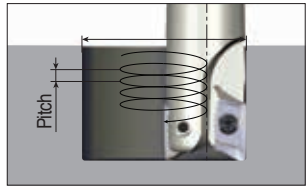
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø25	20.0	14.5	40	29.1		4.0	2.4
					50	12.3	2.4
Ø32	12.0	14.5	68	43.1		6.3	2.4
					64	12.3	2.4
Ø40	7.5	14.5	110	59.1		6.7	2.4
					80	12.3	2.4
Ø50	5.5	14.5	151	79.1		7.5	2.4
					100	12.3	2.4
Ø63	4.5	14.5	184	105.1		8.8	2.4
					126	12.3	2.4
Ø80	3.5	14.5	237	139.1		9.6	2.4
					160	12.3	2.4
Ø100	3.0	14.5	277	179.1		11.1	2.4
					200	12.3	2.4
Ø125	2.0	14.5	415	229.1		9.7	2.4
					250	11.6	2.4
Ø160	1.0	14.5	831	299.1		6.5	2.4
					320	7.5	2.4
Ø200	0.7	14.5	1187	379.1		5.8	2.4
					400	6.5	2.4

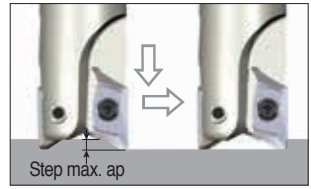
Straight ramping



Helical ramping



Step down



XEVT 22: 0.5R-0.8R

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø32	20.0	21	58	38.5		6.3	4.7
					64	17.9	4.7
Ø40	14.0	21	84	54.5		9.6	4.7
					80	17.9	4.7
Ø50	9.5	21	126	74.5		10.9	4.7
					100	17.9	4.7
Ø63	7.0	21	171	100.5		12.3	4.7
					126	17.9	4.7
Ø80	5.0	21	240	134.5		12.7	4.7
					160	17.9	4.7
Ø100	3.7	21	325	174.5		12.9	4.7
					200	17.3	4.7
Ø125	2.6	21	463	224.5		12.1	4.7
					250	15.1	4.7
Ø200	1.6	21	752	374.5		13.0	4.7
					400	14.9	4.7

XEVT 22: 1.6R-2.0R

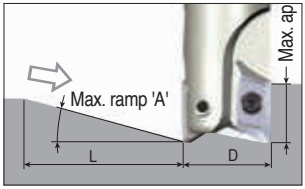
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø32	19.5	20.3	57	38.5		6.1	4.2
					64	17.3	4.2
Ø40	13.5	20.3	85	54.5		9.3	4.2
					80	17.3	4.2
Ø50	9.5	20.3	121	74.5		10.9	4.2
					100	17.3	4.2
Ø63	6.7	20.3	173	100.5		11.8	4.2
					126	17.3	4.2
Ø80	4.7	20.3	247	134.5		12.0	4.2
					160	17.3	4.2
Ø100	3.5	20.3	332	174.5		12.2	4.2
					200	16.3	4.2
Ø125	2.5	20.3	465	224.5		11.6	4.2
					250	14.6	4.2
Ø200	1.5	20.3	776	374.5		12.2	4.2
					400	14.0	4.2

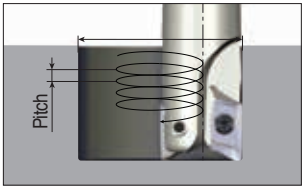
Ramping Data

CHASEALU

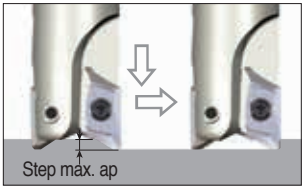
Straight ramping



Helical ramping



Step down



XEVT 22: 3.0R-4.0R

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø32	18.5	19.5	58	38.5		5.8	3.3
					64	16.6	3.3
Ø40	12.5	19.5	88	54.5		8.6	3.3
					80	16.6	3.3
Ø50	8.5	19.5	131	74.5		9.8	3.3
					100	16.6	3.3
Ø63	5.5	19.5	203	100.5		9.6	3.3
					126	16.2	3.3
Ø80	4.0	19.5	279	134.5		10.2	3.3
					160	14.9	3.3
Ø100	3.0	19.5	372	174.5		10.4	3.3
					200	14.0	3.3
Ø125	2.0	19.5	559	224.5		9.3	3.3
					250	11.6	3.3
Ø200	1.0	19.5	1118	374.5		8.1	3.3
					400	9.3	3.3

XEVT 22: 5.0R

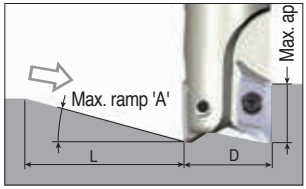
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø32	17.5	19	60	38.5		5.5	2.8
					64	16.2	2.8
Ø40	11.5	19	93	54.5		7.9	2.8
					80	16.2	2.8
Ø50	7.5	19	144	74.5		8.6	2.8
					100	16.2	2.8
Ø63	5.0	19	217	100.5		8.8	2.8
					126	14.7	2.8
Ø80	3.5	19	311	134.5		8.9	2.8
					160	13.1	2.8
Ø100	2.5	19	435	174.5		8.7	2.8
					200	11.6	2.8
Ø125	1.7	19	641	224.5		7.9	2.8
					250	9.9	2.8
Ø200	0.8	19	1361	374.5		6.5	2.8
					400	7.4	2.8

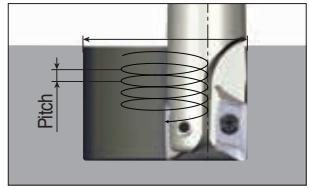
Ramping Data

CHASE ALU

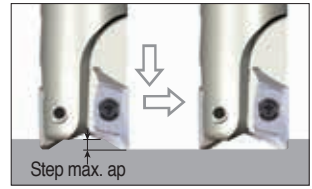
Straight ramping



Helical ramping



Step down



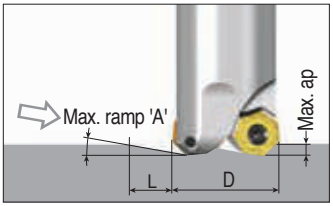
XEVT 22: 6.4R

(unit: mm)

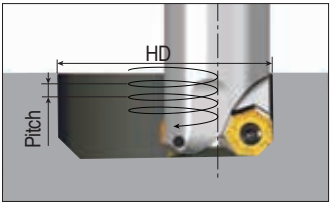
Cutter dia.(D)	Straight ramp down			Helical ramp down			Step down
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.	Max. ap
Ø32	16	18.2	64	38.5		5.0	2.1
					64	15.5	2.1
Ø40	10	18.2	103	54.5		6.8	2.1
					80	15.5	2.1
Ø50	6.5	18.2	160	74.5		7.4	2.1
					100	15.2	2.1
Ø63	4.5	18.2	231	100.5		7.9	2.1
					126	13.2	2.1
Ø80	3.0	18.2	347	134.5		7.6	2.1
					160	11.2	2.1
Ø100	2.0	18.2	521	174.5		6.9	2.1
					200	9.3	2.1
Ø125	1.5	18.2	695	224.5		7.0	2.1
					250	8.7	2.1
Ø200	0.7	18.2	1490	374.5		5.7	2.1
					400	6.5	2.1

Ramping Data

Straight ramping



Helical ramping

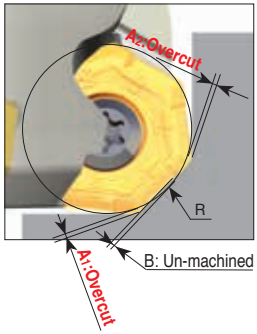


7EMT 06

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø32	29	3.2	6	45.5		3.2
					64	3.2
Ø40	15.5	3.2	12	61.5		3.2
					80	3.2
Ø50	9.5	3.2	19	81.5		3.2
					100	3.2
Ø63	5.5	3.2	33	107.5		3.2
					126	3.2
Ø80	4.0	3.2	46	141.5		3.2
					160	3.2
Ø100	3.0	3.2	61	181.5		3.2
					200	3.2
Ø125	2.0	2.3	66	231.5		3.2
					250	3.2

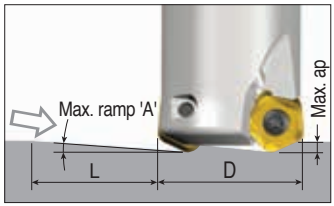
Programming technical data



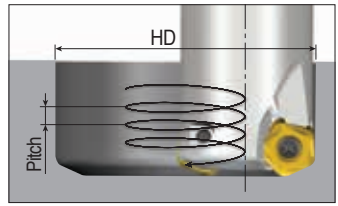
	R Program	A Over cut		B Un-machined
		A_1	A_2	B
7EMT 06	3	0	0	1.77
	4.5	0	0	1.51
	5	0.03	0.02	0.94
	6	0.21	0.19	0.53

:Recommended program 'R'

Straight ramping



Helical ramping

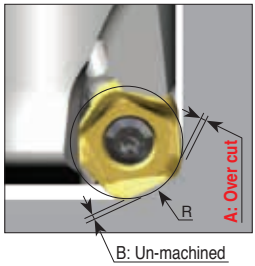


PTKU 05

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø20	1.3	1.5	66	33		0.7
					40	0.9
Ø25	1.1	1.5	78	43		0.8
					50	1.0
Ø26	1.0	1.5	86	45		0.8
					52	0.9
Ø32	1.0	1.5	86	57		1.0
					64	1.1
Ø33	1.0	1.5	86	59		1.0
					66	1.2
Ø40	0.8	1.5	101	73		1.1
					80	1.2
Ø50	0.7	1.5	123	93		1.1
					100	1.2
Ø52	0.7	1.5	123	97		1.2
					104	1.3
Ø63	0.6	1.5	132	119		1.3
					126	1.4
Ø66	0.6	1.5	143	125		1.3
					132	1.4

Programming technical data

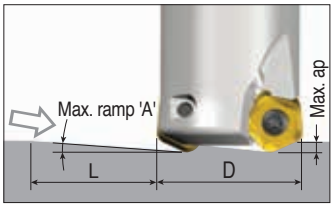


	R Program	A Over cut	B Un-machined
PTKU 05	2.5	0.00	0.83
	2.7	0.00	0.76
	3.0	0.04	0.66

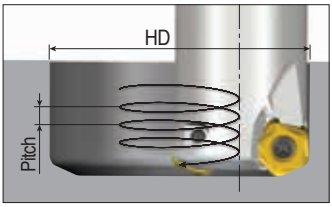
: Recommended program 'R'

Ramping Data

Straight ramping



Helical ramping

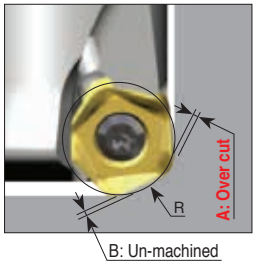


PTKU 10

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø40	1.5	3.0	111	63		1.7
					80	2.2
Ø50	1.9	3.0	88	83		2.8
					100	3.0
Ø63	1.7	3.0	101	109		3.0
					126	3.0
Ø66	2.2	3.0	78	115		3.0
					132	3.0
Ø80	1.5	3.0	115	143		3.0
					160	3.0
Ø100	1.1	3.0	150	183		3.0
					200	3.0
Ø125	0.8	3.0	202	233		3.0
					250	3.0
Ø160	0.6	3.0	265	303		3.0
					320	3.0
Ø200	0.5	3.0	344	383		3.0
					400	3.0

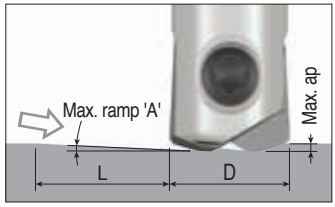
Programming technical data



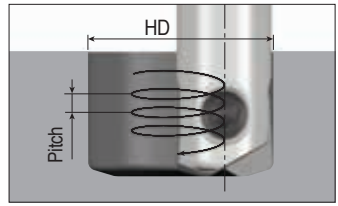
	R Program	A Over cut	B Un-machined
PTKU 10	5.5	0.00	1.45
	6.0	0.09	1.28
	6.5	0.21	1.11

: Recommended program 'R'

Straight ramping



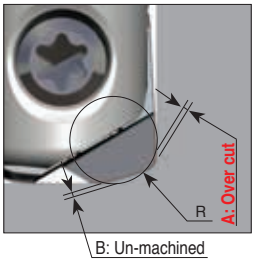
Helical ramping



HFN (unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø6	2.0	0.3	9	9.6		0.3
					11	0.3
Ø8	2.5	0.5	11	12		0.5
					15	0.5

Programming technical data

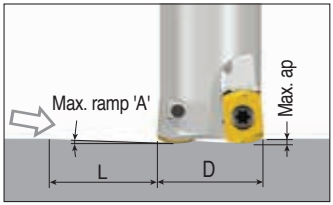


	R Program	A Over cut	B Un-machined
HFN 060	0.8	0.00	0.21
	1.0	0.03	0.16
HFN 080	0.8	0.00	0.38
	1.0	0.00	0.32
	1.2	0.02	0.27

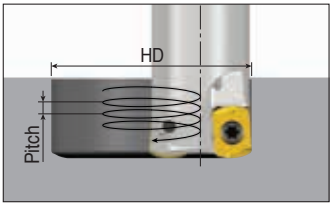
: Recommended program 'R'

Ramping Data

Straight ramping



Helical ramping

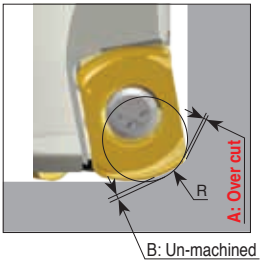


BLMP 04

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø8	0.4	0.5	72	12.6		0.1
					16	0.1
Ø10	0.6	0.5	44	16.6		0.2
					20	0.2
Ø11	0.7	0.5	38	18.6		0.2
					22	0.3
Ø12	1.0	0.5	29	20.6		0.4
					24	0.4
Ø13	1.1	0.5	25	22.6		0.5
					26	0.5
Ø16	1.0	0.5	29	28.6		0.5
					32	0.5
Ø17	1.1	0.5	26	30.6		0.5
					34	0.5
Ø20	1.0	0.5	27	36.6		0.5
					40	0.5
Ø21	0.7	0.5	38	38.6		0.5
					42	0.5
Ø25	0.7	0.5	38	46.6		0.5
					50	0.5
Ø32	0.6	0.5	48	60.6		0.5
					64	0.5

Programming technical data



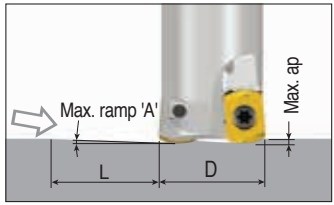
	R Program	A Over cut	B Un-machined
BLMP 04	0.8	0.00	0.28
	0.9	0.00	0.25
	1.0	0.08	0.22

: Recommended program 'R'

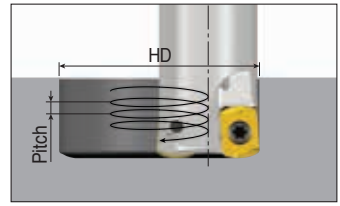
Ramping Data

CHASE4FEED

Straight ramping



Helical ramping

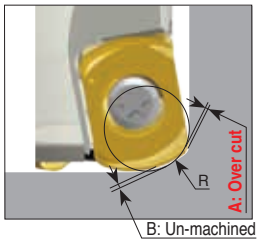


BLMP 06

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø16	2.0	0.7	13	23		0.7
					32	0.7
Ø17	2.0	0.7	15	25		0.7
					34	0.7
Ø18	2.3	0.7	16	27		0.7
					36	0.7
Ø20	1.5	1.0	38	31		0.8
					40	1.0
Ø21	1.5	1.0	38	33		0.8
					42	1.0
Ø22	1.5	1.0	38	35		1.0
					44	1.0
Ø25	1.3	1.0	41	41		1.0
					50	1.0
Ø26	1.2	1.0	44	43		1.0
					52	1.0
Ø30	1.0	1.0	52	51		1.0
					60	1.0
Ø32	0.9	1.0	57	55		1.0
					64	1.0
Ø33	0.9	1.0	57	57		1.0
					66	1.0
Ø35	0.8	1.0	57	61		1.0
					70	1.0
Ø40	0.7	1.0	64	71		1.0
					80	1.0
Ø42	0.7	1.0	72	75		1.0
					84	1.0
Ø50	0.6	1.0	96	91		1.0
					100	1.0
Ø52	0.6	1.0	96	95		1.0
					104	1.0
Ø63	0.5	1.0	115	117		1.0
					126	1.0
Ø66	0.5	1.0	115	123		1.0
					132	1.0

Programming technical data



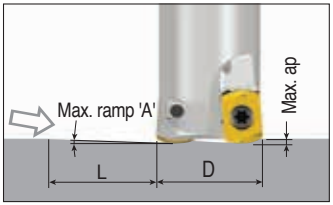
	R Program	A Over cut	B Un-machined
BLMP 06 (Ø16, Ø17, Ø18)	1.5	0	0.35
	2.0	0.1	0.22
	2.5	0.27	0.1
BLMP 06 (Ø20-)	2.0	0	0.42
	2.5	0.12	0.26
	3.0	0.29	0.17

: Recommended program 'R'

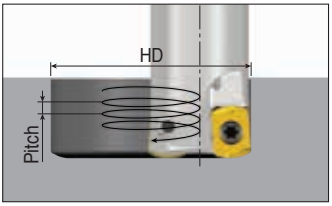
Ramping Data

CHASE4FEED

Straight ramping



Helical ramping

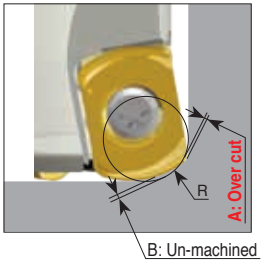


BLMP 09

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø25	2.2	1.5	39	42		1.5
					50	1.5
Ø26	2.2	1.5	39	44		1.5
					52	1.5
Ø30	2.0	1.5	43	52		1.5
					60	1.5
Ø32	2.0	1.5	43	56		1.5
					64	1.5
Ø33	2.0	1.5	43	58		1.5
					66	1.5
Ø35	2.0	1.5	43	60		1.5
					70	1.5
Ø40	1.5	1.5	57	72		1.5
					80	1.5
Ø42	1.5	1.5	57	76		1.5
					84	1.5
Ø50	1.0	1.5	86	92		1.5
					100	1.5
Ø52	1.0	1.5	86	96		1.5
					104	1.5
Ø63	0.9	1.5	96	118		1.5
					126	1.5
Ø66	0.9	1.5	96	124		1.5
					132	1.5
Ø80	0.8	1.5	107	152		1.5
					160	1.5
Ø100	0.7	1.5	123	192		1.5
					200	1.5
Ø125	0.4	1.5	215	240		1.5
					250	1.5

Programming technical data



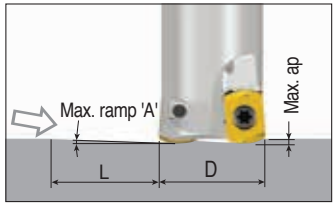
	R Program	A Over cut	B Un-machined
BLMP 09	2.5	0	0.61
	3.0	0.09	0.45
	3.5	0.24	0.30
	4.0	0.41	0.17
	3.0	0.36	0.04

: Recommended program 'R'

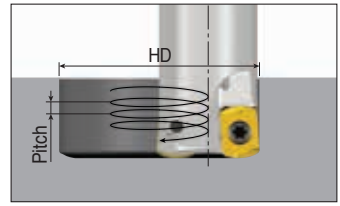
Ramping Data

CHASE4FEED

Straight ramping



Helical ramping

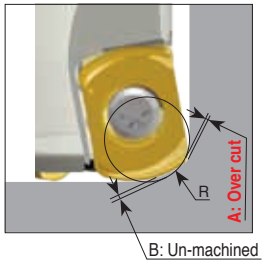


BLMP 11

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø30	0.50	2.0	229	41		0.3
					60	0.7
Ø32	0.50	2.0	229	45		0.3
					64	0.7
Ø33	0.45	2.0	255	47		0.3
					66	0.7
Ø35	0.50	2.0	229	51		0.4
					70	0.8
Ø40	0.55	2.0	208	61		0.5
					80	1.0
Ø42	0.50	2.0	229	65		0.5
					84	1.0
Ø50	0.50	2.0	229	81		0.7
					100	1.2
Ø52	0.45	2.0	255	85		0.7
					104	1.1
Ø63	0.45	2.0	255	107		0.9
					126	1.3
Ø66	0.40	2.0	287	113		0.9
					132	1.2
Ø80	0.35	2.0	328	141		1.0
					160	1.3
Ø100	0.30	2.0	382	181		1.1
					200	1.4
Ø125	0.25	2.0	459	231		1.2
					250	1.5
Ø160	0.20	2.0	573	301		1.3
					320	1.5
Ø200	0.15	2.0	764	381		1.3
					400	1.4

Programming technical data



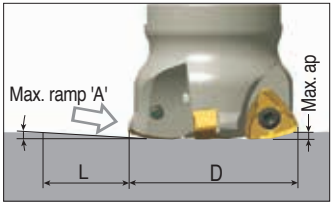
	R Program	A Over cut	B Un-machined
BLMP 11	2.4	0.00	1.09
	3.0	0.00	0.90
	3.2	0.18	0.85

: Recommended program 'R'

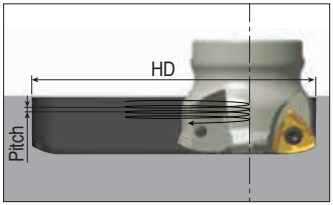
Ramping Data

CHASE2FEED

Straight ramping



Helical ramping

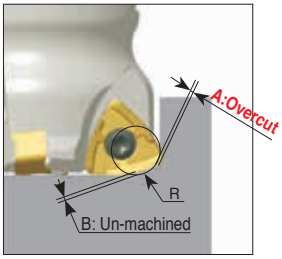


BLMP 13

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø32	0.8	2.0	143	50		0.7
					64	0.9
Ø33	1.1	2.0	104	52		1.0
					66	1.3
Ø35	1.1	2.0	104	56		1.1
					70	1.3
Ø40	1.2	2.0	96	66		1.4
					80	1.7
Ø42	1.1	2.0	104	70		1.3
					84	1.6
Ø50	0.8	2.0	143	86		1.2
					100	1.4
Ø52	0.8	2.0	143	90		1.3
					104	1.5
Ø63	0.6	2.0	191	112		1.2
					126	1.3
Ø66	0.6	2.0	191	118		1.2
					132	1.4
Ø80	0.5	2.0	229	146		1.3
					160	1.4
Ø100	0.4	2.0	287	186		1.3
					200	1.4
Ø125	0.3	2.0	382	236		1.2
					250	1.3
Ø160	0.3	2.0	382	306		1.6
					320	1.7
Ø200	0.2	2.0	573	386		1.3
					400	1.4
Ø250	0.2	2.0	573	486		1.7
					500	1.7

Programming technical data

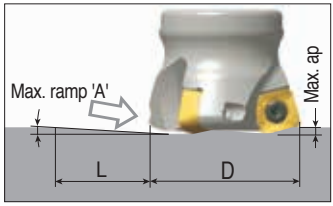


	R Program	A Over cut	B Un-machined
BLMP 13	3.0	0	1.31
	3.5	0	1.17
	4.0	0.04	1.03
	4.5	0.15	0.89
	5.0	0.3	0.76

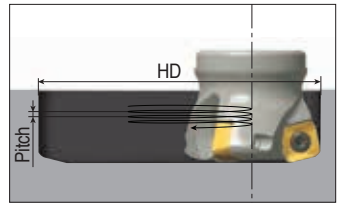
: Recommended program 'R'

Ramping Data

Straight ramping



Helical ramping

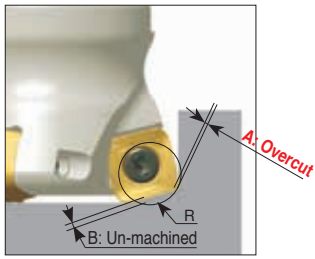


SBMT 06

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø16	2.2	1.0	25.5	22.8		0.7
					32	1.0
Ø17	2.4	1.0	23.4	24.8		0.9
					34	1.0
Ø20	3.2	1.0	17.9	30.8		1.0
					40	1.0
Ø21	3.1	1.0	18.5	32.8		1.0
					42	1.0
Ø25	2.4	1.0	23.4	40.8		1.0
					50	1.0
Ø32	1.8	1.0	31.8	54.8		1.0
					64	1.0
Ø40	1.3	1.0	42.5	70.8		1.0
					80	1.0
Ø50	1.0	1.0	57.3	90.8		1.0
					100	1.0
Ø63	0.7	1.0	76.4	116.8		1.0
					126	1.0

Programming technical data



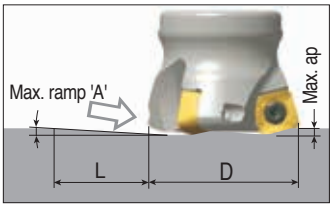
	R Program	A Over cut	B Un-machined
SBMT 06	1.8	0	0.81
	2.0	0	0.77
	2.2	0.01	0.73

:Recommended program 'R'

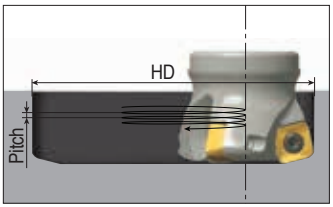
Ramping Data

CHASEFEED

Straight ramping



Helical ramping

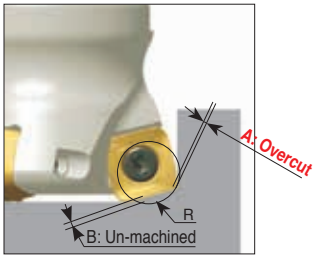


SBMT 09

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (Aº)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø25	1.6	1.2	43	36		1
					50	1.2
Ø26	1.7	1.2	40	38		1.1
					52	1.2
Ø30	3.1	1.2	22	46		1.2
					60	1.2
Ø32	3.9	1.2	18	50		1.2
					64	1.2
Ø33	3.7	1.2	19	52		1.2
					66	1.2
Ø35	3.4	1.2	18	56		1.2
					70	1.2
Ø40	2.8	1.2	25	66		1.2
					80	1.2
Ø42	2.6	1.2	26	70		1.2
					84	1.2
Ø50	2.0	1.2	34	86		1.2
					100	1.2
Ø52	1.9	1.2	38	90		1.2
					104	1.2
Ø63	1.5	1.2	43	112		1.2
					126	1.2
Ø66	1.1	1.2	63	118		1.2
					132	1.2
Ø80	1.2	1.2	63	146		1.2
					160	1.2

Programming technical data

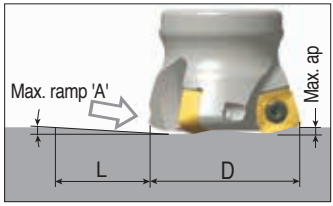


	R Program	A Over cut	B Un-machined
SBMT 09	3.5	0.1	0.81
	3	0	0.9
	2.5	0	0.98
	2	0	1.1

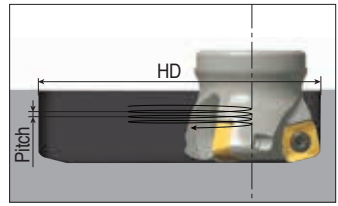
:Recommended program 'R'

Ramping Data

Straight ramping



Helical ramping

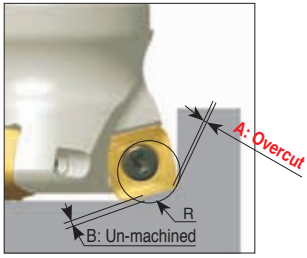


SBMT 13

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø32	7.0	2.0	16	47		2.0
					64	2.0
Ø33	6.9	2.0	17	49		2.0
					66	2.0
Ø35	6.4	2.0	18	53		2.0
					70	2.0
Ø40	5.3	2.0	22	63		2.0
					80	2.0
Ø42	4.4	2.0	26	67		2.0
					84	2.0
Ø50	4.3	2.0	27	83		2.0
					100	2.0
Ø52	4.0	2.0	29	87		2.0
					104	2.0
Ø63	2.9	2.0	40	109		2.0
					126	2.0
Ø80	2.0	2.0	57	143		2.0
					160	2.0
Ø100	1.5	2.0	76	183		2.0
					200	2.0
Ø125	1.1	2.0	104	233		2.0
					250	2.0
Ø160	0.8	2.0	104	303		2.0
					320	2.0
Ø200	0.6	2.0	127	383		2.0
					400	2.0
Ø250	0.5	2.0	164	483		2.0
					500	2.0

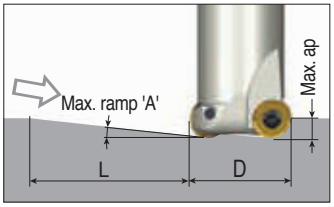
Programming technical data



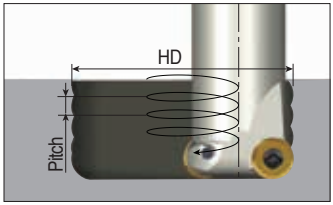
	R Program	A Over cut	B Un-machined
SBMT 13	4.0	0	1.62
	4.5	0	1.51
	5.0	0.04	1.4
	5.5	0.14	1.29
	6.0	0.28	1.18

:Recommended program 'R'

Straight ramping



Helical ramping



RNMU 10

(unit: mm)

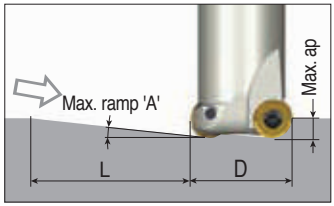
Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (Aº)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø25	1.1	5.0	261	33		0.4
					50	1.3
Ø26	1.1	5.0	261	35		0.5
					52	1.3
Ø32	0.9	5.0	318	47		0.6
					64	1.3
Ø33	0.9	5.0	318	49		0.7
					66	1.4
Ø40	0.9	5.0	318	63		1.0
					80	1.7
Ø42	0.9	5.0	318	67		1.0
					84	1.8
Ø50	0.7	5.0	409	83		1.1
					100	1.6
Ø52	0.8	5.0	358	87		1.3
					104	1.9

RNMU 12

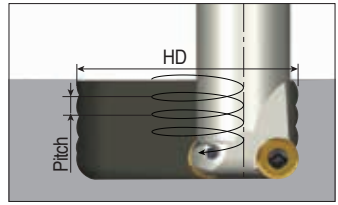
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (Aº)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø32	1.4	6.0	246	42		0.7
					64	2.1
Ø33	1.4	6.0	246	44		0.7
					66	2.2
Ø40	1.3	6.0	265	58		1.1
					80	2.4
Ø50	1.0	6.0	344	78		1.3
					100	2.3
Ø52	1.0	6.0	344	82		1.4
					104	2.4
Ø63	1.0	6.0	344	104		1.9
					126	2.9
Ø66	1.0	6.0	344	110		2.0
					132	3.1
Ø80	0.9	6.0	382	138		2.4
					160	3.4
Ø100	0.7	6.0	491	178		2.5
					200	3.3

Straight ramping



Helical ramping



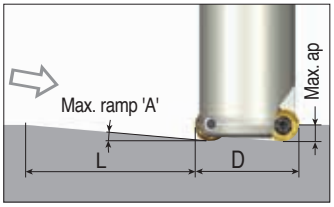
RNMU 16

(unit: mm)

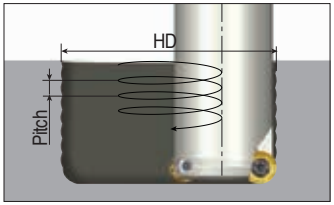
Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø40	1.4	8.0	328	52		0.8
					80	2.6
Ø42	1.4	8.0	328	56		0.9
					84	2.7
Ø50	1.3	8.0	353	72		1.3
					100	3.0
Ø52	1.0	8.0	459	76		1.1
					104	2.4
Ø63	1.0	8.0	459	98		1.6
					126	2.9
Ø66	1.0	8.0	459	104		1.8
					132	3.1
Ø80	1.0	8.0	459	132		2.4
					160	3.7
Ø100	0.9	8.0	510	172		3.0
					200	4.2
Ø125	0.9	8.0	510	222		4.1
					250	5.2

Ramping Data

Straight ramping



Helical ramping



RYM(H)X-08

(unit: mm)

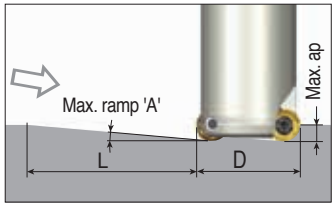
Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø16	2.5	4.0	92	18		0.2
					32	1.9
Ø17	2.5	4.0	92	20		0.3
					34	2.0
Ø18	2.5	4.0	92	22		0.5
					36	2.1
Ø20	4.0	4.0	57	26		1.1
					40	3.4
Ø21	4.0	4.0	57	28		1.3
					42	3.4
Ø25	4.0	4.0	57	36		2.1
					50	3.4
Ø26	4.0	4.0	57	38		2.2
					52	3.4
Ø32	4.0	4.0	57	50		3.4
					64	3.4
Ø40	7.0	4.0	33	66		3.4
					80	3.4

RYMX-10

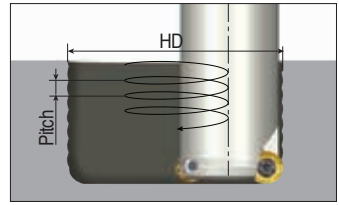
(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø20	4.5	5.0	64	22		0.4
					40	4.2
Ø21	4.5	5.0	64	24		0.6
					42	4.4
Ø25	5.0	5.0	57	32		1.6
					50	4.3
Ø26	5.0	5.0	57	34		1.9
					52	4.3
Ø32	5.0	5.0	57	46		3.3
					64	4.3
Ø35	5.0	5.0	57	52		4.0
					70	4.3
Ø40	5.0	5.0	57	62		4.3
					80	4.3
Ø42	5.0	5.0	57	66		4.3
					84	4.3
Ø50	6.5	5.0	44	82		4.3
					100	4.3
Ø52	6.0	5.0	48	86		4.3
					104	4.3
Ø66	4.5	5.0	64	114		4.3
					132	4.3

Straight ramping



Helical ramping



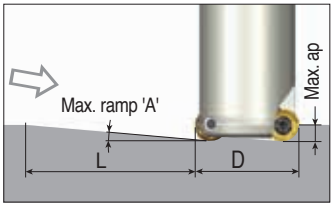
RYMX-12 (unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (Aº)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø25	6.0	6.0	57	28		0.8
					50	5.1
Ø26	6.0	6.0	57	30		1.1
					52	5.1
Ø32	12.0	6.0	28	42		5.1
					64	5.1
Ø33	12.0	6.0	28	44		5.1
					66	5.1
Ø35	12.0	6.0	28	48		5.1
					70	5.1
Ø40	10.0	6.0	34	58		5.1
					80	5.1
Ø42	12.0	6.0	28	62		5.1
					84	5.1
Ø50	9.0	6.0	38	78		5.1
					100	5.1
Ø52	8.0	6.0	43	82		5.1
					104	5.1
Ø55	8.0	6.0	43	88		5.1
					110	5.1
Ø63	7.0	6.0	49	104		5.1
					126	5.1
Ø66	6.5	6.0	53	110		5.1
					132	5.1
Ø80	4.5	6.0	76	138		5.1
					160	5.1
Ø100	3.5	6.0	98	178		5.1
					200	5.1
Ø125	2.5	6.0	137	228		5.1
					250	5.1

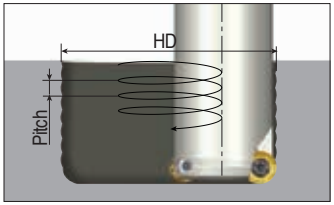
Ramping Data

CHASEMOLD

Straight ramping



Helical ramping



RYMX-16 (unit: mm)

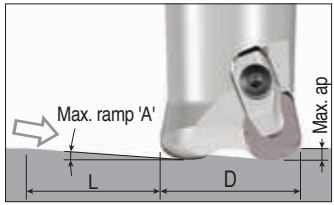
Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (Aº)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø32	8.0	8.0	57	34		0.7
					64	6.8
Ø40	9.5	8.0	48	50		4.5
					80	6.8
Ø42	9.0	8.0	51	54		5.1
					84	6.8
Ø50	9.0	8.0	51	70		6.8
					100	6.8
Ø52	9.0	8.0	51	74		6.8
					104	6.8
Ø63	8.5	8.0	54	96		6.8
					126	6.8
Ø66	8.5	8.0	54	102		6.8
					132	6.8
Ø80	6.0	8.0	76	130		6.8
					160	6.8
Ø100	5.0	8.0	91	170		6.8
					200	6.8
Ø125	3.5	8.0	131	220		6.8
					250	6.8
Ø160	3.5	8.0	131	290		6.8
					320	6.8

RYMX-20 (unit: mm)

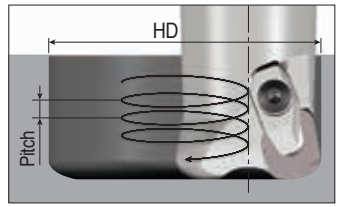
Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (Aº)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø50	8.0	10.0	71	62		4.5
					100	8.5
Ø63	12.5	10.0	45	88		8.5
					126	8.5
Ø80	8.5	10.0	67	122		8.5
					160	8.5
Ø100	6.5	10.0	88	162		8.5
					200	8.5
Ø125	4.5	10.0	127	212		8.5
					250	8.5
Ø160	4.0	10.0	143	282		8.5
					320	8.5
Ø200	2.5	10.0	229	362		8.5
					400	8.5
Ø250	2.4	10.0	239	462		8.5
					500	8.5

Ramping Data

Straight ramping



Helical ramping

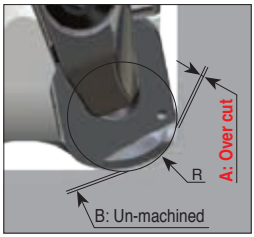


BNGX 09

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø25	1.2	1.5	55	39		0.9
					50	1.1
Ø32	0.6	1.5	132	53		0.6
					64	0.7
Ø40	0.6	1.5	143	69		0.7
					80	0.8
Ø50	0.5	1.5	156	89		0.9
					100	1.0

Programming technical data

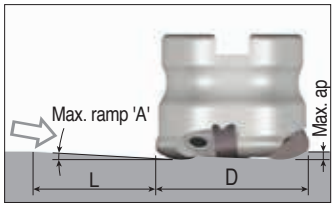


	R Program	A Over cut	B Un-machined
BNGX 09	3.0	0.00	0.61
	3.4	0.00	0.46
	3.5	0.01	0.43
	4.0	0.12	0.26

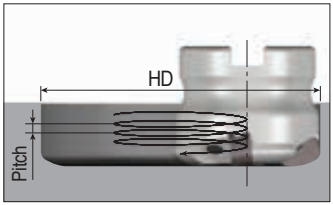
: Recommended program 'R'

Ramping Data

Straight ramping



Helical ramping

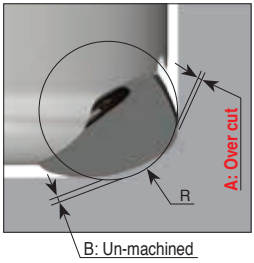


BNGX 12

(unit: mm)

Cutter dia.(D)	Straight ramp down			Helical ramp down		
	Max. ramp (A°)	Max. ap	Min. length (L)	Min. dia.(HD)	Max. dia.(HD)	Max. pitch/rev.
Ø50	0.6	2.5	239	84		1.1
					100	1.0
Ø63	0.5	2.5	287	110		1.1
					126	1.1
Ø80	0.4	2.5	318	144		1.3
					160	1.3

Programming technical data



	R Program	A Over cut	B Un-machined
BNGX 12	4.0	0.00	1.18
	4.5	0.00	1.00
	5.0	0.03	0.84

: Recommended program 'R'