HOLEMAKING

HOLEMAKING

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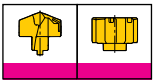
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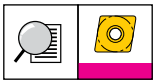
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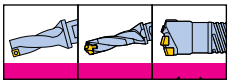
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Tool Selection Guide

Drilling tools

Series			Indexable drill				
			TOPDRILL		TDRILL		TDEEP
			TOP 2/3/4/5	TOP-CA	TDR 2/3/4/5	TDR-CA	TRGD/TRGD3
							
Pages			D16 - D27	D28 - D31	D32 - D44	D45 - D47	D144 - D150
DC(mm)			Ø12.0 - Ø50.0	Ø51.0 - Ø80.0	Ø12.5 - Ø50.0	Ø51.0 - Ø80.0	Ø14.0 - Ø36.0
Drilling depth(L/D)			2, 3, 4, 5 x Dc	2, 3, 4 x Dc	2, 3, 4, 5 x Dc	2.5, 3.5 x Dc	10-25 x Dc
Hole tolerance			IT 11-13	IT 12-13	IT 12-13	IT 12-13	IT 10-11
Application	General drilling		●	●	●	●	●
	Cross hole drilling		●	●	●	●	○
	Irregular surface drilling		○	○	○	○	
	Interrupted drilling		○	○	○	○	
	Chamfering						
Coolant supply			Internal	Internal	Internal	Internal	Internal

Tool Selection Guide

Drilling tools

Head changeable drill					Solid carbide drill
DRILLSPEED	DRILLRUSH		MODURDRILL	SPADERUSH	SOLID3DRILL
3ED	**TCD**	**TCD-M**	**TNDH-TP/MDB**	**LCD**	**3HD**
					
D49 - D50	D51 - D59	D60	D62 - D65	D66 - D68	D69 - D70
Ø15.0 - Ø20.9	Ø6.0 - Ø25.9	M8 - M24 (ISO)	Ø26.0 - Ø50.0	Ø20.0 - Ø41.0	Ø4.0 - Ø12.0
3, 5 x Dc	1.5, 3, 5, 8, 12 x Dc		3, 5 x Dc	3, 5, 8 x Dc	3, 5 x Dc
IT 9-10	IT 9-10	IT 9-10	IT 10-12	IT 9-10	IT 8-10
●	●	●	●	●	●
○	●		●	●	●
		●			
Internal	Internal	Internal	Internal	Internal	Internal

● Recommended, ○ Suitable

TaeguTec

Tool Selection Guide

Drilling tools

Series			Solid carbide drill					Multi-function tool
			HDRILL					TOPCAP
			NHD-PE/PI	NHD-KI	SHO 10/15/20	SHO-M	CDF	TCAP
								
Pages			D71 - D82	D83 - D84	D86	D87	D88	D91 - D95
DC(mm)			Ø3.0 - Ø12.0	Ø3.0 - Ø12.0	Ø4.0 - Ø10.0	M4 - M10 (ISO)	Ø3.0 - Ø12.7	Ø8.0 - Ø32.0
Drilling depth(L/D)			3, 5 x Dc	3, 5 x Dc	10, 15, 20 x Dc			2.25, 3 x Dc
Hole tolerance			IT 8-10	IT 8-10	IT 8-10	IT 8-10	IT 8-10	IT 10-12
Application	General drilling		●	●	●	●	●	●
	Cross hole drilling		●	●	○			
	Irregular surface drilling							●
	Interrupted drilling							
	Chamfering					●		
Coolant supply			External / Internal	Internal	Internal	Internal	External	Internal

● Recommended, ○ Suitable

ADVANCE CUTTING TaeguTec

Tool Selection Guide

Deep drilling tools

Series		Indexable deep drill head				
		TDEEP				
		TBTA3 	**TBTA5** 	**TBTA7** 	**TBTA9** 	**TBTA-FB** 
Pages		D99 - D104	D105 - D108	D109 - D111	D112 - D114	D115 - D120
DC(mm)		Ø38.00 - Ø106.99	Ø107.00 - Ø168.99	Ø169.00 - Ø232.99	Ø233.00 - Ø293.99	Ø25.00 - Ø89.00
Drilling depth(L/D)		100 x Dc	100 x Dc	100 x Dc	100 x Dc	100 x Dc
Hole tolerance		IT 10	IT 10	IT 10	IT 10	IT 10
Surface finish		3μm	3μm	3μm	3μm	3μm
Single tube	Outer four thread	●	●	●	●	●
	Inner single thread	●	●	● ★	●	●
Double tube	Outer four thread	●	●			●

★ In case of inner single thread connection TBTA7 series can cover up to dia. 245.99mm

Series		Indexable deep drill & boring head		Brazed deep drill head	
		TDEEP			
		TBTA-TR 	**TBTA-R** 	**BTA-SE/DE** 	**BTS-SE** 
Pages		D127 - D130	D121 - D126	D131 - D133	D134
DC(mm)		Ø16.00 - Ø40.00	Ø25.00 - Ø110.99	Ø12.60 - Ø65.00	Ø8.00 - Ø20.00
Drilling depth(L/D)		100 x Dc	100 x Dc	100 x Dc	100 x Dc
Hole tolerance		IT 10	IT 7 - IT 9	IT 9	IT 9
Surface finish		3μm	1-2μm	2μm	2μm
Single tube	Outer four thread	●	●	●	● ★
	Inner single thread	●	●		
Double tube	Outer four thread	●		●	

★ Two start thread: Diameter 12.60 to 15.59mm

● Recommended

Tool Selection Guide

Reaming tools

				Solid reamer	Indexable reamer	
				TSREAM	TMREAM	TBREAM
Series				**TS** 	**TM** 	**TB** 
Pages				D226 - D227	D228 - D229	D230 - D232
DC(mm)				Ø3.000 - Ø12.000	Ø11.501 - Ø32.000	Ø8.000 - Ø32.000
Reaming depth(L/D)				7.5-10 x Dc	3, 5, 8 x Dc	5-9 x Dc
Hole tolerance				IT 7	IT 7★	IT 6★★
Application		**Through**	**Blind**			
	General reaming			●	●	●
	Cross hole reaming			●		●
	Irregular surface reaming			●		●
	Interrupted reaming			●	●	●
Coolant supply				Internal	Internal	Internal

★ Up to IT 6 tolerance ★★ Up to IT 5 tolerance ● Recommended

ADVANCE CUTTING TaeguTec

Tool Selection Guide

Drill inserts

Series			TOPDRILL	TDRILL	DRILLSPEED	DRILLRUSH	
			SOMT	SPMG / SPGG	3ED-P+	TCD-P/M/K/N	TCD-P+
							
Pages			D152 - D153	D154 - D155	D156 - D157	D158 - D164	D165 - D169
Size			04/05/06/07/08 09/11/13/15	05/06/07/09 11/12/14	Ø15.0 - Ø20.9	Ø6.0 - Ø25.9	Ø6.0 - Ø25.9
Chip former			DP, DK, DL, DA	DG, DK, DA	P+	P/M/K/N	P+
Grades			TT9080, TT9300 TT8020, TT6080 K10	TT9030, TT8020 TT7400, TT6030 K10	TT5130	TT9080 UF10	TT9080
Application	General drilling		●	●	●	●	●
	Cross hole drilling		●	●	●	●	●
	Irregular surface drilling		○	○	○	○	○
	Interrupted drilling		○	○			
	Chamfering						

● Recommended, ○ Suitable

TaeguTec

Tool Selection Guide

Drill inserts

			DRILLRUSH		MODUDRILL	
			TCD-F	**AOMT**	**TCD-P-CO+**	**SPGX...DW**
Series						
Pages			D170 - D171	D172	D173	D173
Size			Ø8.0 - Ø25.5	06 - C45	Ø15.9 - Ø25.9	06/07/09/11/14
Chip former			F	-	P-CO+	DW
Grades			TT9080	TT9080	TT9080	TT9080
Application	General drilling		●		●	●
	Cross hole drilling		●		●	●
	Irregular surface drilling		○		○	○
	Interrupted drilling					
	Chamfering			●		

Tool Selection Guide

Drill inserts

SPADERUSH		DRILLRUSH	TCHAMFER	TOPCAP
LCD-P	**LCD-F**	**CRNG**	**XCGT**	**XCGT XCMT**
				
D174 - D175	D176 - D177	D172	D178	D179 - D180
Ø20.0 - Ø41.0	Ø20.0 - Ø41.0	08 - 45CD	06/09	04/05/06/07/08 10/13/17
P	F	-	C30/C45/C60	TA/GV/TC
TT9080	TT9080	TT9080	TT9080	TT9080, TT8020, TT9030, K10
●				●
●				
○				
	●		●	

● Recommended, ○ Suitable

TaeguTec

Tool Selection Guide

Drill inserts

Series			TDEEP			
			NPHT NPMT 	**NPMX TPMX** 	**TOGT** 	**TPMX XPMT** 
Pages			D181 - D183	D184	D185	D186
Size			06/07/08/09 /11/13	08/14/17/24/28	07/08/09/10/11 /12/13/14	14/16/17/24
Chip former			R(L)-G ... /R(L)-HF...	R-B/R-G	RS/GF	LG/-45
Grades			TT9030, TT9130, TT8125, TT6130, TT5030	TT9030, TT9130, TT8125, TT7200, TT6130, TT6020, TT5100, TT5030	TT9030	TT9030, TT9130, TT6020, TT5100
Application	General drilling		●	●	●	●
	Cross hole drilling		○	○		○
	Irregular surface drilling					
	Interrupted drilling					
	Chamfering					

Tool Selection Guide

Reamer heads & blades

Series				TMREAM TM 	TBREAM TB 
Pages				D233 - D234	D235
Size				Ø11.501 - Ø32.000	1/2/3/4
Chip former				BL/AS	A06/B06/B12
Grades				TT9030	TT5030, TT5050
Application		Through	Blind		
	General reaming			●	●
	Cross hole reaming				
	Irregular surface reaming				
	Interrupted reaming				

● Recommended, ○ Suitable

TaeguTec

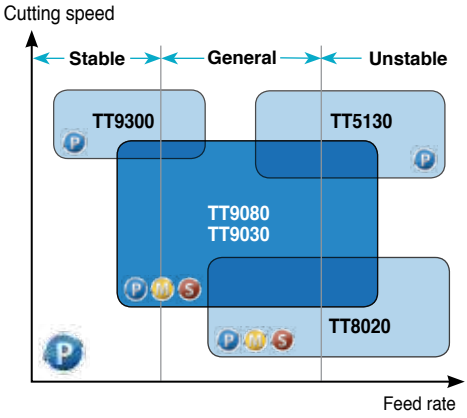
Grades

Holemaking grades

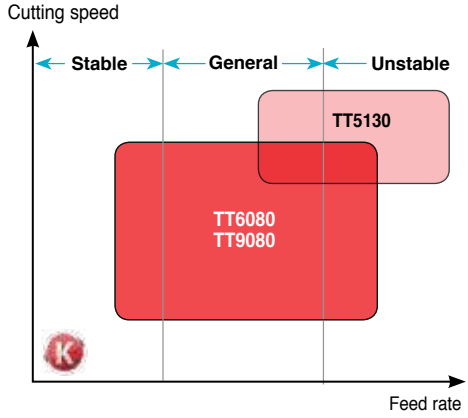
Grades	ISO	Characteristics & applications
TT6080 PVD carbide	K05 – K25 H05 – H25	• General machining for gray and ductile cast iron • Finish and medium machining of hardened steel
TT9300 CVD carbide	P10 – P25	• High speed drilling of carbon & alloy steel
TT5130 PVD carbide	P20 – P40 K20 – K40	• High speed drilling of carbon & alloy steel
TT9080 PVD carbide	P20 – P40 M20 – M40 S20 – S40	• General machining of steel • General machining of stainless steel • General machining of heat-resistant alloy
TT9030 PVD carbide	P20 – P40 M20 – M40 S20 – S40	• General machining of steel • General machining of stainless steel • General machining of heat-resistant alloy
TT8020 PVD carbide	P30 – P50 M30 – M50 S30 – S50	• Interrupted and rough machining of steel • Interrupted and rough machining of stainless steel • Low speed and interrupted machining of heat-resistant alloy
K10 Uncoated	K05 – K15 N05 – N15 S05 – S15	• General machining of cast iron • General machining of aluminum alloys and non-ferrous materials • General machining of heat-resistant alloy
UF1A/UF10 Uncoated	N10 – N25 S10 – S30	• General machining of aluminum alloys and non-ferrous materials • General machining of heat-resistant alloy

Selection guide for holemaking grades

For steel



For cast iron

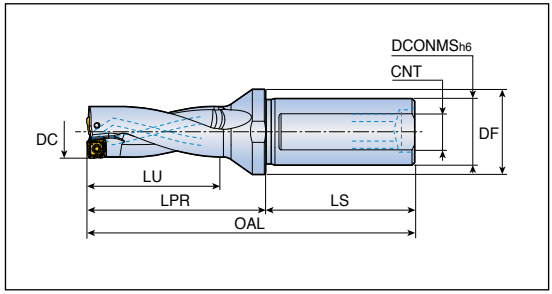


Drilling Tools

TOP 2...-T2

TOPDRILL

Indexable drill holders



• Drilling depth: 2xdiameter

Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TOP 2120-20T2-04	12.0	20	25	24	44	50	M13X1.0	SOMT 04...DP
2125-20T2-04	12.5	20	25	26	46	50	M13X1.0	D152
2130-20T2-04	13.0	20	25	26	46	50	M13X1.0	
2135-20T2-04	13.5	20	25	28	46	50	M13X1.0	
2140-20T2-05	14.0	20	25	28	46	50	M13X1.0	SOMT 05...DP/DL/DK/DA
2145-20T2-05	14.5	20	25	30	49	50	M13X1.0	D152-153
2150-20T2-05	15.0	20	25	30	49	50	M13X1.0	
2155-20T2-05	15.5	20	25	32	52	50	M13X1.0	
2160-20T2-05	16.0	20	25	32	52	50	M13X1.0	
2165-25T2-06	16.5	25	32	34	54	56	M16X1.5	SOMT 06...DP/DL/DK/DA
2170-25T2-06	17.0	25	32	34	54	56	M16X1.5	D152-153
2175-25T2-06	17.5	25	32	36	57	56	M16X1.5	
2180-25T2-06	18.0	25	32	36	57	56	M16X1.5	
2185-25T2-06	18.5	25	32	38	59	56	M16X1.5	
2190-25T2-06	19.0	25	32	38	59	56	M16X1.5	
2195-25T2-07	19.5	25	32	40	63	56	M16X1.5	SOMT 07...DP/DL/DK/DA
2200-25T2-07	20.0	25	32	40	63	56	M16X1.5	D152-153
2205-25T2-07	20.5	25	32	42	65	56	M16X1.5	
2210-25T2-07	21.0	25	32	42	65	56	M16X1.5	
2215-25T2-07	21.5	25	32	44	67	56	M16X1.5	
2220-25T2-07	22.0	25	32	44	67	56	M16X1.5	
2225-25T2-08	22.5	25	32	46	68	56	M16X1.5	SOMT 08...DP/DL/DK/DA
2230-25T2-08	23.0	25	32	46	68	56	M16X1.5	D152-153
2230-32T2-08	23.0	32	40	46	68	60	M22X2.0	
2235-25T2-08	23.5	25	32	48	70	56	M16X1.5	
2235-32T2-08	23.5	32	40	48	70	60	M22X2.0	
2240-25T2-08	24.0	25	32	48	70	56	M16X1.5	
2240-32T2-08	24.0	32	40	48	70	60	M22X2.0	
2245-25T2-08	24.5	25	32	50	72	56	M16X1.5	
2245-32T2-08	24.5	32	40	50	72	60	M22X2.0	
2250-25T2-08	25.0	25	32	50	72	56	M16X1.5	
2250-32T2-08	25.0	32	40	50	72	60	M22X2.0	
2255-25T2-08	25.5	25	32	52	73	56	M16X1.5	
2255-32T2-08	25.5	32	40	52	73	60	M22X2.0	
2260-25T2-08	26.0	25	32	52	73	56	M16X1.5	
2260-32T2-08	26.0	32	40	52	73	60	M22X2.0	

Cutting Condition D192

• OAL = LPR+LS

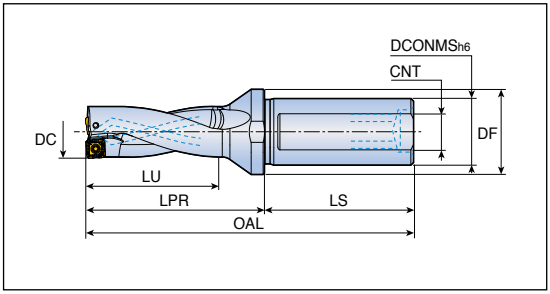
ADVANCE CUTTING TaeguTec

TOP 2...-T2

TOPDRILL

Indexable drill holders

• Drilling depth: 2xdiameter



Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TOP 2265-32T2-09	26.5	32	40	54	77	60	M22X2.0	SOMT 09...DP/DL/DK/DA
2270-25T2-09	27.0	25	40	54	77	56	M16X1.5	D152-153
2270-32T2-09	27.0	32	40	54	77	60	M22X2.0	
2275-32T2-09	27.5	32	40	56	79	60	M22X2.0	
2280-25T2-09	28.0	25	40	56	79	56	M16X1.5	
2280-32T2-09	28.0	32	40	56	79	60	M22X2.0	
2285-32T2-09	28.5	32	40	58	81	60	M22X2.0	
2290-25T2-09	29.0	25	40	58	81	56	M16X1.5	
2290-32T2-09	29.0	32	40	58	81	60	M22X2.0	
2295-32T2-09	29.5	32	40	60	83	60	M22X2.0	
2300-32T2-09	30.0	32	40	60	83	60	M22X2.0	
2305-32T2-09	30.5	32	40	62	85	60	M22X2.0	
2310-32T2-09	31.0	32	40	62	85	60	M22X2.0	
2320-32T2-11	32.0	32	40	64	87	60	M22X2.0	SOMT 11...DP/DL/DK/DA
2320-40T2-11	32.0	40	50	64	87	70	M30X2.0	D152-153
2330-32T2-11	33.0	32	40	66	89	60	M22X2.0	
2330-40T2-11	33.0	40	50	66	89	70	M30X2.0	
2340-32T2-11	34.0	32	40	68	91	60	M22X2.0	
2340-40T2-11	34.0	40	50	68	91	70	M30X2.0	
2350-32T2-11	35.0	32	40	70	93	60	M22X2.0	
2350-40T2-11	35.0	40	50	70	93	70	M30X2.0	
2360-32T2-11	36.0	32	40	72	95	60	M22X2.0	
2360-40T2-11	36.0	40	50	72	95	70	M30X2.0	
2370-32T2-13	37.0	32	50	74	102	60	M22X2.0	SOMT 13...DP/DL/DK/DA
2370-40T2-13	37.0	40	50	74	102	70	M30X2.0	D152-153
2380-32T2-13	38.0	32	50	76	104	60	M22X2.0	
2380-40T2-13	38.0	40	50	76	104	70	M30X2.0	
2390-32T2-13	39.0	32	50	78	106	60	M22X2.0	
2390-40T2-13	39.0	40	50	78	106	70	M30X2.0	
2400-32T2-13	40.0	32	50	80	108	60	M22X2.0	
2400-40T2-13	40.0	40	50	80	108	70	M30X2.0	
2410-40T2-13	41.0	40	50	82	110	70	M30X2.0	
2420-40T2-13	42.0	40	50	84	112	70	M30X2.0	
2430-40T2-13	43.0	40	50	86	114	70	M30X2.0	

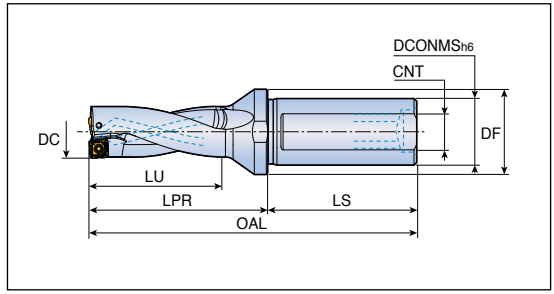
Cutting Condition D192

• OAL = LPR+LS

TaeguTec

Indexable drill holders

• Drilling depth: 2xdiameter



Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TOP 2440-40T2-15	44.0	40	60	88	123	70	M30X2.0	SOMT 15...DP/DL/DK/DA
2450-40T2-15	45.0	40	60	90	125	70	M30X2.0	D152-153
2460-40T2-15	46.0	40	60	92	127	70	M30X2.0	
2470-40T2-15	47.0	40	60	94	129	70	M30X2.0	
2480-40T2-15	48.0	40	60	96	131	70	M30X2.0	
2490-40T2-15	49.0	40	60	98	133	70	M30X2.0	
2500-40T2-15	50.0	40	60	100	135	70	M30X2.0	

• OAL = LPR+LS

Spare parts

Designation	Screw	Wrench	Plug*	
TOP 2120 - 2135	TS 18041I/HG	TD 6P	SL 20M	
TOP 2140 - 2160	TS 20043I/HG-P	TD 6P	SL 20M	
TOP 2165 - 2220	TS 22052I/HG-P	TD 7P	SL 25M	
TOP 2225 - 2260	SO 25065I	TD 7	SL 25M / SL 32M	
TOP 2265 - 2360	TS 35088I	TD 10	SL 25M / SL 32M / SL 40M	
TOP 2370 - 2430	TS 40093I	TD 15	SL 32M / SL 40M	
TOP 2440 - 2550	TS 50115I	TD 20	SL 40M	

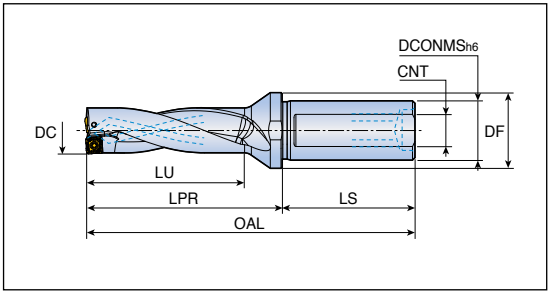
Cutting Condition D192

• *Notice: Cooling hole plug for lathe should be ordered separately
Order example) Plug for shank diameter 25.0mm : SL 25M

TOP 3...-T2

TOPDRILL

Indexable drill holders



• Drilling depth: 3xdiameter

Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TOP 3120-20T2-04	12.0	20	25	36	56	50	M13X1.0	SOMT 04...DP D152-153
3125-20T2-04	12.5	20	25	39	59	50	M13X1.0	
3130-20T2-04	13.0	20	25	39	59	50	M13X1.0	
3135-20T2-04	13.5	20	25	42	60	50	M13X1.0	
3140-20T2-05	14.0	20	25	42	60	50	M13X1.0	SOMT 05...DP/DL/DK/DA D152-153
3145-20T2-05	14.5	20	25	45	64	50	M13X1.0	
3150-20T2-05	15.0	20	25	45	64	50	M13X1.0	
3155-20T2-05	15.5	20	25	48	68	50	M13X1.0	
3160-20T2-05	16.0	20	25	48	68	50	M13X1.0	
3165-25T2-06	16.5	25	32	51	71	56	M16X1.5	SOMT 06...DP/DL/DK/DA D152-153
3167-25T2-06 *	16.7	25	32	51	71	56	M16X1.5	
3170-25T2-06	17.0	25	32	51	71	56	M16X1.5	
3175-25T2-06	17.5	25	32	54	75	56	M16X1.5	
3180-25T2-06	18.0	25	32	54	75	56	M16X1.5	
3185-25T2-06	18.5	25	32	57	78	56	M16X1.5	
3190-25T2-06	19.0	25	32	57	78	56	M16X1.5	
3195-25T2-07	19.5	25	32	60	83	56	M16X1.5	SOMT 07...DP/DL/DK/DA D152-153
3200-25T2-07	20.0	25	32	60	83	56	M16X1.5	
3205-25T2-07	20.5	25	32	63	86	56	M16X1.5	
3210-25T2-07	21.0	25	32	63	86	56	M16X1.5	
3215-25T2-07	21.5	25	32	66	89	56	M16X1.5	
3220-25T2-07	22.0	25	32	66	89	56	M16X1.5	
3222-25T2-07 *	22.2	25	32	66	89	56	M16X1.5	
3225-25T2-08	22.5	25	32	69	91	56	M16X1.5	SOMT 08...DP/DL/DK/DA D152-153
3230-25T2-08	23.0	25	32	69	91	56	M16X1.5	
3230-32T2-08	23.0	32	40	69	91	60	M22X2.0	
3235-25T2-08	23.5	25	32	72	94	56	M16X1.5	
3235-32T2-08	23.5	32	40	72	94	60	M22X2.0	
3240-25T2-08	24.0	25	32	72	94	56	M16X1.5	
3240-32T2-08	24.0	32	40	72	94	60	M22X2.0	
3245-25T2-08	24.5	25	32	75	97	56	M16X1.5	
3245-32T2-08	24.5	32	40	75	97	60	M22X2.0	
3250-25T2-08	25.0	25	32	75	97	56	M16X1.5	
3250-32T2-08	25.0	32	40	75	97	60	M22X2.0	
3254-25T2-08 *	25.4	25	32	75	97	56	M16X1.5	

Cutting Condition D192

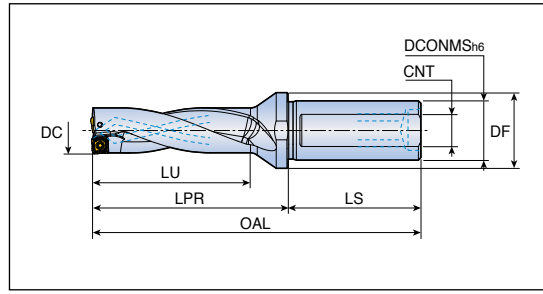
• '*' Marked items are for inch sized hole
• OAL = LPR+LS

TOP 3...-T2

TOPDRILL

Indexable drill holders

• Drilling depth: 3xdiameter



Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TOP 3255-25T2-08	25.5	25	32	78	99	56	M16X1.5	SOMT 08...DP/DL/DK/DA
3255-32T2-08	25.5	32	40	78	99	60	M22X2.0	D152-153
3260-25T2-08	26.0	25	32	78	99	56	M16X1.5	
3260-32T2-08	26.0	32	32	78	99	60	M22X2.0	
3265-25T2-09	26.5	25	40	81	104	56	M16X1.5	SOMT 09...DP/DL/DK/DA
3265-32T2-09	26.5	32	40	81	104	60	M22X2.0	D152-153
3270-25T2-09	27.0	25	40	81	104	56	M16X1.5	
3270-32T2-09	27.0	32	40	81	104	60	M22X2.0	
3275-25T2-09	27.5	25	40	84	107	56	M16X1.5	
3275-32T2-09	27.5	32	40	84	107	60	M22X2.0	
3280-25T2-09	28.0	25	40	84	107	56	M16X1.5	
3280-32T2-09	28.0	32	40	84	107	60	M22X2.0	
3285-25T2-09	28.5	25	40	87	110	56	M16X1.5	
3285-32T2-09	28.5	32	40	87	110	60	M22X2.0	
3290-25T2-09	29.0	25	40	87	110	56	M16X1.5	
3290-32T2-09	29.0	32	40	87	110	60	M22X2.0	
3295-32T2-09	29.5	32	40	90	113	60	M22X2.0	
3300-32T2-09	30.0	32	40	90	113	60	M22X2.0	
3305-32T2-09	30.5	32	40	93	116	60	M22X2.0	
3310-32T2-09	31.0	32	40	93	116	60	M22X2.0	
3320-32T2-11	32.0	32	40	96	119	60	M22X2.0	SOMT 11...DP/DL/DK/DA
3320-40T2-11	32.0	40	50	96	119	70	M30X2.0	D152-153
3330-32T2-11	33.0	32	40	99	122	60	M22X2.0	
3330-40T2-11	33.0	40	50	99	122	70	M30X2.0	
3340-32T2-11	34.0	32	40	102	125	60	M22X2.0	
3340-40T2-11	34.0	40	50	102	125	70	M30X2.0	
3350-32T2-11	35.0	32	40	105	128	60	M22X2.0	
3350-40T2-11	35.0	40	50	105	128	70	M30X2.0	
3360-32T2-11	36.0	32	40	108	131	60	M22X2.0	
3360-40T2-11	36.0	40	50	108	131	70	M30X2.0	
3370-32T2-13	37.0	32	50	111	139	60	M22X2.0	SOMT 13...DP/DL/DK/DA
3370-40T2-13	37.0	40	50	111	139	70	M30X2.0	D152-153
3380-32T2-13	38.0	32	50	114	142	60	M22X2.0	
3380-40T2-13	38.0	40	50	114	142	70	M30X2.0	
3390-32T2-13	39.0	32	50	117	145	60	M22X2.0	

• OAL = LPR+LS

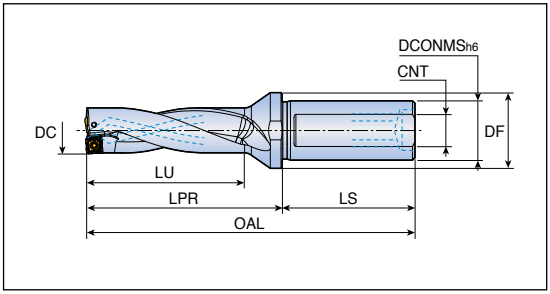
Cutting Condition D192

ADVANCE CUTTING TaeguTec

TOP 3...-T2

TOPDRILL

Indexable drill holders



• Drilling depth: 3xdiameter

Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TOP 3390-40T2-13	39.0	40	50	117	145	70	M30X2.0	SOMT 13...DP/DL/DK/DA
3400-32T2-13	40.0	32	50	120	148	60	M22X2.0	D152-153
3400-40T2-13	40.0	40	50	120	148	70	M30X2.0	
3410-40T2-13	41.0	40	50	123	151	70	M30X2.0	
3420-40T2-13	42.0	40	50	126	154	70	M30X2.0	
3430-40T2-13	43.0	40	50	129	157	70	M30X2.0	
3440-40T2-15	44.0	40	60	132	167	70	M30X2.0	SOMT 15...DP/DL/DK/DA
3450-40T2-15	45.0	40	60	135	170	70	M30X2.0	D152-153
3460-40T2-15	46.0	40	60	138	173	70	M30X2.0	
3470-40T2-15	47.0	40	60	141	176	70	M30X2.0	
3480-40T2-15	48.0	40	60	144	179	70	M30X2.0	
3490-40T2-15	49.0	40	60	147	182	70	M30X2.0	
3500-40T2-15	50.0	40	60	150	185	70	M30X2.0	

• OAL = LPR+LS

Spare parts

Designation	Screw	Wrench	Plug*	
TOP 3120 - 3135	TS 18041I/HG	TD 6P	SL 20M	
TOP 3140 - 3160	TS 20043I/HG-P	TD 6P	SL 20M	
TOP 3165 - 3220	TS 22052I/HG-P	TD 7P	SL 25M	
TOP 3225 - 3260	SO 25065I	TD 7	SL 25M / SL 32M	
TOP 3265 - 3360	TS 35088I	TD 10	SL 25M / SL 32M / SL 40M	
TOP 3370 - 3430	TS 40093I	TD 15	SL 32M / SL 40M	
TOP 3440 - 3500	TS 50115I	TD 20	SL 40M	

Cutting Condition D192

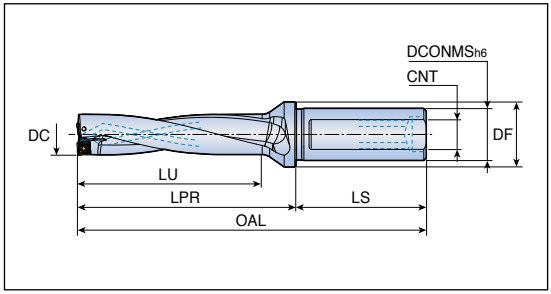
• *Notice: Cooling hole plug for lathe should be ordered separately
Order example) Plug for shank diameter 25.0mm : SL 25M

TOP 4...-T2

TOPDRILL

Indexable drill holders

• Drilling depth: 4xdiameter



Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TOP 4120-20T2-04	12.0	20	25	48	68	50	M13X1.0	SOMT 04...DP
4125-20T2-04	12.5	20	25	52	72	50	M13X1.0	D152
4130-20T2-04	13.0	20	25	52	72	50	M13X1.0	
4135-20T2-04	13.5	20	25	56	74	50	M13X1.0	
4140-20T2-05	14.0	20	25	56	74	50	M13X1.0	SOMT 05...DP/DL/DK/DA
4145-20T2-05	14.5	20	25	60	79	50	M13X1.0	D152-153
4150-20T2-05	15.0	20	25	60	79	50	M13X1.0	
4155-20T2-05	15.5	20	25	64	84	50	M13X1.0	
4160-20T2-05	16.0	20	25	64	84	50	M13X1.0	
4165-25T2-06	16.5	25	32	68	88	56	M16X1.5	SOMT 06...DP/DL/DK/DA
4170-25T2-06	17.0	25	32	68	88	56	M16X1.5	D152-153
4175-25T2-06	17.5	25	32	72	93	56	M16X1.5	
4180-25T2-06	18.0	25	32	72	93	56	M16X1.5	
4185-25T2-06	18.5	25	32	76	97	56	M16X1.5	
4190-25T2-06	19.0	25	32	76	97	56	M16X1.5	
4195-25T2-07	19.5	25	32	80	103	56	M16X1.5	SOMT 07...DP/DL/DK/DA
4200-25T2-07	20.0	25	32	80	103	56	M16X1.5	D152-153
4205-25T2-07	20.5	25	32	84	107	56	M16X1.5	
4210-25T2-07	21.0	25	32	84	107	56	M16X1.5	
4215-25T2-07	21.5	25	32	88	111	56	M16X1.5	
4220-25T2-07	22.0	25	32	88	111	56	M16X1.5	
4225-25T2-08	22.5	25	32	92	114	56	M16X1.5	SOMT 08...DP/DL/DK/DA
4230-25T2-08	23.0	25	32	92	114	56	M16X1.5	D152-153
4230-32T2-08	23.0	32	40	92	114	60	M22X2.0	
4235-25T2-08	23.5	25	32	96	118	56	M16X1.5	
4235-32T2-08	23.5	32	40	96	118	60	M22X2.0	
4240-25T2-08	24.0	25	32	96	118	56	M16X1.5	
4240-32T2-08	24.0	32	40	96	118	60	M22X2.0	
4245-25T2-08	24.5	25	32	100	122	56	M16X1.5	
4245-32T2-08	24.5	32	40	100	122	60	M22X2.0	
4250-25T2-08	25.0	25	32	100	122	56	M16X1.5	
4250-32T2-08	25.0	32	40	100	122	60	M22X2.0	
4254-25T2-08 *	25.4	25	32	100	122	56	M16X1.5	
4255-25T2-08	25.5	25	32	104	125	56	M16X1.5	
4255-32T2-08	25.5	32	40	104	125	60	M22X2.0	

Cutting Condition D192

• '*' Marked items are for inch sized hole
• OAL = LPR+LS

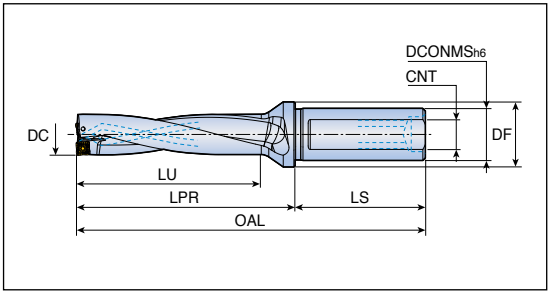
ADVANCE CUTTING TaeguTec

TOP 4...-T2

TOPDRILL

Indexable drill holders

• Drilling depth: 4xdiameter



Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TOP 4260-25T2-08	26.0	25	32	104	125	56	M16X1.5	SOMT 08...DP/DL/DK/DA
4260-32T2-08	26.0	32	40	104	125	60	M22X2.0	D152-153
4265-25T2-09	26.5	25	40	108	131	56	M16X1.5	SOMT 09...DP/DL/DK/DA
4265-32T2-09	26.5	32	40	108	131	60	M22X2.0	D152-153
4270-25T2-09	27.0	25	40	108	131	56	M16X1.5	
4270-32T2-09	27.0	32	40	108	131	60	M22X2.0	
4275-25T2-09	27.5	25	40	112	135	56	M16X1.5	
4275-32T2-09	27.5	32	40	112	135	60	M22X2.0	
4280-25T2-09	28.0	25	40	112	135	56	M16X1.5	
4280-32T2-09	28.0	32	40	112	135	60	M22X2.0	
4285-25T2-09	28.5	25	40	116	139	56	M16X1.5	
4285-32T2-09	28.5	32	40	116	139	60	M22X2.0	
4286-32T2-09 *	28.6	32	40	116	139	60	M22X2.0	
4290-25T2-09	29.0	25	40	116	139	56	M16X1.5	
4290-32T2-09	29.0	32	40	116	139	60	M22X2.0	
4295-32T2-09	29.5	32	40	120	143	60	M22X2.0	
4300-32T2-09	30.0	32	40	120	143	60	M22X2.0	
4305-32T2-09	30.5	32	40	124	147	60	M22X2.0	
4310-32T2-09	31.0	32	40	124	147	60	M22X2.0	
4318-32T2-11 *	31.8	32	40	128	151	60	M22X2.0	SOMT 11...DP/DL/DK/DA
4320-32T2-11	32.0	32	40	128	151	60	M22X2.0	D152-153
4320-40T2-11	32.0	40	50	128	151	70	M30X2.0	
4330-32T2-11	33.0	32	40	132	155	60	M22X2.0	
4330-40T2-11	33.0	40	50	132	155	70	M30X2.0	
4340-32T2-11	34.0	32	40	136	159	60	M22X2.0	
4340-40T2-11	34.0	40	50	136	159	70	M30X2.0	
4349-40T2-11 *	34.9	40	50	140	163	70	M30X2.0	
4350-32T2-11	35.0	32	40	140	163	60	M22X2.0	
4350-40T2-11	35.0	40	50	140	163	70	M30X2.0	
4360-32T2-11	36.0	32	40	144	167	60	M22X2.0	
4360-40T2-11	36.0	40	50	144	167	70	M30X2.0	
4370-32T2-13	37.0	32	50	148	176	60	M22X2.0	SOMT 13...DP/DL/DK/DA
4370-40T2-13	37.0	40	50	148	176	70	M30X2.0	D152-153
4371-40T2-13 *	37.1	40	50	148	176	70	M30X2.0	

Cutting Condition D192

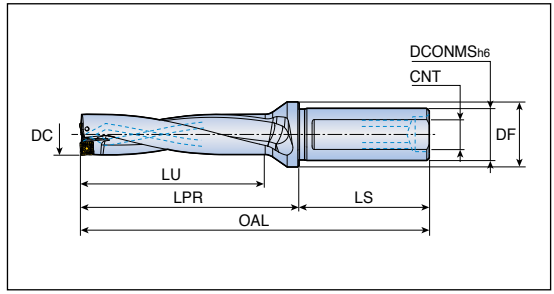
• '*' Marked items are for inch sized hole
• OAL = LPR+LS

TOP 4...-T2

TOP DRILL

Indexable drill holders

• Drilling depth: 4xdiameter



Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TOP 4380-32T2-13	38.0	32	50	152	180	60	M22X2.0	SOMT 13...DP/DL/DK/DA
4380-40T2-13	38.0	40	50	152	180	70	M30X2.0	D152-153
4381-40T2-13 *	38.1	40	50	152	180	70	M30X2.0	
4390-32T2-13	39.0	32	50	156	184	60	M22X2.0	
4390-40T2-13	39.0	40	50	156	184	70	M30X2.0	
4400-32T2-13	40.0	32	50	160	188	60	M22X2.0	
4400-40T2-13	40.0	40	50	160	188	70	M30X2.0	
4410-40T2-13	41.0	40	50	164	192	70	M30X2.0	
4413-40T2-13 *	41.3	40	50	164	192	70	M30X2.0	
4420-40T2-13	42.0	40	50	168	196	70	M30X2.0	
4429-40T2-13 *	42.9	40	50	172	200	70	M30X2.0	
4430-40T2-13	43.0	40	50	172	200	70	M30X2.0	
4440-40T2-15	44.0	40	60	176	211	70	M30X2.0	SOMT 15...DP/DL/DK/DA
4445-40T2-15 *	44.5	40	60	180	215	70	M30X2.0	D152-153
4450-40T2-15	45.0	40	60	180	215	70	M30X2.0	
4460-40T2-15	46.0	40	60	184	219	70	M30X2.0	
4470-40T2-15	47.0	40	60	188	223	70	M30X2.0	
4476-40T2-15 *	47.6	40	60	192	227	70	M30X2.0	
4480-40T2-15	48.0	40	60	192	227	70	M30X2.0	
4490-40T2-15	49.0	40	60	196	231	70	M30X2.0	
4500-40T2-15	50.0	40	60	200	235	70	M30X2.0	
4508-40T2-15 *	50.8	40	60	204	239	70	M30X2.0	

• '*' Marked items are for inch sized hole
• OAL = LPR+LS

Spare parts

Designation	Screw	Wrench	Plug*	
				
TOP 4120 - 4135	TS 18041I/HG	TD 6P	SL 20M	
TOP 4140 - 4160	TS 20043I/HG-P	TD 6P	SL 20M	
TOP 4165 - 4220	TS 22052I/HG-P	TD 7P	SL 25M	
TOP 4225 - 4260	SO 25065I	TD 7	SL 25M / SL 32M	
TOP 4265 - 4360	TS 35088I	TD 10	SL 25M / SL 32M / SL 40M	
TOP 4370 - 4430	TS 40093I	TD 15	SL 32M / SL 40M	
TOP 4440 - 4508	TS 50115I	TD 20	SL 40M	

Cutting Condition D192

• *Notice: Cooling hole plug for lathe should be ordered separately
Order example) Plug for shank diameter 25.0mm : SL 25M

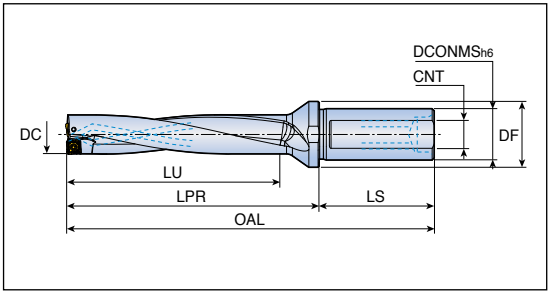
ADVANCE CUTTING TaeguTec

TOP 5...-T2

TOPDRILL

Indexable drill holders

• Drilling depth: 5xdiameter



Designation		Dimension (mm)							Insert
		DC	DCONMS	DF	LU	LPR	LS	CNT	
TOP	5120-20T2-04	12.0	20	25	60	80	50	M13X1.0	SOMT 04...DP
	5125-20T2-04	12.5	20	25	65	85	50	M13X1.0	D152
	5130-20T2-04	13.0	20	25	65	85	50	M13X1.0	
	5135-20T2-04	13.5	20	25	70	88	50	M13X1.0	
	5140-20T2-05	14.0	20	25	70	88	50	M13X1.0	SOMT 05...DP/DL/DK/DA
	5145-20T2-05	14.5	20	25	75	94	50	M13X1.0	D152-153
	5150-20T2-05	15.0	20	25	75	94	50	M13X1.0	
	5155-20T2-05	15.5	20	25	80	100	50	M13X1.0	
	5160-20T2-05	16.0	20	25	80	100	50	M13X1.0	
	5165-25T2-06	16.5	25	32	85	105	56	M16X1.5	SOMT 06...DP/DL/DK/DA
	5170-25T2-06	17.0	25	32	85	105	56	M16X1.5	D152-153
	5175-25T2-06	17.5	25	32	90	111	56	M16X1.5	
	5180-25T2-06	18.0	25	32	90	111	56	M16X1.5	
	5185-25T2-06	18.5	25	32	95	116	56	M16X1.5	
	5190-25T2-06	19.0	25	32	95	116	56	M16X1.5	
	5195-25T2-07	19.5	25	32	100	123	56	M16X1.5	SOMT 07...DP/DL/DK/DA
	5200-25T2-07	20.0	25	32	100	123	56	M16X1.5	D152-153
	5205-25T2-07	20.5	25	32	105	128	56	M16X1.5	
	5210-25T2-07	21.0	25	32	105	128	56	M16X1.5	
	5215-25T2-07	21.5	25	32	110	133	56	M16X1.5	
	5220-25T2-07	22.0	25	32	110	133	56	M16X1.5	
	5222-25T2-07 *	22.2	25	32	110	133	56	M16X1.5	
	5225-25T2-08	22.5	25	32	115	137	56	M16X1.5	SOMT 08...DP/DL/DK/DA
	5230-25T2-08	23.0	25	32	115	137	56	M16X1.5	D152-153
	5230-32T2-08	23.0	32	40	115	137	60	M22X2.0	
	5235-25T2-08	23.5	25	32	120	142	56	M16X1.5	
	5235-32T2-08	23.5	32	40	120	142	60	M22X2.0	
	5240-25T2-08	24.0	25	32	120	142	56	M16X1.5	
	5240-32T2-08	24.0	32	40	120	142	60	M22X2.0	
	5245-25T2-08	24.5	25	32	125	147	56	M16X1.5	
	5245-32T2-08	24.5	32	40	125	147	60	M22X2.0	
	5250-25T2-08	25.0	25	32	125	147	56	M16X1.5	
	5250-32T2-08	25.0	32	40	125	147	60	M22X2.0	
	5255-25T2-08	25.5	25	32	130	151	56	M16X1.5	
	5255-32T2-08	25.5	32	40	130	151	60	M22X2.0	

Cutting Condition D194

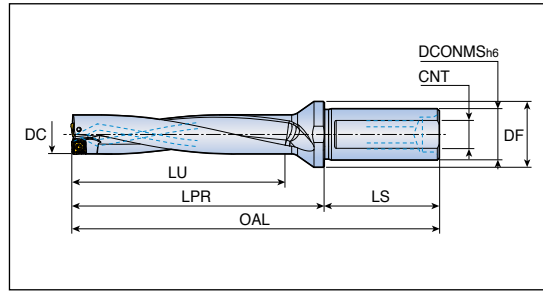
• '*' Marked items are for inch sized hole
• OAL = LPR+LS

TOP 5...-T2

TOPDRILL

Indexable drill holders

• Drilling depth: 5xdiameter



Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TOP 5260-25T2-08	26.0	25	32	130	151	56	M16X1.5	SOMT 08...DP/DL/DK/DA
5260-32T2-08	26.0	32	40	130	151	60	M22X2.0	D152-153
5265-32T2-09	26.5	32	40	135	158	60	M22X2.0	SOMT 09...DP/DL/DK/DA
5270-25T2-09	27.0	25	40	135	158	56	M16X1.5	D152-153
5270-32T2-09	27.0	32	40	135	158	60	M22X2.0	
5275-32T2-09	27.5	32	40	140	163	60	M22X2.0	
5280-25T2-09	28.0	25	40	140	163	56	M16X1.5	
5280-32T2-09	28.0	32	40	140	163	60	M22X2.0	
5282-32T2-09 *	28.2	32	40	140	163	60	M22X2.0	
5285-32T2-09	28.5	32	40	145	168	60	M22X2.0	
5290-25T2-09	29.0	25	40	145	168	56	M16X1.5	
5290-32T2-09	29.0	32	40	145	168	60	M22X2.0	
5295-32T2-09	29.5	32	40	150	173	60	M22X2.0	
5300-32T2-09	30.0	32	40	150	173	60	M22X2.0	
5305-32T2-09	30.5	32	40	155	178	60	M22X2.0	
5310-32T2-09	31.0	32	40	155	178	60	M22X2.0	
5320-32T2-11	32.0	32	40	160	183	60	M22X2.0	SOMT 11...DP/DL/DK/DA
5320-40T2-11	32.0	40	50	160	183	70	M30X2.0	D152-153
5330-32T2-11	33.0	32	40	165	188	60	M22X2.0	
5330-40T2-11	33.0	40	50	165	188	70	M30X2.0	
5340-32T2-11	34.0	32	40	170	193	60	M22X2.0	
5340-40T2-11	34.0	40	50	170	193	70	M30X2.0	
5350-32T2-11	35.0	32	40	175	198	60	M22X2.0	
5350-40T2-11	35.0	40	50	175	198	70	M30X2.0	
5360-32T2-11	36.0	32	40	180	203	60	M22X2.0	
5360-40T2-11	36.0	40	50	180	203	70	M30X2.0	
5370-32T2-13	37.0	32	50	185	213	60	M22X2.0	SOMT 13...DP/DL/DK/DA
5370-40T2-13	37.0	40	50	185	213	70	M30X2.0	D152-153
5380-32T2-13	38.0	32	50	190	218	60	M22X2.0	
5380-40T2-13	38.0	40	50	190	218	70	M30X2.0	
5390-32T2-13	39.0	32	50	195	223	60	M22X2.0	
5390-40T2-13	39.0	40	50	195	223	70	M30X2.0	
5400-32T2-13	40.0	32	50	200	228	60	M22X2.0	
5400-40T2-13	40.0	40	50	200	228	70	M30X2.0	

Cutting Condition D194

• '*' Marked items are for inch sized hole
• OAL = LPR+LS

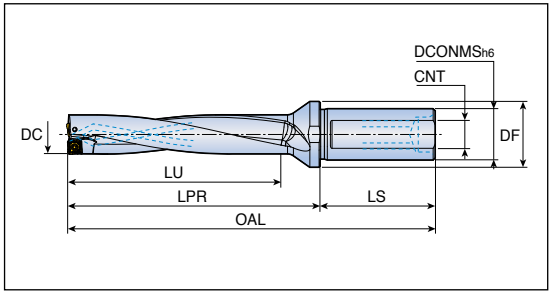
ADVANCE CUTTING TaeguTec

TOP 5...-T2

TOPDRILL

Indexable drill holders

• Drilling depth: 5xdiameter



Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TOP 5410-40T2-13	41.0	40	50	205	233	70	M30X2.0	SOMT 13...DP/DL/DK/DA D152-153
5420-40T2-13	42.0	40	50	210	238	70	M30X2.0	
5430-40T2-13	43.0	40	50	215	243	70	M30X2.0	
5440-40T2-15	44.0	40	60	220	255	70	M30X2.0	SOMT 15...DP/DL/DK/DA D152-153
5450-40T2-15	45.0	40	60	225	260	70	M30X2.0	
5460-40T2-15	46.0	40	60	230	265	70	M30X2.0	
5470-40T2-15	47.0	40	60	235	270	70	M30X2.0	
5480-40T2-15	48.0	40	60	240	275	70	M30X2.0	
5490-40T2-15	49.0	40	60	245	280	70	M30X2.0	
5500-40T2-15	50.0	40	60	250	285	70	M30X2.0	

• OAL = LPR+LS

Spare parts

Designation	Screw	Wrench	Plug*	
TOP 5120 - 5135	TS 18041I/HG	TD 6P	SL 20M	
TOP 5140 - 5160	TS 20043I/HG-P	TD 6P	SL 20M	
TOP 5165 - 5220	TS 22052I/HG-P	TD 7P	SL 25M	
TOP 5225 - 5260	SO 25065I	TD 7	SL 25M / SL 32M	
TOP 5265 - 5360	TS 35088I	TD 10	SL 25M / SL 32M / SL 40M	
TOP 5370 - 5430	TS 40093I	TD 15	SL 32M / SL 40M	
TOP 5440 - 5500	TS 50115I	TD 20	SL 40M	

Cutting Condition D194

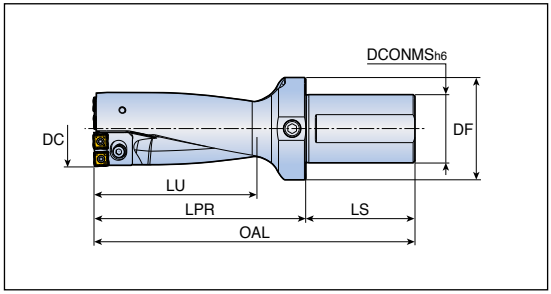
• *Notice: Cooling hole plug for lathe should be ordered separately
Order example) Plug for shank diameter 25.0mm : SL 25M

TOP 20…CA

TOPDRILL

Indexable drill holders for cartridge

• Drilling depth: 2xdiameter



Designation	Dimension (mm)							Setting Plate	Insert
	DC	DCONMS	DF	OAL	LU	LPR	LS		
TOP 2051-55-50T2-09CA	51	50	75	223	110	143	80	-	SOMT 09… DP/DL/DK/DA D152-153
	52	50	75	223	110	143	80	TOP-0901	
	53	50	75	223	110	143	80	TOP-0902	
	54	50	75	223	110	143	80	TOP-0903	
	55	50	75	223	110	143	80	TOP-0904	
TOP 2056-60-50T2-11CA	56	50	75	236	120	156	80	-	SOMT 11… DP/DL/DK/DA D152-153
	57	50	75	236	120	156	80	TOP-0901	
	58	50	75	236	120	156	80	TOP-0902	
	59	50	75	236	120	156	80	TOP-0903	
	60	50	75	236	120	156	80	TOP-0904	
TOP 2061-65-50T2-11CA	61	50	75	249	130	169	80	-	SOMT 11… DP/DL/DK/DA D152-153
	62	50	75	249	130	169	80	TOP-0901	
	63	50	75	249	130	169	80	TOP-0902	
	64	50	75	249	130	169	80	TOP-0903	
	65	50	75	249	130	169	80	TOP-0904	
TOP 2066-70-50T2-11CA	66	50	75	262	140	182	80	-	SOMT 11… DP/DL/DK/DA D152-153
	67	50	75	262	140	182	80	TOP-0901	
	68	50	75	262	140	182	80	TOP-0902	
	69	50	75	262	140	182	80	TOP-0903	
	70	50	75	262	140	182	80	TOP-0904	
TOP 2071-75-50T2-13CA	71	50	75	275	150	195	80	-	SOMT 13… DP/DL/DK/DA D152-153
	72	50	75	275	150	195	80	TOP-0901	
	73	50	75	275	150	195	80	TOP-0902	
	74	50	75	275	150	195	80	TOP-0903	
	75	50	75	275	150	195	80	TOP-0904	
TOP 2076-80-50T2-13CA	76	50	75	288	160	208	80	-	SOMT 13… DP/DL/DK/DA D152-153
	77	50	75	288	160	208	80	TOP-0901	
	78	50	75	288	160	208	80	TOP-0902	
	79	50	75	288	160	208	80	TOP-0903	
	80	50	75	288	160	208	80	TOP-0904	

Cutting Condition D196

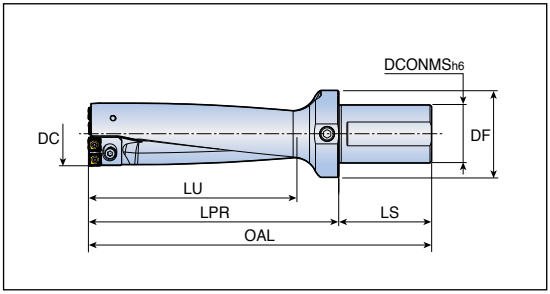
ADVANCE CUTTING TaeguTec

TOP 30…CA

TOPDRILL

Indexable drill holders for cartridge

• Drilling depth: 3xdiameter



Designation	Dimension (mm)							Setting Plate	Insert
	DC	DCONMS	DF	OAL	LU	LPR	LS		
TOP 3051-55-50T2-09CA	51	50	75	278	165	198	80	-	SOMT 09… DP/DL/DK/DA D152-153
	52	50	75	278	165	198	80	TOP-0901	
	53	50	75	278	165	198	80	TOP-0902	
	54	50	75	278	165	198	80	TOP-0903	
	55	50	75	278	165	198	80	TOP-0904	
TOP 3056-60-50T2-11CA	56	50	75	296	180	216	80	-	SOMT 11… DP/DL/DK/DA D152-153
	57	50	75	296	180	216	80	TOP-0901	
	58	50	75	296	180	216	80	TOP-0902	
	59	50	75	296	180	216	80	TOP-0903	
	60	50	75	296	180	216	80	TOP-0904	
TOP 3061-65-50T2-11CA	61	50	75	314	195	234	80	-	SOMT 11… DP/DL/DK/DA D152-153
	62	50	75	314	195	234	80	TOP-0901	
	63	50	75	314	195	234	80	TOP-0902	
	64	50	75	314	195	234	80	TOP-0903	
	65	50	75	314	195	234	80	TOP-0904	
TOP 3066-70-50T2-11CA	66	50	75	332	210	252	80	-	SOMT 11… DP/DL/DK/DA D152-153
	67	50	75	332	210	252	80	TOP-0901	
	68	50	75	332	210	252	80	TOP-0902	
	69	50	75	332	210	252	80	TOP-0903	
	70	50	75	332	210	252	80	TOP-0904	
TOP 3071-75-50T2-13CA	71	50	75	350	225	270	80	-	SOMT 13… DP/DL/DK/DA D152-153
	72	50	75	350	225	270	80	TOP-0901	
	73	50	75	350	225	270	80	TOP-0902	
	74	50	75	350	225	270	80	TOP-0903	
	75	50	75	350	225	270	80	TOP-0904	
TOP 3076-80-50T2-13CA	76	50	75	368	240	288	80	-	SOMT 13… DP/DL/DK/DA D152-153
	77	50	75	368	240	288	80	TOP-0901	
	78	50	75	368	240	288	80	TOP-0902	
	79	50	75	368	240	288	80	TOP-0903	
	80	50	75	368	240	288	80	TOP-0904	

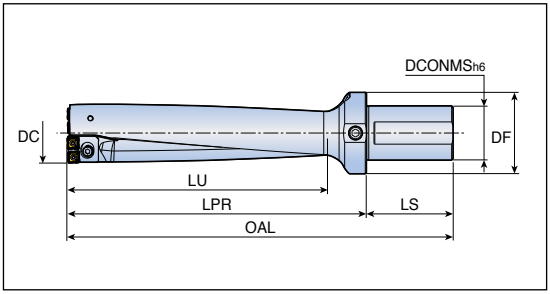
Cutting Condition D196

TOP 40…CA

TOPDRILL

Indexable drill holders for cartridge

• Drilling depth: 4xdiameter



Designation	Dimension (mm)							Setting Plate	Insert
	DC	DCONMS	DF	OAL	LU	LPR	LS		
TOP 4051-55-50T2-09CA	51	50	75	333	220	253	80	-	SOMT 09… DP/DL/DK/DA D152-153
	52	50	75	333	220	253	80	TOP-0901	
	53	50	75	333	220	253	80	TOP-0902	
	54	50	75	333	220	253	80	TOP-0903	
	55	50	75	333	220	253	80	TOP-0904	
TOP 4056-60-50T2-11CA	56	50	75	356	240	276	80	-	SOMT 11… DP/DL/DK/DA D152-153
	57	50	75	356	240	276	80	TOP-0901	
	58	50	75	356	240	276	80	TOP-0902	
	59	50	75	356	240	276	80	TOP-0903	
	60	50	75	356	240	276	80	TOP-0904	
TOP 4061-65-50T2-11CA	61	50	75	379	260	299	80	-	SOMT 11… DP/DL/DK/DA D152-153
	62	50	75	379	260	299	80	TOP-0901	
	63	50	75	379	260	299	80	TOP-0902	
	64	50	75	379	260	299	80	TOP-0903	
	65	50	75	379	260	299	80	TOP-0904	
TOP 4066-70-50T2-11CA	66	50	75	402	280	322	80	-	SOMT 11… DP/DL/DK/DA D152-153
	67	50	75	402	280	322	80	TOP-0901	
	68	50	75	402	280	322	80	TOP-0902	
	69	50	75	402	280	322	80	TOP-0903	
	70	50	75	402	280	322	80	TOP-0904	
TOP 4071-75-50T2-13CA	71	50	75	425	300	345	80	-	SOMT 13… DP/DL/DK/DA D152-153
	72	50	75	425	300	345	80	TOP-0901	
	73	50	75	425	300	345	80	TOP-0902	
	74	50	75	425	300	345	80	TOP-0903	
	75	50	75	425	300	345	80	TOP-0904	
TOP 4076-80-50T2-13CA	76	50	75	448	320	368	80	-	SOMT 13… DP/DL/DK/DA D152-153
	77	50	75	448	320	368	80	TOP-0901	
	78	50	75	448	320	368	80	TOP-0902	
	79	50	75	448	320	368	80	TOP-0903	
	80	50	75	448	320	368	80	TOP-0904	

Cutting Condition D196

ADVANCE CUTTING TaeguTec

TOP 40…CA

Indexable drill holders for cartridge

Spare parts

Designation	Screw	Cartridge for peripheral	Cartridge for center
			
TOP ..51-55-50T2-09CA	TS 35088I	TOP 09CA-P1	TOP 09CA-C1
TOP ..56-60-50T2-11CA	TS 35088I	TOP 11CA-P1	TOP 11CA-C1
TOP ..61-65-50T2-11CA	TS 35088I	TOP 11CA-P2	TOP 11CA-C2
TOP ..66-70-50T2-11CA	TS 35088I	TOP 11CA-P3	TOP 11CA-C3
TOP ..71-75-50T2-13CA	TS 40093I	TOP 13CA-P1	TOP 13CA-C1
TOP ..76-80-50T2-13CA	TS 40093I	TOP 13CA-P2	TOP 13CA-C2

Spare parts for cartridge

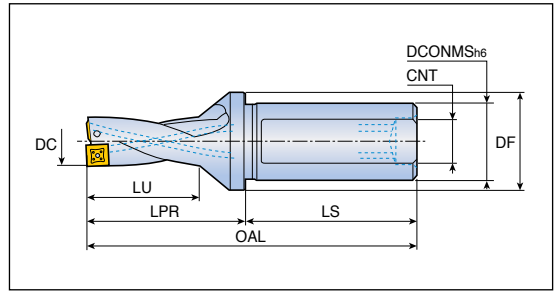
Designation	Cartridge clamping screw	Washer	Setting plate screw
TOP 09CA-P1	SH M4x0.7x16	MW 4.3x8	TS 20043I/HG-P
TOP 09CA-C1	SH M4x0.7x16	MW 4.3x8	-
TOP 11CA-P1	SH M5x0.8x16	MW 5.5x10	TS 20043I/HG-P
TOP 11CA-C1	SH M5x0.8x16	MW 5.5x10	-
TOP 11CA-P2	SH M5x0.8x16	MW 5.5x10	TS 20043I/HG-P
TOP 11CA-C2	SH M5x0.8x16	MW 5.5x10	-
TOP 11CA-P3	SH M5x0.8x16	MW 5.5x10	TS 20043I/HG-P
TOP 11CA-C3	SH M5x0.8x16	MW 5.5x10	-
TOP 13CA-P1	SH M6x1.0x20	MW 6.4x12	TS 20043I/HG-P
TOP 13CA-C1	SH M6x1.0x20	MW 6.4x12	-
TOP 13CA-P2	SH M6x1.0x20	MW 6.4x12	TS 20043I/HG-P
TOP 13CA-C2	SH M6x1.0x20	MW 6.4x12	-

TDR 2...-T2

TDRILL

Indexable drill holders

• Drilling depth: 2xdiameter



Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TDR 2125-20T2-05	12.5	20	25	26	44	50	M13X1.0	SPMG 05...
2130-20T2-05	13.0	20	25	26	44	50	M13X1.0	DG/DK
2135-20T2-05	13.5	20	25	28	46	50	M13X1.0	SPGG 05..DA
2140-20T2-05	14.0	20	25	28	46	50	M13X1.0	D154-155
2145-20T2-05	14.5	20	25	30	49	50	M13X1.0	
2150-20T2-05	15.0	20	25	30	49	50	M13X1.0	
2155-25T2-06	15.5	25	32	32	52	56	M16X1.5	SPMG 06...
2160-25T2-06	16.0	25	32	32	52	56	M16X1.5	DG/DK
2165-25T2-06	16.5	25	32	34	54	56	M16X1.5	SPGG 06..DA
2170-25T2-06	17.0	25	32	34	54	56	M16X1.5	D154-155
2175-25T2-06	17.5	25	32	36	57	56	M16X1.5	
2180-25T2-06	18.0	25	32	36	57	56	M16X1.5	
2185-25T2-06	18.5	25	32	38	59	56	M16X1.5	
2190-25T2-06	19.0	25	32	38	59	56	M16X1.5	
2195-25T2-06	19.5	25	32	40	63	56	M16X1.5	
2200-25T2-06	20.0	25	32	40	63	56	M16X1.5	
2205-25T2-06	20.5	25	32	42	65	56	M16X1.5	
2210-25T2-06	21.0	25	32	42	65	56	M16X1.5	
2215-25T2-06	21.5	25	32	44	67	56	M16X1.5	
2220-25T2-07	22.0	25	32	44	67	56	M16X1.5	SPMG 07...
2225-25T2-07	22.5	25	32	46	71	56	M16X1.5	DG/DK
2225-32T2-07	22.5	32	40	46	71	60	M22X2.0	SPGG 07..DA
2230-25T2-07	23.0	25	32	46	71	56	M16X1.5	D154-155
2230-32T2-07	23.0	32	40	46	71	60	M22X2.0	
2235-25T2-07	23.5	25	32	48	74	56	M16X1.5	
2235-32T2-07	23.5	32	40	48	74	60	M22X2.0	
2240-25T2-07	24.0	25	32	48	74	56	M16X1.5	
2240-32T2-07	24.0	32	40	48	74	60	M22X2.0	
2245-25T2-07	24.5	25	32	50	77	56	M16X1.5	
2245-32T2-07	24.5	32	40	50	77	60	M22X2.0	
2250-25T2-07	25.0	25	32	50	77	56	M16X1.5	
2250-32T2-07	25.0	32	40	50	77	60	M22X2.0	
2255-25T2-07	25.5	25	32	52	79	56	M16X1.5	
2255-32T2-07	25.5	32	40	52	79	60	M22X2.0	
2260-25T2-07	26.0	25	32	52	79	56	M16X1.5	

Cutting Condition D198

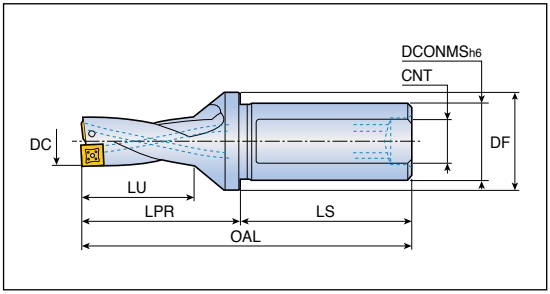
• OAL = LPR+LS

ADVANCE CUTTING TaeguTec

TDR 2...-T2

Indexable drill holders

• Drilling depth: 2xdiameter



Designation		Dimension (mm)							Insert
		DC	DCONMS	DF	LU	LPR	LS	CNT	
TDR	2260-32T2-07	26.0	32	40	52	79	60	M22X2.0	SPMG 07...
	2265-25T2-07	26.5	25	32	54	81	56	M16X1.5	DG/DK
	2265-32T2-07	26.5	32	40	54	81	60	M22X2.0	SPGG 07..DA
	2270-25T2-07	27.0	25	32	54	81	56	M16X1.5	D154-155
	2270-32T2-07	27.0	32	40	54	81	60	M22X2.0	
	2275-25T2-07	27.5	25	32	56	84	56	Rc 1/8	
	2275-32T2-07	27.5	32	40	56	84	60	Rc 1/4	
	2280-25T2-09	28.0	25	40	56	84	56	Rc 1/8	SPMG 09...
	2280-32T2-09	28.0	32	40	56	84	60	Rc 1/4	DG/DK
	2285-25T2-09	28.5	25	40	58	86	56	Rc 1/8	SPGG 09..DA
	2285-32T2-09	28.5	32	40	58	86	60	Rc 1/4	D154-155
	2290-25T2-09	29.0	25	40	58	86	56	Rc 1/8	
	2290-32T2-09	29.0	32	40	58	86	60	Rc 1/4	
	2295-32T2-09	29.5	32	40	60	91	60	Rc 1/4	
	2295-40T2-09	29.5	40	50	60	91	70	Rc 1/4	
	2300-32T2-09	30.0	32	40	60	91	60	Rc 1/4	
	2300-40T2-09	30.0	40	50	60	91	70	Rc 1/4	
	2305-32T2-09	30.5	32	40	62	94	60	Rc 1/4	
	2305-40T2-09	30.5	40	50	62	94	70	Rc 1/4	
	2310-32T2-09	31.0	32	40	62	94	60	Rc 1/4	
	2310-40T2-09	31.0	40	50	62	94	70	Rc 1/4	
	2315-32T2-09	31.5	32	40	64	96	60	Rc 1/4	
	2315-40T2-09	31.5	40	50	64	96	70	Rc 1/4	
	2320-32T2-09	32.0	32	40	64	96	60	Rc 1/4	
	2320-40T2-09	32.0	40	50	64	96	70	Rc 1/4	
	2325-32T2-09	32.5	32	40	66	99	60	Rc 1/4	
	2325-40T2-09	32.5	40	50	66	99	70	Rc 1/4	
	2330-32T2-09	33.0	32	40	66	99	60	Rc 1/4	
	2330-40T2-09	33.0	40	50	66	99	70	Rc 1/4	
	2340-32T2-11	34.0	32	50	68	101	60	Rc 1/4	SPMG 11...
	2340-40T2-11	34.0	40	55	68	101	70	Rc 1/4	DG/DK
	2350-32T2-11	35.0	32	50	70	104	60	Rc 1/4	SPGG 11..DA
	2350-40T2-11	35.0	40	55	70	104	70	Rc 1/4	D154-155
	2360-32T2-11	36.0	32	50	72	107	60	Rc 1/4	
	2360-40T2-11	36.0	40	55	72	107	70	Rc 1/4	

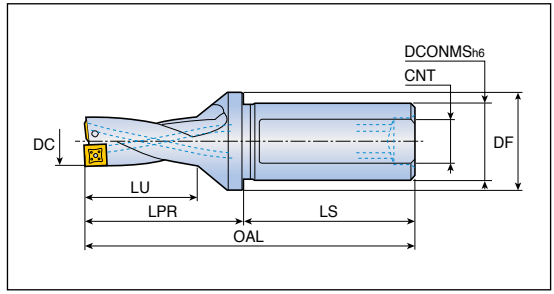
Cutting Condition D198

• OAL = LPR+LS

TDR 2...-T2

Indexable drill holders

• Drilling depth: 2xdiameter



Designation		Dimension (mm)							Insert
		DC	DCONMS	DF	LU	LPR	LS	CNT	
TDR	**2370-32T2-11**	37.0	32	50	74	110	60	Rc 1/4	SPMG 11...
	2370-40T2-11	37.0	40	55	74	110	70	Rc 1/4	DG/DK
	2380-32T2-11	38.0	32	50	76	113	60	Rc 1/4	SPGG 11..DA
	2380-40T2-11	38.0	40	55	76	113	70	Rc 1/4	D154-155
	2390-32T2-11	39.0	32	50	78	115	60	Rc 1/4	
	2390-40T2-11	39.0	40	55	78	115	70	Rc 1/4	
	2400-32T2-11	40.0	32	50	80	118	60	Rc 1/4	
	2400-40T2-11	40.0	40	55	80	118	70	Rc 1/4	
	2410-40T2-11	41.0	40	55	82	121	70	Rc 1/4	
	2420-40T2-14	42.0	40	60	84	123	70	Rc 1/4	SPMG 14...
	2430-40T2-14	43.0	40	60	86	126	70	Rc 1/4	DG/DK
	2440-40T2-14	44.0	40	60	88	128	70	Rc 1/4	SPGG 14..DA
	2450-40T2-14	45.0	40	60	90	132	70	Rc 1/4	D154-155
	2460-40T2-14	46.0	40	60	92	135	70	Rc 1/4	
	2470-40T2-14	47.0	40	60	94	137	70	Rc 1/4	
	2480-40T2-14	48.0	40	60	96	140	70	Rc 1/4	
	2490-40T2-14	49.0	40	60	98	142	70	Rc 1/4	
	2500-40T2-14	50.0	40	60	100	145	70	Rc 1/4	

• OAL = LPR+LS

Spare parts

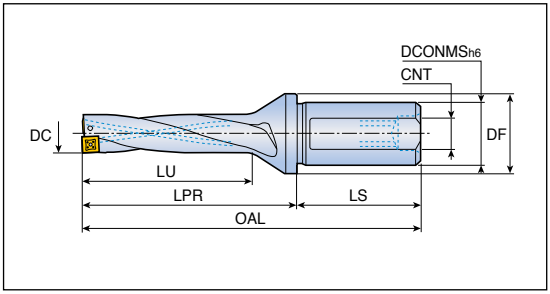
Designation	Screw	Wrench	Plug	
				
TDR 2125 - 2150	TS 20043I/HG-P	TD 6P	SL 20 M	
TDR 2155 - 2215	TS 22052I/HG	TD 7	SL 25 M	
TDR 2220 - 2270	TS 25064I	TD 8	SL 25 M / SL 32 M	
TDR 2275	TS 25064I	TD 8	-	
TDR 2280 - 2330	TS 35088I	TD 10	-	
TDR 2340 - 2390	TS 40093I	TD 15	-	
TDR 2400 - 2410	TS 40093I	TD 15	-	
TDR 2420 - 2500	SO 50090I	TD 20	-	

Cutting Condition D198

TDR 3...-T2

Indexable drill holders

• Drilling depth: 3xdiameter



Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TDR 3125-20T2-05	12.5	20	25	39	57	50	M13X1.0	SPMG 05...
3130-20T2-05	13.0	20	25	39	57	50	M13X1.0	DG/DK
3135-20T2-05	13.5	20	25	42	60	50	M13X1.0	SPGG 05..DA
3140-20T2-05	14.0	20	25	42	60	50	M13X1.0	D154-155
3145-20T2-05	14.5	20	25	45	64	50	M13X1.0	
3150-20T2-05	15.0	20	25	45	64	50	M13X1.0	
3155-25T2-06	15.5	25	32	48	68	56	M16X1.5	SPMG 06...
3160-25T2-06	16.0	25	32	48	68	56	M16X1.5	DG/DK
3165-25T2-06	16.5	25	32	51	71	56	M16X1.5	SPGG 06..DA
3170-25T2-06	17.0	25	32	51	71	56	M16X1.5	D154-155
3175-25T2-06	17.5	25	32	54	75	56	M16X1.5	
3180-25T2-06	18.0	25	32	54	75	56	M16X1.5	
3185-25T2-06	18.5	25	32	57	78	56	M16X1.5	
3190-25T2-06	19.0	25	32	57	78	56	M16X1.5	
3195-25T2-06	19.5	25	32	60	83	56	M16X1.5	
3200-25T2-06 *	20.0	25	32	60	83	56	M16X1.5	
3205-25T2-06	20.5	25	32	63	86	56	M16X1.5	
3209-25T2-06 *	20.9	25	32	63	86	56	M16X1.5	
3210-25T2-06	21.0	25	32	63	86	56	M16X1.5	
3215-25T2-06	21.5	25	32	66	89	56	M16X1.5	
3220-25T2-07	22.0	25	32	66	89	56	M16X1.5	SPMG 07...
3225-25T2-07	22.5	25	32	69	94	56	M16X1.5	DG/DK
3225-32T2-07	22.5	32	40	69	94	60	M22X2.0	SPGG 07..DA
3230-25T2-07	23.0	25	32	69	94	56	M16X1.5	D154-155
3230-32T2-07	23.0	32	40	69	94	60	M22X2.0	
3235-25T2-07	23.5	25	32	72	98	56	M16X1.5	
3235-32T2-07	23.5	32	40	72	98	60	M22X2.0	
3239-25T2-07 *	23.9	25	32	72	98	56	M16X1.5	
3239-32T2-07 *	23.9	32	45	72	98	60	M22X2.0	
3240-25T2-07	24.0	25	32	72	98	56	M16X1.5	
3240-32T2-07	24.0	32	40	72	98	60	M22X2.0	
3245-25T2-07	24.5	25	32	75	102	56	M16X1.5	
3245-32T2-07	24.5	32	40	75	102	60	M22X2.0	
3250-25T2-07	25.0	25	32	75	102	56	M16X1.5	
3250-32T2-07	25.0	32	40	75	102	60	M22X2.0	

Cutting Condition D198

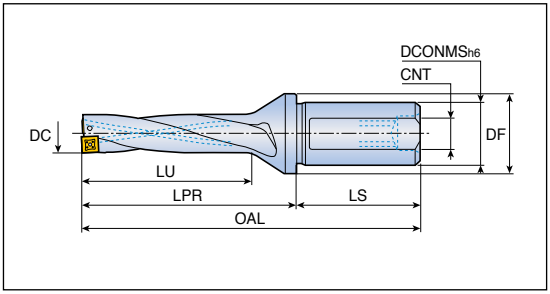
• '*' Marked items are for pre-thread hole making
• OAL = LPR+LS

TDR 3...-T2

TDRILL

Indexable drill holders

• Drilling depth: 3xdiameter



Designation		Dimension (mm)							Insert
		DC	DCONMS	DF	LU	LPR	LS	CNT	
TDR	**3255-25T2-07**	25.5	25	32	78	105	56	M16X1.5	SPMG 07...
	3255-32T2-07	25.5	32	40	78	105	60	M22X2.0	DG/DK
	3260-25T2-07	26.0	25	32	78	105	56	M16X1.5	SPGG 07..DA
	3260-32T2-07	26.0	32	40	78	105	60	M22X2.0	D154-155
	3264-25T2-07 *	26.4	25	45	81	108	56	M16X1.5	
	3264-32T2-07 *	26.4	32	45	81	108	60	M22X2.0	
	3265-25T2-07	26.5	25	32	81	108	56	M16X1.5	
	3265-32T2-07	26.5	32	40	81	108	60	M22X2.0	
	3270-25T2-07	27.0	25	32	81	108	56	M16X1.5	
	3270-32T2-07	27.0	32	40	81	108	60	M22X2.0	
	3275-25T2-07	27.5	25	32	84	112	56	Rc 1/8	
	3275-32T2-07	27.5	32	40	84	112	60	Rc 1/4	
	3280-25T2-09	28.0	25	40	84	112	56	Rc 1/8	SPMG 09...
	3280-32T2-09	28.0	32	40	84	112	60	Rc 1/4	DG/DK
	3285-25T2-09	28.5	25	40	87	115	56	Rc 1/8	SPGG 09..DA
	3285-32T2-09	28.5	32	40	87	115	56	Rc 1/4	D154-155
	3290-25T2-09	29.0	25	40	87	115	56	Rc 1/8	
	3290-32T2-09	29.0	32	40	87	115	60	Rc 1/4	
	3294-32T2-09 *	29.4	32	55	90	121	60	Rc 1/4	
	3294-40T2-09 *	29.4	40	55	90	121	70	Rc 1/4	
	3295-32T2-09	29.5	32	40	90	121	60	Rc 1/4	
	3295-40T2-09	29.5	40	50	90	121	70	Rc 1/4	
	3300-32T2-09	30.0	32	40	90	121	60	Rc 1/4	
	3300-40T2-09	30.0	40	50	90	121	70	Rc 1/4	
	3305-32T2-09	30.5	32	40	93	125	60	Rc 1/4	
	3305-40T2-09	30.5	40	50	93	125	70	Rc 1/4	
	3310-32T2-09	31.0	32	40	93	125	60	Rc 1/4	
	3310-40T2-09	31.0	40	50	93	125	70	Rc 1/4	
	3315-32T2-09	31.5	32	40	96	128	60	Rc 1/4	
	3315-40T2-09	31.5	40	50	96	128	70	Rc 1/4	
	3320-32T2-09	32.0	32	40	96	128	60	Rc 1/4	
	3320-40T2-09	32.0	40	50	96	128	70	Rc 1/4	

Cutting Condition D198

• '*' Marked items are for pre-thread hole making
• OAL = LPR+LS

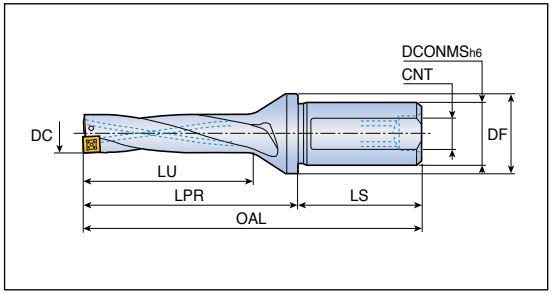
ADVANCE CUTTING TaeguTec

TDR 3...-T2

TDRILL

Indexable drill holders

• Drilling depth: 3xdiameter



Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TDR 3325-32T2-09	32.5	32	40	99	132	60	Rc 1/4	SPMG 09... DG/DK SPGG 09..DA D154-155
3325-40T2-09	32.5	40	50	99	132	70	Rc 1/4	
3330-32T2-09	33.0	32	40	99	132	60	Rc 1/4	
3330-40T2-09	33.0	40	50	99	132	70	Rc 1/4	
3340-32T2-11	34.0	32	50	102	135	60	Rc 1/4	SPMG 11... DG/DK SPGG 09..DA D154-155
3340-40T2-11	34.0	40	55	102	135	70	Rc 1/4	
3350-32T2-11	35.0	32	50	105	139	60	Rc 1/4	
3350-40T2-11	35.0	40	55	105	139	70	Rc 1/4	
3360-32T2-11	36.0	32	50	108	143	60	Rc 1/4	
3360-40T2-11	36.0	40	55	108	143	70	Rc 1/4	
3370-32T2-11	37.0	32	50	111	147	60	Rc 1/4	
3370-40T2-11	37.0	40	55	111	147	70	Rc 1/4	
3375-32T2-11 *	37.5	32	55	114	151	60	Rc 1/4	
3375-40T2-11 *	37.5	40	55	114	151	70	Rc 1/4	
3380-32T2-11	38.0	32	50	114	151	60	Rc 1/4	
3380-40T2-11	38.0	40	55	114	151	70	Rc 1/4	
3390-32T2-11	39.0	32	50	117	154	60	Rc 1/4	
3390-40T2-11	39.0	40	55	117	154	70	Rc 1/4	
3400-32T2-11	40.0	32	50	120	158	60	Rc 1/4	
3400-40T2-11	40.0	40	55	120	158	70	Rc 1/4	
3405-40T2-11 *	40.5	40	60	123	162	70	Rc 1/4	
3410-40T2-11	41.0	40	55	123	162	70	Rc 1/4	

Cutting Condition D198

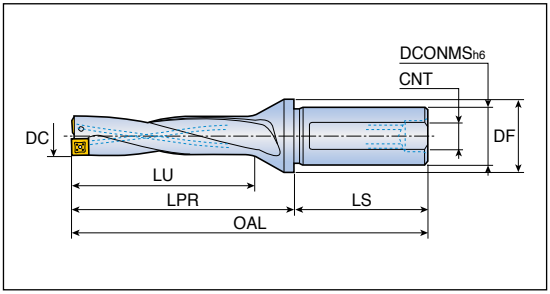
• '*' Marked items are for pre-thread hole making
• OAL = LPR+LS

TaeguTec

TDR 3...-T2

Indexable drill holders

• Drilling depth: 3xdiameter



Designation		Dimension (mm)							Insert
		DC	DCONMS	DF	LU	LPR	LS	CNT	
TDR	**3420-40T2-14**	42.0	40	60	126	165	70	Rc 1/4	SPMG 14...
	3430-40T2-14	43.0	40	60	129	169	70	Rc 1/4	DG/DK
	3440-40T2-14	44.0	40	60	132	172	70	Rc 1/4	SPGG 14..DA
	3450-40T2-14	45.0	40	60	135	177	70	Rc 1/4	D154-155
	3460-40T2-14	46.0	40	60	138	181	70	Rc 1/4	
	3470-40T2-14	47.0	40	60	141	184	70	Rc 1/4	
	3480-40T2-14	48.0	40	60	144	188	70	Rc 1/4	
	3490-40T2-14	49.0	40	60	147	191	70	Rc 1/4	
	3500-40T2-14	50.0	40	60	150	195	70	Rc 1/4	

• OAL = LPR+LS

Spare parts

Designation	Screw	Wrench	Plug	
TDR 3125 - 3150	TS 20043I/HG-P	TD 6P	SL 20 M	
TDR 3155 - 3215	TS 22052I/HG	TD 7	SL 25 M	
TDR 3220 - 3270	TS 25064I	TD 8	SL 25 M / SL 32 M	
TDR 3275	TS 25064I	TD 8	-	
TDR 3280 - 3330	TS 35088I	TD 10	-	
TDR 3340 - 3390	TS 40093I	TD 15	-	
TDR 3400 - 3410	TS 40093I	TD 15	-	
TDR 3420 - 3500	SO 50090I	TD 20	-	

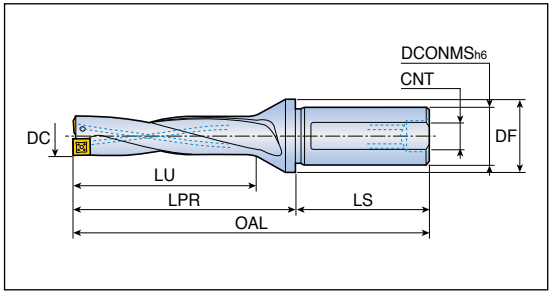
Cutting Condition
D198

TDR 4...-T2

TDRILL

Indexable drill holders

• Drilling depth: 4xdiameter



Designation		Dimension (mm)							Insert
		DC	DCONMS	DF	LU	LPR	LS	CNT	
TDR	4125-20T2-05	12.5	20	25	52	70	50	M13X1.0	SPMG 05... DG/DK SPGG 05..DA D154-155
	4130-20T2-05	13.0	20	25	52	70	50	M13X1.0	
	4135-20T2-05	13.5	20	25	56	74	50	M13X1.0	
	4140-20T2-05	14.0	20	25	56	74	50	M13X1.0	
	4145-20T2-05	14.5	20	25	60	79	50	M13X1.0	
	4150-20T2-05	15.0	20	25	60	79	50	M13X1.0	
	4155-25T2-06	15.5	25	32	64	84	56	M16X1.5	SPMG 06... DG/DK SPGG 06..DA D154-155
	4160-25T2-06	16.0	25	32	64	84	56	M16X1.5	
	4165-25T2-06	16.5	25	32	68	88	56	M16X1.5	
	4170-25T2-06	17.0	25	32	68	88	56	M16X1.5	
	4175-25T2-06	17.5	25	32	72	93	56	M16X1.5	
	4180-25T2-06	18.0	25	32	72	93	56	M16X1.5	
	4185-25T2-06	18.5	25	32	76	97	56	M16X1.5	
	4190-25T2-06	19.0	25	32	76	97	56	M16X1.5	
	4195-25T2-06	19.5	25	32	80	103	56	M16X1.5	
	4200-25T2-06	20.0	25	32	80	103	56	M16X1.5	
	4205-25T2-06	20.5	25	32	84	107	56	M16X1.5	
	4210-25T2-06	21.0	25	32	84	107	56	M16X1.5	
	4215-25T2-06	21.5	25	32	88	111	56	M16X1.5	
	4220-25T2-07	22.0	25	32	88	111	56	M16X1.5	SPMG 07... DG/DK SPGG 07..DA D154-155
	4225-25T2-07	22.5	25	32	92	117	56	M16X1.5	
	4225-32T2-07	22.5	32	40	92	117	60	M22X2.0	
	4230-25T2-07	23.0	25	32	92	117	56	M16X1.5	
	4230-32T2-07	23.0	32	40	92	117	60	M22X2.0	
	4235-25T2-07	23.5	25	32	96	122	56	M16X1.5	
	4235-32T2-07	23.5	32	40	96	122	60	M22X2.0	
	4240-25T2-07	24.0	25	32	96	122	56	M16X1.5	
	4240-32T2-07	24.0	32	40	96	122	60	M22X2.0	
	4245-25T2-07	24.5	25	32	100	127	56	M16X1.5	
	4245-32T2-07	24.5	32	40	100	127	60	M22X2.0	
	4250-25T2-07	25.0	25	32	100	127	56	M16X1.5	
	4250-32T2-07	25.0	32	40	100	127	60	M22X2.0	
	4255-25T2-07	25.5	25	32	104	131	56	M16X1.5	
	4255-32T2-07	25.5	32	40	104	131	60	M22X2.0	
	4260-25T2-07	26.0	25	32	104	131	56	M16X1.5	

Cutting Condition D198

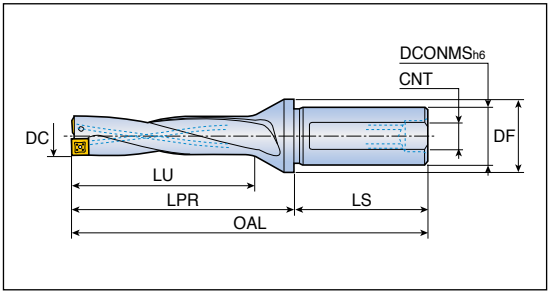
• OAL = LPR+LS

TDR 4...-T2

TDRILL

Indexable drill holders

• Drilling depth: 4xdiameter



Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TDR 4260-32T2-07	26.0	32	40	104	131	60	M22X2.0	SPMG 07...
4265-25T2-07	26.5	25	32	108	135	56	M16X1.5	DG/DK
4265-32T2-07	26.5	32	40	108	135	60	M22X2.0	SPGG 07..DA
4270-25T2-07	27.0	25	32	108	135	56	M16X1.5	D154-155
4270-32T2-07	27.0	32	40	108	135	60	M22X2.0	
4275-25T2-07	27.5	25	32	112	140	56	Rc 1/8	
4275-32T2-07	27.5	32	40	112	140	60	Rc 1/4	
4280-25T2-09	28.0	25	40	112	140	56	Rc 1/8	SPMG 09...
4280-32T2-09	28.0	32	40	112	140	60	Rc 1/4	DG/DK
4285-25T2-09	28.5	25	40	116	144	56	Rc 1/8	SPGG 09..DA
4285-32T2-09	28.5	32	40	116	144	60	Rc 1/4	D154-155
4290-25T2-09	29.0	25	40	116	144	56	Rc 1/8	
4290-32T2-09	29.0	32	40	116	144	60	Rc 1/4	
4295-32T2-09	29.5	32	40	120	151	60	Rc 1/4	
4295-40T2-09	29.5	40	50	120	151	70	Rc 1/4	
4300-32T2-09	30.0	32	40	120	151	60	Rc 1/4	
4300-40T2-09	30.0	40	50	120	151	70	Rc 1/4	
4305-32T2-09	30.5	32	40	124	156	60	Rc 1/4	
4305-40T2-09	30.5	40	50	124	156	70	Rc 1/4	
4310-32T2-09	31.0	32	40	124	156	60	Rc 1/4	
4310-40T2-09	31.0	40	50	124	156	70	Rc 1/4	
4315-32T2-09	31.5	32	40	128	160	60	Rc 1/4	
4315-40T2-09	31.5	40	50	128	160	70	Rc 1/4	
4320-32T2-09	32.0	32	40	128	160	60	Rc 1/4	
4320-40T2-09	32.0	40	50	128	160	70	Rc 1/4	
4325-32T2-09	32.5	32	40	132	165	60	Rc 1/4	
4325-40T2-09	32.5	40	50	132	165	70	Rc 1/4	
4330-32T2-09	33.0	32	40	132	165	60	Rc 1/4	
4330-40T2-09	33.0	40	50	132	165	70	Rc 1/4	
4340-32T2-11	34.0	32	50	136	169	60	Rc 1/4	SPMG 11...
4340-40T2-11	34.0	40	55	136	169	70	Rc 1/4	DG/DK
4350-32T2-11	35.0	32	50	140	174	60	Rc 1/4	SPGG 11..DA
4350-40T2-11	35.0	40	55	140	174	70	Rc 1/4	D154-155
4360-32T2-11	36.0	32	50	144	179	60	Rc 1/4	
4360-40T2-11	36.0	40	55	144	179	70	Rc 1/4	

Cutting Condition D198

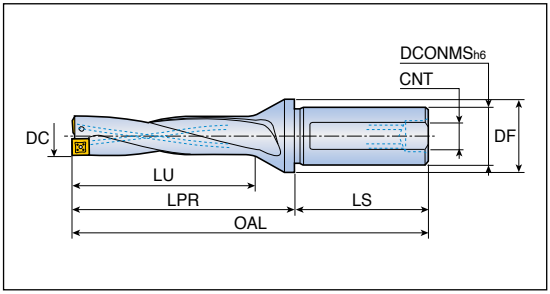
• OAL = LPR+LS

ADVANCE CUTTING TaeguTec

TDR 4...-T2

TDRILL

Indexable drill holders



• Drilling depth: 4xdiameter

Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TDR 4370-32T2-11	37.0	32	50	148	184	60	Rc 1/4	SPMG 11...
4370-40T2-11	37.0	40	55	148	184	70	Rc 1/4	DG/DK
4380-32T2-11	38.0	32	50	152	189	60	Rc 1/4	SPGG 11..DA
4380-40T2-11	38.0	40	55	152	189	70	Rc 1/4	D154-155
4390-32T2-11	39.0	32	50	156	193	60	Rc 1/4	
4390-40T2-11	39.0	40	55	156	193	70	Rc 1/4	
4400-32T2-11	40.0	32	50	160	198	60	Rc 1/4	
4400-40T2-11	40.0	40	55	160	198	70	Rc 1/4	
4410-40T2-11	41.0	40	55	164	203	70	Rc 1/4	
4420-40T2-14	42.0	40	60	168	207	70	Rc 1/4	SPMG 14...
4430-40T2-14	43.0	40	60	172	212	70	Rc 1/4	DG/DK
4440-40T2-14	44.0	40	60	176	216	70	Rc 1/4	SPGG 14..DA
4450-40T2-14	45.0	40	60	180	222	70	Rc 1/4	D154-155
4460-40T2-14	46.0	40	60	184	227	70	Rc 1/4	
4470-40T2-14	47.0	40	60	188	231	70	Rc 1/4	
4480-40T2-14	48.0	40	60	192	236	70	Rc 1/4	
4490-40T2-14	49.0	40	60	196	240	70	Rc 1/4	
4500-40T2-14	50.0	40	60	200	245	70	Rc 1/4	

• OAL = LPR+LS

Spare parts

Designation	Screw	Wrench	Plug	
TDR 4125 - 4150	TS 20043I/HG-P	TD 6P	SL 20 M	
TDR 4155 - 4215	TS 22052I/HG	TD 7	SL 25 M	
TDR 4220 - 4270	TS 25064I	TD 8	SL 25 M / SL 32 M	
TDR 4275	TS 25064I	TD 8	-	
TDR 4280 - 4330	TS 35088I	TD 10	-	
TDR 4340 - 4390	TS 40093I	TD 15	-	
TDR 4400 - 4410	TS 40093I	TD 15	-	
TDR 4420 - 4500	SO 50090I	TD 20	-	

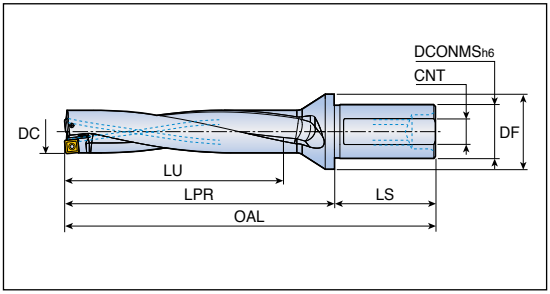
Cutting Condition D198

TDR 5...-T2

TDRILL

Indexable drill holders

• Drilling depth: 5xdiameter



Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TDR 5125-20T2-05	12.5	20	25	65	83	50	M13X1.0	SPMG 05...
5130-20T2-05	13.0	20	25	65	83	50	M13X1.0	DG/DK
5135-20T2-05	13.5	20	25	70	88	50	M13X1.0	SPGG 05..DA
5140-20T2-05	14.0	20	25	70	88	50	M13X1.0	D154-155
5145-20T2-05	14.5	20	25	75	94	50	M13X1.0	
5150-20T2-05	15.0	20	25	75	94	50	M13X1.0	
5155-25T2-06	15.5	25	32	80	100	56	M16X1.5	SPMG 06...
5160-25T2-06	16.0	25	32	80	100	56	M16X1.5	DG/DK
5165-25T2-06	16.5	25	32	85	105	56	M16X1.5	SPGG 06..DA
5170-25T2-06	17.0	25	32	85	105	56	M16X1.5	D154-155
5175-25T2-06	17.5	25	32	90	111	56	M16X1.5	
5180-25T2-06	18.0	25	32	90	111	56	M16X1.5	
5185-25T2-06	18.5	25	32	95	116	56	M16X1.5	
5190-25T2-06	19.0	25	32	95	116	56	M16X1.5	
5195-25T2-06	19.5	25	32	100	123	56	M16X1.5	
5200-25T2-06	20.0	25	32	100	123	56	M16X1.5	
5205-25T2-06	20.5	25	32	105	128	56	M16X1.5	
5210-25T2-06	21.0	25	32	105	128	56	M16X1.5	
5215-25T2-06	21.5	25	32	110	133	56	M16X1.5	
5220-25T2-07	22.0	25	32	110	133	56	M22X2.0	SPMG 07...
5225-32T2-07	22.5	32	40	115	140	60	M22X2.0	DG/DK
5230-32T2-07	23.0	32	40	115	140	60	M22X2.0	SPGG 07..DA
5235-32T2-07	23.5	32	40	120	146	60	M22X2.0	D154-155
5240-32T2-07	24.0	32	40	120	146	60	M22X2.0	
5245-32T2-07	24.5	32	40	125	152	60	M22X2.0	
5250-32T2-07	25.0	32	40	125	152	60	M22X2.0	
5255-32T2-07	25.5	32	40	130	157	60	M22X2.0	
5260-32T2-07	26.0	32	40	130	157	60	M22X2.0	
5265-32T2-07	26.5	32	40	135	162	60	M22X2.0	
5270-32T2-07	27.0	32	40	135	162	60	M22X2.0	
5275-32T2-07	27.5	32	40	140	168	60	Rc 1/4	

Cutting Condition D200

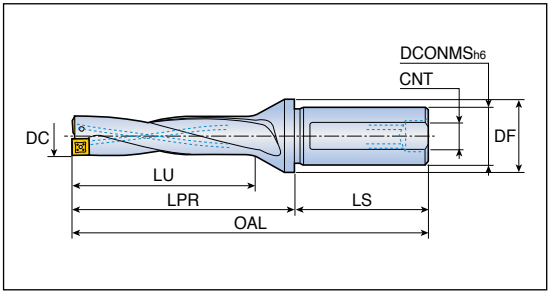
• OAL = LPR+LS

ADVANCE CUTTING TaeguTec

TDR 5...-T2

TDRILL

Indexable drill holders



• Drilling depth: 5xdiameter

Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TDR 5280-32T2-09	28.0	32	40	140	168	60	Rc 1/4	SPMG 09...
5285-32T2-09	28.5	32	40	145	173	60	Rc 1/4	DG/DK
5290-32T2-09	29.0	32	40	145	173	60	Rc 1/4	SPGG 09..DA
5295-32T2-09	29.5	32	40	150	181	60	Rc 1/4	D154-155
5300-32T2-09	30.0	32	40	150	181	60	Rc 1/4	
5300-40T2-09	30.0	40	50	150	181	70	Rc 1/4	
5310-32T2-09	31.0	32	40	155	187	60	Rc 1/4	
5310-40T2-09	31.0	40	50	155	187	70	Rc 1/4	
5320-32T2-09	32.0	32	40	160	192	60	Rc 1/4	
5320-40T2-09	32.0	40	50	160	192	70	Rc 1/4	
5330-32T2-09	33.0	32	40	165	198	60	Rc 1/4	
5330-40T2-09	33.0	40	50	165	198	70	Rc 1/4	
5340-32T2-11	34.0	32	50	170	203	60	Rc 1/4	SPMG 11...
5340-40T2-11	34.0	40	55	170	203	70	Rc 1/4	DG/DK
5350-32T2-11	35.0	32	50	175	209	60	Rc 1/4	SPGG 11..DA
5350-40T2-11	35.0	40	55	175	209	70	Rc 1/4	D154-155
5360-32T2-11	36.0	32	50	180	215	60	Rc 1/4	
5360-40T2-11	36.0	40	55	180	215	70	Rc 1/4	
5370-32T2-11	37.0	32	50	185	221	60	Rc 1/4	
5370-40T2-11	37.0	40	55	185	221	70	Rc 1/4	
5380-32T2-11	38.0	32	50	190	227	60	Rc 1/4	
5380-40T2-11	38.0	40	55	190	227	70	Rc 1/4	
5390-32T2-11	39.0	32	50	195	232	60	Rc 1/4	
5390-40T2-11	39.0	40	55	195	232	70	Rc 1/4	
5400-32T2-11	40.0	32	50	200	238	60	Rc 1/4	
5400-40T2-11	40.0	40	55	200	238	70	Rc 1/4	
5410-40T2-11	41.0	40	55	205	244	70	Rc 1/4	

Cutting Condition D200

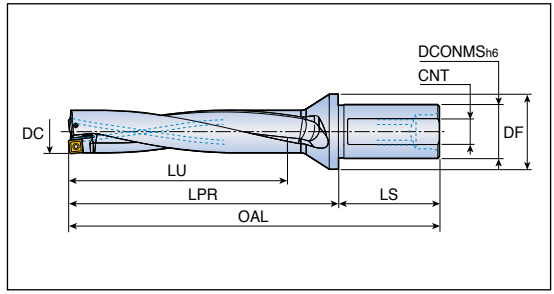
• OAL = LPR+LS

TaeguTec

TDR 5...-T2

Indexable drill holders

• Drilling depth: 5xdiameter



Designation	Dimension (mm)							Insert
	DC	DCONMS	DF	LU	LPR	LS	CNT	
TDR 5420-40T2-14	42.0	40	60	210	249	70	Rc 1/4	SPMG 14... DG/DK SPGG 14..DA D154-155
5430-40T2-14	43.0	40	60	215	255	70	Rc 1/4	
5440-40T2-14	44.0	40	60	220	260	70	Rc 1/4	
5450-40T2-14	45.0	40	60	225	267	70	Rc 1/4	
5460-40T2-14	46.0	40	60	230	273	70	Rc 1/4	
5470-40T2-14	47.0	40	60	235	278	70	Rc 1/4	
5480-40T2-14	48.0	40	60	240	284	70	Rc 1/4	
5490-40T2-14	49.0	40	60	245	289	70	Rc 1/4	
5500-40T2-14	50.0	40	60	250	295	70	Rc 1/4	

• OAL = LPR+LS

Spare parts

Designation	Screw	Wrench	Plug	
TDR 5125 - 5150	TS 20043I/HG-P	TD 6P	SL 20 M	
TDR 5155 - 5215	TS 22052I/HG	TD 7	SL 25 M	
TDR 5220 - 5270	TS 25064I	TD 8	SL 25 M / SL 32 M	
TDR 5275	TS 25064I	TD 8	-	
TDR 5280 - 5330	TS 35088I	TD 10	-	
TDR 5340 - 5390	TS 40093I	TD 15	-	
TDR 5400 - 5410	TS 40093I	TD 15	-	
TDR 5420 - 5500	SO 50090I	TD 20	-	

Cutting Condition D200

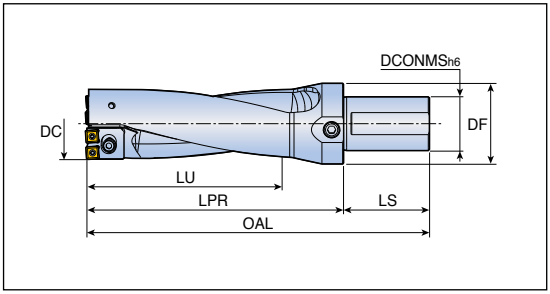
ADVANCE CUTTING TaeguTec

TDR 25...CA-T

TDRILL

Indexable cartridge drill holders

• Drilling depth: 2.5xdiameter



Designation	Dimension (mm)						Setting plate	Insert
	DC	DCONMS	DF	LU	LPR	LS		
TDR 2551-53-50T2-07CA-T	51	50	75	133	170	80	-	SPMG 07... DG/DK SPGG 07..DA D154-155
	52	50	75	133	170	80	TDP-0701	
	53	50	75	133	170	80	TDP-0702	
2554-56-50T2-07CA-T	54	50	75	140	180	80	-	SPMG 07... DG/DK SPGG 07..DA D154-155
	55	50	75	140	180	80	TDP-0701	
	56	50	75	140	180	80	TDP-0702	
2557-62-50T2-09CA-T	57	50	75	155	201	80	-	SPMG 09... DG/DK SPGG 09..DA D154-155
	58	50	75	155	201	80	TDP-0901	
	59	50	75	155	201	80	TDP-0902	
	60	50	75	155	201	80	TDP-0903	
	61	50	75	155	201	80	TDP-0904	
	62	50	75	155	201	80	TDP-0905	
2563-66-50T2-09CA-T	63	50	75	165	215	80	-	SPMG 09... DG/DK SPGG 09..DA D154-155
	64	50	75	165	215	80	TDP-0901	
	65	50	75	165	215	80	TDP-0902	
	66	50	75	165	215	80	TDP-0903	
2567-73-50T2-11CA-T	67	50	75	183	240	80	-	SPMG 11... DG/DK SPGG 11..DA D154-155
	68	50	75	183	240	80	TDP-1101	
	69	50	75	183	240	80	TDP-1102	
	70	50	75	183	240	80	TDP-1103	
	71	50	75	183	240	80	TDP-1104	
	72	50	75	183	240	80	TDP-1105	
	73	50	75	183	240	80	TDP-1106	
2574-80-50T2-12CA-T	74	50	75	200	250	80	-	SPMG 12...DG D154
	75	50	75	200	250	80	TDP-1101	
	76	50	75	200	250	80	TDP-1102	
	77	50	75	200	250	80	TDP-1103	
	78	50	75	200	250	80	TDP-1104	
	79	50	75	200	250	80	TDP-1105	
	80	50	75	200	250	80	TDP-1106	

Cutting Condition D198

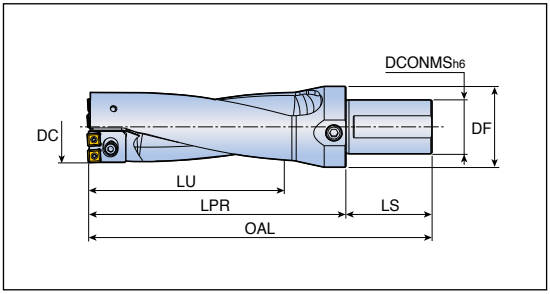
• OAL = LPR+LS

TaeguTec

TDR 35...CA-T

TDRILL

Indexable cartridge drill holders



• Drilling depth: 3.5xdiameter

Designation	Dimension (mm)						Setting plate	Insert
	DC	DCONMS	DF	LU	LPR	LS		
TDR 3551-53-50T2-07CA-T	51	50	75	186	223	80	-	SPMG 07... DG/DK SPGG 07..DA D154-155
	52	50	75	186	223	80	TDP-0701	
	53	50	75	186	223	80	TDP-0702	
3554-56-50T2-07CA-T	54	50	75	196	236	80	-	SPMG 07... DG/DK SPGG 07..DA D154-155
	55	50	75	196	236	80	TDP-0701	
	56	50	75	196	236	80	TDP-0702	
3557-62-50T2-09CA-T	57	50	75	217	263	80	-	SPMG 09... DG/DK SPGG 09..DA D154-155
	58	50	75	217	263	80	TDP-0901	
	59	50	75	217	263	80	TDP-0902	
	60	50	75	217	263	80	TDP-0903	
	61	50	75	217	263	80	TDP-0904	
	62	50	75	217	263	80	TDP-0905	
3563-66-50T2-09CA-T	63	50	75	231	281	80	-	SPMG 09... DG/DK SPGG 09..DA D154-155
	64	50	75	231	281	80	TDP-0901	
	65	50	75	231	281	80	TDP-0902	
	66	50	75	231	281	80	TDP-0903	
3567-73-50T2-11CA-T	67	50	75	256	313	80	-	SPMG 11... DG/DK SPGG 11..DA D154-155
	68	50	75	256	313	80	TDP-1101	
	69	50	75	256	313	80	TDP-1102	
	70	50	75	256	313	80	TDP-1103	
	71	50	75	256	313	80	TDP-1104	
	72	50	75	256	313	80	TDP-1105	
	73	50	75	256	313	80	TDP-1106	

Cutting Condition D198

• OAL = LPR+LS

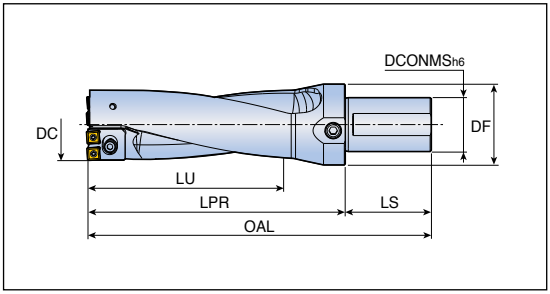
ADVANCE CUTTING TaeguTec

TDR 35...CA-T

TDRILL

Indexable cartridge drill holders

• Drilling depth: 3.5xdiameter



Designation	Dimension (mm)						Setting plate	Insert
	DC	DCONMS	DF	LU	LPR	LS		
TDR 3574-80-50T2-12CA-T	74	50	75	280	330	80	-	SPMG 12...DG
	75	50	75	280	330	80	TDP-1101	D154
	76	50	75	280	330	80	TDP-1102	
	77	50	75	280	330	80	TDP-1103	
	78	50	75	280	330	80	TDP-1104	
	79	50	75	280	330	80	TDP-1105	
	80	50	75	280	330	80	TDP-1106	

• OAL = LPR+LS

Spare parts

Designation	Screw	Cartridge for peripheral	Cartridge for center
TDR.. 51-53...	TS 25064I	TDR 07CA-P1-T	TDR 07CA-C1-T
TDR.. 54-56...	TS 25064I	TDR 07CA-P2-T	TDR 07CA-C2-T
TDR.. 57-62...	TS 35088I	TDR 09CA-P1-T	TDR 09CA-C1-T
TDR.. 63-66...	TS 35088I	TDR 09CA-P2-T	TDR 09CA-C2-T
TDR.. 67-73...	TS 40093I	TDR 11CA-P1-T	TDR 11CA-C1-T
TDR.. 74-80...	TS 40093I	TDR 12CA-P2-T	TDR 12CA-C2-T

Spare parts for cartridges

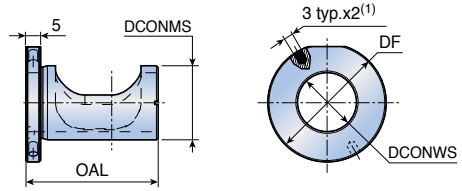
Designation	Cartridge clamping screw	Washer	Setting plate screw
TDR 07CA-P1-T	SH M4x0.7x16	MW 4.3x8	TS 20043I/HG-P
TDR 07CA-C1-T	SH M4x0.7x16	MW 4.3x8	-
TDR 07CA-P2-T	SH M4x0.7x16	MW 4.3x8	TS 20043I/HG-P
TDR 07CA-C2-T	SH M4x0.7x16	MW 4.3x8	-
TDR 09CA-P1-T	SH M5x0.8x16	MW 5.5x10	SO 30055I
TDR 09CA-C1-T	SH M5x0.8x16	MW 5.5x10	-
TDR 09CA-P2-T	SH M5x0.8x16	MW 5.5x10	SO 30055I
TDR 09CA-C2-T	SH M5x0.8x16	MW 5.5x10	-
TDR 11CA-P1-T	SH M6x1.0x20	MW 6.4x12	SO 30055I
TDR 11CA-C1-T	SH M6x1.0x20	MW 6.4x12	-
TDR 12CA-P2-T	SH M6x1.0x20	MW 6.4x12	SO 30055I
TDR 12CA-C2-T	SH M6x1.0x20	MW 6.4x12	-

Cutting Condition D198

ECCENTER SLEEVE

TDRILL

Drill center adjustment sleeves / eccentric sleeve



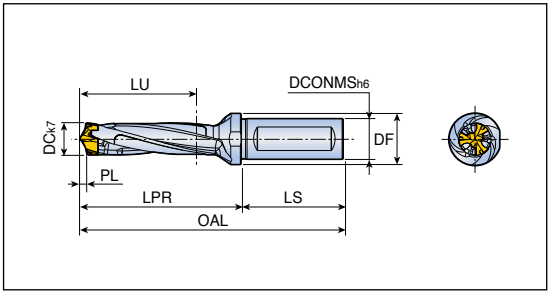
Designation	Dimension (mm)			
	DCONWS	DCONMS	DF	OAL
ECCENTER SLEEVE 20x25	20	25	40	44
25x32	25	32	50	46
32x40	32	40	65	55
40x50	40	50	75	62

• (1) Holes for inserting a pin are used to facilitate radial adjustment of the sleeve (Pin is not supplied)

3ED...T...-3D

Head changeable 3 flute drill holders - Weldon type shank

• Drilling depth: 3xdiameter



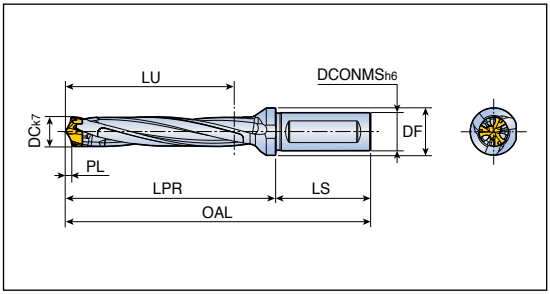
Designation		Dimension (mm)								Clamping key
		DC	DCONMS	DF	LU	LPR	LS	PL	SSC	
3ED	150-159-20T3-3D	15.0-15.9	20	25	49	73.9	50	3.31	15	K 3ED D14-D15
	160-169-20T3-3D	16.0-16.9	20	25	52	79.0	50	3.70	16	K 3ED D16-D17
	170-179-20T3-3D	17.0-17.9	20	25	55	84.0	50	3.88	17	K 3ED D16-D17
	180-189-25T2-3D	18.0-18.9	25	32	58	90.1	56	4.07	18	K 3ED D18-D19
	190-199-25T2-3D	19.0-19.9	25	32	61	94.7	56	4.26	19	K 3ED D18-D19
	200-209-25T2-3D	20.0-20.9	25	32	64	99.3	56	4.44	20	K 3ED D20-D21

• OAL = LPR+LS
• SSC : Seat size code

3ED...T...-5D

Head changeable 3 flute drill holders - Weldon type shank

• Drilling depth: 5xdiameter



Designation		Dimension (mm)								Clamping key
		DC	DCONMS	DF	LU	LPR	LS	PL	SSC	
3ED	150-159-20T3-5D	15.0-15.9	20	25	79	103.9	50	3.31	15	K 3ED D14-D15
	160-169-20T3-5D	16.0-16.9	20	25	84	111.0	50	3.70	16	K 3ED D16-D17
	170-179-20T3-5D	17.0-17.9	20	25	89	118.0	50	3.88	17	K 3ED D16-D17
	180-189-25T2-5D	18.0-18.9	25	32	94	126.1	56	4.07	18	K 3ED D18-D19
	190-199-25T2-5D	19.0-19.9	25	32	99	132.7	56	4.26	19	K 3ED D18-D19
	200-209-25T2-5D	20.0-20.9	25	32	104	139.3	56	4.44	20	K 3ED D20-D21

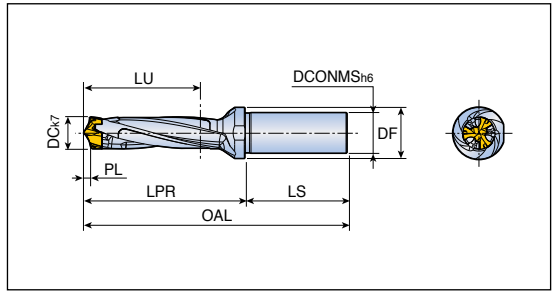
• OAL = LPR+LS
• SSC : Seat size code

3ED...T0...-3D

DRILLSFEED

Head changeable 3 flute drill holders - Cylindrical type shank

• Drilling depth: 3xdiameter



Designation	Dimension (mm)								Clamping key
	DC	DCONMS	DF	LU	LPR	LS	PL	SSC	
3ED 150-159-20T0-3D	15.0-15.9	20	25	49	73.9	50	3.31	15	K 3ED D14-D15
160-169-20T0-3D	16.0-16.9	20	25	52	79.0	50	3.70	16	K 3ED D16-D17
170-179-20T0-3D	17.0-17.9	20	25	55	84.0	50	3.88	17	K 3ED D16-D17
180-189-25T0-3D	18.0-18.9	25	32	58	90.1	56	4.07	18	K 3ED D18-D19
190-199-25T0-3D	19.0-19.9	25	32	61	94.7	56	4.26	19	K 3ED D18-D19
200-209-25T0-3D	20.0-20.9	25	32	64	99.3	56	4.44	20	K 3ED D20-D21

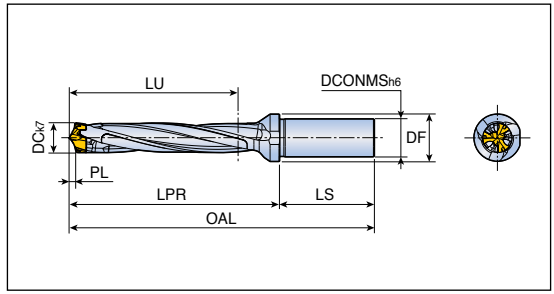
• OAL = LPR+LS
• SSC : Seat size code

3ED...T0...-5D

DRILLSFEED

Head changeable 3 flute drill holders - Cylindrical type shank

• Drilling depth: 5xdiameter



Designation	Dimension (mm)								Clamping key
	DC	DCONMS	DF	LU	LPR	LS	PL	SSC	
3ED 150-159-20T0-5D	15.0-15.9	20	25	79	103.9	50	3.31	15	K 3ED D14-D15
160-169-20T0-5D	16.0-16.9	20	25	84	111.0	50	3.70	16	K 3ED D16-D17
170-179-20T0-5D	17.0-17.9	20	25	89	118.0	50	3.88	17	K 3ED D16-D17
180-189-25T0-5D	18.0-18.9	25	32	94	126.1	56	4.07	18	K 3ED D18-D19
190-199-25T0-5D	19.0-19.9	25	32	99	132.7	56	4.26	19	K 3ED D18-D19
200-209-25T0-5D	20.0-20.9	25	32	104	139.3	56	4.44	20	K 3ED D20-D21

• OAL = LPR+LS
• SSC : Seat size code

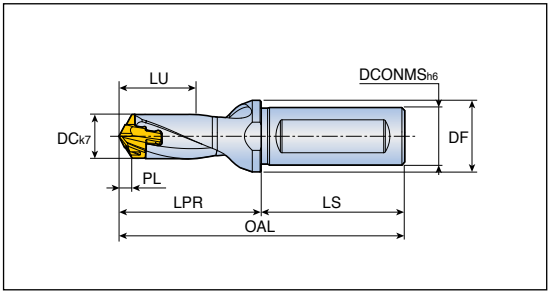
ADVANCE CUTTING
TaeguTec

TCD...T...-1.5D

DRILLRUSH

Head changeable drill holders - Weldon type shank

• Drilling depth: 1.5xdiameter



Designation	Dimension (mm)								Clamping key
	DC	DCONMS	DF	LU	LPR	LS	PL	SSC	
TCD 060-064-12T3-1.5D	6.0-6.4	12	16	10	23.0	45	0.96	6	K TCD D060-D099
065-069-12T3-1.5D	6.5-6.9	12	16	11	24.1	45	1.18	6.5	
070-074-12T3-1.5D	7.0-7.4	12	16	12	25.1	45	1.01	7	
075-079-12T3-1.5D	7.5-7.9	12	16	12	25.9	45	1.10	7	
080-089-12T3-1.5D	8.0-8.9	12	16	13	27.4	45	1.20	8	
090-099-12T3-1.5D	9.0-9.9	12	16	15	29.3	45	1.35	9	
100-109-16T3-1.5D	10.0-10.9	16	20	17	31.2	48	1.50	10	K TCD D100-D199
110-119-16T3-1.5D	11.0-11.9	16	20	19	33.1	48	1.67	11	
120-129-16T3-1.5D	12.0-12.9	16	20	20	35.0	48	1.82	12	
130-139-16T3-1.5D	13.0-13.9	16	20	22	37.1	48	1.96	13	
140-149-16T3-1.5D	14.0-14.9	16	20	23	41.1	48	2.12	14	
150-159-20T3-1.5D	15.0-15.9	20	25	25	46.2	50	2.27	15	
160-169-20T3-1.5D	16.0-16.9	20	25	26	49.3	50	2.42	16	
170-179-20T3-1.5D	17.0-17.9	20	25	29	52.4	50	2.59	17	
180-189-25T2-1.5D	18.0-18.9	25	32	30	55.5	56	2.73	18	
190-199-25T2-1.5D	19.0-19.9	25	32	32	58.5	56	2.88	19	
200-209-25T2-1.5D	20.0-20.9	25	32	33	61.6	56	3.02	20	K TCD D200-D269
210-219-25T2-1.5D	21.0-21.9	25	32	35	64.7	56	3.18	21	
220-229-25T2-1.5D	22.0-22.9	25	32	36	67.8	56	3.24	22	
230-239-32T2-1.5D	23.0-23.9	32	42	38	70.8	60	3.46	23	
240-249-32T2-1.5D	24.0-24.9	32	42	40	73.9	60	3.62	24	
250-259-32T2-1.5D	25.0-25.9	32	42	42	77.0	60	3.80	25	

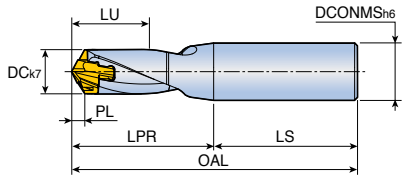
D158 | Sleeve D96 | Cutting Condition D204

• OAL = LPR+LS
• SSC : Seat size code

TCD...S0-1.5D

DRILLRUSH

Head changeable drill holders - Cylindrical type shank



• Drilling depth: 1.5xdiameter

Designation	Dimension (mm)							Clamping key
	DC	DCONMS	LU	LPR	LS	PL	SSC	
TCD 060-064-12S0-1.5D	6.0-6.4	12	10	23.0	45	0.96	6	K TCD D060-D099
065-069-12S0-1.5D	6.5-6.9	12	11	24.1	45	1.18	6.5	
070-074-12S0-1.5D	7.0-7.4	12	12	25.1	45	1.01	7	
075-079-12S0-1.5D	7.5-7.9	12	12	25.9	45	1.10	7	
080-089-12S0-1.5D	8.0-8.9	12	13	27.4	45	1.20	8	
090-099-12S0-1.5D	9.0-9.9	12	15	29.3	45	1.35	9	
100-109-16S0-1.5D	10.0-10.9	16	17	31.2	48	1.50	10	K TCD D100-D199
110-119-16S0-1.5D	11.0-11.9	16	19	33.1	48	1.67	11	
120-129-16S0-1.5D	12.0-12.9	16	20	35.0	48	1.82	12	
130-139-16S0-1.5D	13.0-13.9	16	22	37.1	48	1.96	13	
140-149-16S0-1.5D	14.0-14.9	16	23	41.1	48	2.12	14	
150-159-20S0-1.5D	15.0-15.9	20	25	46.2	50	2.27	15	
160-169-20S0-1.5D	16.0-16.9	20	26	49.3	50	2.42	16	
170-179-20S0-1.5D	17.0-17.9	20	29	52.4	50	2.59	17	
180-189-25S0-1.5D	18.0-18.9	25	30	55.5	56	2.73	18	
190-199-25S0-1.5D	19.0-19.9	25	32	58.5	56	2.88	19	
200-209-25S0-1.5D	20.0-20.9	25	33	61.6	56	3.02	20	K TCD D200-D269
210-219-25S0-1.5D	21.0-21.9	25	35	64.7	56	3.18	21	
220-229-25S0-1.5D	22.0-22.9	25	36	67.8	56	3.24	22	
230-239-32S0-1.5D	23.0-23.9	32	38	70.8	60	3.46	23	
240-249-32S0-1.5D	24.0-24.9	32	40	73.9	60	3.62	24	
250-259-32S0-1.5D	25.0-25.9	32	42	77.0	60	3.80	25	

Cutting Condition

D158 D204

• OAL = LPR+LS
• SSC : Seat size code

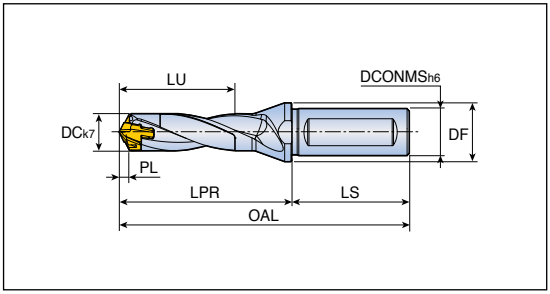
ADVANCE CUTTING TaeguTec

TCD...T...-3D

DRILLRUSH

Head changeable drill holders - Weldon type shank

• Drilling depth: 3xdiameter



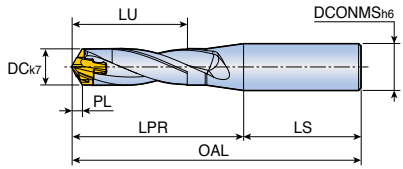
Designation	Dimension (mm)								Clamping key
	DC	DCONMS	DF	LU	LPR	LS	PL	SSC	
TCD 060-064-12T3-3D	6.0-6.4	12	16	19	32.0	45	0.96	6	K TCD D060-D099
065-069-12T3-3D	6.5-6.9	12	16	21	33.8	45	1.18	6.5	
070-074-12T3-3D	7.0-7.4	12	16	22	35.6	45	1.01	7	
075-079-12T3-3D	7.5-7.9	12	16	24	37.1	45	1.10	7	
080-084-12T3-3D	8.0-8.4	12	16	25	39.4	45	1.20	8	
085-089-12T3-3D	8.5-8.9	12	16	27	40.9	45	1.29	8	
090-094-12T3-3D	9.0-9.4	12	16	28	42.8	45	1.35	9	
095-099-12T3-3D	9.5-9.9	12	16	30	44.3	45	1.44	9	
100-104-16T3-3D	10.0-10.4	16	20	32	46.2	48	1.50	10	K TCD D100-D199
105-109-16T3-3D	10.5-10.9	16	20	34	47.7	48	1.59	10	
110-114-16T3-3D	11.0-11.4	16	20	35	49.6	48	1.67	11	
115-119-16T3-3D	11.5-11.9	16	20	37	51.1	48	1.76	11	
120-124-16T3-3D	12.0-12.4	16	20	38	53.0	48	1.82	12	
125-129-16T3-3D	12.5-12.9	16	20	39	54.5	48	1.91	12	
130-134-16T3-3D	13.0-13.4	16	20	41	56.6	48	1.96	13	
135-139-16T3-3D	13.5-13.9	16	20	43	58.1	48	2.05	13	
140-144-16T3-3D	14.0-14.4	16	20	44	62.2	48	2.12	14	
145-149-16T3-3D	14.5-14.9	16	20	46	63.7	48	2.21	14	
150-159-20T3-3D	15.0-15.9	20	25	47	68.7	50	2.27	15	
160-169-20T3-3D	16.0-16.9	20	25	50	73.3	50	2.42	16	
170-179-20T3-3D	17.0-17.9	20	25	54	77.9	50	2.59	17	
180-189-25T2-3D	18.0-18.9	25	32	57	82.5	56	2.73	18	
190-199-25T2-3D	19.0-19.9	25	32	60	87.0	56	2.88	19	
200-209-25T2-3D	20.0-20.9	25	32	63	91.6	56	3.02	20	K TCD D200-D269
210-219-25T2-3D	21.0-21.9	25	32	66	96.2	56	3.18	21	
220-229-25T2-3D	22.0-22.9	25	32	69	100.8	56	3.24	22	
230-239-32T2-3D	23.0-23.9	32	42	72	105.3	60	3.46	23	
240-249-32T2-3D	24.0-24.9	32	42	76	109.9	60	3.62	24	
250-259-32T2-3D	25.0-25.9	32	42	79	114.5	60	3.80	25	

• OAL = LPR+LS
• SSC : Seat size code

TCD...S0-3D

DRILLRUSH

Head changeable drill holders - Cylindrical type shank



• Drilling depth: 3xdiameter

Designation	Dimension (mm)							Clamping key
	DC	DCONMS	LU	LPR	LS	PL	SSC	
TCD 060-064-12S0-3D	6.0-6.4	12	19	32.0	45	0.96	6	K TCD D060-D099
065-069-12S0-3D	6.5-6.9	12	21	33.8	45	1.18	6.5	
070-074-12S0-3D	7.0-7.4	12	22	35.6	45	1.01	7	
075-079-12S0-3D	7.5-7.9	12	24	37.1	45	1.10	7	
080-084-12S0-3D	8.0-8.4	12	25	39.4	45	1.20	8	
085-089-12S0-3D	8.5-8.9	12	27	40.9	45	1.29	8	
090-094-12S0-3D	9.0-9.4	12	28	42.8	45	1.35	9	
095-099-12S0-3D	9.5-9.9	12	30	44.3	45	1.44	9	
100-104-16S0-3D	10.0-10.4	16	32	46.2	48	1.50	10	K TCD D100-D199
105-109-16S0-3D	10.5-10.9	16	34	47.7	48	1.59	10	
110-114-16S0-3D	11.0-11.4	16	35	49.6	48	1.67	11	
115-119-16S0-3D	11.5-11.9	16	37	51.1	48	1.76	11	
120-124-16S0-3D	12.0-12.4	16	38	53.0	48	1.82	12	
125-129-16S0-3D	12.5-12.9	16	39	54.5	48	1.91	12	
130-134-16S0-3D	13.0-13.4	16	41	56.6	48	1.96	13	
135-139-16S0-3D	13.5-13.9	16	43	58.1	48	2.05	13	
140-144-16S0-3D	14.0-14.4	16	44	62.1	48	2.12	14	
145-149-16S0-3D	14.5-14.9	16	46	63.7	48	2.21	14	
150-159-20S0-3D	15.0-15.9	20	47	68.7	50	2.27	15	
160-169-20S0-3D	16.0-16.9	20	50	73.3	50	2.42	16	
170-179-20S0-3D	17.0-17.9	20	54	77.9	50	2.59	17	
180-189-25S0-3D	18.0-18.9	25	57	82.5	56	2.73	18	
190-199-25S0-3D	19.0-19.9	25	60	87.0	56	2.88	19	
200-209-25S0-3D	20.0-20.9	25	63	91.6	56	3.02	20	K TCD D200-D269
210-219-25S0-3D	21.0-21.9	25	66	96.2	56	3.18	21	
220-229-25S0-3D	22.0-22.9	25	69	100.8	56	3.24	22	
230-239-32S0-3D	23.0-23.9	32	72	105.3	60	3.46	23	
240-249-32S0-3D	24.0-24.9	32	76	109.9	60	3.62	24	
250-259-32S0-3D	25.0-25.9	32	79	114.5	60	3.80	25	

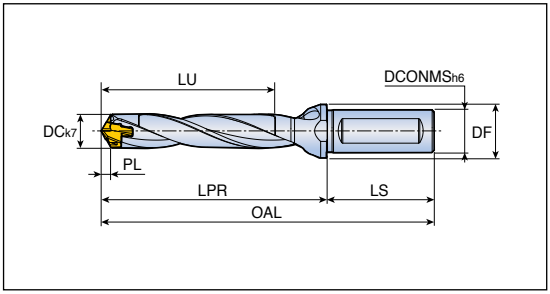
• OAL = LPR+LS
• SSC : Seat size code

ADVANCE CUTTING
TaeguTec

TCD...T...-5D

DRILLRUSH

Head changeable drill holders - Weldon type shank



• Drilling depth: 5xdiameter

Designation	Dimension (mm)								Clamping key
	DC	DCONMS	DF	LU	LPR	LS	PL	SSC	
TCD 060-064-12T3-5D	6.0-6.4	12	16	31	44.0	45	0.96	6	K TCD D060-D099
065-069-12T3-5D	6.5-6.9	12	16	34	46.8	45	1.18	6.5	
070-074-12T3-5D	7.0-7.4	12	16	36	49.6	45	1.01	7	
075-079-12T3-5D	7.5-7.9	12	16	39	52.1	45	1.10	7	
080-084-12T3-5D	8.0-8.4	12	16	41	55.4	45	1.20	8	
085-089-12T3-5D	8.5-8.9	12	16	44	57.9	45	1.29	8	
090-094-12T3-5D	9.0-9.4	12	16	46	60.8	45	1.35	9	
095-099-12T3-5D	9.5-9.9	12	16	49	63.3	45	1.44	9	
100-104-16T3-5D	10.0-10.4	16	20	52	66.2	48	1.50	10	K TCD D100-D199
105-109-16T3-5D	10.5-10.9	16	20	55	68.7	48	1.59	10	
110-114-16T3-5D	11.0-11.4	16	20	57	71.6	48	1.67	11	
115-119-16T3-5D	11.5-11.9	16	20	60	74.1	48	1.76	11	
120-124-16T3-5D	12.0-12.4	16	20	62	77.0	48	1.82	12	
125-129-16T3-5D	12.5-12.9	16	20	64	79.5	48	1.91	12	
130-134-16T3-5D	13.0-13.4	16	20	67	82.6	48	1.96	13	
135-139-16T3-5D	13.5-13.9	16	20	70	85.1	48	2.05	13	
140-144-16T3-5D	14.0-14.4	16	20	72	90.2	48	2.12	14	
145-149-16T3-5D	14.5-14.9	16	20	75	92.7	48	2.21	14	
150-159-20T3-5D	15.0-15.9	20	25	77	98.7	50	2.27	15	
160-169-20T3-5D	16.0-16.9	20	25	82	105.3	50	2.42	16	
170-179-20T3-5D	17.0-17.9	20	25	88	111.9	50	2.59	17	
180-189-25T2-5D	18.0-18.9	25	32	93	118.5	56	2.73	18	
190-199-25T2-5D	19.0-19.9	25	32	98	125.0	56	2.88	19	
200-209-25T2-5D	20.0-20.9	25	32	103	131.6	56	3.02	20	K TCD D200-D269
210-219-25T2-5D	21.0-21.9	25	32	108	138.2	56	3.18	21	
220-229-25T2-5D	22.0-22.9	25	32	113	144.8	56	3.24	22	
230-239-32T2-5D	23.0-23.9	32	42	118	151.3	60	3.46	23	
240-249-32T2-5D	24.0-24.9	32	42	124	157.9	60	3.62	24	
250-259-32T2-5D	25.0-25.9	32	42	129	164.5	60	3.80	25	

D158 | Sleeve D96 | Cutting Condition D204

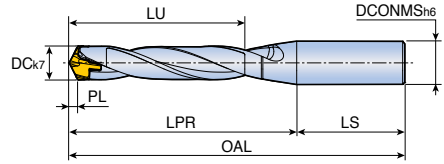
• OAL = LPR+LS
• SSC : Seat size code

TCD...S0-5D

DRILLRUSH

Head changeable drill holders - Cylindrical type shank

• Drilling depth: 5xdiameter



Designation	Dimension (mm)							Clamping key
	DC	DCONMS	LU	LPR	LS	PL	SSC	
TCD 060-064-12S0-5D	6.0-6.4	12	31	44.0	45	0.96	6	K TCD D060-D099
065-069-12S0-5D	6.5-6.9	12	34	46.8	45	1.18	6.5	
070-074-12S0-5D	7.0-7.4	12	36	49.6	45	1.01	7	
075-079-12S0-5D	7.5-7.9	12	39	52.1	45	1.10	7	
080-084-12S0-5D	8.0-8.4	12	41	55.4	45	1.20	8	
085-089-12S0-5D	8.5-8.9	12	44	57.9	45	1.29	8	
090-094-12S0-5D	9.0-9.4	12	46	60.8	45	1.35	9	
095-099-12S0-5D	9.5-9.9	12	49	63.3	45	1.44	9	
100-104-16S0-5D	10.0-10.4	16	52	66.2	48	1.50	10	K TCD D100-D199
105-109-16S0-5D	10.5-10.9	16	55	68.7	48	1.59	10	
110-114-16S0-5D	11.0-11.4	16	57	71.6	48	1.67	11	
115-119-16S0-5D	11.5-11.9	16	60	74.1	48	1.76	11	
120-124-16S0-5D	12.0-12.4	16	62	77.0	48	1.82	12	
125-129-16S0-5D	12.5-12.9	16	64	79.5	48	1.91	12	
130-134-16S0-5D	13.0-13.4	16	67	82.6	48	1.96	13	
135-139-16S0-5D	13.5-13.9	16	70	85.1	48	2.05	13	
140-144-16S0-5D	14.0-14.4	16	72	90.2	48	2.12	14	
145-149-16S0-5D	14.5-14.9	16	75	92.7	48	2.21	14	
150-159-20S0-5D	15.0-15.9	20	77	98.7	50	2.27	15	
160-169-20S0-5D	16.0-16.9	20	82	105.3	50	2.42	16	
170-179-20S0-5D	17.0-17.9	20	88	111.9	50	2.59	17	
180-189-25S0-5D	18.0-18.9	25	93	118.5	56	2.73	18	
190-199-25S0-5D	19.0-19.9	25	98	125.0	56	2.88	19	
200-209-25S0-5D	20.0-20.9	25	103	131.6	56	3.02	20	K TCD D200-D269
210-219-25S0-5D	21.0-21.9	25	108	138.2	56	3.18	21	
220-229-25S0-5D	22.0-22.9	25	113	144.8	56	3.24	22	
230-239-32S0-5D	23.0-23.9	32	118	151.3	60	3.46	23	
240-249-32S0-5D	24.0-24.9	32	124	157.9	60	3.62	24	
250-259-32S0-5D	25.0-25.9	32	129	164.5	60	3.80	25	

• OAL = LPR+LS
• SSC : Seat size code

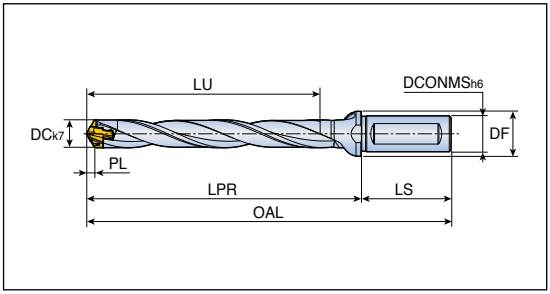
ADVANCE CUTTING
TaeguTec

TCD...T...-8D

DRILLRUSH

Head changeable drill holders - Weldon type shank

• Drilling depth: 8xdiameter



Designation		Dimension (mm)								Clamping key
		DC	DCONMS	DF	LU	LPR	LS	PL	SSC	
TCD	070-074-12T3-8D	7.0-7.4	12	16	57	70.6	45	1.01	7	K TCD D060-D099
	075-079-12T3-8D	7.5-7.9	12	16	61	74.6	45	1.10	7	
	080-084-12T3-8D	8.0-8.4	12	16	65	79.4	45	1.20	8	
	085-089-12T3-8D	8.5-8.9	12	16	69	83.4	45	1.29	8	
	090-094-12T3-8D	9.0-9.4	12	16	73	87.8	45	1.35	9	
	095-099-12T3-8D	9.5-9.9	12	16	77	91.8	45	1.44	9	
	100-104-16T3-8D	10.0-10.4	16	20	82	96.2	48	1.50	10	K TCD D100-D199
	105-109-16T3-8D	10.5-10.9	16	20	86	100.2	48	1.59	10	
	110-114-16T3-8D	11.0-11.4	16	20	90	104.6	48	1.67	11	
	115-119-16T3-8D	11.5-11.9	16	20	94	108.6	48	1.76	11	
	120-124-16T3-8D	12.0-12.4	16	20	98	113.0	48	1.82	12	
	125-129-16T3-8D	12.5-12.9	16	20	102	117.0	48	1.91	12	
	130-134-16T3-8D	13.0-13.4	16	20	106	121.6	48	1.96	13	
	135-139-16T3-8D	13.5-13.9	16	20	110	125.6	48	2.05	13	
	140-144-16T3-8D	14.0-14.4	16	20	114	132.2	48	2.12	14	
	145-149-16T3-8D	14.5-14.9	16	20	118	136.2	48	2.21	14	
	150-159-20T3-8D	15.0-15.9	20	25	122	143.7	50	2.27	15	
	160-169-20T3-8D	16.0-16.9	20	25	130	153.3	50	2.42	16	
	170-179-20T3-8D	17.0-17.9	20	25	139	162.9	50	2.59	17	
	180-189-25T2-8D	18.0-18.9	25	32	147	172.5	56	2.73	18	
	190-199-25T2-8D	19.0-19.9	25	32	155	182.0	56	2.88	19	
	200-209-25T2-8D	20.0-20.9	25	32	163	191.6	56	3.02	20	K TCD D200-D269
	210-219-25T2-8D	21.0-21.9	25	32	171	201.2	56	3.18	21	
	220-229-25T2-8D	22.0-22.9	25	32	179	210.8	56	3.24	22	
	230-239-32T2-8D	23.0-23.9	32	42	187	220.3	60	3.46	23	
	240-249-32T2-8D	24.0-24.9	32	42	196	229.9	60	3.62	24	
	250-259-32T2-8D	25.0-25.9	32	42	204	239.5	60	3.80	25	

• It is recommended to make the pilot hole with a 1.5D holder
• OAL = LPR+LS
• SSC : Seat size code

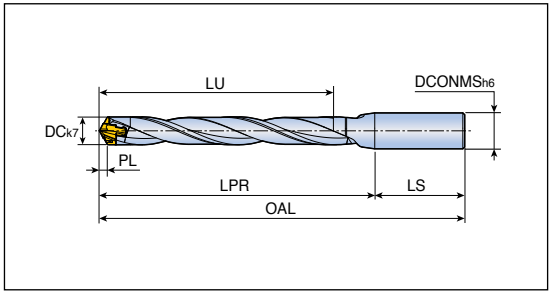
TaeguTec

TCD...S0-8D

DRILLRUSH

Head changeable drill holders - Cylindrical type shank

• Drilling depth: 8xdiameter



Designation	Dimension (mm)							Clamping key
	DC	DCONMS	LU	LPR	LS	PL	SSC	
TCD 060-064-12S0-8D	6.0-6.4	12	49	62.0	45	0.96	6	K TCD D060-D099
065-069-12S0-8D	6.5-6.9	12	53	66.3	45	1.18	6.5	
070-074-12S0-8D	7.0-7.4	12	57	70.6	45	1.01	7	
075-079-12S0-8D	7.5-7.9	12	61	74.6	45	1.10	7	
080-084-12S0-8D	8.0-8.4	12	65	79.4	45	1.20	8	
085-089-12S0-8D	8.5-8.9	12	69	83.4	45	1.29	8	
090-094-12S0-8D	9.0-9.4	12	73	87.8	45	1.35	9	
095-099-12S0-8D	9.5-9.9	12	77	91.8	45	1.44	9	
100-104-16S0-8D	10.0-10.4	16	82	96.2	48	1.50	10	K TCD D100-D199
105-109-16S0-8D	10.5-10.9	16	86	100.2	48	1.59	10	
110-114-16S0-8D	11.0-11.4	16	90	104.6	48	1.67	11	
115-119-16S0-8D	11.5-11.9	16	94	108.6	48	1.76	11	
120-124-16S0-8D	12.0-12.4	16	98	113.0	48	1.82	12	
125-129-16S0-8D	12.5-12.9	16	102	117.0	48	1.91	12	
130-134-16S0-8D	13.0-13.4	16	106	121.6	48	1.96	13	
135-139-16S0-8D	13.5-13.9	16	110	125.6	48	2.05	13	
140-144-16S0-8D	14.0-14.4	16	114	132.2	48	2.12	14	
145-149-16S0-8D	14.5-14.9	16	118	136.2	48	2.21	14	
150-159-20S0-8D	15.0-15.9	20	122	143.7	50	2.27	15	
160-169-20S0-8D	16.0-16.9	20	130	153.3	50	2.42	16	
170-179-20S0-8D	17.0-17.9	20	139	162.9	50	2.59	17	
180-189-25S0-8D	18.0-18.9	25	147	172.5	56	2.73	18	
190-199-25S0-8D	19.0-19.9	25	155	182.0	56	2.88	19	
200-209-25S0-8D	20.0-20.9	25	163	191.6	56	3.02	20	K TCD D200-D269
210-219-25S0-8D	21.0-21.9	25	171	201.2	56	3.18	21	
220-229-25S0-8D	22.0-22.9	25	179	210.8	56	3.24	22	
230-239-32S0-8D	23.0-23.9	32	187	220.3	60	3.46	23	
240-249-32S0-8D	24.0-24.9	32	196	229.9	60	3.62	24	
250-259-32S0-8D	25.0-25.9	32	204	239.5	60	3.80	25	

D158 Cutting Condition D204

• It is recommended to make the pilot hole with a 1.5D holder
• OAL = LPR+LS
• SSC : Seat size code

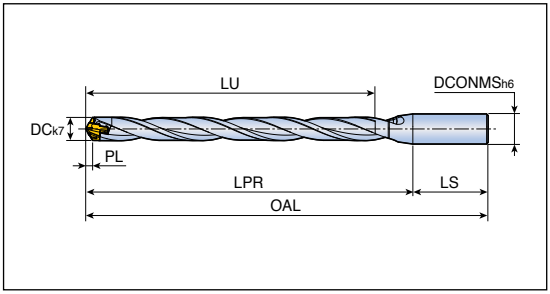
ADVANCE CUTTING TaeguTec

TCD...S0-12D

DRILLRUSH

Head changeable drill holders - Cylindrical type shank

• Drilling depth: 12xdiameter



Designation	Dimension (mm)							Clamping key
	DC	DCONMS	LU	LPR	LS	PL	SSC	
TCD 080-084-12S0-12D	8.0-8.4	12	97	111.4	45	1.20	8	K TCD D060-D099
085-089-12S0-12D	8.5-8.9	12	103	117.4	45	1.29	8	
090-094-12S0-12D	9.0-9.4	12	109	123.8	45	1.35	9	
095-099-12S0-12D	9.5-9.9	12	115	129.8	45	1.44	9	
100-104-16S0-12D	10.0-10.4	16	122	136.2	48	1.50	10	K TCD D100-D199
105-109-16S0-12D	10.5-10.9	16	128	142.2	48	1.59	10	
110-114-16S0-12D	11.0-11.4	16	134	148.6	48	1.67	11	
115-119-16S0-12D	11.5-11.9	16	140	154.6	48	1.76	11	
120-124-16S0-12D	12.0-12.4	16	146	161.0	48	1.82	12	
125-129-16S0-12D	12.5-12.9	16	152	167.0	48	1.91	12	
130-134-16S0-12D	13.0-13.4	16	158	173.6	48	1.96	13	
135-139-16S0-12D	13.5-13.9	16	164	179.6	48	2.05	13	
140-144-16S0-12D	14.0-14.4	16	170	188.2	48	2.12	14	
145-149-16S0-12D	14.5-14.9	16	176	194.2	48	2.21	14	
150-159-20S0-12D	15.0-15.9	20	182	203.7	50	2.27	15	
160-169-20S0-12D	16.0-16.9	20	194	217.3	50	2.42	16	
170-179-20S0-12D	17.0-17.9	20	207	230.9	50	2.59	17	
180-189-25S0-12D	18.0-18.9	25	219	244.5	56	2.73	18	
190-199-25S0-12D	19.0-19.9	25	221	258.0	56	2.88	19	
200-209-25S0-12D	20.0-20.9	25	243	271.6	56	3.02	20	K TCD D200-D269
210-219-25S0-12D	21.0-21.9	25	255	285.2	56	3.18	21	
220-229-25S0-12D	22.0-22.9	25	267	298.8	56	3.24	22	
230-239-32S0-12D	23.0-23.9	32	289	312.3	60	3.46	23	
240-249-32S0-12D	24.0-24.9	32	292	325.9	60	3.62	24	
250-259-32S0-12D	25.0-25.9	32	304	339.5	60	3.80	25	

D158

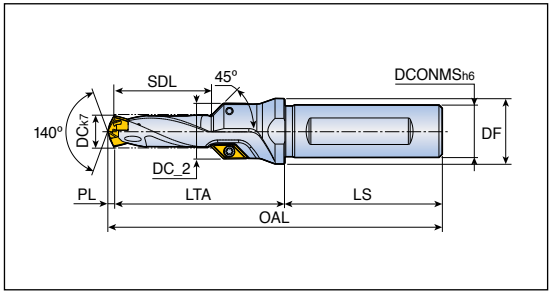
Cutting Condition D204

- It is recommended to make the pilot hole with a 1.5D holder
- OAL = LPR+LS
- SSC : Seat size code

TCD...-M

DRILLRUSH

Head changeable drill holders for pre-thread hole



Designation	ISO thread	DC	Dimension (mm)							Drill dia. range	Insert
			SDL	LTA	LS	DC_2	DCONMS	DF	PL		
TCD 068x21x12T3-M8	M8	6.8	21	43.77	45	13.5	12	16	1.23	6.5-6.9	AOMT 06...-C45
085x26x12T3-M10	M10	8.5	26	48.71	45	15.5	12	16	1.29	8.5-8.9	D172
102x30x16T3-M12	M12	10.2	30	52.46	48	17.0	16	20	1.54	10.0-10.4	
120x35x16T3-M14	M14	12.0	35	59.18	48	19.0	16	20	1.82	12.0-12.4	
140x39x20T3-M16	M16	14.0	39	66.88	50	21.0	20	25	2.12	14.0-14.4	
175x42x20T3-M20	M20	17.5	42	69.32	50	24.5	20	27	2.68	17.0-17.9	
210x48x25T2-M24	M24	21.0	48	76.82	56	28.0	25	32	3.18	21.0-21.9	

• OAL = LTA+LS+PL

Spare parts

Designation	Screw	Wrench	Clamping key	
TCD 068	TS 22046I	TD 7	K TCD D060-D099	
TCD 085	TS 22046I	TD 7	K TCD D060-D099	
TCD 102 - 175	TS 22046I	TD 7	K TCD D100-D199	
TCD 210	TS 22046I	TD 7	K TCD D200-D269	

D158 | Sleeve D96 | Cutting Condition D204

Plug for coolant supply in a stationary machines

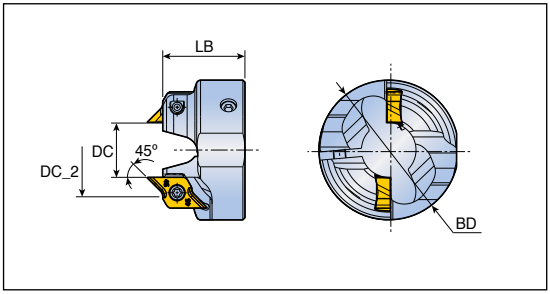
TaeguTec supplies special plugs with an internal thread for coolant connections used on lathes that can be pressed into the cavity on the back end of the shank.

Description	Shank diameter	Internal thread
PL-TCD-12	12	G 1/16
PL-TCD-16	16	G 1/16
PL-TCD-20	20	G 1/8
PL-TCD-25	25	G 1/8
PL-TCD-32	32	G 1/8

CFR D...-A45

DRILLRUSH

Chamfering ring tools



Designation	Dimension (mm)				Chamfer size	Chamfer insert
	DC	DC_2	BD	LB		
CFR D100-A45	9.8	16.56	34	20	2.5	CRNG 08...-45CD
D105-A45	10.3	17.06	34	20	2.5	D172
D110-A45	10.8	17.56	34	20	2.5	
D115-A45	11.3	18.06	34	20	2.5	
D120-A45	11.8	18.56	34	20	2.5	
D125-A45	12.3	19.06	34	20	2.5	
D130-A45	12.8	19.56	34	20	2.5	
D135-A45	13.3	20.06	34	20	2.5	
D140-A45	13.8	20.56	38	22	2.5	
D145-A45	14.3	21.06	38	22	2.5	
D150-A45	14.6	21.36	38	22	2.5	
D160-A45	15.6	22.36	42	23	2.5	
D170-A45	16.6	23.36	42	23	2.5	
D180-A45	17.6	24.36	42	23	2.5	
D190-A45	18.6	25.36	42	24	2.5	
D200-A45	19.6	26.36	42	24	2.5	
D210-A45	20.6	27.36	47	24	2.5	
D220-A45	21.6	28.36	47	24	2.5	
D230-A45	22.6	29.36	47	24	2.5	
D240-A45	23.6	30.36	47	24	2.5	
D250-A45	24.6	31.36	47	24	2.5	

Spare parts

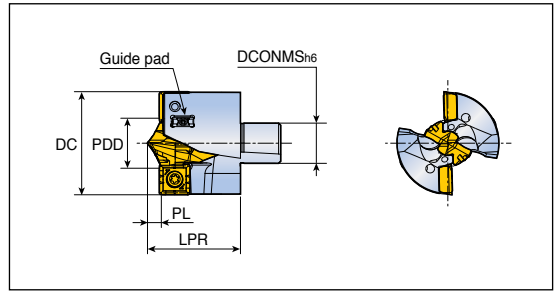
Designation	Insert screw	Wrench	Clamping screw	L-wrench
CFR D100 - D135	SO 25065I	TD 7	SH M3x0.5x10 (1)	L-W2.5
CFR D140 - D150	SO 25065I	TD 7	SH M4x0.7x12 (2)	L-W3
CFR D160 - D250	SO 25065I	TD 7	SH M5x0.8x16 (3)	L-W4

Technical Data D244

• (1) Clamping torque: 2-3 [N•m] (2) Clamping torque: 3.5-4.5 [N•m] (3) Clamping torque: 5-6 [N•m]

TNDH-TP

Modular drill heads



Designation	Dimension (mm)					Clamping Key	Insert	
	DC	DCONMS	LPR	PL	PDD		Center	Outer
TNDH 2600-C26-TP	26	10.4	24.9	3.98	15.9	K TCD D15-D16 CO	TCD-159-P-CO+	SPGX 06...DW
2700-C26-TP	27	10.4	25.4	4.14	16.9	K TCD D15-D16 CO	TCD-169-P-CO+	SPGX 06...DW
2800-C28-TP	28	11.2	26.9	4.29	17.9	K TCD D17-D19 CO	TCD-179-P-CO+	SPGX 06...DW
2900-C28-TP	29	11.2	26.6	3.97	15.9	K TCD D15-D16 CO	TCD-159-P-CO+	SPGX 07...DW
3000-C30-TP	30	12.0	28.3	4.14	16.9	K TCD D15-D16 CO	TCD-169-P-CO+	SPGX 07...DW
3100-C30-TP	31	12.0	28.5	4.30	17.9	K TCD D17-D19 CO	TCD-179-P-CO+	SPGX 07...DW
3200-C32-TP	32	12.8	30.3	4.46	18.9	K TCD D17-D19 CO	TCD-189-P-CO+	SPGX 07...DW
3300-C32-TP	33	12.8	29.8	3.97	15.9	K TCD D15-D16 CO	TCD-159-P-CO+	SPGX 09...DW
3400-C34-TP	34	13.6	31.6	4.14	16.9	K TCD D15-D16 CO	TCD-169-P-CO+	SPGX 09...DW
3500-C34-TP	35	13.6	31.8	4.30	17.9	K TCD D17-D19 CO	TCD-179-P-CO+	SPGX 09...DW
3600-C36-TP	36	14.4	33.5	4.46	18.9	K TCD D17-D19 CO	TCD-189-P-CO+	SPGX 09...DW
3700-C36-TP	37	14.4	33.3	4.14	16.9	K TCD D15-D16 CO	TCD-169-P-CO+	SPGX 11...DW
3800-C38-TP	38	15.2	35.0	4.30	17.9	K TCD D17-D19 CO	TCD-179-P-CO+	SPGX 11...DW
3900-C38-TP	39	15.2	35.2	4.46	18.9	K TCD D17-D19 CO	TCD-189-P-CO+	SPGX 11...DW
4000-C40-TP	40	16.0	36.9	4.62	19.9	K TCD D17-D19 CO	TCD-199-P-CO+	SPGX 11...DW
4100-C40-TP	41	16.0	37.1	4.78	20.9	K TCD D20-D21 CO	TCD-209-P-CO+	SPGX 11...DW
4200-C42-TP	42	16.8	38.9	4.95	21.9	K TCD D20-D21 CO	TCD-219-P-CO+	SPGX 11...DW
4300-C42-TP	43	16.8	38.9	5.11	22.9	K TCD D22-D23 CO	TCD-229-P-CO+	SPGX 11...DW
								D173

- DCONMS : Holder connection size
- Guide pad is sold separately from drill head

Spare parts

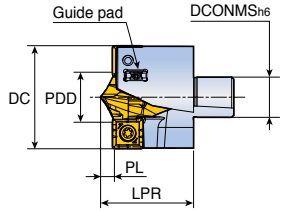
Designation	For double pitch screw		For SPGX		For Guide pad	
	Screw1	Wrench1	Screw2	Wrench2	Screw3	Wrench3
						
TNDH 2600-2800	TDPS 0512-T7	TD 7	TS 22052I/HG	TD 7	TS 20043I/HG-P	TD 6P
TNDH 2900-3200	TDPS 0512-T7	TD 7	TS 25064I	TD 8	TS 20043I/HG-P	TD 6P
TNDH 3300-3500	TDPS 0512-T7	TD 7	TS 35088I	TD 10	TS 20043I/HG-P	TD 6P
TNDH 3600	TDPS 0618-T8	TD 8	TS 35088I	TD 10	TS 20043I/HG-P	TD 6P
TNDH 3700-4300	TDPS 0618-T8	TD 8	TS 40093I	TD 15	TS 20043I/HG-P	TD 6P

D173 | Guide Pad D191 | Cutting Condition D206 | Technical Data D248

ADVANCE CUTTING TaeguTec

TNDH-TP

Modular drill heads



Designation		Dimension (mm)					Clamping Key	Insert	
		DC	DCONMS	LPR	PL	PDD		Center	Outer
TNDH	**4400-C44-TP**	44	17.6	40.8	5.28	23.9	K TCD D22-D23 CO	TCD-239-P-CO+	SPGX 11...DW
	4500-C44-TP	45	17.6	41.0	5.44	24.9	K TCD D24-D25 CO	TCD-249-P-CO+	SPGX 11...DW
	4600-C46-TP	46	18.4	42.2	4.95	21.9	K TCD D20-D21 CO	TCD-219-P-CO+	SPGX 14...DW
	4700-C46-TP	47	18.4	42.3	5.11	22.9	K TCD D22-D23 CO	TCD-229-P-CO+	SPGX 14...DW
	4800-C48-TP	48	19.2	44.0	5.28	23.9	K TCD D22-D23 CO	TCD-239-P-CO+	SPGX 14...DW
	4900-C48-TP	49	19.2	44.3	5.44	24.9	K TCD D24-D25 CO	TCD-249-P-CO+	SPGX 14...DW
	5000-C48-TP	50	19.2	46.0	5.61	25.9	K TCD D24-D25 CO	TCD-259-P-CO+	SPGX 14...DW
									D173

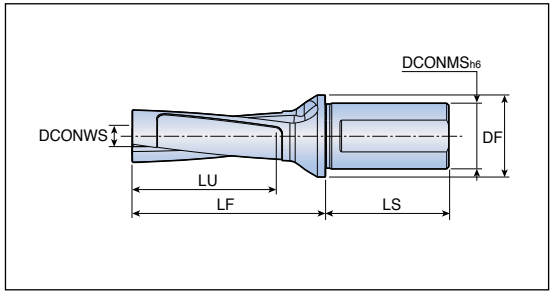
- DCONMS : Holder connection size
- Guide pad is sold separately from drill head

Spare parts

Designation	For double pitch screw		For SPGX		For Guide pad	
	Screw1	Wrench1	Screw2	Wrench2	Screw3	Wrench3
						
TNDH 4400-4500	TDPS 0722-W3.0	F-W3.0	TS 40093I	TD 15	TS 20043I/HG-P	TD 6P
TNDH 4600-5000	TDPS 0722-W3.0	F-W3.0	SO 50090I	TD 20	TS 20043I/HG-P	TD 6P

D173 Guide Pad D191 Cutting Condition D206 Technical Data D248

Modular drill holders - Weldon type shank



• Drilling depth: 3xdiameter

Designation		Dimension (mm)						
		DC	DCONWS	DCONMS	DF	LU	LF	LS
MDB	D26/27-081-32T2-C26-3	26-27	10.4	32	40	60	94.3	60
	D28/29-087-32T2-C28-3	28-29	11.2	32	40	64	100.5	60
	D30/31-093-32T2-C30-3	30-31	12.0	32	40	69	105.5	60
	D32/33-099-32T2-C32-3	32-33	12.8	32	40	73	111.7	60
	D34/35-105-40T2-C34-3	34-35	13.6	40	50	78	120.2	68
	D36/37-111-40T2-C36-3	36-37	14.4	40	50	82	126.5	68
	D38/39-117-40T2-C38-3	38-39	15.2	40	50	86	131.4	68
	D40/41-123-40T2-C40-3	40-41	16.0	40	50	91	137.6	68
	D42/43-129-40T2-C42-3	42-43	16.8	40	50	95	143.8	68
	D44/45-135-40T2-C44-3	44-45	17.6	40	50	99	150.0	68
	D46/47-141-50T2-C46-3	46-47	18.4	50	60	104	154.5	80
	D48/50-150-50T2-C48-3	48-50	19.2	50	60	111	160.9	80

• DC : Cutting diameter range
• DCONWS : Modular head connection size

Spare parts

Designation	Wrench	Wrench handle		
				
MDB D26/27-D34/35-3	BLD H-W2.5x210	SW6-T-SH		
MDB D36/37-D42/43-3	BLD H-W3.0x225	SW6-T-SH		
MDB D44/45-D48/50-3	BLD H-W4.0x255	SW6-T-SH		

• Wrench: Disassemble the modular head from the modular body (Insert from the rear shank)

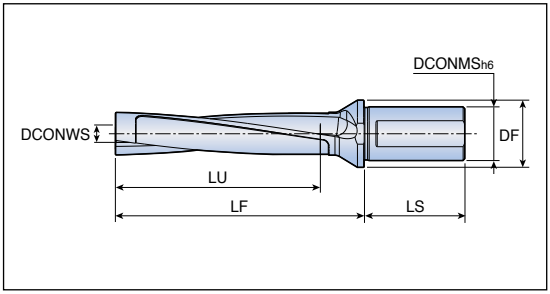
D62 Cutting Condition D206 Technical Data D248

ADVANCE CUTTING TaeguTec

MDB...T2-5

MODURDRILL

Modular drill holders - Weldon type shank



• Drilling depth: 5xdiameter

Designation		Dimension (mm)						
		DC	DCONWS	DCONMS	DF	LU	LF	LS
MDB	D26/27-135-32T2-C26-5	26-27	10.4	32	40	114	148.3	60
	D28/29-145-32T2-C28-5	28-29	11.2	32	40	122	158.5	60
	D30/31-155-32T2-C30-5	30-31	12.0	32	40	131	167.5	60
	D32/33-165-32T2-C32-5	32-33	12.8	32	40	139	177.7	60
	D34/35-175-40T2-C34-5	34-35	13.6	40	50	148	190.2	68
	D36/37-185-40T2-C36-5	36-37	14.4	40	50	156	200.5	68
	D38/39-195-40T2-C38-5	38-39	15.2	40	50	164	209.4	68
	D40/41-205-40T2-C40-5	40-41	16.0	40	50	173	219.6	68
	D42/43-215-40T2-C42-5	42-43	16.8	40	50	181	229.8	68
	D44/45-225-40T2-C44-5	44-45	17.6	40	50	189	240.0	68
	D46/47-235-50T2-C46-5	46-47	18.4	50	60	198	248.5	80
	D48/50-250-50T2-C48-5	48-50	19.2	50	60	211	258.9	80

• DC : Cutting diameter range
• DCONWS : Modular head connection size

Spare parts

Designation	Wrench	Wrench handle		
				
MDB D26/27-D34/35-5	BLD H-W2.5x280	SW6-T-SH		
MDB D36/37-D42/43-5	BLD H-W3.0x310	SW6-T-SH		
MDB D44/45-D48/50-5	BLD H-W4.0x350	SW6-T-SH		

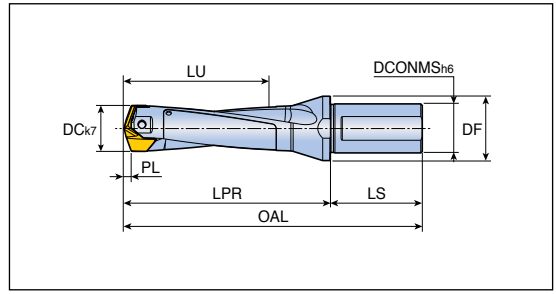
• Wrench: Disassemble the modular head from the modular body (Insert from the rear shank)

LCD...T2-3D

SPADERUSH

Head changeable drill holders - Weldon type shank

• Drilling depth: 3xdiameter



Designation	Dimension (mm)							
	DC	DCONMS	DF	LU	LPR	LS	PL	SSC
LCD 200-209-25T2-3D	20.0-20.9	25	32	63	92.1	56	3.11	20
210-219-25T2-3D	21.0-21.9	25	32	66	95.3	56	3.29	21
220-229-25T2-3D	22.0-22.9	25	32	69	98.4	56	3.42	22
230-239-25T2-3D	23.0-23.9	25	32	73	101.6	56	3.60	23
240-249-32T2-3D	24.0-24.9	32	40	76	110.7	60	3.73	24
250-259-32T2-3D	25.0-25.9	32	40	79	113.9	60	3.91	25
260-269-32T2-3D	26.0-26.9	32	40	82	117.0	60	4.04	26
270-279-32T2-3D	27.0-27.9	32	40	85	120.2	60	4.22	27
280-289-32T2-3D	28.0-28.9	32	40	88	128.4	60	4.35	28
290-299-32T2-3D	29.0-29.9	32	40	92	131.5	60	4.53	29
300-309-32T2-3D	30.0-30.9	32	42	95	134.7	60	4.67	30
310-319-32T2-3D	31.0-31.9	32	42	98	137.9	60	4.85	31
320-329-40T2-3D	32.0-32.9	40	48	101	143.0	68	4.98	32
330-339-40T2-3D	33.0-33.9	40	48	104	146.2	68	5.16	33
340-349-40T2-3D	34.0-34.9	40	48	107	149.3	68	5.34	34
350-359-40T2-3D	35.0-35.9	40	48	110	152.4	68	5.44	35
360-369-40T2-3D	36.0-36.9	40	48	114	155.6	68	5.62	36
370-379-40T2-3D	37.0-37.9	40	48	117	158.8	68	5.80	37
380-389-40T2-3D	38.0-38.9	40	50	120	166.9	68	5.91	38
390-399-40T2-3D	39.0-39.9	40	50	123	170.1	68	6.09	39
400-410-40T2-3D	40.0-41.0	40	50	126	173.3	68	6.27	40

• OAL = LPR+LS • SSC: Seat size code

Spare parts

Designation	Screw	Wrench	Wrench handle	
				
LCD 200-219-3D	TS 40178D25	BLD T20/S7	SW6-T-SH	
LCD 220-239-3D	TS 40198D28	BLD T20/S7	SW6-T-SH	
LCD 240-259-3D	TS 40210D3	BLD T20/S7	SW6-T-SH	
LCD 260-279-3D	TS 50230D3	BLD T20/S7	SW6-T-SH	
LCD 280-299-3D	TS 50250D35	BLD T25/S7	SW6-T-SH	
LCD 300-319-3D	TS 60265D4	BLD T25/S7	SW6-T-SH	
LCD 320-349-3D	TS 60285D42	BLD T25/S7	SW6-T-SH	
LCD 350-379-3D	TS 60320D5	BLD T25/S7	SW6-T-SH	
LCD 380-410-3D	TS 80340D6	BLD T25/S7	SW6-T-SH	

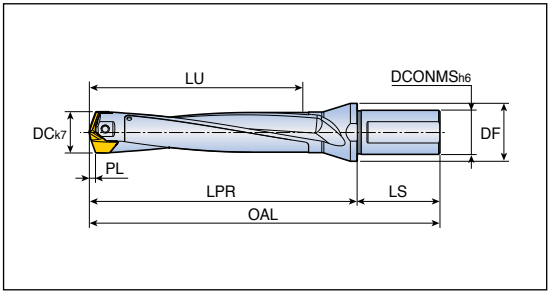
ADVANCE CUTTING TaeguTec

LCD...T2-5D

SPADERUSH

Head changeable drill holders - Weldon type shank

• Drilling depth: 5xdiameter



Designation	Dimension (mm)							
	DC	DCONMS	DF	LU	LPR	LS	PL	SSC
LCD 200-209-25T2-5D	20.0-20.9	25	32	103	132.1	56	3.11	20
210-219-25T2-5D	21.0-21.9	25	32	108	137.3	56	3.29	21
220-229-25T2-5D	22.0-22.9	25	32	113	142.4	56	3.42	22
230-239-25T2-5D	23.0-23.9	25	32	119	147.6	56	3.60	23
240-249-32T2-5D	24.0-24.9	32	40	124	158.7	60	3.73	24
250-259-32T2-5D	25.0-25.9	32	40	129	163.9	60	3.91	25
260-269-32T2-5D	26.0-26.9	32	40	134	169.0	60	4.04	26
270-279-32T2-5D	27.0-27.9	32	40	139	174.2	60	4.22	27
280-289-32T2-5D	28.0-28.9	32	40	144	184.4	60	4.35	28
290-299-32T2-5D	29.0-29.9	32	40	150	189.5	60	4.53	29
300-309-32T2-5D	30.0-30.9	32	42	155	194.7	60	4.67	30
310-319-32T2-5D	31.0-31.9	32	42	160	199.9	60	4.85	31
320-329-40T2-5D	32.0-32.9	40	48	165	207.0	68	4.98	32
330-339-40T2-5D	33.0-33.9	40	48	170	212.2	68	5.16	33
340-349-40T2-5D	34.0-34.9	40	48	175	217.3	68	5.34	34
350-359-40T2-5D	35.0-35.9	40	48	180	222.4	68	5.44	35
360-369-40T2-5D	36.0-36.9	40	48	186	227.6	68	5.62	36
370-379-40T2-5D	37.0-37.9	40	48	191	232.8	68	5.80	37
380-389-40T2-5D	38.0-38.9	40	50	196	242.9	68	5.91	38
390-399-40T2-5D	39.0-39.9	40	50	201	248.1	68	6.09	39
400-410-40T2-5D	40.0-41.0	40	50	206	253.3	68	6.27	40

• OAL = LPR+LS • SSC: Seat size code

Spare parts

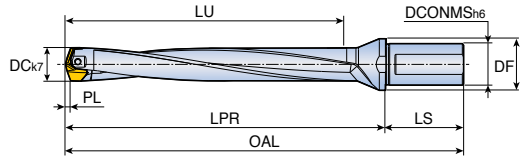
Designation	Screw	Wrench	Wrench handle	
				
LCD 200-219-5D	TS 40178D25	BLD T20/S7	SW6-T-SH	
LCD 220-239-5D	TS 40198D28	BLD T20/S7	SW6-T-SH	
LCD 240-259-5D	TS 40210D3	BLD T20/S7	SW6-T-SH	
LCD 260-279-5D	TS 50230D3	BLD T20/S7	SW6-T-SH	
LCD 280-299-5D	TS 50250D35	BLD T25/S7	SW6-T-SH	
LCD 300-319-5D	TS 60265D4	BLD T25/S7	SW6-T-SH	
LCD 320-349-5D	TS 60285D42	BLD T25/S7	SW6-T-SH	
LCD 350-379-5D	TS 60320D5	BLD T25/S7	SW6-T-SH	
LCD 380-410-5D	TS 80340D6	BLD T25/S7	SW6-T-SH	

TaeguTec

LCD...T2-8D

SPADERUSH

Head changeable drill holders - Weldon type shank



• Drilling depth: 8xdiameter

Designation	Dimension (mm)							
	DC	DCONMS	DF	LU	LPR	LS	PL	SSC
LCD 200-209-25T2-8D	20.0-20.9	25	32	163.1	192.1	56	3.11	20
210-219-25T2-8D	21.0-21.9	25	32	171.3	200.1	56	3.29	21
220-229-25T2-8D	22.0-22.9	25	32	179.4	208.4	56	3.42	22
230-239-25T2-8D	23.0-23.9	25	32	187.6	216.4	56	3.60	23
240-249-32T2-8D	24.0-24.9	32	40	195.7	230.7	60	3.73	24
250-259-32T2-8D	25.0-25.9	32	40	203.9	238.7	60	3.91	25
260-269-32T2-8D	26.0-26.9	32	40	212.0	247.0	60	4.04	26
270-279-32T2-8D	27.0-27.9	32	40	220.2	255.0	60	4.22	27
280-289-32T2-8D	28.0-28.9	32	40	228.4	268.4	60	4.35	28
290-299-32T2-8D	29.0-29.9	32	40	236.5	276.4	60	4.53	29
300-309-32T2-8D	30.0-30.9	32	42	244.7	284.7	60	4.67	30
310-319-32T2-8D	31.0-31.9	32	42	252.9	292.7	60	4.85	31
320-329-40T2-8D	32.0-32.9	40	48	261.0	303.0	68	4.98	32
330-339-40T2-8D	33.0-33.9	40	48	269.2	311.0	68	5.16	33
340-349-40T2-8D	34.0-34.9	40	48	277.3	319.0	68	5.34	34
350-359-40T2-8D	35.0-35.9	40	48	285.4	327.4	68	5.44	35
360-369-40T2-8D	36.0-36.9	40	48	293.6	335.4	68	5.62	36
370-379-40T2-8D	37.0-37.9	40	48	301.8	343.4	68	5.80	37
380-389-40T2-8D	38.0-38.9	40	50	309.9	356.9	68	5.91	38
390-399-40T2-8D	39.0-39.9	40	50	318.1	364.9	68	6.09	39
400-410-40T2-8D	40.0-41.0	40	50	326.3	372.9	68	6.27	40

• OAL = LPR+LS • SSC: Seat size code • It is recommended to make the pilot hole with a 3D holder

Spare parts

Designation	Screw	Wrench	Wrench handle	
LCD 200-219-8D	TS 40178D25	BLD T20/S7	SW6-T-SH	
LCD 220-239-8D	TS 40198D28	BLD T20/S7	SW6-T-SH	
LCD 240-259-8D	TS 40210D3	BLD T20/S7	SW6-T-SH	
LCD 260-279-8D	TS 50230D3	BLD T20/S7	SW6-T-SH	
LCD 280-299-8D	TS 50250D35	BLD T25/S7	SW6-T-SH	
LCD 300-319-8D	TS 60265D4	BLD T25/S7	SW6-T-SH	
LCD 320-349-8D	TS 60285D42	BLD T25/S7	SW6-T-SH	
LCD 350-379-8D	TS 60320D5	BLD T25/S7	SW6-T-SH	
LCD 380-410-8D	TS 80340D6	BLD T25/S7	SW6-T-SH	

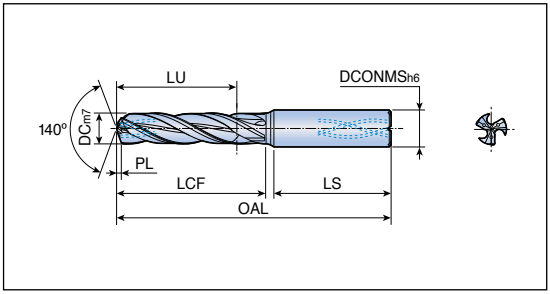
D174 Cutting Condition D208

ADVANCE CUTTING TaeguTec

3HD...PI3

SOLID3DRILL

3 flute solid carbide drills with oil holes



• Drilling depth: 3xdiameter

Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	LS	PL	TT5130
3HD 040-017-06 PI3	4.0	6.0	66	17	25	35	0.82	●
045-017-06 PI3	4.5	6.0	66	17	25	35	0.88	●
050-020-06 PI3	5.0	6.0	66	20	29	36	0.96	●
051-020-06 PI3	5.1	6.0	66	20	29	36	0.98	●
055-020-06 PI3	5.5	6.0	66	20	29	36	1.08	●
060-020-06 PI3	6.0	6.0	66	20	29	36	1.17	●
065-024-08 PI3	6.5	8.0	79	24	35	36	1.26	●
068-024-08 PI3	6.8	8.0	79	24	35	36	1.31	●
070-024-08 PI3	7.0	8.0	79	24	35	36	1.35	●
075-029-08 PI3	7.5	8.0	79	29	42	36	1.40	●
080-029-08 PI3	8.0	8.0	79	29	42	36	1.49	●
085-035-10 PI3	8.5	10.0	89	35	48	40	1.63	●
086-035-10 PI3	8.6	10.0	89	35	48	40	1.65	●
090-035-10 PI3	9.0	10.0	89	35	48	40	1.72	●
095-035-10 PI3	9.5	10.0	89	35	48	40	1.75	●
100-035-10 PI3	10.0	10.0	89	35	48	40	1.85	●
103-040-12 PI3	10.3	12.0	102	40	55	45	1.94	●
105-040-12 PI3	10.5	12.0	102	40	55	45	1.98	●
110-040-12 PI3	11.0	12.0	102	40	55	45	2.07	●
115-040-12 PI3	11.5	12.0	102	40	56	45	2.12	●
120-040-12 PI3	12.0	12.0	102	40	56	45	2.21	●

Cutting Condition D210

●: Standard items

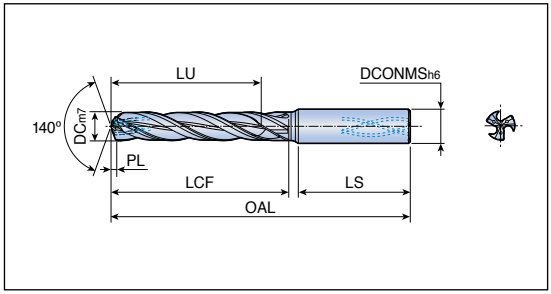
TaeguTec

3HD...PI5

SOLID3DRILL

3 flute solid carbide drills with oil holes

• Drilling depth: 5xdiameter



Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	LS	PL	TT5130
3HD 040-029-06 PI5	4.0	6.0	74	29	37	35	0.82	●
045-029-06 PI5	4.5	6.0	74	29	37	35	0.88	●
050-035-06 PI5	5.0	6.0	82	35	45	36	0.96	●
051-035-06 PI5	5.1	6.0	82	35	45	36	0.98	●
055-035-06 PI5	5.5	6.0	82	35	45	36	1.08	●
060-035-06 PI5	6.0	6.0	82	35	45	36	1.17	●
065-043-08 PI5	6.5	8.0	91	43	54	36	1.26	●
068-043-08 PI5	6.8	8.0	91	43	54	36	1.31	●
070-043-08 PI5	7.0	8.0	91	43	54	36	1.35	●
075-043-08 PI5	7.5	8.0	91	43	54	36	1.40	●
080-043-08 PI5	8.0	8.0	91	43	54	36	1.49	●
085-049-10 PI5	8.5	10.0	103	49	62	40	1.63	●
086-049-10 PI5	8.6	10.0	103	49	62	40	1.65	●
090-049-10 PI5	9.0	10.0	103	49	62	40	1.72	●
095-049-10 PI5	9.5	10.0	103	49	62	40	1.75	●
100-049-10 PI5	10.0	10.0	103	49	62	40	1.85	●
103-056-12 PI5	10.3	12.0	118	56	71	45	1.94	●
105-056-12 PI5	10.5	12.0	118	56	71	45	1.98	●
110-056-12 PI5	11.0	12.0	118	56	71	45	2.07	●
115-056-12 PI5	11.5	12.0	118	56	72	45	2.12	●
120-056-12 PI5	12.0	12.0	118	56	72	45	2.21	●

Cutting Condition D210

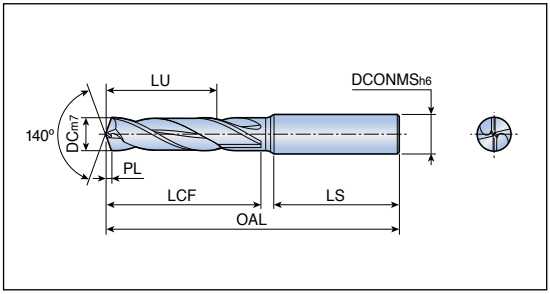
●: Standard items

ADVANCE CUTTING TaeguTec

NHD...PE3

Solid carbide drills without oil holes

• Drilling depth: 3xdiameter



Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	LS	PL	TT9030
NHD 030-014-06 PE3	3.0	6.0	62	14	21	34	0.5	●
031-014-06 PE3	3.1	6.0	62	14	21	34	0.5	●
032-014-06 PE3	3.2	6.0	62	14	21	34	0.5	●
033-014-06 PE3	3.3	6.0	62	14	21	34	0.5	●
034-014-06 PE3	3.4	6.0	62	14	21	34	0.5	●
035-014-06 PE3	3.5	6.0	62	14	21	34	0.6	●
036-014-06 PE3	3.6	6.0	62	14	21	34	0.6	●
037-014-06 PE3	3.7	6.0	62	14	21	34	0.6	●
038-017-06 PE3	3.8	6.0	66	17	25	35	0.6	●
039-017-06 PE3	3.9	6.0	66	17	25	35	0.6	●
040-017-06 PE3	4.0	6.0	66	17	25	35	0.6	●
041-017-06 PE3	4.1	6.0	66	17	25	35	0.7	●
042-017-06 PE3	4.2	6.0	66	17	25	35	0.7	●
043-017-06 PE3	4.3	6.0	66	17	25	35	0.7	●
044-017-06 PE3	4.4	6.0	66	17	25	35	0.7	●
045-017-06 PE3	4.5	6.0	66	17	25	35	0.7	●
046-017-06 PE3	4.6	6.0	66	17	25	35	0.7	●
047-017-06 PE3	4.7	6.0	66	17	25	35	0.8	●
048-020-06 PE3	4.8	6.0	66	20	29	36	0.8	●
049-020-06 PE3	4.9	6.0	66	20	29	36	0.8	●
050-020-06 PE3	5.0	6.0	66	20	29	36	0.8	●
051-020-06 PE3	5.1	6.0	66	20	29	36	0.8	●
052-020-06 PE3	5.2	6.0	66	20	29	36	0.8	●
053-020-06 PE3	5.3	6.0	66	20	29	36	0.8	●
054-020-06 PE3	5.4	6.0	66	20	29	36	0.8	●
055-020-06 PE3	5.5	6.0	66	20	29	36	0.9	●
056-020-06 PE3	5.6	6.0	66	20	29	36	0.9	●
057-020-06 PE3	5.7	6.0	66	20	29	36	0.9	●
058-020-06 PE3	5.8	6.0	66	20	29	36	0.9	●
059-020-06 PE3	5.9	6.0	66	20	29	36	0.9	●
060-020-06 PE3	6.0	6.0	66	20	29	36	0.9	●
061-024-08 PE3	6.1	8.0	79	24	35	36	1.0	●
062-024-08 PE3	6.2	8.0	79	24	35	36	1.0	●
063-024-08 PE3	6.3	8.0	79	24	35	36	1.0	●
064-024-08 PE3	6.4	8.0	79	24	35	36	1.0	●

Cutting Condition D212

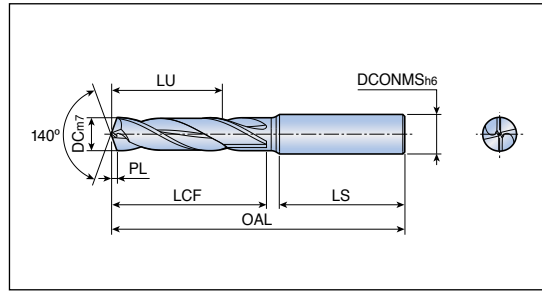
●: Standard items

NHD...PE3

HDRILL

Solid carbide drills without oil holes

• Drilling depth: 3xdiameter



Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	LS	PL	TT9030
NHD 065-024-08 PE3	6.5	8.0	79	24	35	36	1.0	●
066-024-08 PE3	6.6	8.0	79	24	35	36	1.0	●
067-024-08 PE3	6.7	8.0	79	24	35	36	1.1	●
068-024-08 PE3	6.8	8.0	79	24	35	36	1.1	●
069-024-08 PE3	6.9	8.0	79	24	35	36	1.1	●
070-024-08 PE3	7.0	8.0	79	24	35	36	1.1	●
071-029-08 PE3	7.1	8.0	79	29	42	36	1.1	●
072-029-08 PE3	7.2	8.0	79	29	42	36	1.1	●
073-029-08 PE3	7.3	8.0	79	29	42	36	1.1	●
074-029-08 PE3	7.4	8.0	79	29	42	36	1.2	●
075-029-08 PE3	7.5	8.0	79	29	42	36	1.2	●
076-029-08 PE3	7.6	8.0	79	29	42	36	1.2	●
077-029-08 PE3	7.7	8.0	79	29	42	36	1.2	●
078-029-08 PE3	7.8	8.0	79	29	42	36	1.2	●
079-029-08 PE3	7.9	8.0	79	29	42	36	1.3	●
080-029-08 PE3	8.0	8.0	79	29	42	36	1.3	●
081-035-10 PE3	8.1	10.0	89	35	48	40	1.3	●
082-035-10 PE3	8.2	10.0	89	35	48	40	1.3	●
083-035-10 PE3	8.3	10.0	89	35	48	40	1.3	●
084-035-10 PE3	8.4	10.0	89	35	48	40	1.3	●
085-035-10 PE3	8.5	10.0	89	35	48	40	1.3	●
086-035-10 PE3	8.6	10.0	89	35	48	40	1.4	●
087-035-10 PE3	8.7	10.0	89	35	48	40	1.4	●
088-035-10 PE3	8.8	10.0	89	35	48	40	1.4	●
089-035-10 PE3	8.9	10.0	89	35	48	40	1.4	●
090-035-10 PE3	9.0	10.0	89	35	48	40	1.4	●
091-035-10 PE3	9.1	10.0	89	35	48	40	1.4	●
092-035-10 PE3	9.2	10.0	89	35	48	40	1.4	●
093-035-10 PE3	9.3	10.0	89	35	48	40	1.5	●
094-035-10 PE3	9.4	10.0	89	35	48	40	1.5	●
095-035-10 PE3	9.5	10.0	89	35	48	40	1.5	●
096-035-10 PE3	9.6	10.0	89	35	48	40	1.5	●
097-035-10 PE3	9.7	10.0	89	35	48	40	1.5	●
098-035-10 PE3	9.8	10.0	89	35	48	40	1.6	●
099-035-10 PE3	9.9	10.0	89	35	48	40	1.6	●

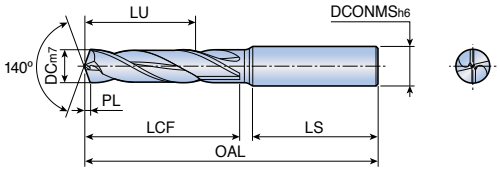
●: Standard items

Cutting Condition
D212

NHD...PE3

HDRILL

Solid carbide drills without oil holes



• Drilling depth: 3xdiameter

Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	LS	PL	TT9030
NHD 100-035-10 PE3	10.0	10.0	89	35	48	40	1.6	●
101-040-12 PE3	10.1	12.0	101	40	54	45	1.6	●
102-040-12 PE3	10.2	12.0	101	40	54	45	1.6	●
103-040-12 PE3	10.3	12.0	101	40	54	45	1.6	●
104-040-12 PE3	10.4	12.0	101	40	54	45	1.6	●
105-040-12 PE3	10.5	12.0	101	40	54	45	1.6	●
106-040-12 PE3	10.6	12.0	101	40	54	45	1.7	●
107-040-12 PE3	10.7	12.0	101	40	54	45	1.7	●
108-040-12 PE3	10.8	12.0	101	40	54	45	1.7	●
109-040-12 PE3	10.9	12.0	101	40	54	45	1.7	●
110-040-12 PE3	11.0	12.0	101	40	54	45	1.7	●
111-040-12 PE3	11.1	12.0	101	40	55	45	1.7	●
112-040-12 PE3	11.2	12.0	101	40	55	45	1.8	●
113-040-12 PE3	11.3	12.0	101	40	55	45	1.8	●
114-040-12 PE3	11.4	12.0	101	40	55	45	1.8	●
115-040-12 PE3	11.5	12.0	101	40	55	45	1.8	●
116-040-12 PE3	11.6	12.0	101	40	55	45	1.8	●
117-040-12 PE3	11.7	12.0	101	40	55	45	1.9	●
118-040-12 PE3	11.8	12.0	101	40	55	45	1.9	●
119-040-12 PE3	11.9	12.0	101	40	55	45	1.9	●
120-040-12 PE3	12.0	12.0	101	40	55	45	1.9	●

Cutting Condition D212

●: Standard items

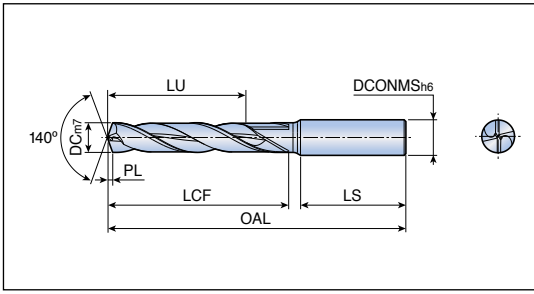
TaeguTec

NHD...PE5

HDRILL

Solid carbide drills without oil holes

• Drilling depth: 4-5xdiameter



Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	LS	PL	TT9030
NHD 030-023-06 PE5	3.0	6.0	66	23	29	34	0.5	●
031-023-06 PE5	3.1	6.0	66	23	29	34	0.5	●
032-023-06 PE5	3.2	6.0	66	23	29	34	0.5	●
033-023-06 PE5	3.3	6.0	66	23	29	34	0.5	●
034-023-06 PE5	3.4	6.0	66	23	29	34	0.5	●
035-023-06 PE5	3.5	6.0	66	23	29	34	0.6	●
036-023-06 PE5	3.6	6.0	66	23	29	34	0.6	●
037-023-06 PE5	3.7	6.0	66	23	29	34	0.6	●
038-029-06 PE5	3.8	6.0	74	29	37	35	0.6	●
039-029-06 PE5	3.9	6.0	74	29	37	35	0.6	●
040-029-06 PE5	4.0	6.0	74	29	37	35	0.6	●
041-029-06 PE5	4.1	6.0	74	29	37	35	0.7	●
042-029-06 PE5	4.2	6.0	74	29	37	35	0.7	●
043-029-06 PE5	4.3	6.0	74	29	37	35	0.7	●
044-029-06 PE5	4.4	6.0	74	29	37	35	0.7	●
045-029-06 PE5	4.5	6.0	74	29	37	35	0.7	●
046-029-06 PE5	4.6	6.0	74	29	37	35	0.7	●
047-029-06 PE5	4.7	6.0	74	29	37	35	0.8	●
048-035-06 PE5	4.8	6.0	82	35	45	36	0.8	●
049-035-06 PE5	4.9	6.0	82	35	45	36	0.8	●
050-035-06 PE5	5.0	6.0	82	35	45	36	0.8	●
051-035-06 PE5	5.1	6.0	82	35	45	36	0.8	●
052-035-06 PE5	5.2	6.0	82	35	45	36	0.8	●
053-035-06 PE5	5.3	6.0	82	35	45	36	0.8	●
054-035-06 PE5	5.4	6.0	82	35	45	36	0.8	●
055-035-06 PE5	5.5	6.0	82	35	45	36	0.9	●
056-035-06 PE5	5.6	6.0	82	35	45	36	0.9	●
057-035-06 PE5	5.7	6.0	82	35	45	36	0.9	●
058-035-06 PE5	5.8	6.0	82	35	45	36	0.9	●
059-035-06 PE5	5.9	6.0	82	35	45	36	0.9	●
060-035-06 PE5	6.0	6.0	82	35	45	36	0.9	●
061-043-08 PE5	6.1	8.0	91	43	54	36	1.0	●
062-043-08 PE5	6.2	8.0	91	43	54	36	1.0	●
063-043-08 PE5	6.3	8.0	91	43	54	36	1.0	●
064-043-08 PE5	6.4	8.0	91	43	54	36	1.0	●

●: Standard items

Cutting Condition D212

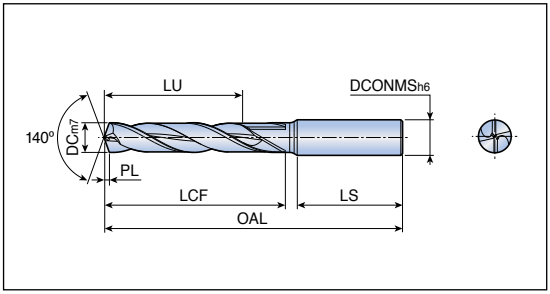
ADVANCE CUTTING TaeguTec

NHD...PE5

HDRILL

Solid carbide drills without oil holes

• Drilling depth: 4-5xdiameter



Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	LS	PL	TT9030
NHD 065-043-08 PE5	6.5	8.0	91	43	54	36	1.0	●
066-043-08 PE5	6.6	8.0	91	43	54	36	1.0	●
067-043-08 PE5	6.7	8.0	91	43	54	36	1.1	●
068-043-08 PE5	6.8	8.0	91	43	54	36	1.1	●
069-043-08 PE5	6.9	8.0	91	43	54	36	1.1	●
070-043-08 PE5	7.0	8.0	91	43	54	36	1.1	●
071-043-08 PE5	7.1	8.0	91	43	54	36	1.1	●
072-043-08 PE5	7.2	8.0	91	43	54	36	1.1	●
073-043-08 PE5	7.3	8.0	91	43	54	36	1.1	●
074-043-08 PE5	7.4	8.0	91	43	54	36	1.2	●
075-043-08 PE5	7.5	8.0	91	43	54	36	1.2	●
076-043-08 PE5	7.6	8.0	91	43	54	36	1.2	●
077-043-08 PE5	7.7	8.0	91	43	54	36	1.2	●
078-043-08 PE5	7.8	8.0	91	43	54	36	1.2	●
079-043-08 PE5	7.9	8.0	91	43	54	36	1.3	●
080-043-08 PE5	8.0	8.0	91	43	54	36	1.3	●
081-049-10 PE5	8.1	10.0	103	49	62	40	1.3	●
082-049-10 PE5	8.2	10.0	103	49	62	40	1.3	●
083-049-10 PE5	8.3	10.0	103	49	62	40	1.3	●
084-049-10 PE5	8.4	10.0	103	49	62	40	1.3	●
085-049-10 PE5	8.5	10.0	103	49	62	40	1.3	●
086-049-10 PE5	8.6	10.0	103	49	62	40	1.4	●
087-049-10 PE5	8.7	10.0	103	49	62	40	1.4	●
088-049-10 PE5	8.8	10.0	103	49	62	40	1.4	●
089-049-10 PE5	8.9	10.0	103	49	62	40	1.4	●
090-049-10 PE5	9.0	10.0	103	49	62	40	1.4	●
091-049-10 PE5	9.1	10.0	103	49	62	40	1.4	●
092-049-10 PE5	9.2	10.0	103	49	62	40	1.4	●
093-049-10 PE5	9.3	10.0	103	49	62	40	1.5	●
094-049-10 PE5	9.4	10.0	103	49	62	40	1.5	●
095-049-10 PE5	9.5	10.0	103	49	62	40	1.5	●
096-049-10 PE5	9.6	10.0	103	49	62	40	1.5	●
097-049-10 PE5	9.7	10.0	103	49	62	40	1.5	●
098-049-10 PE5	9.8	10.0	103	49	62	40	1.6	●
099-049-10 PE5	9.9	10.0	103	49	62	40	1.6	●

Cutting Condition D212

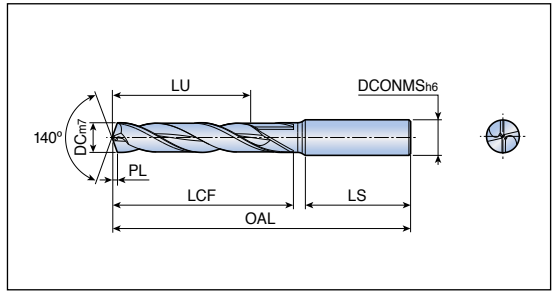
●: Standard items

NHD...PE5

HDRILL

Solid carbide drills without oil holes

• Drilling depth: 4-5xdiameter



Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	PL	LS	TT9030
NHD 100-049-10 PE5	10.0	10.0	103	49	62	1.6	40	●
101-056-12 PE5	10.1	12.0	118	56	71	1.6	45	●
102-056-12 PE5	10.2	12.0	118	56	71	1.6	45	●
103-056-12 PE5	10.3	12.0	118	56	71	1.6	45	●
104-056-12 PE5	10.4	12.0	118	56	71	1.6	45	●
105-056-12 PE5	10.5	12.0	118	56	71	1.6	45	●
106-056-12 PE5	10.6	12.0	118	56	71	1.7	45	●
107-056-12 PE5	10.7	12.0	118	56	71	1.7	45	●
108-056-12 PE5	10.8	12.0	118	56	71	1.7	45	●
109-056-12 PE5	10.9	12.0	118	56	71	1.7	45	●
110-056-12 PE5	11.0	12.0	118	56	71	1.7	45	●
111-056-12 PE5	11.1	12.0	118	56	72	1.7	45	●
112-056-12 PE5	11.2	12.0	118	56	72	1.8	45	●
113-056-12 PE5	11.3	12.0	118	56	72	1.8	45	●
114-056-12 PE5	11.4	12.0	118	56	72	1.8	45	●
115-056-12 PE5	11.5	12.0	118	56	72	1.8	45	●
116-056-12 PE5	11.6	12.0	118	56	72	1.8	45	●
117-056-12 PE5	11.7	12.0	118	56	72	1.9	45	●
118-056-12 PE5	11.8	12.0	118	56	72	1.9	45	●
119-056-12 PE5	11.9	12.0	118	56	72	1.9	45	●
120-056-12 PE5	12.0	12.0	118	56	72	1.9	45	●

●: Standard items

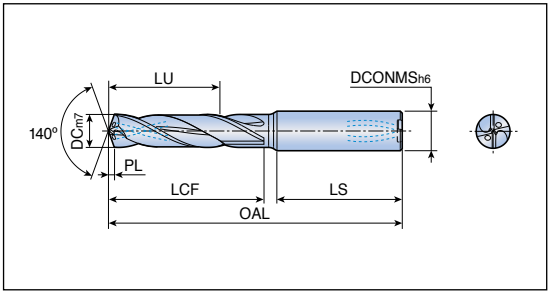
Cutting Condition D212

ADVANCE CUTTING TaeguTec

NHD...PI3

HDRILL

Solid carbide drills with oil holes



• Drilling depth: 3xdiameter

Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	LS	PL	TT9030
NHD 030-014-06 PI3	3.0	6.0	62	14	21	34	0.5	●
031-014-06 PI3	3.1	6.0	62	14	21	34	0.5	●
032-014-06 PI3	3.2	6.0	62	14	21	34	0.5	●
033-014-06 PI3	3.3	6.0	62	14	21	34	0.5	●
034-014-06 PI3	3.4	6.0	62	14	21	34	0.5	●
035-014-06 PI3	3.5	6.0	62	14	21	34	0.6	●
036-014-06 PI3	3.6	6.0	62	14	21	34	0.6	●
037-014-06 PI3	3.7	6.0	62	14	21	34	0.6	●
038-017-06 PI3	3.8	6.0	66	17	25	35	0.6	●
039-017-06 PI3	3.9	6.0	66	17	25	35	0.6	●
040-017-06 PI3	4.0	6.0	66	17	25	35	0.6	●
041-017-06 PI3	4.1	6.0	66	17	25	35	0.7	●
042-017-06 PI3	4.2	6.0	66	17	25	35	0.7	●
043-017-06 PI3	4.3	6.0	66	17	25	35	0.7	●
044-017-06 PI3	4.4	6.0	66	17	25	35	0.7	●
045-017-06 PI3	4.5	6.0	66	17	25	35	0.7	●
046-017-06 PI3	4.6	6.0	66	17	25	35	0.7	●
047-017-06 PI3	4.7	6.0	66	17	25	35	0.8	●
048-020-06 PI3	4.8	6.0	66	20	29	36	0.8	●
049-020-06 PI3	4.9	6.0	66	20	29	36	0.8	●
050-020-06 PI3	5.0	6.0	66	20	29	36	0.8	●
051-020-06 PI3	5.1	6.0	66	20	29	36	0.8	●
052-020-06 PI3	5.2	6.0	66	20	29	36	0.8	●
053-020-06 PI3	5.3	6.0	66	20	29	36	0.8	●
054-020-06 PI3	5.4	6.0	66	20	29	36	0.8	●
055-020-06 PI3	5.5	6.0	66	20	29	36	0.9	●
056-020-06 PI3	5.6	6.0	66	20	29	36	0.9	●
057-020-06 PI3	5.7	6.0	66	20	29	36	0.9	●
058-020-06 PI3	5.8	6.0	66	20	29	36	0.9	●
059-020-06 PI3	5.9	6.0	66	20	29	36	0.9	●
060-020-06 PI3	6.0	6.0	66	20	29	36	0.9	●
061-024-08 PI3	6.1	8.0	79	24	35	36	1.0	●
062-024-08 PI3	6.2	8.0	79	24	35	36	1.0	●
063-024-08 PI3	6.3	8.0	79	24	35	36	1.0	●
064-024-08 PI3	6.4	8.0	79	24	35	36	1.0	●

Cutting Condition D212

●: Standard items

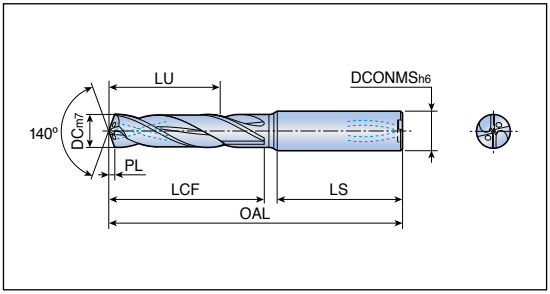
TaeguTec

NHD...PI3

HDRILL

Solid carbide drills with oil holes

• Drilling depth: 3xdiameter



Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	LS	PL	TT9030
NHD 065-024-08 PI3	6.5	8.0	79	24	35	36	1.0	●
066-024-08 PI3	6.6	8.0	79	24	35	36	1.0	●
067-024-08 PI3	6.7	8.0	79	24	35	36	1.1	●
068-024-08 PI3	6.8	8.0	79	24	35	36	1.1	●
069-024-08 PI3	6.9	8.0	79	24	35	36	1.1	●
070-024-08 PI3	7.0	8.0	79	24	35	36	1.1	●
071-029-08 PI3	7.1	8.0	79	29	42	36	1.1	●
072-029-08 PI3	7.2	8.0	79	29	42	36	1.1	●
073-029-08 PI3	7.3	8.0	79	29	42	36	1.1	●
074-029-08 PI3	7.4	8.0	79	29	42	36	1.2	●
075-029-08 PI3	7.5	8.0	79	29	42	36	1.2	●
076-029-08 PI3	7.6	8.0	79	29	42	36	1.2	●
077-029-08 PI3	7.7	8.0	79	29	42	36	1.2	●
078-029-08 PI3	7.8	8.0	79	29	42	36	1.2	●
079-029-08 PI3	7.9	8.0	79	29	42	36	1.3	●
080-029-08 PI3	8.0	8.0	79	29	42	36	1.3	●
081-035-10 PI3	8.1	10.0	89	35	48	40	1.3	●
082-035-10 PI3	8.2	10.0	89	35	48	40	1.3	●
083-035-10 PI3	8.3	10.0	89	35	48	40	1.3	●
084-035-10 PI3	8.4	10.0	89	35	48	40	1.3	●
085-035-10 PI3	8.5	10.0	89	35	48	40	1.3	●
086-035-10 PI3	8.6	10.0	89	35	48	40	1.4	●
087-035-10 PI3	8.7	10.0	89	35	48	40	1.4	●
088-035-10 PI3	8.8	10.0	89	35	48	40	1.4	●
089-035-10 PI3	8.9	10.0	89	35	48	40	1.4	●
090-035-10 PI3	9.0	10.0	89	35	48	40	1.4	●
091-035-10 PI3	9.1	10.0	89	35	48	40	1.4	●
092-035-10 PI3	9.2	10.0	89	35	48	40	1.4	●
093-035-10 PI3	9.3	10.0	89	35	48	40	1.5	●
094-035-10 PI3	9.4	10.0	89	35	48	40	1.5	●
095-035-10 PI3	9.5	10.0	89	35	48	40	1.5	●
096-035-10 PI3	9.6	10.0	89	35	48	40	1.5	●
097-035-10 PI3	9.7	10.0	89	35	48	40	1.5	●
098-035-10 PI3	9.8	10.0	89	35	48	40	1.6	●
099-035-10 PI3	9.9	10.0	89	35	48	40	1.6	●

●: Standard items

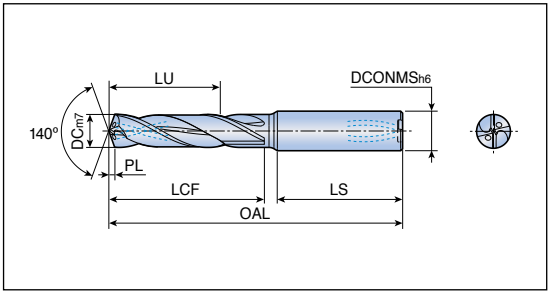
Cutting Condition D212

ADVANCE CUTTING TaeguTec

NHD...PI3

HDRILL

Solid carbide drills with oil holes



• Drilling depth: 3xdiameter

Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	LS	PL	TT9030
NHD 100-035-10 PI3	10.0	10.0	89	35	48	40	1.6	●
101-040-12 PI3	10.1	12.0	102	40	55	45	1.6	●
102-040-12 PI3	10.2	12.0	102	40	55	45	1.6	●
103-040-12 PI3	10.3	12.0	102	40	55	45	1.6	●
104-040-12 PI3	10.4	12.0	102	40	55	45	1.6	●
105-040-12 PI3	10.5	12.0	102	40	55	45	1.6	●
106-040-12 PI3	10.6	12.0	102	40	55	45	1.7	●
107-040-12 PI3	10.7	12.0	102	40	55	45	1.7	●
108-040-12 PI3	10.8	12.0	102	40	55	45	1.7	●
109-040-12 PI3	10.9	12.0	102	40	55	45	1.7	●
110-040-12 PI3	11.0	12.0	102	40	55	45	1.7	●
111-040-12 PI3	11.1	12.0	102	40	56	45	1.7	●
112-040-12 PI3	11.2	12.0	102	40	56	45	1.8	●
113-040-12 PI3	11.3	12.0	102	40	56	45	1.8	●
114-040-12 PI3	11.4	12.0	102	40	56	45	1.8	●
115-040-12 PI3	11.5	12.0	102	40	56	45	1.8	●
116-040-12 PI3	11.6	12.0	102	40	56	45	1.8	●
117-040-12 PI3	11.7	12.0	102	40	56	45	1.9	●
118-040-12 PI3	11.8	12.0	102	40	56	45	1.9	●
119-040-12 PI3	11.9	12.0	102	40	56	45	1.9	●
120-040-12 PI3	12.0	12.0	102	40	56	45	1.9	●

Cutting Condition D212

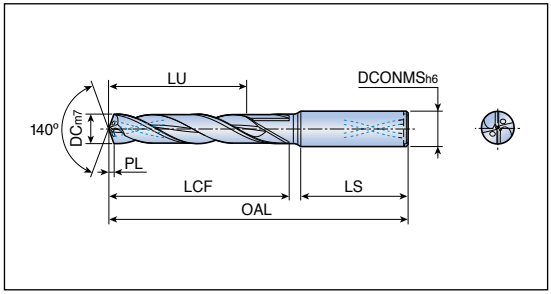
●: Standard items

TaeguTec

NHD...PI5

HDRILL

Solid carbide drills with oil holes



• Drilling depth: 4-5xdiameter

Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	LS	PL	TT9030
NHD 030-023-06 PI5	3.0	6.0	66	23	29	34	0.5	●
031-023-06 PI5	3.1	6.0	66	23	29	34	0.5	●
032-023-06 PI5	3.2	6.0	66	23	29	34	0.5	●
033-023-06 PI5	3.3	6.0	66	23	29	34	0.5	●
034-023-06 PI5	3.4	6.0	66	23	29	34	0.5	●
035-023-06 PI5	3.5	6.0	66	23	29	34	0.6	●
036-023-06 PI5	3.6	6.0	66	23	29	34	0.6	●
037-023-06 PI5	3.7	6.0	66	23	29	34	0.6	●
038-029-06 PI5	3.8	6.0	74	29	37	35	0.6	●
039-029-06 PI5	3.9	6.0	74	29	37	35	0.6	●
040-029-06 PI5	4.0	6.0	74	29	37	35	0.6	●
041-029-06 PI5	4.1	6.0	74	29	37	35	0.7	●
042-029-06 PI5	4.2	6.0	74	29	37	35	0.7	●
043-029-06 PI5	4.3	6.0	74	29	37	35	0.7	●
044-029-06 PI5	4.4	6.0	74	29	37	35	0.7	●
045-029-06 PI5	4.5	6.0	74	29	37	35	0.7	●
046-029-06 PI5	4.6	6.0	74	29	37	35	0.7	●
047-029-06 PI5	4.7	6.0	74	29	37	35	0.8	●
048-035-06 PI5	4.8	6.0	82	35	45	36	0.8	●
049-035-06 PI5	4.9	6.0	82	35	45	36	0.8	●
050-035-06 PI5	5.0	6.0	82	35	45	36	0.8	●
051-035-06 PI5	5.1	6.0	82	35	45	36	0.8	●
052-035-06 PI5	5.2	6.0	82	35	45	36	0.8	●
053-035-06 PI5	5.3	6.0	82	35	45	36	0.8	●
054-035-06 PI5	5.4	6.0	82	35	45	36	0.8	●
055-035-06 PI5	5.5	6.0	82	35	45	36	0.9	●
056-035-06 PI5	5.6	6.0	82	35	45	36	0.9	●
057-035-06 PI5	5.7	6.0	82	35	45	36	0.9	●
058-035-06 PI5	5.8	6.0	82	35	45	36	0.9	●
059-035-06 PI5	5.9	6.0	82	35	45	36	0.9	●
060-035-06 PI5	6.0	6.0	82	35	45	36	0.9	●
061-043-08 PI5	6.1	8.0	91	43	54	36	1.0	●
062-043-08 PI5	6.2	8.0	91	43	54	36	1.0	●
063-043-08 PI5	6.3	8.0	91	43	54	36	1.0	●
064-043-08 PI5	6.4	8.0	91	43	54	36	1.0	●

●: Standard items

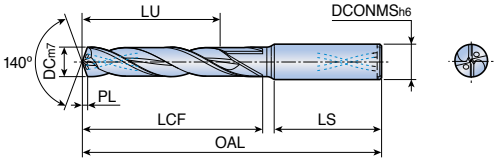
Cutting Condition
D212

ADVANCE CUTTING
TaeguTec

NHD...PI5

HDRILL

Solid carbide drills with oil holes



• Drilling depth: 4-5xdiameter

Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	LS	PL	TT9030
NHD 065-043-08 PI5	6.5	8.0	91	43	54	36	1.0	●
066-043-08 PI5	6.6	8.0	91	43	54	36	1.0	●
067-043-08 PI5	6.7	8.0	91	43	54	36	1.1	●
068-043-08 PI5	6.8	8.0	91	43	54	36	1.1	●
069-043-08 PI5	6.9	8.0	91	43	54	36	1.1	●
070-043-08 PI5	7.0	8.0	91	43	54	36	1.1	●
071-043-08 PI5	7.1	8.0	91	43	54	36	1.1	●
072-043-08 PI5	7.2	8.0	91	43	54	36	1.1	●
073-043-08 PI5	7.3	8.0	91	43	54	36	1.1	●
074-043-08 PI5	7.4	8.0	91	43	54	36	1.2	●
075-043-08 PI5	7.5	8.0	91	43	54	36	1.2	●
076-043-08 PI5	7.6	8.0	91	43	54	36	1.2	●
077-043-08 PI5	7.7	8.0	91	43	54	36	1.2	●
078-043-08 PI5	7.8	8.0	91	43	54	36	1.2	●
079-043-08 PI5	7.9	8.0	91	43	54	36	1.3	●
080-043-08 PI5	8.0	8.0	91	43	54	36	1.3	●
081-049-10 PI5	8.1	10.0	103	49	62	40	1.3	●
082-049-10 PI5	8.2	10.0	103	49	62	40	1.3	●
083-049-10 PI5	8.3	10.0	103	49	62	40	1.3	●
084-049-10 PI5	8.4	10.0	103	49	62	40	1.3	●
085-049-10 PI5	8.5	10.0	103	49	62	40	1.3	●
086-049-10 PI5	8.6	10.0	103	49	62	40	1.4	●
087-049-10 PI5	8.7	10.0	103	49	62	40	1.4	●
088-049-10 PI5	8.8	10.0	103	49	62	40	1.4	●
089-049-10 PI5	8.9	10.0	103	49	62	40	1.4	●
090-049-10 PI5	9.0	10.0	103	49	62	40	1.4	●
091-049-10 PI5	9.1	10.0	103	49	62	40	1.4	●
092-049-10 PI5	9.2	10.0	103	49	62	40	1.4	●
093-049-10 PI5	9.3	10.0	103	49	62	40	1.5	●
094-049-10 PI5	9.4	10.0	103	49	62	40	1.5	●
095-049-10 PI5	9.5	10.0	103	49	62	40	1.5	●
096-049-10 PI5	9.6	10.0	103	49	62	40	1.5	●
097-049-10 PI5	9.7	10.0	103	49	62	40	1.5	●
098-049-10 PI5	9.8	10.0	103	49	62	40	1.6	●
099-049-10 PI5	9.9	10.0	103	49	62	40	1.6	●

Cutting Condition D212

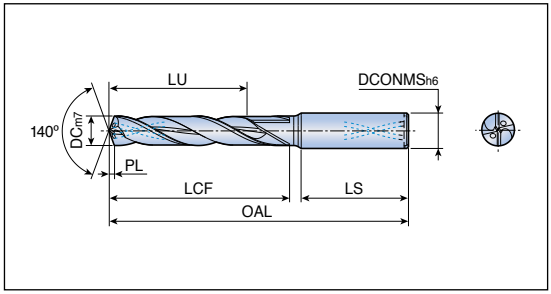
●: Standard items

TaeguTec

NHD...PI5

HDRILL

Solid carbide drills with oil holes



• Drilling depth: 4-5xdiameter

Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	LS	PL	TT9030
NHD 100-049-10 PI5	10.0	10.0	103	49	62	40	1.6	●
101-056-12 PI5	10.1	12.0	118	56	71	45	1.6	●
102-056-12 PI5	10.2	12.0	118	56	71	45	1.6	●
103-056-12 PI5	10.3	12.0	118	56	71	45	1.6	●
104-056-12 PI5	10.4	12.0	118	56	71	45	1.6	●
105-056-12 PI5	10.5	12.0	118	56	71	45	1.6	●
106-056-12 PI5	10.6	12.0	118	56	71	45	1.7	●
107-056-12 PI5	10.7	12.0	118	56	71	45	1.7	●
108-056-12 PI5	10.8	12.0	118	56	71	45	1.7	●
109-056-12 PI5	10.9	12.0	118	56	71	45	1.7	●
110-056-12 PI5	11.0	12.0	118	56	71	45	1.7	●
111-056-12 PI5	11.1	12.0	118	56	72	45	1.7	●
112-056-12 PI5	11.2	12.0	118	56	72	45	1.8	●
113-056-12 PI5	11.3	12.0	118	56	72	45	1.8	●
114-056-12 PI5	11.4	12.0	118	56	72	45	1.8	●
115-056-12 PI5	11.5	12.0	118	56	72	45	1.8	●
116-056-12 PI5	11.6	12.0	118	56	72	45	1.8	●
117-056-12 PI5	11.7	12.0	118	56	72	45	1.9	●
118-056-12 PI5	11.8	12.0	118	56	72	45	1.9	●
119-056-12 PI5	11.9	12.0	118	56	72	45	1.9	●
120-056-12 PI5	12.0	12.0	118	56	72	45	1.9	●

●: Standard items

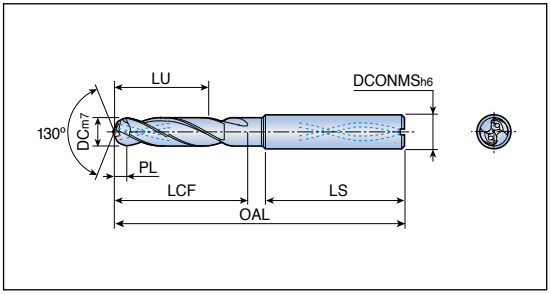
Cutting Condition D212

ADVANCE CUTTING TaeguTec

NHD…KI3

HDRILL

Solid carbide drills with oil holes for cast iron machining



• Drilling depth: 3xdiameter

Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	LS	PL	TT9030
NHD 030-014-06 KI3	3.0	6.0	62	14	20	34	1.4	●
033-014-06 KI3	3.3	6.0	62	14	20	34	1.6	●
035-014-06 KI3	3.5	6.0	62	14	20	34	1.7	●
040-017-06 KI3	4.0	6.0	66	17	24	35	1.9	●
041-017-06 KI3	4.1	6.0	66	17	24	35	2.0	●
042-017-06 KI3	4.2	6.0	66	17	24	35	2.0	●
045-017-06 KI3	4.5	6.0	66	17	24	35	2.2	●
046-017-06 KI3	4.6	6.0	66	17	24	35	2.2	●
050-020-06 KI3	5.0	6.0	66	20	27	36	2.4	●
051-020-06 KI3	5.1	6.0	66	20	27	36	2.5	●
052-020-06 KI3	5.2	6.0	66	20	27	36	2.5	●
055-020-06 KI3	5.5	6.0	66	20	27	36	2.6	●
060-020-06 KI3	6.0	6.0	66	20	27	36	2.9	●
061-024-08 KI3	6.1	8.0	79	24	34	36	2.9	●
065-024-08 KI3	6.5	8.0	79	24	34	36	3.1	●
067-024-08 KI3	6.7	8.0	79	24	34	36	3.2	●
068-024-08 KI3	6.8	8.0	79	24	34	36	3.3	●
070-024-08 KI3	7.0	8.0	79	24	34	36	3.4	●
075-029-08 KI3	7.5	8.0	79	29	40	36	3.6	●
080-029-08 KI3	8.0	8.0	79	29	40	36	3.8	●
081-035-10 KI3	8.1	10.0	89	35	45	40	3.9	●
085-035-10 KI3	8.5	10.0	89	35	45	40	4.1	●
087-035-10 KI3	8.7	10.0	89	35	45	40	4.2	●
089-035-10 KI3	8.9	10.0	89	35	45	40	4.3	●
090-035-10 KI3	9.0	10.0	89	35	45	40	4.3	●
095-035-10 KI3	9.5	10.0	89	35	45	40	4.6	●
100-035-10 KI3	10.0	10.0	89	35	45	40	4.8	●
103-040-12 KI3	10.3	12.0	102	40	53	45	4.9	●
105-040-12 KI3	10.5	12.0	102	40	53	45	5.0	●
110-040-12 KI3	11.0	12.0	102	40	53	45	5.3	●
115-040-12 KI3	11.5	12.0	102	40	53	45	5.5	●
120-040-12 KI3	12.0	12.0	102	40	53	45	5.8	●

Cutting Condition D212

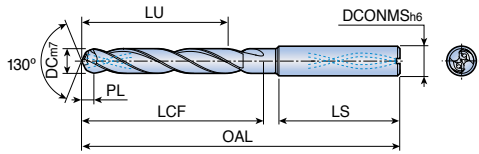
●: Standard items

TaeguTec

NHD…KI5

HDRILL

Solid carbide drills with oil holes for cast iron machining



• Drilling depth: 5xdiameter

Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	LS	PL	TT9030
NHD 030-023-06 KI5	3.0	6.0	66	23	27	34	1.4	●
033-023-06 KI5	3.3	6.0	66	23	27	34	1.6	●
035-023-06 KI5	3.5	6.0	66	23	27	34	1.7	●
040-029-06 KI5	4.0	6.0	74	29	34	35	1.9	●
042-029-06 KI5	4.2	6.0	74	29	34	35	2.0	●
045-029-06 KI5	4.5	6.0	74	29	35	35	2.2	●
046-029-06 KI5	4.6	6.0	74	29	35	35	2.2	●
050-035-06 KI5	5.0	6.0	82	35	43	36	2.4	●
052-035-06 KI5	5.2	6.0	82	35	43	36	2.5	●
055-035-06 KI5	5.5	6.0	82	35	43	36	2.6	●
060-035-06 KI5	6.0	6.0	82	35	43	36	2.9	●
065-043-08 KI5	6.5	8.0	91	43	52	36	3.1	●
067-043-08 KI5	6.7	8.0	91	43	52	36	3.2	●
068-043-08 KI5	6.8	8.0	91	43	52	36	3.3	●
070-043-08 KI5	7.0	8.0	91	43	52	36	3.4	●
075-043-08 KI5	7.5	8.0	91	43	52	36	3.6	●
080-043-08 KI5	8.0	8.0	91	43	52	36	3.8	●
081-049-10 KI5	8.1	10.0	103	49	59	40	3.9	●
085-049-10 KI5	8.5	10.0	103	49	59	40	4.1	●
087-049-10 KI5	8.7	10.0	103	49	59	40	4.2	●
089-049-10 KI5	8.9	10.0	103	49	59	40	4.3	●
090-049-10 KI5	9.0	10.0	103	49	59	40	4.3	●
095-049-10 KI5	9.5	10.0	103	49	59	40	4.6	●
100-049-10 KI5	10.0	10.0	103	49	59	40	4.8	●
103-056-12 KI5	10.3	12.0	118	56	69	45	4.9	●
105-056-12 KI5	10.5	12.0	118	56	69	45	5.0	●
110-056-12 KI5	11.0	12.0	118	56	69	45	5.3	●
115-056-12 KI5	11.5	12.0	118	56	69	45	5.5	●
120-056-12 KI5	12.0	12.0	118	56	69	45	5.8	●

●: Standard items

Cutting Condition D212

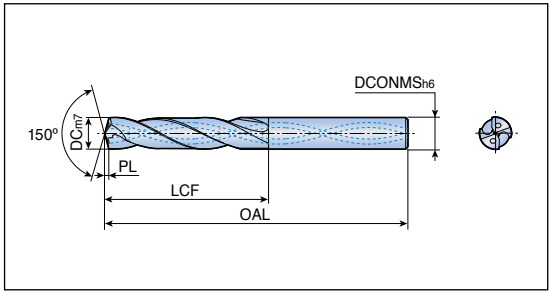
ADVANCE CUTTING TaeguTec

SHO 3...-PH

HDRILL

Solid pilot drills for solid long drill

• M.Q.L drilling is available



Designation	Dimension (mm)					Grade
	DC	DCONMS	OAL	LCF	PL	TT9030
SHO 30403-PH	4.03	4	66.5	24.5	0.5	●
30503-PH	5.03	5	68.6	30.6	0.6	●
30603-PH	6.03	6	68.7	30.7	0.7	●
30703-PH	7.03	7	73.8	35.8	0.8	●
30803-PH	8.03	8	79.9	41.9	0.9	●
30903-PH	9.03	9	91.0	49.0	1.0	●
31003-PH	10.03	10	91.1	49.1	1.1	●

Cutting Condition D212

●: Standard items

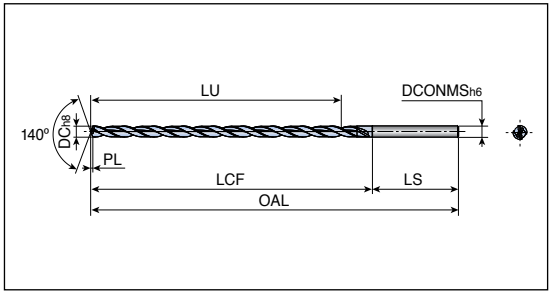
TaeguTec

SHO 10/15/20

HDRILL

Solid long drills with oil holes

- Drilling depth: 10/15/20xdiameter
- M.Q.L drilling is available



Designation	Dimension (mm)							Grade
	DC	DCONMS	OAL	LU	LCF	LS	PL	TT9030
SHO 10040	4.0	4	105.6	50	55.6	50	0.6	●
10050	5.0	5	115.8	60	65.8	50	0.8	●
10060	6.0	6	131.0	76	81.0	50	1.0	●
10070	7.0	7	141.1	86	91.1	50	1.1	●
10080	8.0	8	156.3	98	106.3	50	1.3	●
10090	9.0	9	171.4	108	116.4	55	1.4	●
10100	10.0	10	191.6	123	131.6	60	1.6	●
15040	4.0	4	125.6	70	75.6	50	0.6	●
15050	5.0	5	140.8	85	90.8	50	0.8	●
15060	6.0	6	161.0	106	111.0	50	1.0	●
15070	7.0	7	176.1	121	126.1	50	1.1	●
15080	8.0	8	196.3	138	146.3	50	1.3	●
15090	9.0	9	221.4	153	161.4	60	1.4	●
15100	10.0	10	241.6	173	181.6	60	1.6	●
20040	4.0	4	140.6	85	90.6	50	0.6	●
20050	5.0	5	165.8	110	115.8	50	0.8	●
20060	6.0	6	191.0	136	141.0	50	1.0	●
20070	7.0	7	211.1	156	161.1	50	1.1	●
20080	8.0	8	231.3	173	181.3	50	1.3	●
20090	9.0	9	266.4	198	206.4	60	1.4	●
20100	10.0	10	286.6	218	226.6	60	1.6	●

●: Standard items

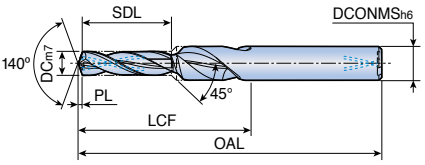
Cutting Condition D212

ADVANCE CUTTING TaeguTec

SHO...-M

HDRILL

Solid carbide drills for pre-thread holes



Designation	ISO thread	Dimension (mm)						Grade
		DC	OAL	SDL	LCF	DCONMS	PL	TT9030
SHO 033x12x6-M4	M4	3.3	62.5	12	26.5	6	0.5	●
042x15x6-M5	M5	4.2	66.6	15	28.6	6	0.6	●
050x18x8-M6	M6	5.0	79.8	18	36.8	8	0.8	●
068x24x10-M8	M8	6.8	91.0	24	49.0	10	1.0	●
085x30x12-M10	M10	8.5	103.3	30	56.3	12	1.3	●

Cutting Condition D212

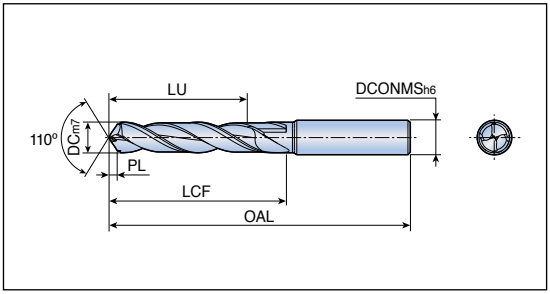
●: Standard items

TaeguTec

CDF

HDRILL

Solid carbide drills for composite material



Designation	Dimension (mm)							Grade
	DC (Metric)	DC (Inch)	DCONMS	OAL	LU	LCF	PL	TTD610
CDF 030-027-06	3	-	6	72.7	28	34.7	0.7	●
040-027-06	4	-	6	73.0	28	35.0	1.0	●
0476-034-06	4.76	3/16	6	81.3	35	43.3	1.3	●
050-034-06	5	-	6	81.3	35	43.3	1.3	●
060-034-06	6	-	6	81.7	36	43.7	1.7	●
0635-040-08	6.35	-	8	89.7	42	51.7	1.7	●
070-040-08	7	-	8	89.9	42	51.9	1.9	●
0794-040-08	7.94	5/16	8	90.2	42	52.2	2.2	●
080-040-08	8	-	8	90.2	42	52.2	2.2	●
090-045-10	9	-	10	101.5	48	59.5	2.5	●
0952-045-10	9.52	3/8	10	101.6	48	59.6	2.6	●
100-045-10	10	-	10	101.8	48	59.8	2.8	●
110-052-12	11	-	12	117.1	55	70.1	3.1	●
1111-052-12	11.11	7/16	12	117.1	55	70.1	3.1	●
120-052-12	12	-	12	117.4	55	70.4	3.4	●
127-055-14	12.7	1/2	14	122.6	59c	75.6	3.6	●

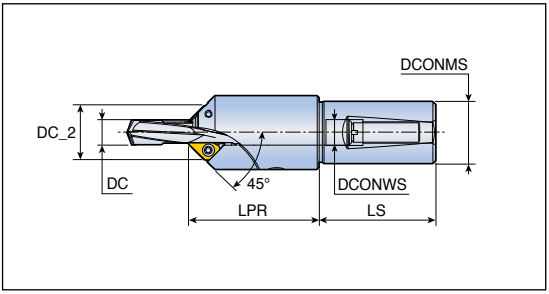
●: Standard items

Cutting Condition D224

ADVANCE CUTTING TaeguTec

T-CHAMFER...T1

Chamfering tools with solid carbide drill



Designation	DC	Dimension (mm)					Insert
		DCONWS	DC_2	DCONMS	LPR	LS	
T-CHAMFER 080-20T1-06	7.1-8.0	8	18.8	20	47.4	50	XCGT 06...-C.. D178
090-20T1-06	8.1-9.0	9	19.8	20	47.4	50	
100-32T1-09	9.1-10.0	10	24.9	32	67.3	60	XCGT 09...-C.. D178
110-32T1-09	10.1-11.0	11	25.9	32	67.3	60	
120-32T1-09	11.1-12.0	12	26.9	32	67.3	60	
130-32T1-09	12.1-13.0	13	27.9	32	67.3	60	
140-32T1-09	13.1-14.0	14	28.4	32	67.3	60	
150-32T1-09	14.1-15.0	15	29.4	32	67.3	60	
160-32T1-09	15.1-16.0	16	30.4	32	67.3	60	
170-32T1-09	16.1-17.0	17	31.4	32	67.3	60	
180-32T1-09	17.1-18.0	18	32.4	32	67.3	60	
190-32T1-09	18.1-19.0	19	33.4	32	75.0	60	
200-32T1-09	19.1-20.0	20	34.4	32	75.0	60	

Spare parts

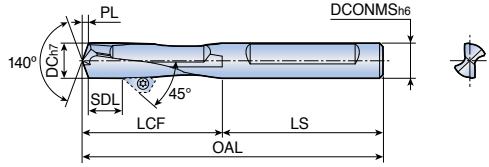
Designation	Side screw	Back screw	L-wrench	Insert screw	Wrench
T-CHAMFER 080 - 090	SS M6x1x6	M6x1-SP	L-W 3	TS 25064I	TD 8
T-CHAMFER 100 - 200	SS M10x1.5x10	M10x1.5-SP	L-W 5	TS 40093I	TD 15

Assembly D90

SHD 3...-CF

T-CHAMFER

Solid carbide drills for T-CHAMFER



Designation	Dimension (mm)								Grade
	DC	DCONMS	OAL	LCF	LS	SDL min	SDL max	PL	TT9030
SHD 3080-CF	8.0	8.0	80.3	37.3	43	9.5	17.5	1.3	●
3090-CF	9.0	9.0	85.4	42.4	43	13.0	23.5	1.4	●
3100-CF	10.0	10.0	90.6	47.6	43	15.5	25.0	1.6	●
3110-CF	11.0	11.0	96.8	53.8	43	21.5	30.0	1.8	●
3120-CF	12.0	12.0	103.9	60.9	43	25.5	37.0	1.9	●
3130-CF	13.0	13.0	104.1	61.1	43	25.5	35.0	2.1	●
3150-CF	15.0	15.0	113.4	65.4	48	26.5	40.5	2.4	●
3170-CF	17.0	17.0	121.7	71.7	50	24.5	44.0	2.7	●
3180-CF	18.0	18.0	125.9	75.9	50	26.5	48.0	2.9	●
3190-CF	19.0	19.0	130.0	76	54	26.5	49.0	3.0	●

• 'SDL' is factored with a 45° insert positioned in insert pocket
• Solid carbide drill with internal coolant holes is available on request

●: Standard items

Insert	Chamfer angle (°)	Chamfer size
XCGT 0603-C30	30°	1.5
0603-C45	45°	4.5
0603-C60	60°	2.5
XCGT 0903-C30	30°	1.5
0903-C45	45°	6.0
0903-C60	60°	3.5

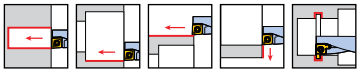
• The maximum chamfer size is obtained when using the smallest drill diameter in the drilling range

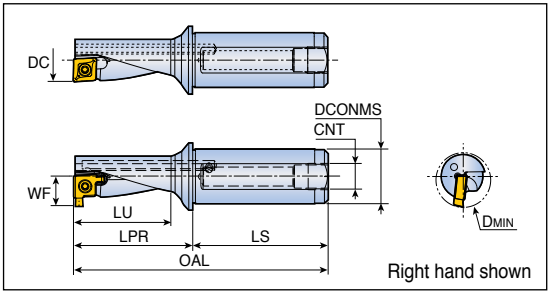
TCAP...-2.25DN

TOPCAP

Multi-function toolholders - 2.25xD

• Internal coolant





Designation	Dimension (mm)								Insert	
	DC	DCONMS	WF	LU	LPR	LS	DMIN	CNT	For drilling, boring, turning	For grooving
TCAP 08R/L-2.25DN	8	12	-	18.0	22.5	42	-	G 1/16	XCM(G)T 04...TC/TA	-
10R/L-2.25DN-GV	10	12	7.1	22.5	27.5	42	12.0	G 1/16	XCM(G)T 05...TC/TA	XCMT 05R...GV
12R/L-2.25DN-GV	12	16	8.5	27.0	33.0	45	14.5	G 1/8	XCM(G)T 06...TC/TA	XCMT 06R...GV
14R/L-2.25DN-GV	14	16	9.5	31.5	38.5	45	16.5	G 1/8	XCM(G)T 07...TC/TA	XCMT 07R...GV
16R/L-2.25DN-GV	16	20	11.1	36.0	44.0	50	19.0	G 1/8	XCM(G)T 08...TC/TA	XCMT 08R...GV
20R/L-2.25DN-GV	20	25	13.2	45.0	55.0	56	23.5	G 1/8	XCM(G)T 10...TC/TA	XCMT 10R...GV
25R/L-2.25DN-GV	25	32	16.5	56.2	69.0	61	29.0	G 1/8	XCM(G)T 13...TC/TA	XCMT 13R...GV
32R/L-2.25DN-GV	32	40	20.5	72.0	86.0	74	36.5	G 1/8	XCM(G)T 17...TC/TA	XCMT 17R...GV
									D179-180	D179

• OAL = LPR+LS

• Grooving insert is available for right handed type

Spare parts

Designation	Screw	Wrench		
				
TCAP 08	TS 18034I/HG-P	T 6P		
TCAP 10	TS 20038I/HG-P	T 6P		
TCAP 12	TS 22052I/HG-P	T 7P		
TCAP 14	TS 25064I/HG-P	T 8P		
TCAP 16	TS 30100I/HG-P		TD 9P	
TCAP 20	TS 35088I/HG-P		TD10P	
TCAP 25	TS 45A100I/HG		TD 20	
TCAP 32	TS 45A100I/HG		TD 20	

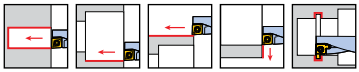
Cutting Condition D214

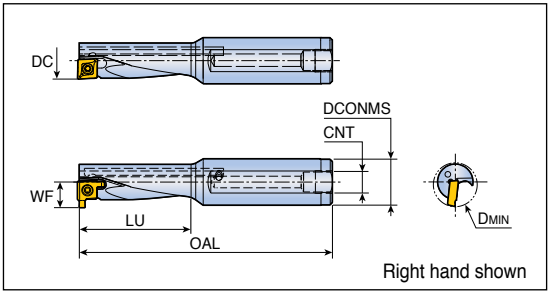
TCAP...-3.0DN

TOPCAP

Multi-function toolholders - 3.0xD

• Internal coolant





Designation	Dimension (mm)							Insert	
	DC	DCONMS	WF	LU	OAL	DMIN	CNT	For drilling, boring, turning	For grooving
TCAP 08R/L-3.0DN12	8	12	-	24	80	-	G 1/16	XCM(G)T 04...TC/TA	-
10R/L-3.0DN-GV	10	12	7.1	30	85	12.0	G 1/16	XCM(G)T 05...TC/TA	XCMT 05R...GV
12R/L-3.0DN-GV	12	16	8.5	36	95	14.5	G 1/8	XCM(G)T 06...TC/TA	XCMT 06R...GV
14R/L-3.0DN-GV	14	16	9.5	42	100	16.5	G 1/8	XCM(G)T 07...TC/TA	XCMT 07R...GV
16R/L-3.0DN-GV	16	20	11.1	48	110	19.0	G 1/8	XCM(G)T 08...TC/TA	XCMT 08R...GV
20R/L-3.0DN-GV	20	25	13.2	60	130	23.5	G 1/8	XCM(G)T 10...TC/TA	XCMT 10R...GV
25R/L-3.0DN-GV	25	32	16.5	75	150	29.0	G 1/8	XCM(G)T 13...TC/TA	XCMT 13R...GV
32R/L-3.0DN-GV	32	40	20.5	96	185	36.5	G 1/8	XCM(G)T 17...TC/TA	XCMT 17R...GV
								D179-180	D179

• OAL = LPR+LS
• Grooving insert is available for right handed type

Spare parts

Designation	Screw	Wrench		
TCAP 08	TS 18034I/HG-P	T 6P		
TCAP 10	TS 20038I/HG-P	T 6P		
TCAP 12	TS 22052I/HG-P	T 7P		
TCAP 14	TS 25064I/HG-P	T 8P		
TCAP 16	TS 30100I/HG-P		TD 9P	
TCAP 20	TS 35088I/HG-P		TD10P	
TCAP 25	TS 45A100I/HG		TD 20	
TCAP 32	TS 45A100I/HG		TD 20	

Cutting Condition D214

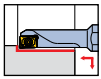
ADVANCE CUTTING TaeguTec

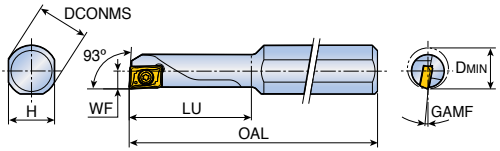
S...SXUCR/L

TOPCAP

Boring bars with TOP-CAP inserts

- For boring
- External coolant





Right hand shown

Designation	Dimension (mm)							Insert
	DCONMS	H	OAL	LU	WF	DMIN	GAMF	
S10H SXUCR/L 04-06 (1)	10	9	100	21	3.0	6	9°	XCMT 04...R/L TC
S10J SXUCR/L 04-07 (1)	10	9	110	24.5	3.5	7	5°	D180
S10J SXUCR/L 04-08 (1)	10	9	110	28	4.0	8	2°	
S10K SXUCR/L 05-10	10	9	125	35	5.0	10	2°	XCMT 05..TC
								D180

- (1) Right hand Insert should be used in right hand boring bar

Spare parts

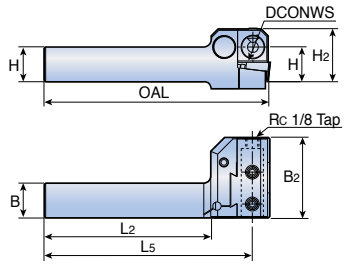
Designation	Screw	Wrench		
				
S10H SXUCR/L 04-06	TS 18034I/HG-P	T 6P		
S10J SXUCR/L 04-07	TS 18034I/HG-P	T 6P		
S10J SXUCR/L 04-08	TS 18034I/HG-P	T 6P		
S10K SXUCR/L 05-10	TS 20038I/HG-P	T 6P		

Cutting Condition D214

TGHR

TOPCAP

Clamping units (Centre alignment system)



Designation	Dimension (mm)								Toolholders
	H	B	DCONWS	H2	B2	L2	L5	OAL	
TGHR 2020-D16	20	20	16	38	58	120	150	161	TCAP 08R/L...
2525-D16	25	25	16	38	58	120	150	161	TCAP 10R/L...
									TCAP 12R/L...
									TCAP 14R/L...
2525-D25	25	25	25	56	75	120	157	174	TCAP 16R/L...
									TCAP 20R/L...

Spare parts

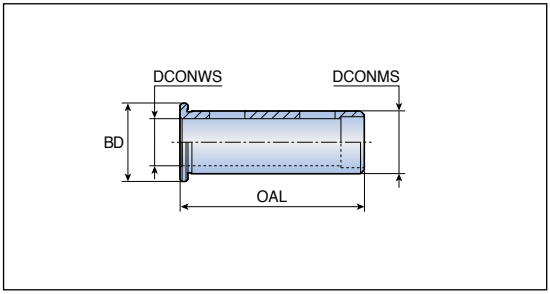
Designation	Block	Wedge	Snap ring	Wedge screw	Mounting pin	Mounting pin screw	Mounting screw		Lock screw	Wrench
										
TGHR 2020-D16	TGHR-D16-BL	TGHR-WD	WSR 4	TGH-WS	TGH-MPI	TGH-MPS	SSxM8 1.25X10-C	SSxM8 x1.25x8	-	L-W 4
TGHR 2525-D16										
TGHR 2525-D25	TGHR-D25-BL	TGHR-WD-25	WSR 4	TGH-WS-25	TGH-MPI-25	TGH-MPS-25	SS M10 x1.5x12-C	SS M101.5x10	SH M6x1x20	L-W 4 L-W 5

ADVANCE CUTTING TaeguTec

TSL

TOPCAP

Sleeves for clamping unit

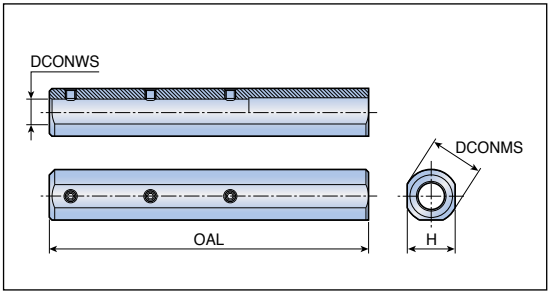


Designation	Dimension (mm)				Toolholders
	DCONMS	DCONWS	BD	OAL	
TSL 16-12	16	12	20	47	TCAP 10R/L...
25-20	25	20	32	55	TCAP 16R/L...

TBSL

TOPCAP

Sleeves for boring bar



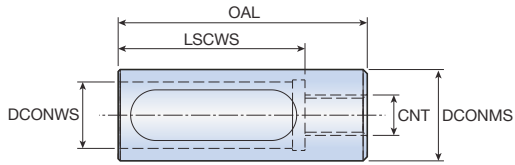
Designation	Dimension (mm)			
	DCONMS	DCONWS	OAL	H
TBSL 20-10-120	20	10	120	18

Spare parts

Designation	Screw	Wrench		
				
TBSL 20-10-120	SS M4x0.7x4	L-W 2		

TSL-NC

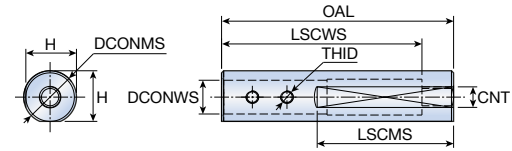
Drill sleeves for Swiss type automatic lathes (Fixed type, internal coolant)



Designation		Dimension (mm)				
		DCONMS	DCONWS	LSCWS	OAL	CNT
TSL-NC	**19.05-12**	19.05	12.0	45	60	Rc 1/8
	19.05-16	19.05	16.0	45	60	Rc 1/8
	20-12	20.0	12.0	45	60	Rc 1/8
	20-16	20.0	16.0	45	60	Rc 1/8
	22-16	22.0	16.0	45	60	Rc 1/8
	25-20	25.0	20.0	45	60	Rc 1/8
	25.4-20	25.4	20.0	45	60	Rc 1/8
	32-25	32.0	25.0	45	60	Rc 1/8

TSL-SW

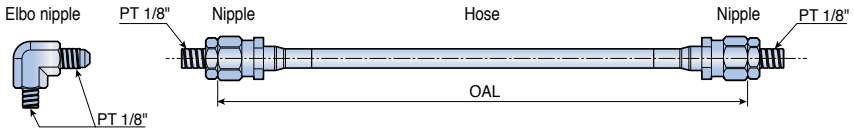
Drill sleeves for Swiss type automatic lathes (Adjustable type, internal coolant)



Designation		Dimension (mm)							
		DCONMS	DCONWS	LSCWS	LSCMS	OAL	H	THID	CNT
TSL-SW	**22-12**	22.0	12.0	95	65	110	21.0	M6	Rc 1/8
	25-12	25.0	12.0	95	65	110	24.0	M8	Rc 1/8
	25-16	25.0	16.0	95	65	110	24.0	M6	Rc 1/8
	25.4-12	25.4	12.0	95	65	110	24.4	M8	Rc 1/8
	25.4-16	25.4	16.0	95	65	110	24.4	M6	Rc 1/8
	32-12	32.0	12.0	95	65	110	31.0	M8	Rc 1/8
	32-16	32.0	16.0	95	65	110	31.0	M8	Rc 1/8
	32-20	32.0	20.0	95	65	110	31.0	M8	Rc 1/8

Accessories

Hose set



* Hose set components: 1 hose, 2 nipples, 1 elbo nipple

Designation		Dimension (mm)	
		OAL (mm)	Max. pressure (bar)
S-TSL HOSE	**R1/8-220**	220	100
	R1/8-350	350	100

• Hose set is ordered separately

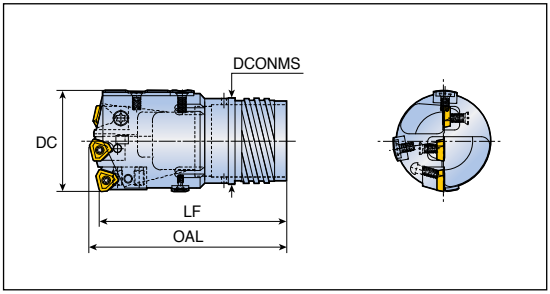
Spare parts

Designation	Mounting screw	Wrench		
				
TSL-SW 22-12	SS M6X1X5	L-W 3		
TSL-SW 25-12	SS M8X1.25X6	L-W 4		
TSL-SW 25-16	SS M6X1X5	L-W 3		
TSL-SW 25.4-12	SS M8X1.25X6	L-W 4		
TSL-SW 25.4-16	SS M6X1X5	L-W 3		
TSL-SW 32-12	SS M8X1.25X6	L-W 4		
TSL-SW 32-16	SS M8X1.25X6	L-W 4		
TSL-SW 32-20	SS M8X1.25X6	L-W 4		

Deep Drilling Tools

TBTA3...SE4

Single tube system



• Outer four start thread

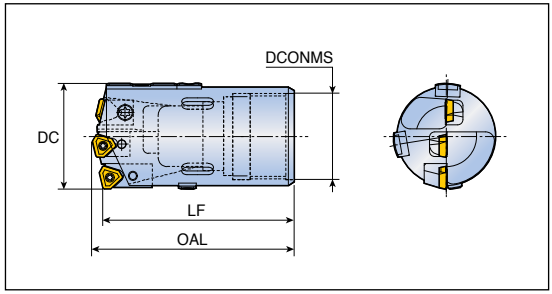
Designation		DC	Dimension (mm)			Tube	
			LF	OAL	DCONMS	Part	Diameter (mm)
TBTA3-	**xxx.xxSE4-33**	38.00-39.60	85	90	30	BTSI 033	33
	xxx.xxSE4-36	39.61-43.00	85	91	33	BTSI 036	36
	xxx.xxSE4-39	43.01-47.00	95	101	36	BTSI 039	39
	xxx.xxSE4-43	47.01-51.70	95	102	39	BTSI 043	43
	xxx.xxSE4-47	51.71-56.20	100	107	43	BTSI 047	47
	xxx.xxSE4-51	56.21-60.60	110	118	47	BTSI 051	51
	xxx.xxSE4-56A	60.61-64.99	110	119	51	BTSI 056A	56
	xxx.xxSE4-56B	65.00-66.99	150	159	52	BTSI 056B	56
	xxx.xxSE4-62	67.00-72.99	150	159	58	BTSI 062	62
	xxx.xxSE4-68	73.00-79.99	150	160	63	BTSI 068	68
	xxx.xxSE4-75	80.00-86.99	180	191	70	BTSI 075	75
	xxx.xxSE4-82	87.00-99.99	180	193	77	BTSI 082	82
	xxx.xxSE4-94	100.00-106.99	180	193	89	BTSI 094	94

Assembly D102 | Tube D135 | Cutting Condition D216

TBTA3...SI1

TDEEP

Single tube system



- Inner single start thread

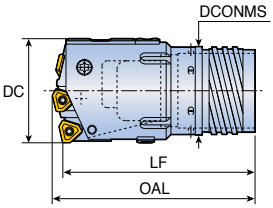
Designation	DC	Dimension (mm)			Tube	
		LF	OAL	DCONMS	Part	Diameter (mm)
TBTA3- xxx.xxSI1-33	38.00-39.99	80	85	30	BTSE 033	33
xxx.xxSI1-36	40.00-43.99	80	86	33	BTSE 036	36
xxx.xxSI1-39	44.00-46.99	90	96	37	BTSE 039	39
xxx.xxSI1-43	47.00-51.99	90	97	41	BTSE 043	43
xxx.xxSI1-47	52.00-56.99	100	107	44	BTSE 047	47
xxx.xxSI1-51	57.00-60.99	110	118	49	BTSE 051	51
xxx.xxSI1-56	61.00-67.99	110	119	53	BTSE 056	56
xxx.xxSI1-62	68.00-74.99	120	129	59	BTSE 062	62
xxx.xxSI1-68	75.00-80.99	150	161	65	BTSE 068	68
xxx.xxSI1-75	81.00-90.99	150	162	71	BTSE 075	75
xxx.xxSI1-82	91.00-98.99	150	162	79	BTSE 082	82
xxx.xxSI1-94	99.00-106.99	150	163	90	BTSE 094	94

Assembly D102 | Tube D135 | Cutting Condition D216

TBTA3...DE4

TDEEP

Double tube system



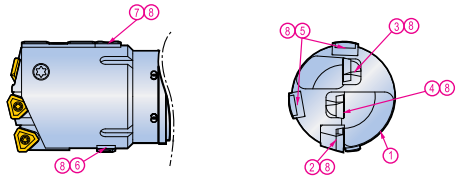
• Outer four start thread

Designation		DC	Dimension (mm)			Tube		
			LF	OAL	DCONMS	Outer tube	Inner tube	Diameter (mm)
TBTA3-	**xxx.xxDE4-35.5**	38.00-39.60	85	90	33	BTDO 035.5	BTDI 026	35.5
	xxx.xxDE4-39	39.61-43.00	85	91	36	BTDO 039	BTDI 029	39.0
	xxx.xxDE4-42.5	43.01-47.00	95	101	39	BTDO 042.5	BTDI 032	42.5
	xxx.xxDE4-46.5	47.01-51.70	100	102	43	BTDO 046.5	BTDI 035	46.5
	xxx.xxDE4-51	51.71-56.20	100	107	47	BTDO 051	BTDI 039	51.0
	xxx.xxDE4-55.5	56.21-65.00	110	119	51	BTDO 055.5	BTDI 043A	55.5
	xxx.xxDE4-56	65.00-66.99	150	159	52	BTDO 056	BTDI 043B	56.0
	xxx.xxDE4-62	67.00-72.99	150	159	58	BTDO 062	BTDI 048	62.0
	xxx.xxDE4-68	73.00-79.99	150	160	63	BTDO 068	BTDI 053	68.0
	xxx.xxDE4-75	80.00-86.99	180	191	70	BTDO 075	BTDI 059	75.0
	xxx.xxDE4-82	87.00-99.99	180	193	77	BTDO 082	BTDI 066	82.0
	xxx.xxDE4-94	100.00-106.99	180	193	89	BTDO 094	BTDI 078	94.0

Assembly D102 | Tube D135 | Cutting Condition D216

TBTA3 Series

Assembly of TBTA3 series



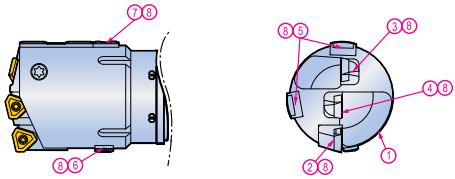
1. Head shank
2. Outer cartridge
3. Inner cartridge
4. Center cartridge
5. Guide pad
6. Sub guide pad
7. Guide pad protector
8. Lock screw

	Parts	Diameter (mm)				
		38.00-39.99	40.00-44.99	45.00-47.99	48.00-51.99	52.00-54.99
Cartridge	Outer	PERC 05R	PERC 402-04	PERC 402-04	PERC 402-04	PERC 402-32
	Adjust screw	AS0003-5	AS0004-8	AS0004-8	AS0004-8	AS0005-10
	Wrench	H1.5	H2	H2	H2	H2.5
	Screw	LS1803RH	LS1803.5RH	LS1803.5RH	LS1803.5RH	LS1805RH
	Wrench	H2	H2.5	H2.5	H2.5	H3
	Inner	CENC 05R	CENC 05R	CENC 05R	CENC 402-04	CENC 402-04
	Screw	CSTB3	CSTB3	CSTB3	CSTB3.5	CSTB3.5
	Wrench	T-9D	T-9D	T-9D	T-15D	T-15D
	Center	CENC 05R	CENC 05R	CENC 402-04	CENC 402-04	CENC 402-04
	Screw	CSTB3	CSTB3	CSTB3.5	CSTB3.5	CSTB3.5
	Wrench	T-9D	T-9D	T-15D	T-15D	T-15D
Insert	Outer	NPMX 080308R-G	TPMX 140308R-G	TPMX 140308R-G	TPMX 140308R-G	TPMX 170408R-G
	Screw	CSTB2.2	CSTB2.5	CSTB2.5	CSTB2.5	CSTB3.5D
	Wrench	T-7D	T-8D	T-8D	T-8D	T-9D
	Inner	NPMX 080308R-G	NPMX 080308R-G	NPMX 080308R-G	TPMX 140308R-G	TPMX 140308R-G
	Screw	CSTB2.2	CSTB2.2	CSTB2.2	CSTB2.5	CSTB2.5
	Wrench	T-7D	T-7D	T-7D	T-8D	T-8D
	Center	NPMX 080308R-G	NPMX 080308R-G	TPMX 140308R-G	TPMX 140308R-G	TPMX 140308R-G
	Screw	CSTB2.2	CSTB2.2	CSTB2.5	CSTB2.5	CSTB2.5
	Wrench	T-7D	T-7D	T-8D	T-8D	T-8D
Pad	Guide pad	PAD-GP08-25-155-DC-SB	PAD-GP08-25-155-DC-SB	PAD-GP10-35-200-DC-SB	PAD-GP10-35-200-DC-SB	PAD-GP10-35-200-DC-SB
		PAD-GP08-25-155-DC-SC	PAD-GP08-25-155-DC-SC	PAD-GP10-35-200-DC-SC	PAD-GP10-35-200-DC-SC	PAD-GP10-35-200-DC-SC
	Screw	CSTB3S	CSTB3S	CSTB4S	CSTB4S	CSTB4S
	Wrench	T-9D	T-9D	T-15D	T-15D	T-15D
	Guide pad protector	PAD-P08	PAD-P08	PAD-P10	PAD-P10	PAD-P10
	Screw	CSTB3S	CSTB3S	CSTB4S	CSTB4S	CSTB4S
	Wrench	T-9D	T-9D	T-15D	T-15D	T-15D
	Sub guide pad	PAD-S08	PAD-S08	PAD-S08	PAD-S08	PAD-S08
	Screw	CSTB3S	CSTB3S	CSTB3S	CSTB3S	CSTB3S
	Wrench	T-9D	T-9D	T-9D	T-9D	T-9D

D184 Guide Pad D187 Cartridge D190

TBTA3 Series

Assembly of TBTA3 series



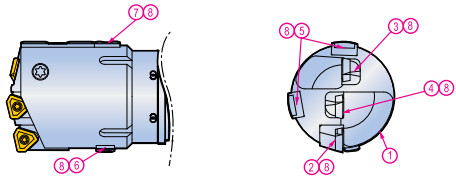
1. Head shank
2. Outer cartridge
3. Inner cartridge
4. Center cartridge
5. Guide pad
6. Sub guide pad
7. Guide pad protector
8. Lock screw

	Parts	Diameter (mm)				
		55.00-57.99	58.00-59.99	60.00-63.99	64.00-67.99	68.00-77.99
Cartridge	Outer	PERC 402-32	PERC 402-32	PERC 402-32	PERC 402-43	PERC 402-32
	Adjust screw	AS0005-10	AS0005-10	AS0005-10	AS0005-15	AS0005-10
	Wrench	H2.5	H2.5	H2.5	H2.5	H2.5
	Screw	LS1805RH	LS1805RH	LS1805RH	LS1806RH	LS1805RH
	Wrench	H3	H3	H3	H4	H3
	Inner	CENC 402-04	CENC 402-32	CENC 402-32	CENC 402-32	CENC 402-43
	Screw	CSTB3.5	CSTA5	CSTA5	CSTA5	LS1206
	Wrench	T-15D	T-15D	T-15D	T-15D	H3
	Center	CENC 402-32	CENC 402-32	CENC 402-32	CENC 402-32	CENC 402-43
	Screw	CSTA5	CSTA5	CSTA5	CSTA5	LS1206
	Wrench	T-15D	T-15D	T-15D	T-15D	H3
Insert	Outer	TPMX 170408R-G	TPMX 170408R-G	TPMX 170408R-G	TPMX 240512R-G	TPMX 170408R-G
	Screw	CSTB3.5D	CSTB3.5D	CSTB3.5D	CSTB4M	CSTB3.5D
	Wrench	T-9D	T-9D	T-9D	T-15D	T-9D
	Inner	TPMX 140308R-G	TPMX 170408R-G	TPMX 170408R-G	TPMX 170408R-G	TPMX 240512R-G
	Screw	CSTB2.5	CSTB3.5D	CSTB3.5D	CSTB3.5D	CSTB4M
	Wrench	T-8D	T-9D	T-9D	T-9D	T-15D
	Center	TPMX 170408R-G	TPMX 170408R-G	TPMX 170408R-G	TPMX 170408R-G	TPMX 240512R-G
	Screw	CSTB3.5D	CSTB3.5D	CSTB3.5D	CSTB3.5D	CSTB4M
	Wrench	T-9D	T-9D	T-9D	T-9D	T-15D
Pad	Guide pad	PAD-GP10-35-200-DC-SB	PAD-GP10-35-200-DC-SB	PAD-GP14-40-250-DC-SB	PAD-GP14-40-250-DC-SB	PAD-GP14-40-250-DC-SB
		PAD-GP10-35-200-DC-SC	PAD-GP10-35-200-DC-SC	PAD-GP14-40-250-DC-SC	PAD-GP14-40-250-DC-SC	PAD-GP14-40-250-DC-SC
	Screw	CSTB4S	CSTB4S	CSTA5S	CSTA5S	CSTA5S
	Wrench	T-15D	T-15D	T-15D	T-15D	T-15D
	Guide pad protector	PAD-P10	PAD-P10	PAD-P14	PAD-P14	PAD-P14
	Screw	CSTB4S	CSTB4S	CSTA5S	CSTA5S	CSTA5S
	Wrench	T-15D	T-15D	T-15D	T-15D	T-15D
	Sub guide pad	PAD-S08	PAD-S08	PAD-S08	PAD-S10	PAD-S10
	Screw	CSTB3S	CSTB3S	CSTB3S	CSTB3S	CSTB3S
	Wrench	T-9D	T-9D	T-9D	T-9D	T-9D

D184 Guide Pad D187 Cartridge D190

TBTA3 Series

Assembly of TBTA3 series



1. Head shank
2. Outer cartridge
3. Inner cartridge
4. Center cartridge
5. Guide pad
6. Sub guide pad
7. Guide pad protector
8. Lock screw

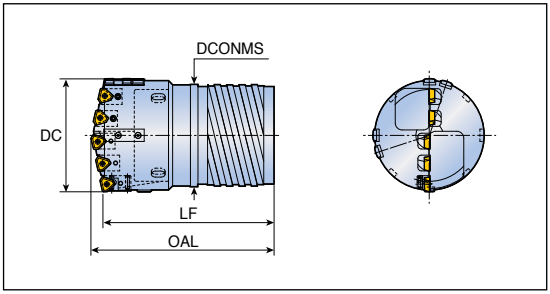
	Parts	Diameter (mm)			
		78.00-84.99	85.00-91.99	92.00-98.99	99.00-106.99
Cartridge	Outer	PERC 402-43	PERC 402-63	PERC 402-43	PERC 402-63
	Adjust screw	AS0005-15	AS0006-15	AS0005-15	AS0006-15
	Wrench	H2.5	H3	H2.5	H3
	Screw	LS1806RH	LS1806RH	LS1806RH	LS1806RH
	Wrench	H4	H4	H4	H4
	Inner	CENC 402-43	CENC 402-43	CENC 402-63	CENC 402-63
	Screw	LS1206	LS1206	LS1206	LS1206
	Wrench	H3	H3	H3	H3
	Center	CENC 402-43	CENC 402-43	CENC 402-63	CENC 402-63
	Screw	LS1206	LS1206	LS1206	LS1206
	Wrench	H3	H3	H3	H3
Insert	Outer	TPMX 240512R-G	TPMX 280716R-G	TPMX 240512R-G	TPMX 280716R-G
	Screw	CSTB4M	CSTB5	CSTB4M	CSTB5
	Wrench	T-15D	T-20D	T-15D	T-20D
	Inner	TPMX 240512R-G	TPMX 240512R-G	TPMX 280716R-G	TPMX 280716R-G
	Screw	CSTB4M	CSTB4M	CSTB5	CSTB5
	Wrench	T-15D	T-15D	T-20D	T-20D
	Center	TPMX 240512R-G	TPMX 240512R-G	TPMX 280716R-G	TPMX 280716R-G
	Screw	CSTB4M	CSTB4M	CSTB5	CSTB5
	Wrench	T-15D	T-15D	T-20D	T-20D
Pad	Guide pad	PAD-GP14-40-250-DC-SB	PAD-GP14-40-250-DC-SB	PAD-GP14-40-250-DC-SB	PAD-GP18-40-300-DC-SB
		PAD-GP14-40-250-DC-SC	PAD-GP14-40-250-DC-SC	PAD-GP14-40-250-DC-SC	PAD-GP18-40-300-DC-SC
	Screw	CSTA5S	CSTA5S	CSTA5S	LS1206S
	Wrench	T-15D	T-15D	T-15D	H3
	Guide pad protector	PAD-P14	PAD-P14	PAD-P14	PAD-P18
	Screw	CSTB5S	CSTB5S	CSTA5S	LS1206S
	Wrench	T-15D	T-15D	T-15D	H3
	Sub guide pad	PAD-S10	PAD-S10	PAD-S10	PAD-S14
	Screw	CSTB3S	CSTB3S	CSTB3S	CSTA5S
	Wrench	T-9D	T-9D	T-9D	T-15D

D184 Guide Pad D187 Cartridge D190

TBTA5...SE4

TDEEP

Single tube system



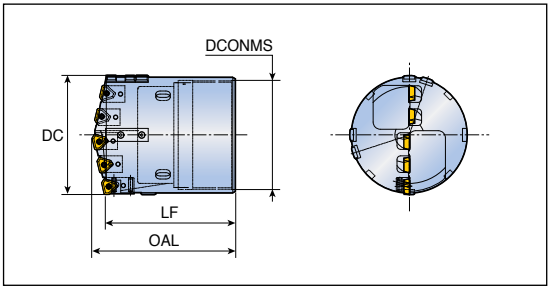
• Outer four start thread

Designation	DC	Dimension (mm)			Tube	
		LF	OAL	DCONMS	Part	Diameter (mm)
TBTA5- xxx.xxSE4-094	107.00-111.99	180	197	89	BTSI 094	94
xxx.xxSE4-106	112.00-123.99	205	221	101	BTSI 106	106
xxx.xxSE4-118	124.00-135.99	205	222	113	BTSI 118	118
xxx.xxSE4-130	136.00-147.99	205	223	125	BTSI 130	130
xxx.xxSE4-142	148.00-159.99	225	245	137	BTSI 142	142
xxx.xxSE4-154	160.00-168.99	225	246	149	BTSI 154	154

TBTA5...SI1

TDEEP

Single tube system



• Inner single start thread

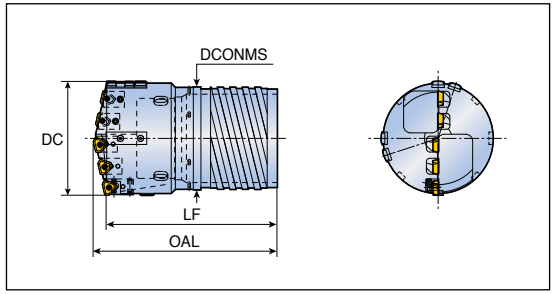
Designation	DC	Dimension (mm)			Tube	
		LF	OAL	DCONMS	Part	Diameter (mm)
TBTA5- xxx.xxSI1-094	107.00-110.99	150	164	90	BTSE 094	94
xxx.xxSI1-106	111.00-122.99	150	165	102	BTSE 106	106
xxx.xxSI1-118	123.00-134.99	150	167	114	BTSE 118	118
xxx.xxSI1-130	135.00-148.99	150	168	126	BTSE 130	130
xxx.xxSI1-142	149.00-161.99	150	170	139	BTSE 142	142
xxx.xxSI1-154	162.00-168.99	190	211	151	BTSE 154	154

Assembly D107 | Tube D135 | Cutting Condition D216

TBTA5...DE4

TDEEP

Double tube system



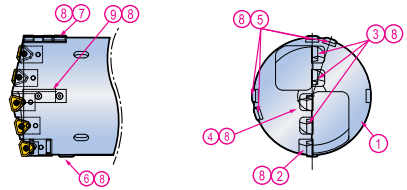
• Outer four start thread

Designation	DC	Dimension (mm)			Tube		
		LF	OAL	DCONMS	Inner Tube	Outer Tube	Diameter (mm)
TBTA5 - xxx.xxDE4-094	107.00-111.99	180	197	89	BTDO 094	BTDI 078	94
xxx.xxDE4-106	112.00-123.99	205	221	101	BTDO 106	BTDI 090	106
xxx.xxDE4-118	124.00-135.99	205	222	113	BTDO 118	BTDI 092	118
xxx.xxDE4-130	136.00-147.99	205	223	125	BTDO 130	BTDI 093	130
xxx.xxDE4-142	148.00-159.99	225	245	137	BTDO 142	BTDI 094	142
xxx.xxDE4-154	160.00-168.99	225	246	149	BTDO 154	BTDI 095	154

Assembly D107 | Tube D135 | Cutting Condition D216

TBTA5 Series

Assembly of TBTA5 series



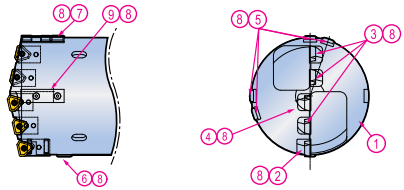
1. Head shank
2. Outer cartridge
3. Inner cartridge
4. Center cartridge
5. Guide pad
6. Sub guide pad
7. Guide pad protector
8. Lock screw
9. Filler

	Parts	Diameter (mm)			
		107.00-117.99	118.00-135.99	136.00-144.99	145.00-150.99
Cartridge	Outer	PERC 402-43	PERC 402-43	PERC 402-43	PERC 402-43
	Adjust screw	AS0005-15	AS0005-15	AS0005-15	AS0005-15
	Wrench	H2.5	H2.5	H2.5	H2.5
	Screw	LS1806RH	LS1806RH	LS1806RH	LS1806RH
	Wrench	H4	H4	H4	H4
	Inner	CENC 402-32	CENC 402-43	CENC 402-43	CENC 402-43
	Screw	CSTA5	LS1206	LS1206	LS1206
	Wrench	T-15D	H3	H3	H3
	Center	CENC 402-43	CENC 402-43	CENC 402-63	CENC 402-63
	Screw	LS1206	LS1206	LS1206	LS1206
	Wrench	H3	H3	H3	H3
Insert	Outer	TPMX 240512R-G	TPMX 240512R-G	TPMX 240512R-G	TPMX 240512R-G
	Screw	CSTB4M	CSTB4M	CSTB4M	CSTB4M
	Wrench	T-15D	T-15D	T-15D	T-15D
	Inner	TPMX 170408R-G	TPMX 240512R-G	TPMX 240512R-G	TPMX 240512R-G
	Screw	CSTB3.5D	CSTB4M	CSTB4M	CSTB4M
	Wrench	T-9D	T-15D	T-15D	T-15D
	Center	TPMX 240512R-G	TPMX 240512R-G	TPMX 280716R-G	TPMX 280716R-G
	Screw	CSTB4M	CSTB4M	CSTB5	CSTB5
	Wrench	T-15D	T-15D	T-20D	T-20D
Pad	Guide pad	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB
		PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC
	Screw	LS1206S	LS1206S	LS1206S	LS1206S
	Wrench	H3	H3	H3	H3
	Guide pad protector	PAD-P18	PAD-P18	PAD-P18	PAD-P18
	Screw	LS1206S	LS1206S	LS1206S	LS1206S
	Wrench	H3	H3	H3	H3
	Sub guide pad	PAD-S14	PAD-S14	PAD-S14	PAD-S14
	Screw	CSTA5S	CSTA5S	CSTA5S	CSTA5S
	Wrench	T-15D	T-15D	T-15D	T-15D

D184 Guide Pad D187 Cartridge D190

TBTA5 Series

Assembly of TBTA5 series



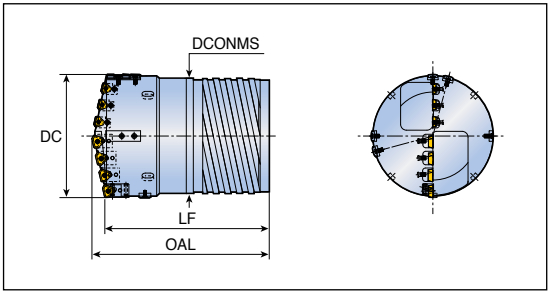
1. Head shank
2. Outer cartridge
3. Inner cartridge
4. Center cartridge
5. Guide pad
6. Sub guide pad
7. Guide pad protector
8. Lock screw
9. Filler

	Parts	Diameter (mm)		
		151.00-156.99	157.00-162.99	163.00-168.99
Cartridge	Outer	PERC 402-63	PERC 402-63	PERC 402-63
	Adjust screw	AS0006-15	AS0006-15	AS0006-15
	Wrench	H3	H3	H3
	Screw	LS1806RH	LS1806RH	LS1806RH
	Wrench	H4	H4	H4
	Inner	CENC 402-43	CENC 402-43	CENC 402-63
	Screw	LS1206	LS1206	LS1206
	Wrench	H3L	H3L	H3L
	Center	CENC 402-63	CENC 402-63	CENC 402-63
	Screw	LS1206S	LS1206S	LS1206S
	Wrench	H3L	H3L	H3L
Insert	Outer	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G
	Screw	CSTB5	CSTB5	CSTB5
	Wrench	T-20D	T-20D	T-20D
	Inner	TPMX 240512R-G	TPMX 240512R-G	TPMX 280716R-G
	Screw	CSTB4M	CSTB4M	CSTB5
	Wrench	T-15D	T-15D	T-20D
	Center	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G
	Screw	CSTB5	CSTB5	CSTB5
	Wrench	T-20D	T-20D	T-20D
Pad	Guide pad	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB
		PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC
	Screw	LS1206S	LS1206S	LS1206S
	Wrench	H3	H3	H3L
	Guide pad protector	PAD-P18	PAD-P18	PAD-P18
	Screw	LS1206S	LS1206S	LS1206S
	Wrench	H3	H3	H3
	Sub guide pad	PAD-S14	PAD-S14	PAD-S14
	Screw	CSTA5S	CSTA5S	CSTA5S
	Wrench	T-15D	T-15D	T-15D

TBTA7...SE4

TDEEP

Single tube system



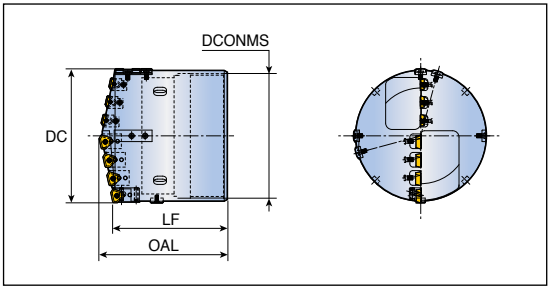
- Outer four start thread
- Double tube system also available on request

Designation	DC	Dimension (mm)			Tube	
		LF	OAL	DCONMS	Part	Diameter (mm)
TBTA7- xxx.xxSE4-154	169.00-171.99	225	246	149	BTSI 154	154
xxx.xxSE4-166	172.00-183.99	225	247	161	BTSI 166	166
xxx.xxSE4-178	184.00-195.99	245	267	173	BTSI 178	178
xxx.xxSE4-190	196.00-207.99	245	270	185	BTSI 190	190
xxx.xxSE4-202	208.00-219.99	245	271	197	BTSI 202	202
xxx.xxSE4-214	220.00-231.99	265	293	208	BTSI 214	214
xxx.xxSE4-226	232.00-232.99	265	293	220	BTSI 226	226

TBTA7...SI1

TDEEP

Single tube system



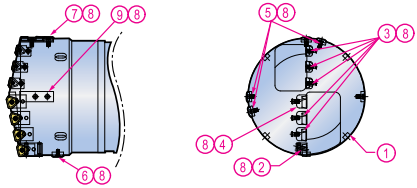
- Inner single start thread

Designation	DC	Dimension (mm)			Tube	
		LF	OAL	DCONMS	Part	Diameter (mm)
TBTA7- xxx.xxSI1-154	169.00-173.99	190	211	151	BTSE 154	154
xxx.xxSI1-166	174.00-185.99	190	213	163	BTSE 166	166
xxx.xxSI1-178	186.00-197.99	190	212	175	BTSE 178	178
xxx.xxSI1-190	198.00-209.99	190	215	187	BTSE 190	190
xxx.xxSI1-202	210.00-221.99	190	217	199	BTSE 202	202
xxx.xxSI1-214	222.00-232.99	190	218	211	BTSE 214	214

Assembly D110 | Tube D135 | Cutting Condition D216

TBTA7 Series

Assembly of TBTA7 series



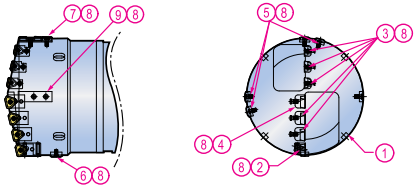
1. Head shank
2. Outer cartridge
3. Inner cartridge
4. Center cartridge
5. Guide pad
6. Sub guide pad
7. Guide pad protector
8. Lock screw
9. Filler

	Parts	Diameter (mm)			
		169.00-188.99	189.00-196.99	197.00-202.99	203.00-208.99
Cartridge	Outer	PERC 402-43	PERC 402-43	PERC 402-43	PERC 402-43
	Adjust screw	AS0005-15	AS0005-15	AS0005-15	AS0005-15
	Wrench	H2.5	H2.5	H2.5	H2.5
	Screw	LS1806RH	LS1806RH	LS1806RH	LS1806RH
	Wrench	H4	H4	H4	H4
	Inner	CENC 402-43	CENC 402-43	CENC 402-43	CENC 402-43
	Screw	LS1206	LS1206	LS1206	LS1206
	Wrench	H3L	H3L	H3L	H3L
	Center	CENC 402-43	CENC 402-63	CENC 402-63	CENC 402-63
	Screw	LS1206	LS1206S	LS1206S	LS1206S
	Wrench	H3L	H3L	H3L	H3L
Insert	Outer	TPMX 240512R-G	TPMX 240512R-G	TPMX 240512R-G	TPMX 240512R-G
	Screw	CSTB4M	CSTB4M	CSTB4M	CSTB4M
	Wrench	T-15D	T-15D	T-15D	T-15D
	Inner	TPMX 240512R-G	TPMX 240512R-G	TPMX 240512R-G	TPMX 240512R-G
	Screw	CSTB4M	CSTB4M	CSTB4M	CSTB4M
	Wrench	T-15D	T-15D	T-15D	T-15D
	Center	TPMX 240512R-G	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G
	Screw	CSTB4M	CSTB5	CSTB5	CSTB5
	Wrench	T-15D	T-15D	T-15D	T-15D
Pad	Guide pad	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB
		PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC
	Screw	LS1206S	LS1206S	LS1206S	LS1206S
	Wrench	H3	H3	H3	H3
	Guide pad protector	PAD-P18	PAD-P18	PAD-P18	PAD-P18
	Screw	LS1206S	LS1206S	LS1206S	LS1206S
	Wrench	H3	H3	H3	H3
	Sub guide pad	PAD-S14	PAD-S14	PAD-S14	PAD-S14
	Screw	CSTA5S	CSTA5S	CSTA5S	CSTA5S
	Wrench	T-15D	T-15D	T-15D	T-15D

Guide Pad
Cartridge
D184 D187 D190

TBTA7 Series

Assembly of TBTA7 series



1. Head shank
2. Outer cartridge
3. Inner cartridge
4. Center cartridge
5. Guide pad
6. Sub guide pad
7. Guide pad protector
8. Lock screw
9. Filler

Parts		Diameter (mm)			
		209.00-214.99	215.00-220.99	221.00-226.99	227.00-232.99
Cartridge	Outer	PERC 402-63	PERC 402-63	PERC 402-63	PERC 402-63
	Adjust screw	AS0006-15	AS0006-15	AS0006-15	AS0005-15
	Wrench	H3	H3	H3	H3
	Screw	L1806RH	L1806RH	L1806RH	LS1806RH
	Wrench	H4	H4	H4	H4
	Inner	CENC 402-43	CENC 402-43	CENC 402-43	CENC 402-63
	Screw	LS1206	LS1206	LS1206	LS1206
	Wrench	H3L	H3L	H3L	H3L
	Center	CENC 402-63	CENC 402-63	CENC 402-63	CENC 402-63
	Screw	LS1206S	LS1206	LS1206	LS1206S
	Wrench	H3L	H3L	H3L	H3L
Insert	Outer	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G
	Screw	CSTB5	CSTB5	CSTB5	CSTB5
	Wrench	T-20D	T-20D	T-20D	T-20D
	Inner	TPMX 240512R-G	TPMX 240512R-G	TPMX 240512R-G	TPMX 280716R-G
	Screw	CSTB4M	CSTB4M	CSTB4M	CSTB5
	Wrench	T-15D	T-15D	T-15D	T-15D
	Center	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G
	Screw	CSTB5	CSTB5	CSTB5	CSTB5
	Wrench	T-20D	T-20D	T-20D	T-20D
Pad	Guide pad	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB
		PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC
	Screw	LS1206S	LS1206S	LS1206S	LS1206S
	Wrench	H3	H3	H3	H3
	Guide pad protector	PAD-P18	PAD-P18	PAD-P18	PAD-P18
	Screw	LS1206S	LS1206S	LS1206S	LS1206S
	Wrench	H3	H3	H3	H3
	Sub guide pad	PAD-S14	PAD-S14	PAD-S14	PAD-S14
	Screw	CSTA5S	CSTA5S	CSTA5S	CSTA5S
	Wrench	T-15D	T-15D	T-15D	T-15D


D184

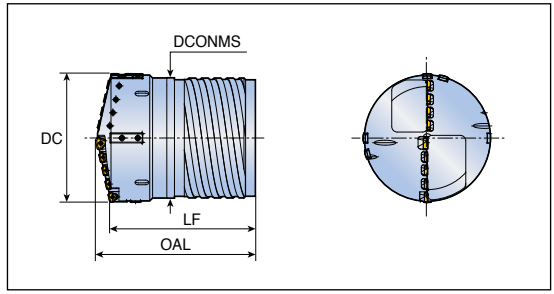

D187


D190

TBTA9...SE4

TDEEP

Single tube system



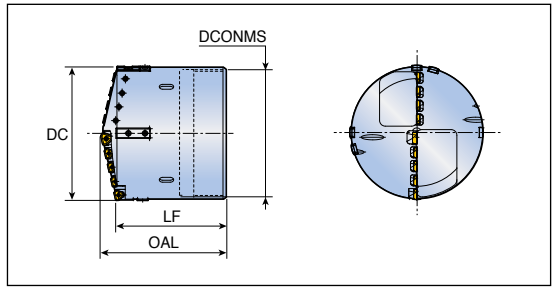
• Outer four start thread

Designation	DC	Dimension (mm)			Tube	
		LF	OAL	DCONMS	Part	Diameter (mm)
TBTA9 - xxx.xxSE4-226	233.00-243.99	265	294	220	BTSI 226	226
xxx.xxSE4-238	244.00-255.99	265	294	232	BTSI 238	238
xxx.xxSE4-250	256.00-267.99	290	322	244	BTSI 250	250
xxx.xxSE4-262	268.00-279.99	290	323	256	BTSI 262	262
xxx.xxSE4-274	280.00-291.99	290	325	268	BTSI 274	274

TBTA9...SI1

TDEEP

Single tube system



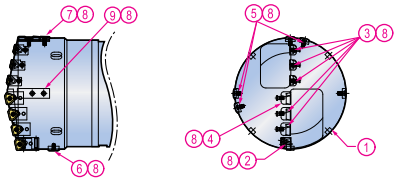
• Inner single start thread

Designation	DC	Dimension (mm)			Tube	
		LF	OAL	DCONMS	Part	Diameter (mm)
TBTA9 - xxx.xxSI1-214	233.00-233.99	190	217	211	BTSE 214	214
xxx.xxSI1-226	234.00-245.99	190	219	223	BTSE 226	226
xxx.xxSI1-238	246.00-257.99	190	221	235	BTSE 238	238
xxx.xxSI1-250	258.00-269.99	210	242	245	BTSE 250	250
xxx.xxSI1-262	270.00-281.99	210	244	259	BTSE 262	262
xxx.xxSI1-274	282.00-293.99	210	245	271	BTSE 274	274

Assembly D113 | Tube D135 | Cutting Condition D216

TBTA9 Series

Assembly of TBTA9 series



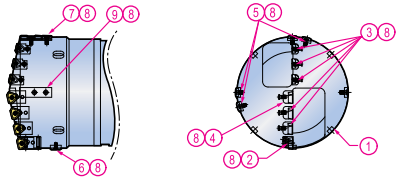
1. Head shank
2. Outer cartridge
3. Inner cartridge
4. Center cartridge
5. Guide pad
6. Sub guide pad
7. Guide pad protector
8. Lock screw
9. Filler

Parts		Diameter (mm)				
		233.00-247.99	248.00-253.99	254.00-258.99	259.00-264.99	265.00-271.99
Cartridge	Outer	PERC 402-43	PERC 402-63	PERC 402-63	PERC 402-63	PERC 402-63
	Adjust screw	AS0005-15	AS0006-15	AS0006-15	AS0006-15	AS0006-15
	Wrench	H2.5	H3	H3	H3	H3
	Screw	LS1806RH	L1806RH	L1806RH	L1806RH	L1806RH
	Wrench	H4	H4	H4	H4	H4
	Inner	CENC 402-43	CENC 402-43	CENC 402-43	CENC 402-43	CENC 402-43
	Screw	LS1206	LS1206	LS1206	LS1206	LS1206
	Wrench	H3L	H3L	H3L	H3L	H3L
	Center	CENC 402-63	CENC 402-63	CENC 402-63	CENC 402-63	CENC 402-63
	Screw	LS1206S	LS1206S	LS1206S	LS1206S	LS1206S
	Wrench	H3L	H3L	H3L	H3L	H3L
Insert	Outer	TPMX 240512R-G	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G
	Screw	CSTB4M	CSTB5	CSTB5	CSTB5	CSTB5
	Wrench	T-15D	T-20D	T-20D	T-20D	T-20D
	Inner	TPMX 240512R-G	TPMX 240512R-G	TPMX 240512R-G	TPMX 240512R-G	TPMX 240512R-G
	Screw	CSTB4M	CSTB4M	CSTB4M	CSTB4M	CSTB4M
	Wrench	T-15D	T-15D	T-15D	T-15D	T-15D
	Center	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G
	Screw	CSTB5	CSTB5	CSTB5	CSTB5	CSTB5
	Wrench	T-20D	T-20D	T-20D	T-20D	T-20D
Pad	Guide pad	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB
		PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC
	Screw	LS1206S	LS1206S	LS1206S	LS1206S	LS1206S
	Wrench	H3	H3	H3	H3	H3
	Guide pad protector	PAD-P18	PAD-P18	PAD-P18	PAD-P18	PAD-P18
	Screw	LS1206S	LS1206S	LS1206S	LS1206S	LS1206S
	Wrench	H3	H3	H3	H3	H3
	Sub guide pad	PAD-S14	PAD-S14	PAD-S14	PAD-S14	PAD-S14
	Screw	CSTA5S	CSTA5S	CSTA5S	CSTA5S	CSTA5S
	Wrench	T-15D	T-15D	T-15D	T-15D	T-15D

D184 Guide Pad D187 Cartridge D190

TBTA9 Series

Assembly of TBTA9 series



1. Head shank
2. Outer cartridge
3. Inner cartridge
4. Center cartridge
5. Guide pad
6. Sub guide pad
7. Guide pad protector
8. Lock screw
9. Filler

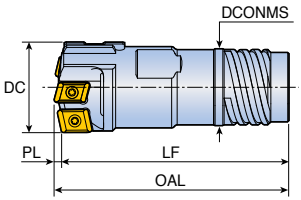
Parts		Diameter (mm)			
		272.00-275.99	276.00-284.99	285.00-289.99	290.00-293.99
Cartridge	Outer	PERC 402-63	PERC 402-63	PERC 402-63	PERC 402-63
	Adjust screw	AS0006-15	AS0006-15	AS0006-15	AS0006-15
	Wrench	H3	H3	H3	H3
	Screw	L1806RH	L1806RH	L1806RH	L1806RH
	Wrench	H4	H4	H4	H4
	Inner	CENC 402-63	CENC 402-63	CENC 402-63	CENC 402-63
	Screw	LS1206S	LS1206S	LS1206S	LS1206S
	Wrench	H3L	H3L	H3L	H3L
	Center	CENC 402-63	CENC 402-63	CENC 402-63	CENC 402-63
	Screw	LS1206S	LS1206S	LS1206S	LS1206S
	Wrench	H3L	H3L	H3L	H3L
Insert	Outer	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G
	Screw	CSTB5	CSTB5	CSTB5	CSTB5
	Wrench	T-20D	T-20D	T-20D	T-20D
	Inner	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G
	Screw	CSTB5	CSTB5	CSTB5	CSTB5
	Wrench	T-20D	T-20D	T-20D	T-20D
	Center	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G	TPMX 280716R-G
	Screw	CSTB5	CSTB5	CSTB5	CSTB5
	Wrench	T-20D	T-20D	T-20D	T-20D
Pad	Guide pad	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB	PAD-GP18-40-300-DC-SB
		PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC	PAD-GP18-40-300-DC-SC
	Screw	LS1206S	LS1206S	LS1206S	LS1206S
	Wrench	H3	H3	H3	H3
	Guide pad protector	PAD-P18	PAD-P18	PAD-P18	PAD-P18
	Screw	LS1206S	LS1206S	LS1206S	LS1206S
	Wrench	H3	H3	H3	H3
	Sub guide pad	PAD-S14	PAD-S14	PAD-S14	PAD-S14
	Screw	CSTA5S	CSTA5S	CSTA5S	CSTA5S
	Wrench	T-15D	T-15D	T-15D	T-15D

D184 Guide Pad D187 Cartridge D190

TBTA-FB...SE4

TDEEP

Single tube system



• Outer four start thread

Designation	DC	Dimension (mm)				Tube	
		LF	OAL	DCONMS	PL	Part	Diameter (mm)
TBTA-FB xx.xxSE4-22	25.00-26.40	70	73	19.5	3	BTSI 022	22
xx.xxSE4-24	26.41-28.70	70	73	21.0	3	BTSI 024	24
xx.xxSE4-26	28.71-31.00	75	78	23.5	3	BTSI 026	26
xx.xxSE4-28	31.01-33.30	75	78	25.5	3	BTSI 028	28
xx.xxSE4-30	33.31-36.20	80	83	28.0	3	BTSI 030	30
xx.xxSE4-33	36.21-39.60	90	93	30.0	3	BTSI 033	33
xx.xxSE4-36	39.61-43.00	95	99	33.0	4	BTSI 036	36
xx.xxSE4-39	43.01-47.00	100	104	36.0	4	BTSI 039	39
xx.xxSE4-43	47.01-51.70	100	104	39.0	4	BTSI 043	43
xx.xxSE4-47	51.71-56.20	110	114	43.0	4	BTSI 047	47
xx.xxSE4-51	56.21-60.60	115	120	47.0	5	BTSI 051	51
xx.xxSE4-51	60.61-65.00	115	120	47.0	5	BTSI 051	51
xx.xxSE4-56A	60.61-65.00	115	120	51.0	5	BTSI 056A	56
xx.xxSE4-56B	65.01-66.99	141	149	52.0	8	BTSI 056B	56
xx.xxSE4-62	67.00-72.99	141	149	58.0	8	BTSI 062	62
xx.xxSE4-68	73.00-79.99	141	150	63.0	9	BTSI 068	68
xx.xxSE4-75	80.00-86.99	164	173	70.0	9	BTSI 075	75
xx.xxSE4-82	87.00-89.00	164	173	77.0	9	BTSI 082	82

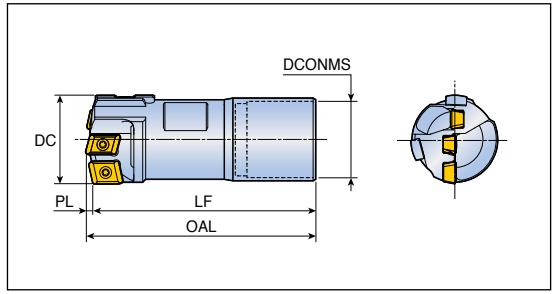
Assembly D118 | Tube D135 | Cutting Condition D218

• Insert and guide pad are sold separately from drill body.

TBTA-FB...SI1

TDEEP

Single tube system



• Inner single start thread

Designation		DC	Dimension (mm)				Tube	
			LF	OAL	DCONMS	PL	Part	Diameter (mm)
TBTA-FB	**xx.xxSI1-22**	25.00-26.99	70	73	20	3	BTSE 022	22
	xx.xxSI1-24	27.00-29.00	70	73	22	3	BTSE 024	24
	xx.xxSI1-24	29.01-29.99	70	73	22	3	BTSE 024	24
	xx.xxSI1-26	30.00-31.99	75	78	24	3	BTSE 026	26
	xx.xxSI1-28	32.00-33.99	75	78	26	3	BTSE 028	28
	xx.xxSI1-30	34.00-36.99	90	93	27	3	BTSE 030	30
	xx.xxSI1-33	37.00-39.99	95	98	30	3	BTSE 033	33
	xx.xxSI1-36	40.00-43.99	100	104	33	4	BTSE 036	36
	xx.xxSI1-39	44.00-46.99	105	109	37	4	BTSE 039	39
	xx.xxSI1-43	47.00-51.99	105	109	41	4	BTSE 043	43
	xx.xxSI1-47	52.00-56.99	110	114	44	4	BTSE 047	47
	xx.xxSI1-51	57.00-60.99	115	120	49	5	BTSE 051	51
	xx.xxSI1-56	61.00-65.00	115	120	53	5	BTSE 056	56
	xx.xxSI1-56	65.01-67.99	104	112	53	8	BTSE 056	56
	xx.xxSI1-62	68.00-74.99	104	113	59	9	BTSE 062	62
	xx.xxSI1-68	75.00-80.99	134	143	65	9	BTSE 068	68
	xx.xxSI1-75	81.00-89.00	134	143	71	9	BTSE 075	75

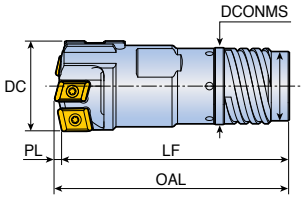
Assembly D118 | Tube D135 | Cutting Condition D218

• Insert and guide pad are sold separately from drill body.

ADVANCE CUTTING TaeguTec

TBTA-FB...DE4

Double tube system



• Outer four start thread

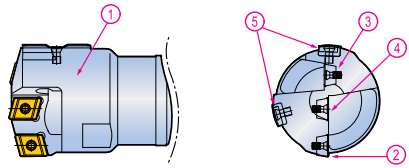
Designation	DC	Dimension (mm)				Tube		
		LF	OAL	DCONMS	PL	Outer tube	Inner tube	Diameter (mm)
TBTA-FB xx.xxDE4-23.5	25.00-26.40	70	73	21.0	3	BTDO 023.5	BTDI 016	23.5
xx.xxDE4-26	26.41-28.70	75	78	23.5	3	BTDO 026	BTDI 018	26.0
xx.xxDE4-28	28.71-31.00	75	78	25.5	3	BTDO 028	BTDI 020	28.0
xx.xxDE4-30.5	31.01-33.30	80	83	28.0	3	BTDO 030.5	BTDI 022	30.5
xx.xxDE4-33	33.31-36.20	90	93	30.0	3	BTDO 033	BTDI 024	33.0
xx.xxDE4-35.5	36.21-39.60	95	99	33.0	4	BTDO 035.5	BTDI 026	35.5
xx.xxDE4-39	39.61-43.00	100	104	36.0	4	BTDO 039	BTDI 029	39.0
xx.xxDE4-42.5	43.01-47.00	100	104	39.0	4	BTDO 042.5	BTDI 032	42.5
xx.xxDE4-46.5	47.01-51.70	110	114	43.0	4	BTDO 046.5	BTDI 035	46.5
xx.xxDE4-51	51.71-56.20	115	120	47.5	5	BTDO 051	BTDI 039	51.0
xx.xxDE4-55.5	56.21-65.00	115	120	51.0	5	BTDO 055.5	BTDI 043A	55.5

Assembly D118 | Tube D135 | Cutting Condition D218

• Insert and guide pad are sold separately from drill body.

TBTA-FB Series

Assembly of TBTA-FB series



1. Head shank
2. Outer insert
3. Inner insert
4. Center insert
5. Guide pad

	Parts	Diameter (mm)			
		25.00-28.00	28.01-29.99	30.00-35.00	35.01-38.00
Insert	PER	NPHT 060304R-G-P	NPHT 060304R-G-P	NPHT 080404R-G-P	NPHT 080404R-G-P
	Screw	CSTB2.2	CSTB2.2	SR 14-560-HG	SR 14-560-HG
	Wrench	T-7F	T-7F	T-8F	T-8F
	INT	NPMT 060304R-G-I	NPMT 060304R-G-I	NPMT 070404R-G-I	NPMT 070404R-G-I
	Screw	CSTB2.2	CSTB2.2	SR 14-560-HG	SR 14-560-HG
	Wrench	T-7F	T-7F	T-8F	T-8F
	CEN	NPMT 060308L-G-C	NPMT 070408L-G-C	NPMT 070408L-G-C	NPMT 080480L-G-C
	Screw	CSTB2.2	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG
	Wrench	T-7F	T-8F	T-8F	T-8F
Pad	PAD	PAD-GP06-20-120-DC-SB	PAD-GP06-20-120-DC-SB	PAD-GP07-20-120-DC-SB	PAD-GP07-20-120-DC-SB
		PAD-GP06-20-120-DC-SC	PAD-GP06-20-120-DC-SC	PAD-GP07-20-120-DC-SC	PAD-GP07-20-120-DC-SC
	Screw	CSTB2.2S	CSTB2.2S	CSTB3S	CSTB3S
	Wrench	T-7F	T-7F	T-9F	T-9F

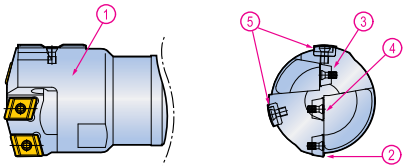
	Parts	Diameter (mm)			
		38.01-39.00	39.01-41.00	41.01-44.00	44.01-45.00
Insert	PER	NPHT 090404R-G-P	NPHT 090404R-G-P	NPHT 090404R-G-P	NPHT 090404R-G-P
	Screw	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG
	Wrench	T-8F	T-8F	T-8F	T-8F
	INT	NPMT 070404R-G-I	NPMT 070404R-G-I	NPMT 080404R-G-I	NPMT 080404R-G-I
	Screw	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG
	Wrench	T-8F	T-8F	T-8F	T-8F
	CEN	NPMT 100408L-G-C	NPMT 100408L-G-C	NPMT 100408L-G-C	NPMT 100408L-G-C
	Screw	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG
	Wrench	T-8F	T-8F	T-8F	T-8F
Pad	PAD	PAD-GP07-20-120-DC-SB	PAD-GP08-25-155-DC-SB	PAD-GP08-25-155-DC-SB	PAD-GP08-25-155-DC-SB
		PAD-GP07-20-120-DC-SC	PAD-GP08-25-155-DC-SC	PAD-GP08-25-155-DC-SC	PAD-GP08-25-155-DC-SC
	Screw	CSTB3S	CSTB3S	CSTB3S	CSTB3S
	Wrench	T-9F	T-9F	T-9F	T-9F

D181 Guide Pad D188

• Insert and guide pad are sold separately from drill body.

TBTA-FB Series

Assembly of TBTA-FB series



1. Head shank
2. Outer insert
3. Inner insert
4. Center insert
5. Guide pad

	Parts	Diameter (mm)			
		45.01-47.00	47.01-51.00	51.01-54.00	54.01-57.00
Insert	PER	NPHT 090404R-G-P	NPHT 110404R-G-P	NPHT 110404R-G-P	NPHT 110404R-G-P
	Screw	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG
	Wrench	T-8F	T-8F	T-8F	T-8F
	INT	NPMT 080404R-G-I	NPMT 080404R-G-I	NPMT 100404R-G-I	NPMT 100404R-G-I
	Screw	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG
	Wrench	T-8F	T-8F	T-8F	T-8F
	CEN	NPMT 100408L-G-C	NPMT 100408L-G-C	NPMT 100408L-G-C	NPMT 130408L-G-C
	Screw	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG
	Wrench	T-8F	T-8F	T-8F	T-8F
Pad	PAD	PAD-GP10-30-200-DC-SB	PAD-GP10-30-200-DC-SB	PAD-GP10-30-200-DC-SB	PAD-GP10-30-200-DC-SB
		PAD-GP10-30-200-DC-SC	PAD-GP10-30-200-DC-SC	PAD-GP10-30-200-DC-SC	PAD-GP10-30-200-DC-SC
	Screw	CSTB3.5	CSTB3.5	CSTB3.5	CSTB3.5
	Wrench	T-15F	T-15F	T-15F	T-15F

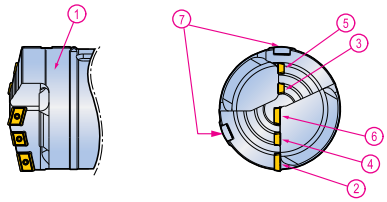
	Parts	Diameter (mm)		
		57.01-60.00	60.01-64.00	64.01-65.00
Insert	PER	NPHT 110404R-G-P	NPHT 130404R-G-P	NPHT 130404R-G-P
	Screw	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG
	Wrench	T-8F	T-8F	T-8F
	INT	NPMT 100404R-G-I	NPMT 100404R-G-I	NPMT 130404R-G-I
	Screw	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG
	Wrench	T-8F	T-8F	T-8F
	CEN	NPMT 130408L-G-C	NPMT 130408L-G-C	NPMT 130408L-G-C
	Screw	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG
	Wrench	T-8F	T-8F	T-8F
Pad	PAD	PAD-GP12-35-250-DC-SB	PAD-GP12-35-250-DC-SB	PAD-GP12-35-250-DC-SB
		PAD-GP12-35-250-DC-SC	PAD-GP12-35-250-DC-SC	PAD-GP12-35-250-DC-SC
	Screw	CSTB3.5	CSTB3.5	CSTB3.5
	Wrench	T-15F	T-15F	T-15F

D181
Guide Pad D188

• Insert and guide pad are sold separately from drill body.

TBTA-FB Series

Assembly of TBTA-FB series



1. Head shank
2. Outer insert
3. Inner insert 1
4. Inner insert 2
5. Inner insert 3
6. Center insert
7. Guide pad

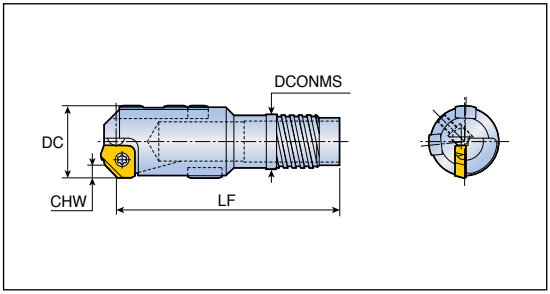
Parts		Diameter (mm)		
		65.01-71.00	71.01-83.00	83.01-89.00
Insert	PER	NPHT 110404R-G-P	NPHT 130404R-G-P	NPHT 130404R-G-P
	Screw	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG
	Wrench	T-8F	T-8F	T-8F
	INT	NPMT 080404R-G-I	NPMT 080404R-G-I	NPMT 080404R-G-I
	Screw	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG
	Wrench	T-8F	T-8F	T-8F
	INT2	NPMT 080404R-G-I	NPMT 080404R-G-I	NPMT 100404R-G-I
	Screw	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG
	Wrench	T-8F	T-8F	T-8F
	INT3	NPMT 070404R-G-I	NPMT 080404R-G-I	NPMT 080404R-G-I
	Screw	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG
	Wrench	T-8F	T-8F	T-8F
	CEN	NPMT 100408L-G-C	NPMT 100408L-G-C	NPMT 130408L-G-C
	Screw	SR 14-560-HG	SR 14-560-HG	SR 14-560-HG
	Wrench	T-8F	T-8F	T-8F
Pad	PAD	PAD-GP12-35-250-DC-SB	PAD-GP12-35-250-DC-SB	PAD-GP12-35-250-DC-SB
		PAD-GP12-35-250-DC-SC	PAD-GP12-35-250-DC-SC	PAD-GP12-35-250-DC-SC
	Screw	CSTB3.5	CSTB3.5	CSTB3.5
	Wrench	T-15F	T-15F	T-15F

D181 Guide Pad D188

• Insert and guide pad are sold separately from drill body.

TBTA-R...SE4

Single tube system



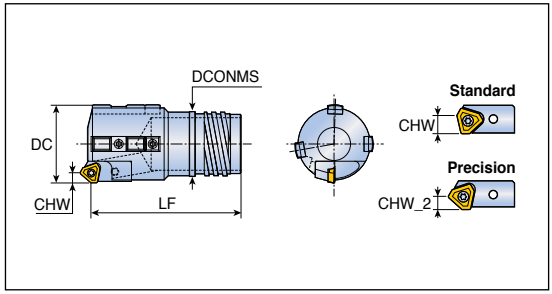
• Outer four start thread

Designation	DC	CHW	Dimension (mm)		Tube	
			LF	DCONMS	Part	Diameter (mm)
TBTA-R xxx.xxSE4-22	25.00-26.40	2.8	72.5	19.5	BTSI 022	22
xxx.xxSE4-24	26.41-28.70	2.8	72.5	21.0	BTSI 024	24
xxx.xxSE4-26	28.71-31.00	2.8	72.5	23.5	BTSI 026	26
xxx.xxSE4-28	31.01-33.30	2.8	75.5	25.5	BTSI 028	28
xxx.xxSE4-30	33.31-36.20	2.8	75.5	28.0	BTSI 030	30
xxx.xxSE4-33	36.21-39.60	2.8	90.5	30.0	BTSI 033	33
xxx.xxSE4-36	39.61-39.99	2.8	90.5	33.0	BTSI 036	36

Assembly D124 | Tube D135 | Cutting Condition D216

TBTA-R...SE4

Single tube system



• Outer four start thread

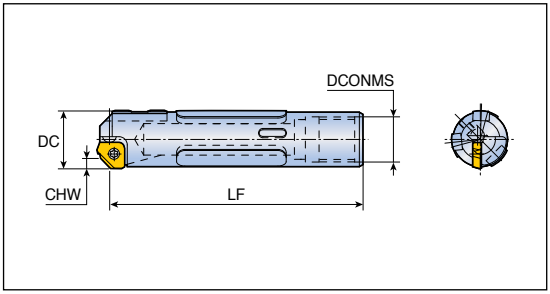
Designation	DC	CHW (mm)		Dimension (mm)		Tube	
		Standard	Precision	LF	DCONMS	Part	Diameter (mm)
TBTA-R xxx.xxSE4-36	40.00-43.00	6.4	4	90	33.0	BTSI 036	36
xxx.xxSE4-39	43.01-47.00	6.4	4	95	36.0	BTSI 039	39
xxx.xxSE4-43	47.01-51.70	6.4	4	95	39.0	BTSI 043	43
xxx.xxSE4-47	51.71-56.20	6.4/7.2	4/4.8	100	43.0	BTSI 047	47
xxx.xxSE4-51	56.21-60.60	7.2	4.8	110	47.0	BTSI 051	51
xxx.xxSE4-56A	60.61-65.00	7.2	4.8	110	51.0	BTSI 056A	56
xxx.xxSE4-56B	65.00-66.99	7.2	4.8	150	52.0	BTSI 056B	56
xxx.xxSE4-62	67.00-72.99	10.4	6.4	150	58.0	BTSI 062	62
xxx.xxSE4-68	73.00-79.99	10.4	6.4	150	63.0	BTSI 068	68
xxx.xxSE4-75	80.00-86.99	10.4	6.4	180	70.0	BTSI 075	75
xxx.xxSE4-82	87.00-99.99	10.4	6.4	180	77.0	BTSI 082	82

Assembly D124 | Tube D135 | Cutting Condition D216

TBTA-R...SI1

TDEEP

Single tube system



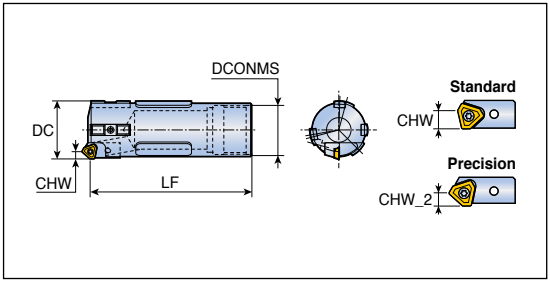
• Inner single start thread

Designation		DC	CHW (mm)	Dimension (mm)		Tube	
				LF	DCONMS	Part	Diameter (mm)
TBTA-R-	**xxx.xxSI1-22**	25.00-26.99	2.8	110.5	20	BTSE 022	22
	xxx.xxSI1-24	27.00-29.99	2.8	110.5	22	BTSE 024	24
	xxx.xxSI1-26	30.00-31.99	2.8	110.5	24	BTSE 026	26
	xxx.xxSI1-28	32.00-33.99	2.8	110.5	26	BTSE 028	28
	xxx.xxSI1-30	34.00-36.99	2.8	135.5	27	BTSE 030	30
	xxx.xxSI1-33	37.00-39.99	2.8	135.5	30	BTSE 033	33

TBTA-R...SI1

TDEEP

Single tube system



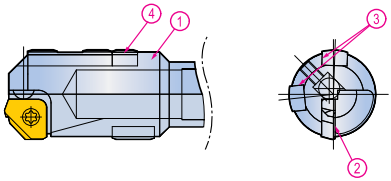
• Inner single start thread

Designation		DC	CHW (mm)		Dimension (mm)		Tube	
			Standard	Precision	LF	DCONMS	Part	Diameter (mm)
TBTA-R-	**xxx.xxSI1-36**	40.00-43.99	6.4	4	135	33	BTSE 036	36
	xxx.xxSI1-39	44.00-46.99	6.4	4	135	37	BTSE 039	39
	xxx.xxSI1-43	47.00-51.99	6.4	4	145	41	BTSE 043	43
	xxx.xxSI1-47	52.00-56.99	7.2	4.8	145	44	BTSE 047	47
	xxx.xxSI1-51	57.00-60.99	7.2	4.8	170	49	BTSE 051	51
	xxx.xxSI1-56	61.00-67.99	7.2/10.4	4.8/6.4	170	53	BTSE 056	56
	xxx.xxSI1-62	68.00-74.99	10.4	6.4	170	59	BTSE 062	62
	xxx.xxSI1-68	75.00-80.99	10.4	6.4	205	65	BTSE 068	68
	xxx.xxSI1-75	81.00-90.99	10.4	6.4	215	71	BTSE 075	75
	xxx.xxSI1-82	91.00-98.99	10.4	6.4	225	79	BTSE 082	82
	xxx.xxSI1-94	99.00-110.99	10.4	6.4	235	90	BTSE 094	94

Assembly D124 | Tube D135 | Cutting Condition D216

TBTA-R Series

Assembly of TBTA-R series



1. Head shank
2. Insert
3. Guide pad
4. Guide pad protector

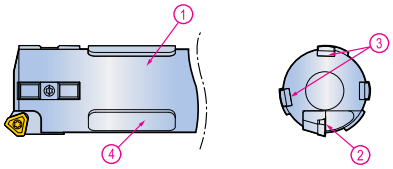
Parts			Diameter (mm)			
			25.00-27.99	28.00-29.99	30.00-37.99	38.00-39.99
Close tolerance	Cartridge	Adjust ball	BALL5	BALL5	BALL5	BALL5
		Adjust screw	AS0005-5	AS0005-5	AS0005-5	AS0005-5
		Wrench	H2.5	H2.5	H2.5	H2.5
		Screw	-	-	-	-
		Wrench	-	-	-	-
	Insert	Insert	XPMT 16002-45	XPMT 16002-45	XPMT 16002-45	XPMT 16002-45
		Screw	CSTANO3	CSTANO3	CSTANO3	CSTANO3
		Wrench	T-9D	T-9D	T-9D	T-9D
Normal tolerance	Cartridge	Outer	-	-	-	-
		Adjust screw	-	-	-	-
		Wrench	-	-	-	-
		Screw	-	-	-	-
		Wrench	-	-	-	-
	Insert	Insert	XPMT 16002-45	XPMT 16002-45	XPMT 16002-45	XPMT 16002-45
		Screw	CSTANO3	CSTANO3	CSTANO3	CSTANO3
		Wrench	T-9D	T-9D	T-9D	T-9D
Pad		Guide pad (A)	PAD-GP06-20-120-DC-SB	PAD-GP06-20-120-DC-SB	PAD-GP07-20-120-DC-SB	PAD-GP08-25-155-DC-SB
			PAD-GP06-20-120-DC-SC	PAD-GP06-20-120-DC-SC	PAD-GP07-20-120-DC-SC	PAD-GP08-25-155-DC-SC
		Screw	CSTB2.2S	CSTB2.2S	CSTB3S	CSTB3S
		Wrench	T-9D	T-9D	T-9D	T-9D
		Guide pad protector (B)	-	-	-	PAD-P08
		Screw	-	-	-	CSTB3S
		Wrench	-	-	-	T-9D
		Resin guide pad (C)	PAD-R10	PAD-R10	PAD-R12	PAD-R15
		Screw	LS0902, 5-6	LS0902, 5-6	LS0903-8	LS0904-10
		Wrench	-	-	H2	H2.5

D186 Guide Pad D189 Cartridge D191

- A + B is for outer four start thread connection type
- A + C is for inner single start thread connection type

TBTA-R Series

Assembly of TBTA-R series



1. Head shank
2. Cartridge & lock screw
3. Guide pad
4. Resin guide pad & lock screw

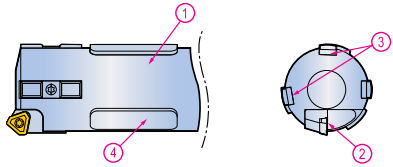
Parts			Diameter (mm)			
			40.00-45.99	46.00-51.99	52.00-56.99	57.00-59.99
Close tolerance	Cartridge	Outer	PERC-P 04R	PERC-P 04R	PERC-P 32R	PERC-P 32R
		Adjust screw	AS0004-8	AS0004-8	AS0005-10	AS0005-10
		Wrench	H2	H2	H2.5	H2.5
		Screw	LS1803.5RH	LS1803.5RH	LS1805RH	LS1805RH
		Wrench	H2.5	H2.5	H3	H3
	Insert	Insert	TPMX 1403LG	TPMX 1403LG	TPMX 1704LG	TPMX 1704LG
		Screw	CSTB2.5	CSTB2.5	CSTB3.5D	CSTB3.5D
		Wrench	T-8D	T-8D	T-8D	T-8D
Normal tolerance	Cartridge	Outer	PERC 402-04	PERC 402-04	PERC 402-32	PERC 402-32
		Adjust screw	AS0004-8	AS0004-8	AS0005-10	AS0005-10
		Wrench	H2	H2	H2.5	H2.5
		Screw	LS1803.5RH	LS1803.5RH	LS1805RH	LS1805RH
		Wrench	H2.5	H2.5	H3	H3
	Insert	Insert	TPMX 140308R-G	TPMX 140308R-G	TPMX 170408R-G	TPMX 170408R-G
		Screw	CSTB2.5	CSTB2.5	CSTB3.5D	CSTB3.5D
		Wrench	T-8D	T-8D	T-8D	T-8D
Pad		Guide pad (A)	PAD-GP08-25-155-DC-SB	PAD-GP10-30-200-DC-SB	PAD-GP10-30-200-DC-SB	PAD-GP14-40-250-DC-SB
			PAD-GP08-25-155-DC-SC	PAD-GP10-30-200-DC-SC	PAD-GP10-30-200-DC-SC	PAD-GP14-40-250-DC-SC
		Screw	CSTB3S	CSTB3.5	CSTB3.5	CSTA5S
		Wrench	T-9D	T-15D	T-15D	T-15D
		Guide pad protector (B)	PAD-P08	PAD-P10	PAD-P10	PAD-P14
		Screw	CSTB3S	CSTB4S	CSTB4S	CSTA5S
		Wrench	T-9D	T-15D	T-15D	T-15D
		Resin guide pad (C)	PAD-R15	PAD-R15	PAD-R15	PAD-R20
		Screw	LS0904-10	LS0904-10	LS0904-10	LS0905-12
		Wrench	H2.5	H2.5	H2.5	H3

D186 Guide Pad D189 Cartridge D191

- A + B is for outer four start thread connection type
- A + C is for inner single start thread connection type

TBTA-R Series

Assembly of TBTA-R series



1. Head shank
2. Cartridge & lock screw
3. Guide pad
4. Resin guide pad & lock screw

Parts			Diameter (mm)			
			60.00-80.99	81.00-90.99	91.00-99.99	100.00-122.99
Close tolerance	Cartridge	Outer	PERC-P 43R	PERC-P 43R	PERC-P 43R	PERC-P 43R
		Adjust screw	AS0005-15	AS0005-15	AS0005-15	AS0005-15
		Wrench	H2.5	H2.5	H2.5	H2.5
		Screw	LS1806RH	LS1806RH	LS1806RH	LS1806RH
		Wrench	H4	H4	H4	H4
	Insert	Insert	TPMX 2405LG	TPMX 2405LG	TPMX 2405LG	TPMX 2405LG
		Screw	CSTB4M	CSTB4M	CSTB4M	CSTB4M
		Wrench	T-15D	T-15D	T-15D	T-15D
Normal tolerance	Cartridge	Outer	PERC 402-43	PERC 402-43	PERC 402-43	PERC 402-43
		Adjust screw	AS0005-15	AS0005-15	AS0005-15	AS0005-15
		Wrench	H2.5	H2.5	H2.5	H2.5
		Screw	LS1806RH	LS1806RH	LS1806RH	LS1806RH
		Wrench	H4	H4	H4	H4
	Insert	Insert	TPMX 240512R-G	TPMX 170408R-G	TPMX 170408R-G	TPMX 170408R-G
		Screw	CSTB4M	CSTB4M	CSTB4M	CSTB4M
		Wrench	T-15D	T-15D	T-15D	T-15D
Pad		Guide pad (A)	PAD-GP14-40-250-DC-SB	PAD-GP14-40-250-DC-SB	PAD-GP14-40-250-DC-SB	PAD-GP18-40-300-DC-SB
			PAD-GP14-40-250-DC-SC	PAD-GP14-40-250-DC-SC	PAD-GP14-40-250-DC-SC	PAD-GP18-40-300-DC-SC
		Screw	CSTA5S	CSTA5S	CSTA5S	LS1206S
		Wrench	T-15D	T-15D	T-15D	H3
		Guide pad protector (B)	PAD-P14	PAD-P14	PAD-P14	PAD-P18
		Screw	CSTA5S	CSTA5S	CSTA5S	LS1206S
		Wrench	T-15D	T-15D	T-15D	H3
		Resin guide pad (C)	PAD-R20	PAD-R30	PAD-R35	PAD-R35
		Screw	LS0905-12	LS0906-15	LS0906-15	LS0906-15
		Wrench	H3	H4	H4	H4

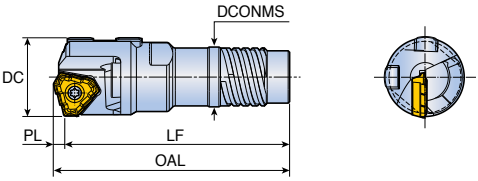
D186 Guide Pad D189 Cartridge D191

- A + B is for outer four start thread connection type
- A + C is for inner single start thread connection type

TBTA-TR…SE4

TDEEP

Single tube system



• Outer four start thread

Designation		DC	Dimension (mm)				Tube	
			LF	OAL	DCONMS	PL	Part	Diameter (mm)
TBTA-	**TRxx.xxSE4-14**	16.00-16.70	55.0	57.2	12.6	2.2	BTSI 014	14
	TRxx.xxSE4-15	16.71-17.70	55.0	57.2	13.6	2.2	BTSI 015	15
	TRxx.xxSE4-16	17.71-18.90	56.0	59.0	14.5	3.0	BTSI 016	16
	TRxx.xxSE4-17	18.91-20.00	56.0	59.0	15.5	3.0	BTSI 017	17
	TRxx.xxSE4-18	20.01-21.80	60.0	63.2	16.0	3.2	BTSI 018	18
	TRxx.xxSE4-20	21.81-21.99	63.5	66.7	18.0	3.2	BTSI 020	20
	TRxx.xxSE4-20	22.00-24.10	65.5	68.9	18.0	3.4	BTSI 020	20
	TRxx.xxSE4-22	24.11-26.40	65.5	69.1	19.5	3.6	BTSI 022	22
	TRxx.xxSE4-24	26.41-28.00	65.6	69.1	21.0	3.6	BTSI 024	24
	TRxx.xxSE4-24	28.01-28.70	70.0	74.6	21.0	4.6	BTSI 024	24
	TRxx.xxSE4-26	28.71-29.99	75.0	79.6	23.5	4.6	BTSI 026	26
	TRxx.xxSE4-26	30.00-31.00	75.0	79.6	23.5	4.6	BTSI 026	26
	TRxx.xxSE4-28	31.01-32.00	75.0	79.6	25.5	4.6	BTSI 028	28
	TRxx.xxSE4-28	32.01-33.30	74.5	79.9	25.5	5.4	BTSI 028	28
	TRxx.xxSE4-30	33.31-36.20	79.5	84.9	28.0	5.4	BTSI 030	30
	TRxx.xxSE4-33	36.21-39.00	89.5	94.9	30.0	5.4	BTSI 033	33
	TRxx.xxSE4-33	39.01-39.60	89.5	94.9	30.0	5.4	BTSI 033	33
	TRxx.xxSE4-36	39.61-40.00	94.5	99.9	33.0	5.4	BTSI 036	36

Assembly D130 | Tube D135 | Cutting Condition D222

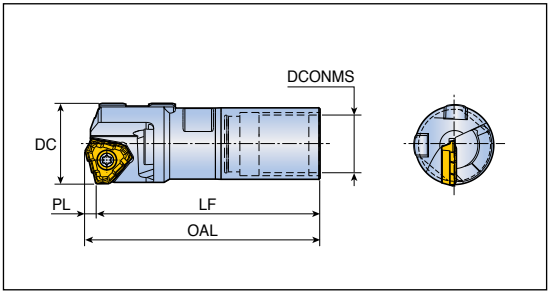
• Insert and guide pad are sold separately from drill body.

TaeguTec

TBTA-TR…SI1

TDEEP

Single tube system



• Inner single start thread

	Designation	DC	Dimension (mm)				Tube	
			LF	OAL	DCONMS	PL	Part	Diameter (mm)
TBTA-	**TR16.00SI1-13A**	16.00	53.5	55.7	10.8	2.2	BTSE 013A	13
	TRxx.xxSI1-13B	16.01-16.50	53.5	55.7	11.1	2.2	BTSE 013B	13
	TRxx.xxSI1-14A	16.51-17.25	53.5	55.7	11.8	2.2	BTSE 014A	14
	TRxx.xxSI1-14B	17.26-18.00	53.5	55.7	12.1	2.2	BTSE 014B	14
	TRxx.xxSI1-15	18.01-19.00	53.5	56.5	12.8	3.0	BTSE 015	15
	TRxx.xxSI1-16.5	19.01-19.99	53.5	56.7	13.8	3.2	BTSE 016.5	16.5
	TRxx.xxSI1-18	20.00-21.99	58.0	61.2	14.5	3.2	BTSE 018	18
	TRxx.xxSI1-20	22.00-24.99	60.0	63.4	16.0	3.4	BTSE 020	20
	TRxx.xxSI1-22	25.00-25.99	60.0	63.5	17.0	3.5	BTSE 022	22
	TRxx.xxSI1-22	26.00-26.99	65.0	68.5	17.0	3.5	BTSE 022	22
	TRxx.xxSI1-24	27.00-28.00	65.0	68.5	19.0	3.5	BTSE 024	24
	TRxx.xxSI1-24	28.01-29.99	70.0	74.6	22.0	4.6	BTSE 024	24
	TRxx.xxSI1-26	30.00-31.99	75.0	79.6	24.0	4.6	BTSE 026	26
	TRxx.xxSI1-28	32.00	75.0	79.6	26.0	4.6	BTSE 028	28
	TRxx.xxSI1-28	32.01-33.99	74.5	79.9	26.0	5.4	BTSE 028	28
	TRxx.xxSI1-30	34.00-36.99	89.5	94.9	27.0	5.4	BTSE 030	30
	TRxx.xxSI1-33	37.00-39.00	94.5	99.9	30.0	5.4	BTSE 033	33
	TRxx.xxSI1-33	39.01-39.99	94.5	99.9	30.0	5.4	BTSE 033	33
	TRxx.xxSI1-36	40.00	99.5	104.9	33.0	5.4	BTSE 036	36

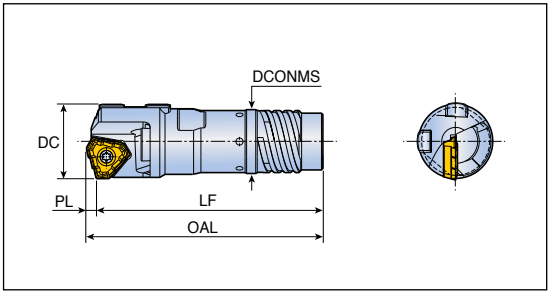
Assembly D130 | Tube D135 | Cutting Condition D222

• Insert and guide pad are sold separately from drill body.

TBTA-TR…DE4

TDEEP

Double tube system



• Outer four start thread

Designation		DC	Dimension (mm)				Tube	
			LF	OAL	DCONMS	PL	Part	Diameter (mm)
TBTA-	**TRxx.xxDE4-18**	18.40-20.00	59.0	62.0	16.0	3.0	BTDO 018	18
	TRxx.xxDE4-19.5	20.01-21.80	63.5	66.7	18.0	3.2	BTDO 019.5	19.5
	TRxx.xxDE4-21.5	21.81-21.99	63.5	66.7	19.5	3.2	BTDO 021.5	21.5
	TRxx.xxDE4-21.5	22.00-24.10	65.5	68.9	19.5	3.4	BTDO 021.5	21.5
	TRxx.xxDE4-23.5	24.11-25.00	65.5	68.9	21.0	3.4	BTDO 023.5	23.5
	TRxx.xxDE4-23.5	25.01-26.40	65.5	71.1	21.0	3.6	BTDO 023.5	23.5
	TRxx.xxDE4-26	26.41-28.00	70.5	74.1	23.5	3.6	BTDO 026	26
	TRxx.xxDE4-26	28.01-28.70	75.0	79.6	23.5	4.6	BTDO 026	26
	TRxx.xxDE4-28	28.71-29.99	75.0	79.6	25.5	4.6	BTDO 026	28
	TRxx.xxDE4-28	30.00-31.00	75.0	79.6	25.5	4.6	BTDO 028	28
	TRxx.xxDE4-30.5	31.01-32.00	80.0	84.6	28.0	4.6	BTDO 030.5	30.5
	TRxx.xxDE4-30.5	32.01-33.30	79.5	84.9	28.0	5.4	BTDO 030.5	30.5
	TRxx.xxDE4-33	33.31-36.20	89.5	94.9	30.0	5.4	BTDO 033	33
	TRxx.xxDE4-35.5	36.21-39.00	94.5	99.9	33.0	5.4	BTDO 035.5	35.5
	TRxx.xxDE4-35.5	39.01-39.60	94.5	99.9	33.0	5.4	BTDO 035.5	35.5
	TRxx.xxDE4-39	39.61-40.00	99.5	104.9	36.0	5.4	BTDO 039	39

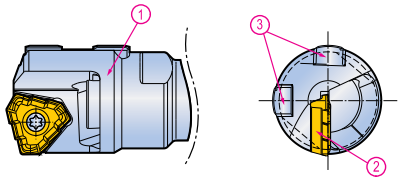
Assembly D130 | Tube D135 | Cutting Condition D222

• Insert and guide pad are sold separately from drill body.

TaeguTec

TBTA-TR Series

Assembly of TBTA-TR series



1. Head shank
2. Insert
3. Guide pad

	Parts	Diameter (mm)		
		16.00-18.00	18.01-20.00	20.01-21.00
Insert	Insert	TOGT 080305 RS	TOGT 090305 RS	TOGT 100305 RS
	Screw	CSTB2.5S	CSTB2.5S*	CSTB3S*
	Wrench	T-8F	T-8F	T-9F
Guide Pad	Guide Pad	PAD-GP06-20-075-DC-SB	PAD-GP06-20-085-DC-SB	PAD-GP06-20-085-DC-SB
		PAD-GP06-20-075-DC-SC	PAD-GP06-20-085-DC-SC	PAD-GP06-20-085-DC-SC
	Screw	CSTB2.2	CSTB2.2S*	CSTB2.2S*
	Wrench	T-7F	T-7F	T-7F

	Parts	Diameter (mm)		
		21.01-21.99	22.00-25.00	25.01-28.00
Insert	Insert	TOGT 100305 RS	TOGT 110405 RS	TOGT 120405 RS
	Screw	CSTB3S*	CSTB3.5H*	CSTB4S*
	Wrench	T-9F	T-15F	T-15F
Guide Pad	Guide Pad	PAD-GP06-20-100-DC-SB	PAD-GP06-20-100-DC-SB	PAD-GP06-20-120-DC-SB
		PAD-GP06-20-100-DC-SC	PAD-GP06-20-100-DC-SC	PAD-GP06-20-120-DC-SC
	Screw	CSTB2.2S*	CSTB2.2S*	CSTB2.2S*
	Wrench	T-7F	T-7F	T-7F

	Parts	Diameter (mm)			
		28.01-29.99	30.00-32.00	32.01-39.00	39.01-40.00
Insert	Insert	TOGT 130408 RS	TOGT 130408 RS	TOGT 140510 RS	TOGT 140510 RS
	Screw	SR 16-212/L10	SR 16-212/L10	SR 16-212/L10	SR 16-212/L10
	Wrench	T-20/5	T-20/5	T-20/5	T-20/5
Guide Pad	Guide Pad	PAD-GP06-20-120-DC-SB	PAD-GP07-20-120-DC-SB	PAD-GP07-20-120-DC-SB	PAD-GP08-25-155-DC-SB
		PAD-GP06-20-120-DC-SC	PAD-GP07-20-120-DC-SC	PAD-GP07-20-120-DC-SC	PAD-GP08-25-155-DC-SC
	Screw	CSTB2.2	CSTB3S	CSTB3S	CSTB3S
	Wrench	T-7F	T-9F	T-9F	T-9F

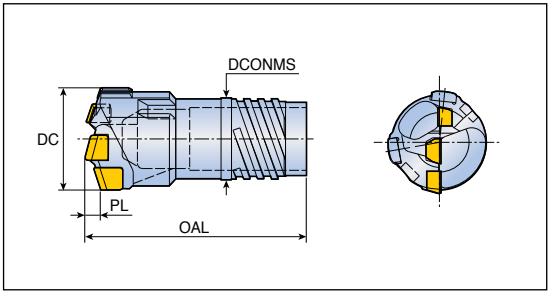
D185 Guide Pad D188

• Insert and guide pad are sold separately from drill body.

BTA...SE2/SE4

TDEEP

Single tube system



• Outer four start thread

Designation	DC	Dimension (mm)			Tube	
		OAL	PL	DCONMS	Part	Diameter (mm)
BTA xxx.xx SE2-11*	12.60-13.10	43.0	1.1	9.6	BTSI011	11
xxx.xx SE2-11*	13.11-13.60	43.0	1.1	9.6	BTSI011	11
xxx.xx SE2-12*	13.61-14.10	43.0	1.2	10.6	BTSI012	12
xxx.xx SE2-12*	14.11-14.60	43.0	1.2	10.6	BTSI012	12
xxx.xx SE2-13*	14.61-15.10	43.0	1.3	11.6	BTSI013	13
xxx.xx SE2-13*	15.11-15.59	43.0	1.3	11.6	BTSI013	13
xxx.xx SE4-14	15.60-16.20	43.0	2.7	12.6	BTSI014	14
xxx.xx SE4-14	16.21-16.70	43.0	2.7	12.6	BTSI014	14
xxx.xx SE4-15	16.71-17.20	43.0	2.7	13.6	BTSI015	15
xxx.xx SE4-15	17.21-17.70	43.0	2.7	13.6	BTSI015	15
xxx.xx SE4-16	17.71-18.40	47.0	2.8	14.5	BTSI016	16
xxx.xx SE4-16	18.41-18.90	47.0	2.9	14.5	BTSI016	16
xxx.xx SE4-17	18.91-19.20	47.0	2.9	15.5	BTSI017	17
xxx.xx SE4-17	19.21-20.00	47.0	2.9	15.5	BTSI017	17
xxx.xx SE4-18	20.01-20.90	52.5	3.2	16.0	BTSI018	18
xxx.xx SE4-18	20.91-21.80	52.5	3.2	16.0	BTSI018	18
xxx.xx SE4-20	21.81-22.90	56.0	3.2	18.0	BTSI020	20
xxx.xx SE4-20	22.91-24.10	56.0	3.2	18.0	BTSI020	20
xxx.xx SE4-22	24.11-25.20	57.5	3.5	19.5	BTSI022	22
xxx.xx SE4-22	25.21-26.40	57.5	3.5	19.5	BTSI022	22
xxx.xx SE4-24	26.41-27.50	57.5	3.7	21.0	BTSI024	24
xxx.xx SE4-24	27.51-28.70	57.5	3.7	21.0	BTSI024	24
xxx.xx SE4-26	28.71-29.80	63.5	4.0	23.5	BTSI026	26
xxx.xx SE4-26	29.81-31.00	63.5	4.0	23.5	BTSI026	26
xxx.xx SE4-28	31.01-32.10	63.5	4.3	25.5	BTSI028	28
xxx.xx SE4-28	32.11-33.30	63.5	4.3	25.5	BTSI028	28
xxx.xx SE4-30	33.31-34.80	63.5	4.5	28.0	BTSI030	30
xxx.xx SE4-30	34.81-36.20	63.5	4.5	28.0	BTSI030	30
xxx.xx SE4-33	36.21-37.30	73.5	4.8	30.0	BTSI033	33
xxx.xx SE4-33	37.31-38.40	73.5	4.8	30.0	BTSI033	33
xxx.xx SE4-33	38.41-39.60	73.5	4.8	30.0	BTSI033	33
xxx.xx SE4-36	39.61-40.60	73.5	5.6	33.0	BTSI036	36
xxx.xx SE4-36	40.61-41.80	73.5	5.6	33.0	BTSI036	36
xxx.xx SE4-36	41.81-43.00	73.5	5.6	33.0	BTSI036	36
xxx.xx SE4-39	43.01-44.30	75.0	5.4	36.0	BTSI039	39

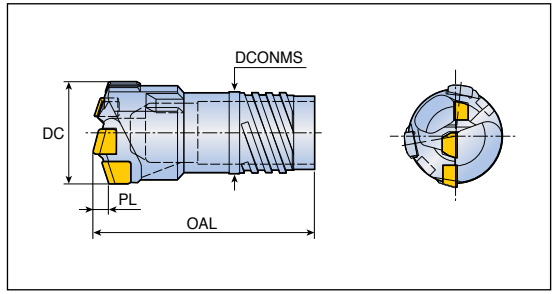
Tube D135 | Cutting Condition D220

• '*' 2 cutting edge head, 2 start thread

TaeguTec

BTA...SE4

Single tube system



• Outer four start thread

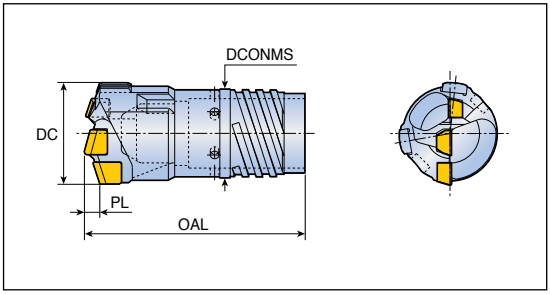
Designation	DC	Dimension (mm)			Tube	
		OAL	PL	DCONMS	Part	Diameter (mm)
BTA xxx.xx SE4-39	44.31-45.60	75.0	5.4	36.0	BTSI039	39
xxx.xx SE4-39	45.61-47.00	75.0	5.4	36.0	BTSI039	39
xxx.xx SE4-43	47.01-48.50	75.0	6.1	39.0	BTSI043	43
xxx.xx SE4-43	48.51-50.10	75.0	6.1	39.0	BTSI043	43
xxx.xx SE4-43	50.11-51.70	75.0	6.1	39.0	BTSI043	43
xxx.xx SE4-47	51.71-53.20	82.0	6.5	43.0	BTSI047	47
xxx.xx SE4-47	53.21-54.70	82.0	6.5	43.0	BTSI047	47
xxx.xx SE4-47	54.71-56.20	82.0	6.5	43.0	BTSI047	47
xxx.xx SE4-51	56.21-58.40	84.0	6.6	47.0	BTSI051	51
xxx.xx SE4-51	58.41-60.60	84.0	6.6	47.0	BTSI051	51
xxx.xx SE4-51	60.61-62.80	84.0	7.0	47.0	BTSI051	51
xxx.xx SE4-51	62.81-65.00	84.0	7.0	47.0	BTSI051	51
xxx.xx SE4-56	60.61-62.80	84.0	7.0	51.0	BTSI056	56
xxx.xx SE4-56	62.81-65.00	84.0	7.0	51.0	BTSI056	56

Tube D135 | Cutting Condition D220

BTA...DE4

TDEEP

Double tube system



• Outer four start thread

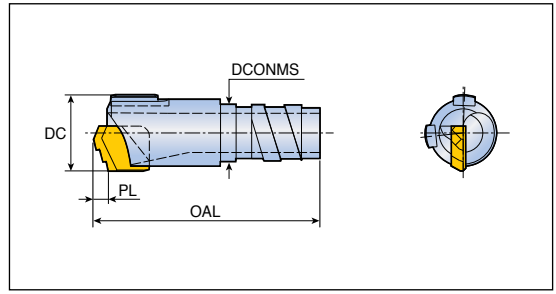
Designation	DC	Dimension (mm)			Tube		
		OAL	PL	DCONMS	Outer tube	Inner tube	Diameter (mm)
BTA xxx.xx DE4-18	18.41-19.20	50.0	2.9	16.0	BTDO018	BTDI012	18.0
xxx.xx DE4-18	19.21-20.00	50.0	2.9	16.0	BTDO018	BTDI012	18.0
xxx.xx DE4-19.5	20.01-20.90	56.0	3.2	18.0	BTDO019.5	BTDI014	19.5
xxx.xx DE4-19.5	20.91-21.80	56.0	3.2	18.0	BTDO019.5	BTDI014	19.5
xxx.xx DE4-21.5	21.81-22.90	56.0	3.2	19.5	BTDO021.5	BTDI015	21.5
xxx.xx DE4-21.5	22.91-24.10	56.0	3.2	19.5	BTDO021.5	BTDI015	21.5
xxx.xx DE4-23.5	24.11-25.20	57.5	3.5	21.0	BTDO023.5	BTDI016	23.5
xxx.xx DE4-23.5	25.21-26.40	57.5	3.5	21.0	BTDO023.5	BTDI016	23.5
xxx.xx DE4-26	26.41-27.50	60.5	3.7	23.5	BTDO026	BTDI018	26.0
xxx.xx DE4-26	27.51-28.70	60.5	3.7	23.5	BTDO026	BTDI018	26.0
xxx.xx DE4-28	28.71-29.80	63.5	4.0	25.5	BTDO028	BTDI020	28.0
xxx.xx DE4-28	29.81-31.00	63.5	4.0	25.5	BTDO028	BTDI020	28.0
xxx.xx DE4-30.5	31.01-32.10	63.5	4.1	28.0	BTDO030.5	BTDI022	30.5
xxx.xx DE4-30.5	32.11-33.30	63.5	4.1	28.0	BTDO030.5	BTDI022	30.5
xxx.xx DE4-33	33.31-34.80	70.5	4.5	30.0	BTDO033.0	BTDI024	33.0
xxx.xx DE4-33	34.81-36.20	70.5	4.5	30.0	BTDO033.0	BTDI024	33.0
xxx.xx DE4-35.5	36.21-37.30	73.5	4.8	33.0	BTDO035.5	BTDI026	35.5
xxx.xx DE4-35.5	37.31-38.40	73.5	4.8	33.0	BTDO035.5	BTDI026	35.5
xxx.xx DE4-35.5	38.41-39.60	73.5	4.8	33.0	BTDO035.5	BTDI026	35.5
xxx.xx DE4-39	39.61-40.60	73.5	5.3	36.0	BTDO039	BTDI029	39.0
xxx.xx DE4-39	40.61-41.80	73.5	5.3	36.0	BTDO039	BTDI029	39.0
xxx.xx DE4-39	41.81-43.00	73.5	5.3	36.0	BTDO039	BTDI029	39.0
xxx.xx DE4-42.5	43.01-44.30	75.0	5.5	39.0	BTDO042.5	BTDI032	42.5
xxx.xx DE4-42.5	44.31-45.60	75.0	5.5	39.0	BTDO042.5	BTDI032	42.5
xxx.xx DE4-42.5	45.61-47.00	75.0	5.5	39.0	BTDO042.5	BTDI032	42.5
xxx.xx DE4-46.5	47.01-48.50	79.0	6.1	43.0	BTDO046.5	BTDI035	46.5
xxx.xx DE4-46.5	48.51-50.10	79.0	6.1	43.0	BTDO046.5	BTDI035	46.5
xxx.xx DE4-46.5	50.11-51.70	79.0	6.1	43.0	BTDO046.5	BTDI035	46.5
xxx.xx DE4-51	51.71-53.20	82.0	6.5	47.0	BTDO051	BTDI039	51.0
xxx.xx DE4-51	53.21-54.70	82.0	6.5	47.0	BTDO051	BTDI039	51.0
xxx.xx DE4-51	54.71-56.20	82.0	6.5	47.0	BTDO051	BTDI039	51.0
xxx.xx DE4-55.5	56.21-58.40	84.0	6.6	51.0	BTDO055.5	BTDI043A	55.5
xxx.xx DE4-55.5	58.41-60.60	84.0	6.6	51.0	BTDO055.5	BTDI043A	55.5
xxx.xx DE4-55.5	60.61-62.80	84.0	6.6	51.0	BTDO055.5	BTDI043A	55.5
xxx.xx DE4-55.5	62.81-65.00	84.0	6.6	51.0	BTDO055.5	BTDI043A	55.5

Tube D135
Cutting Condition D220

BTS...SE1

TDEEP

Single tube system



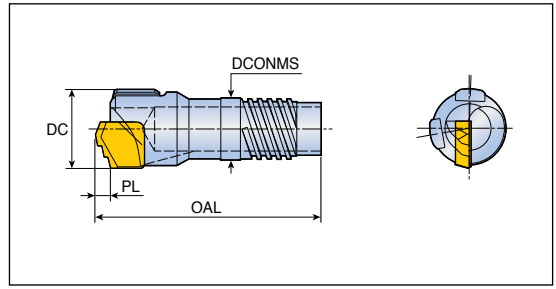
• Outer single start thread

Designation	DC	Dimension (mm)			Tube	
		OAL	PL	DCONMS	Part	Diameter (mm)
BTS xxx.xx SE1-7.1	8.00-8.99	34	2.0	6.0	BTSO071	7.1
xxx.xx SE1-8.3	9.00-9.99	34	2.0	7.2	BTSO083	8.3
xxx.xx SE1-9	10.00-10.99	34	2.2	7.6	BTSO090	9.0
xxx.xx SE1-10	11.00-11.99	34	2.2	8.6	BTSO100	10.0
xxx.xx SE1-11	12.00-13.49	34	2.3	9.1	BTSO110	11.0
xxx.xx SE1-12	13.50-14.79	34	2.4	10.8	BTSO120	12.0

BTS...SE2/SE4

TDEEP

Single tube system



• Outer four start thread

Designation	DC	Dimension (mm)			Tube	
		OAL	PL	DCONMS	Part	Diameter (mm)
BTS xxx.xx SE2-11*	12.60-13.60	40	2.3	9.6	BTSI011	11
xxx.xx SE2-12*	13.61-14.60	40	2.4	10.6	BTSI012	12
xxx.xx SE2-13*	14.61-15.59	40	3.0	11.6	BTSI013	13
xxx.xx SE4-14	15.60-16.70	40	2.4	12.6	BTSI014	14
xxx.xx SE4-15	16.71-17.70	40	3.0	13.6	BTSI015	15
xxx.xx SE4-16	17.71-18.90	40	3.3	14.5	BTSI016	16
xxx.xx SE4-17	18.91-20.00	40	3.3	15.5	BTSI017	17

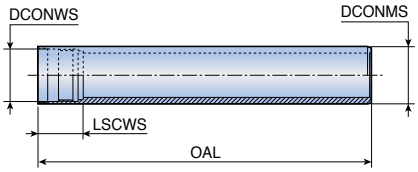
Tube D135 | Cutting Condition D220

• '*' Designates outer two start thread

ADVANCE CUTTING TaeguTec

BTSI

Single tube



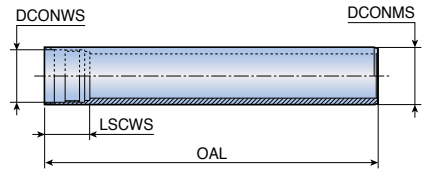
• Inner four start thread

Designation	DC	Dimension (mm)		
		DCONMS	DCONWS	LSCWS
BTSI 011 *	12.60-13.60	11.0	9.6	22
012 *	13.61-14.60	12.0	10.6	22
013 *	14.61-15.59	13.0	11.6	22
014	15.60-16.70	14.0	12.6	21
015	16.71-17.70	15.0	13.6	21
016	17.71-18.90	16.0	14.5	22
017	18.91-20.00	17.0	15.5	22
018	20.01-21.80	18.0	16.0	27.5
020	21.81-24.10	20.0	18.0	30
022	24.11-26.40	22.0	19.5	30
024	26.41-28.70	24.0	21.0	30
026	28.71-31.00	26.0	23.5	33
028	31.01-33.30	28.0	25.5	33
030	33.31-36.20	30.0	28.0	33
033	36.21-39.60	33.0	30.0	40
036	39.61-43.00	36.0	33.0	40
039	43.01-47.00	39.0	36.0	40
043	47.01-51.70	43.0	39.0	40
047	51.71-56.20	47.0	43.0	44

• Please indicate overall length (OAL) when ordering
• '*' Indicates parts are inner two start thread

BTSI

Single tube



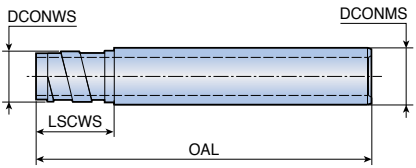
• Inner four start thread

Designation	DC	Dimension (mm)		
		DCONMS	DCONWS	LSCWS
BTSI 051	56.21-60.60	51.0	47.0	44
056A	60.61-65.00	56.0	51.0	44
056B	65.00-66.99	56.0	52.0	75
062	67.00-72.99	62.0	58.0	75
068	73.00-79.99	68.0	63.0	75
075	80.00-86.99	75.0	70.0	97
082	87.00-99.99	82.0	77.0	97
094	100.00-111.99	94.0	89.0	97
106	112.00-123.99	106.0	101.0	118
118	124.00-135.99	118.0	113.0	118
130	136.00-147.99	130.0	125.0	118
142	148.00-159.99	142.0	137.0	139
154	160.00-171.99	154.0	149.0	139
166	172.00-183.99	166.0	161.0	139
178	184.00-195.99	178.0	173.0	144
190	196.00-207.99	190.0	185.0	144
202	208.00-219.99	202.0	197.0	144
214	220.00-231.99	214.0	208.0	164
226	232.00-243.99	226.0	220.0	164
238	244.00-255.99	238.0	232.0	164
250	256.00-267.99	250.0	244.0	184
262	268.00-279.99	262.0	256.0	184
274	280.00-291.99	274.0	268.0	184

• Please indicate overall length (OAL) when ordering

BTSE

Single tube



• Outer single start thread

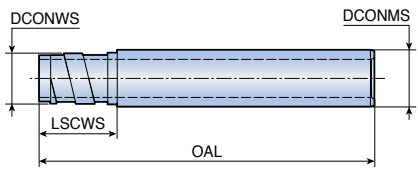
Designation		DC	Dimension (mm)		
			DCONMS	DCONWS	LSCWS
BTSE	**012A**	14.50-15.00	12.0	11.5	23
	012B	15.01-15.50	12.0	11.8	23
	013A	15.51-16.00	13.0	12.4	23
	013B	16.01-16.50	13.0	12.7	23
	014A	16.51-17.25	14.0	13.4	23
	014B	17.26-18.00	14.0	13.7	23
	015	18.01-19.00	15.0	14.4	23
	016.5	19.01-19.99	16.5	15.4	23
	018	20.00-21.99	18.0	16.5	26
	020	22.00-24.99	20.0	19.0	26
	022	25.00-26.99	22.0	20.0	26
	024	27.00-29.99	24.0	22.0	26
	026	30.00-31.99	26.0	24.0	26
	028	32.00-33.99	28.0	26.0	26
	030	34.00-36.99	30.0	27.0	41
	033	37.00-39.99	33.0	30.0	41
	036	40.00-43.99	36.0	33.0	41
	039	44.00-46.99	39.0	37.0	41
	043	47.00-51.99	43.0	41.0	41

• Please indicate overall length (OAL) when ordering

BTSE / BTSO

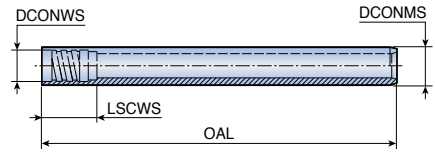
TDEEP

Single tube



BTSE

Outer single start thread



BTSO

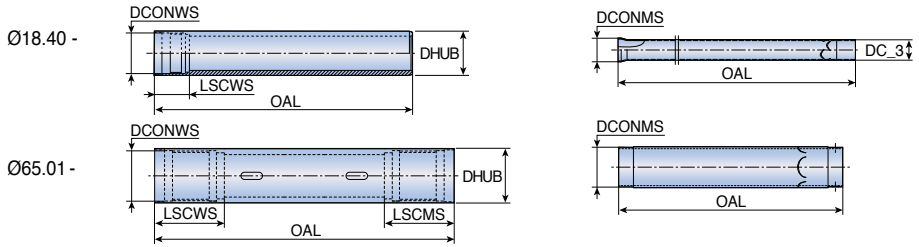
Inner single start thread

Designation		DC	Dimension (mm)			
			DCONMS	DCONWS		LSCWS
BTSE	**047**	52.00-56.99	47.0	44	-	41
	051	57.00-60.99	51.0	49	-	41
	056	61.00-67.99	56.0	53	-	41
	062	68.00-74.99	62.0	59	-	41
	068	75.00-80.99	68.0	65	-	71
	075	81.00-90.99	75.0	71	-	71
	082	91.00-98.99	82.0	79	-	71
	094	99.00-110.99	94.0	90	-	71
	106	111.00-122.99	106.0	102	-	71
	118	123.00-134.99	118.0	114	-	71
	130	135.00-148.99	130.0	126	-	71
	142	149.00-161.99	142.0	139	-	71
	154	162.00-173.99	154.0	151	-	86
	166	174.00-185.99	166.0	163	-	86
	178	186.00-197.99	178.0	175	-	86
	190	198.00-209.99	190.0	187	-	86
	202	210.00-221.99	202.0	199	-	86
	214	222.00-233.99	214.0	211	-	86
	226	234.00-245.99	226.0	223	-	86
	238	246.00-257.99	238.0	235	-	86
	250	258.00-269.99	250.0	247	-	121
	262	270.00-281.99	262.0	259	-	121
	274	282.00-293.99	274.0	271	-	121
BTSO	**071**	8.00-8.99	7.1	-	6.0	13.5
	083	9.00-9.99	8.3	-	7.2	13.5
	090	10.00-10.99	9.0	-	7.6	13.5
	100	11.00-11.99	10.0	-	8.6	13.5
	110	12.00-13.49	11.0	-	9.1	13.5
	120	13.50-14.79	12.0	-	10.8	13.5

• Please indicate overall length (OAL) when ordering

BTDO / BTDI

Double tube

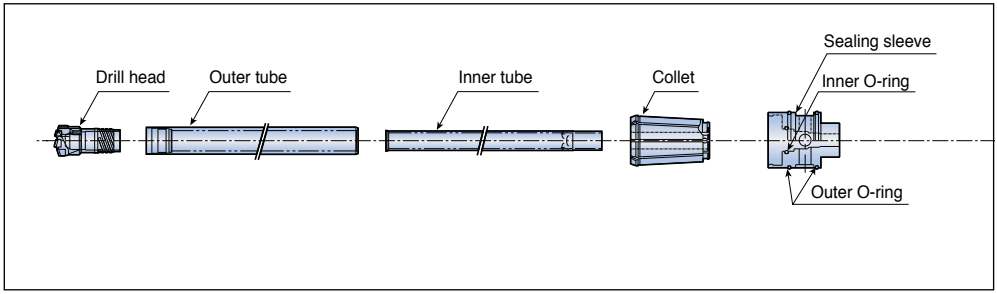


Outer tube **Inner tube**

DC	Outer tube	Dimension (mm)			Inner tube	Dimension (mm)	
		DHUB	DCONWS	LSCWS		DCONMS	DC_3
18.40-20.00	**BTDO 018**	18.0	16	27.5	**BTDI 012**	12	10
20.01-21.80	**019.5**	19.5	18	30	**014**	14	12
21.81-24.10	**021.5**	21.5	19.5	30	**015**	15	13
24.11-26.40	**023.5**	23.5	21	30	**016**	16	14
26.41-28.70	**026**	26.0	23.5	33	**018**	18	16
28.71-31.00	**028**	28.0	25.5	33	**020**	20	18
31.01-33.30	**030.5**	30.5	28	33	**022**	22	20
33.31-36.20	**033**	33.0	30	40	**024**	24	22
36.21-39.60	**035.5**	35.5	33	40	**026**	26	24
39.61-43.00	**039**	39.0	36	40	**029**	29	27
43.01-47.00	**042.5**	42.5	39	40	**032**	32	30
47.01-51.70	**046.5**	46.5	43	44	**035**	35	32
51.71-56.20	**051**	51.0	47	44	**039**	39	36
56.21-65.00	**055.5**	55.5	51	44	**043A**	43	40
65.01-69.99	**056**	56.0	52	75	**043B**	40	-
70.00-72.99	**062**	62.0	58	75	**048**	44	-
73.00-79.99	**068**	68.0	63	75	**053**	48	-
80.00-86.99	**075**	75.0	70	97	**059**	54	-
87.00-99.99	**082**	82.0	77	97	**066**	60	-
100.00-111.99	**094**	94.0	89	97	**078**	70	-
112.00-123.99	**106**	106.0	101	118	**090**	80	-
124.00-135.99	**118**	118.0	113	118	**092**	80	-
136.00-147.99	**130**	130.0	125	118	**104**	95	-
148.00-159.99	**142**	142.0	137	139	**116**	100	-
160.00-171.99	**154**	154.0	149	139	**128**	120	-
172.00-183.99	**166**	166.0	161	139	**138**	130	-

• Please indicate overall length (OAL) when ordering
- For diameter range 18.40 - 65.00 (BTDO 055.5) the inner tube should be ordered 30mm longer than outer tube
- For diameter range 65.01 - 123.99 (BTDO 056 - BTDO 106) the inner tube should be ordered 190mm longer than outer tube
- For diameter range 124.00 - 183.99 (BTDO 118 - BTDO 166) the inner tube should be ordered 220mm longer than outer tube

Assembly of Double Tube System

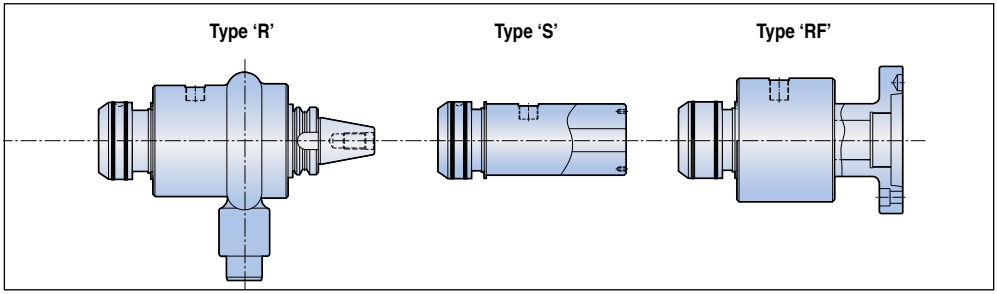


Designation		DC	Collet
BTDO 018	**BTDI 012**	18.40-19.20	COLLET 4-18
018	**012**	19.21-20.00	COLLET 4-18
019.5	**014**	20.01-20.90	COLLET 4-19.5
019.5	**014**	20.91-21.80	COLLET 4-19.5
021.5	**015**	21.81-22.90	COLLET 4-21.5
021.5	**015**	22.91-24.10	COLLET 4-21.5
023.5	**016**	24.11-25.20	COLLET 4-23.5
023.5	**016**	25.21-26.40	COLLET 4-23.5
026	**018**	26.41-27.50	COLLET 4-26
026	**018**	27.51-28.70	COLLET 4-26
028	**020**	28.71-29.80	COLLET 4-28
028	**020**	29.81-31.00	COLLET 4-28
030.5	**022**	31.01-32.10	COLLET 4-30.5
030.5	**022**	32.11-33.30	COLLET 4-30.5
033	**024**	33.31-34.80	COLLET 4-33
033	**024**	34.81-36.20	COLLET 4-33
035.5	**026**	36.21-37.30	COLLET 4-35.5
035.5	**026**	37.31-38.40	COLLET 4-35.5
035.5	**026**	38.41-39.60	COLLET 4-35.5
039	**029**	39.61-40.60	COLLET 4-39
039	**029**	40.61-41.80	COLLET 4-39
039	**029**	41.81-43.00	COLLET 4-39
042.5	**032**	43.01-44.30	COLLET 4-42.5
042.5	**032**	44.31-45.60	COLLET 4-42.5
042.5	**032**	45.61-47.00	COLLET 4-42.5
046.5	**035**	47.01-48.50	COLLET 4-46.5
046.5	**035**	48.51-50.10	COLLET 4-46.5
046.5	**035**	50.11-51.70	COLLET 4-46.5
051	**039**	51.71-53.20	COLLET 4-51
051	**039**	53.21-54.70	COLLET 4-51
051	**039**	54.71-56.20	COLLET 4-51
055.5	**043A**	56.21-58.40	COLLET 4-55.5
055.5	**043A**	58.41-60.60	COLLET 4-55.5
055.5	**043A**	60.61-62.80	COLLET 4-55.5
055.5	**043A**	62.81-65.00	COLLET 4-55.5

• Inner tube should be longer than outer tube. Please refer to page D135-D136 for details

Assembly of Double Tube System

Connector

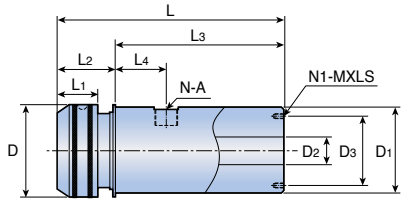


Sealing sleeve	Outer O-ring	Inner O-ring	Connector
SEALING SLEEVE 4R-18	OOR 25.24	IOR18	DTC-4S/4R/4RF
SEALING SLEEVE 4R-18		IOR18	
SEALING SLEEVE 4R-19.5		IOR19.5	
SEALING SLEEVE 4R-19.5		IOR19.5	
SEALING SLEEVE 4R-21.5		IOR21.5	
SEALING SLEEVE 4R-21.5		IOR21.5	
SEALING SLEEVE 4R-23.5		IOR23.5	
SEALING SLEEVE 4R-23.5		IOR23.5	
SEALING SLEEVE 4R-26		IOR26	
SEALING SLEEVE 4R-26		IOR26	
SEALING SLEEVE 4R-28		IOR28	
SEALING SLEEVE 4R-28		IOR28	
SEALING SLEEVE 4R-30.5		IOR30.5	
SEALING SLEEVE 4R-30.5		IOR30.5	
SEALING SLEEVE 4R-33		IOR33	
SEALING SLEEVE 4R-33		IOR33	
SEALING SLEEVE 4R-35.5	OOR65	IOR35.5	
SEALING SLEEVE 4R-35.5		IOR35.5	
SEALING SLEEVE 4R-35.5		IOR35.5	
SEALING SLEEVE 4R-39		IOR39	
SEALING SLEEVE 4R-39		IOR39	
SEALING SLEEVE 4R-39		IOR39	
SEALING SLEEVE 4R-42.5		IOR42.5	
SEALING SLEEVE 4R-42.5		IOR42.5	
SEALING SLEEVE 4R-42.5		IOR42.5	
SEALING SLEEVE 4R-46.5		IOR46.5	
SEALING SLEEVE 4R-46.5		IOR46.5	
SEALING SLEEVE 4R-46.5		IOR46.5	
SEALING SLEEVE 4R-51		IOR51	
SEALING SLEEVE 4R-51		IOR51	
SEALING SLEEVE 4R-51		IOR51	
SEALING SLEEVE 4R-55.5		IOR55.5	
SEALING SLEEVE 4R-55.5		IOR55.5	
SEALING SLEEVE 4R-55.5		IOR55.5	
SEALING SLEEVE 4R-55.5		IOR55.5	

• Inner tube should be longer than outer tube. Please refer to page D135-D136 for details

DTC-S

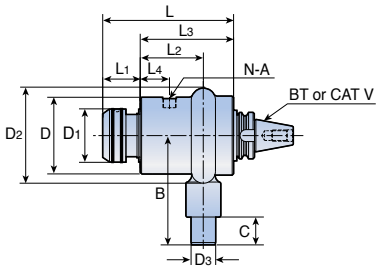
'S' type connector



Designation	DC	D	D1	D2	D3	L	L1	L2	L3	L4	N-A	N1-MXLS
DTC 4S	18.4-65.0	115	100	45	80	310	50	60	250	68	2-PT3/4"	4-M8x15
5S	65.0-123.9	164	140	81	120	415	47	115	300		2-PT1"	6-M8x20

DTC-R

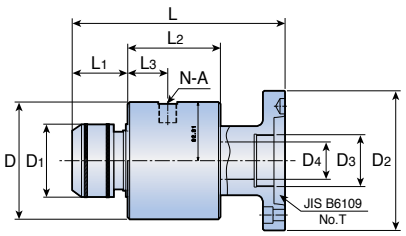
'R' type connector



Designation	DC	D	D1	D2	D3	B	C	L	L1	L2	L3	L4	N-A
DTC 4R	18.4-65.0	165	115	206	53	186.5	60	319.7	59.2	152	228	75	2-PT1"
5R	65.0-123.9	225	164	312	100	310	100	382	62	201	320	95	2-PT1 1/4"
6R	124.0-183.9	350	244	445	152.4	412	120	487	75	250	412	118	4-PT1-1/4"

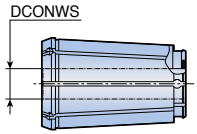
DTC-RF

'RF' type connector

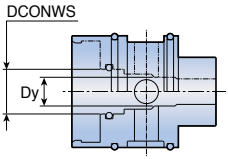


Designation	DC	D	D1	D2	D3	D4	L	L1	L2	L3	N-A
DTC 4RF	18.4-65.0	160	115	210	M62x2	46	291.5	64.5	150	75	2-PT1"

Collet / Sealing Sleeve



Collet



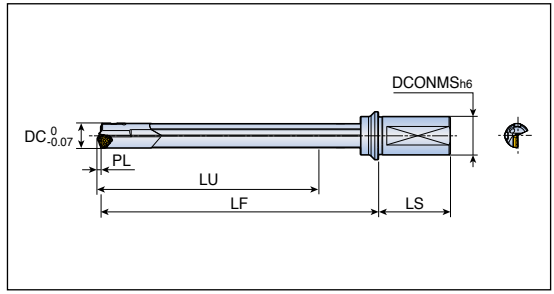
Sealing sleeve

Designation	DC	DCONWS	Designation	DC	DCONWS	Dy	Outer O-ring	Inner O-ring
COLLET 4-18	18.40-20.00	18.0	**SEALING SLEEVE 4-18**	18.40-20.00	18.0	10	OOR 65	IOR 18
4-19.5	20.01-21.80	19.5	**4-19.5**	20.01-21.80	19.5	12		IOR 19.5
4-21.5	21.81-24.10	21.5	**4-21.5**	21.81-24.10	21.5	13		IOR 21.5
4-23.5	24.11-26.40	23.5	**4-23.5**	24.11-26.40	23.5	14		IOR 23.5
4-26	26.41-28.70	26.0	**4-26**	26.41-28.70	26.0	16		IOR 26
4-28	28.71-31.00	28.0	**4-28**	28.71-31.00	28.0	18		IOR 28
4-30.5	31.01-33.30	30.5	**4-30.5**	31.01-33.30	30.5	20		IOR 30.5
4-33	33.31-36.20	33.0	**4-33**	33.31-36.20	33.0	22		IOR 33
4-35.5	36.21-39.60	35.5	**4-35.5**	36.21-39.60	35.5	24		IOR 35.5
4-39	39.61-43.00	39.0	**4-39**	39.61-43.00	39.0	27		IOR 39
4-42.5	43.01-47.00	42.5	**4-42.5**	43.01-47.00	42.5	30		IOR 42.5
4-46.5	47.01-51.70	46.5	**4-46.5**	47.01-51.70	46.5	32		IOR 46.5
4-51	51.71-56.20	51.0	**4-51**	51.71-56.20	51.0	36		IOR 51
4-55.5	56.21-65.00	55.5	**4-55.5**	56.21-65.00	55.5	40		IOR 55.5

TRGD

Standard gundrill holders

• Drilling depth: 10xDC - 25xDC



Designation		Dimension (mm)						
		DC	LU	LF	LS	DCONMS	PL	L/D
TRGD	**16.00xM25-10**	16.0	172	209	56	25	2.2	10
	16.50xM25-10	16.5	172	209	56	25	2.2	10
	17.00xM25-10	17.0	182	220	56	25	2.2	10
	18.00xM25-10	18.0	193	232	56	25	3.0	10
	19.00xM25-10	19.0	203	243	56	25	3.0	10
	20.00xM32-10	20.0	213	255	60	32	3.2	10
	29.00XM40-10	29.0	290	360	69	40	4.57	10
	30.00XM40-10	30.0	310	383	69	40	4.57	10
	31.00XM40-10	31.0	310	383	69	40	4.57	10
	32.00XM40-10	33.0	320	395	69	40	4.57	10
	14.00XM25-15	14.0	227	261	56	25	2.0	15
	14.50XM25-15	14.5	227	262	56	25	2.0	15
	15.00XM25-15	15.0	242	278	56	25	2.0	15
	16.00xM25-15	16.0	257	294	56	25	2.2	15
	16.50xM25-15	16.5	257	294	56	25	2.2	15
	17.00xM25-15	17.0	272	310	56	25	2.2	15
	17.50xM25-15	17.5	272	310	56	25	2.2	15
	18.00xM25-15	18.0	288	327	56	25	3.0	15
	18.50xM25-15	18.5	288	327	56	25	3.0	15
	19.00xM25-15	19.0	303	343	56	25	3.0	15
	19.50xM25-15	19.5	303	343	56	25	3.0	15
	20.00xM32-15	20.0	318	360	60	32	3.2	15
	21.00xM32-15	21.0	333	376	60	32	3.2	15
	22.00xM32-15	22.0	348	393	60	32	3.4	15
	23.00xM32-15	23.0	363	409	60	32	3.4	15
	24.00xM32-15	24.0	378	426	60	32	3.4	15
	25.00xM32-15	25.0	394	442	60	32	3.6	15
	26.00xM40-15	26.0	409	449	70	40	3.6	15
	27.00xM40-15	27.0	424	465	70	40	3.6	15
	28.00xM40-15	28.0	424	467	70	40	3.6	15
	14.00XM25-20	14.0	302	336	56	25	2.0	20
	14.50XM25-20	14.5	302	337	56	25	2.0	20
	15.00XM25-20	15.0	322	358	56	25	2.0	20
	29.00XM40-20	29.0	580	650	69	40	4.57	20
	30.00XM40-20	30.0	620	693	69	40	4.57	20

Assembly D146

Cutting Condition D222

• Guide pad is sold separately from drill body.

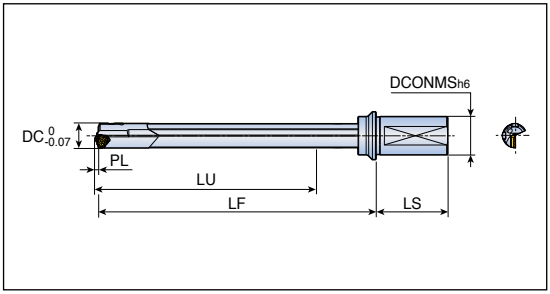
• Available upon request

ADVANCE CUTTING TaeguTec

TRGD

Standard gundrill holders

• Drilling depth: 10xDC - 25xDC



Designation		Dimension (mm)						
		DC	LU	LF	LS	DCONMS	PL	L/D
TRGD	**31.00XM40-20**	31.0	620	693	69	40	4.57	20
	32.00XM40-20	32.0	640	715	69	40	4.57	20
	14.00XM25-25	14.0	377	411	56	25	2.0	25
	14.50XM25-25	14.5	377	412	56	25	2.0	25
	15.00XM25-25	15.0	402	438	56	25	2.0	25
	16.00xM25-25	16.0	427	464	56	25	2.2	25
	16.50xM25-25	16.5	427	464	56	25	2.2	25
	17.00xM25-25	17.0	452	490	56	25	2.2	25
	17.50xM25-25	17.5	452	490	56	25	2.2	25
	18.00xM25-25	18.0	478	517	56	25	3.0	25
	18.50xM25-25	18.5	478	517	56	25	3.0	25
	19.00xM25-25	19.0	503	543	56	25	3.0	25
	19.50xM25-25	19.5	503	543	56	25	3.0	25
	20.00xM32-25	20.0	528	570	60	32	3.2	25
	21.00xM32-25	21.0	553	596	60	32	3.2	25
	22.00xM32-25	22.0	578	623	60	32	3.4	25
	23.00xM32-25	23.0	603	649	60	32	3.4	25
	24.00xM32-25	24.0	628	676	60	32	3.4	25
	25.00xM32-25	25.0	654	702	60	32	3.6	25
	26.00xM40-25	26.0	679	719	70	40	3.6	25
	27.00xM40-25	27.0	704	745	70	40	3.6	25
	28.00xM40-25	28.0	704	747	70	40	3.6	25

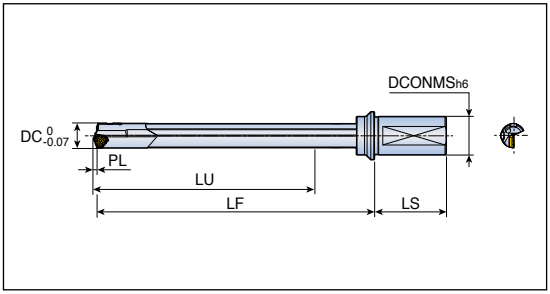
Assembly D146
Cutting Condition D222

• Guide pad is sold separately from drill body.

• Available upon request

TRGD

Standard gundrill holders



- Drilling depth: 10xDC - 25xDC

Insert & guide pad

Tool dia. (mm)	Insert			Guide pad		
	Insert	Screw	Wrench	Guide pad	Screw	Wrench
14.00-15.99	TOGT 070304 RS TT9030	CSTB2.5S*	T-8F	PAD-GP05-18-060-DC-SB PAD-GP05-18-060-DC-SC	SR 34-508	T-7F
16.00-18.00	TOGT 080305 RS TT9030	CSTB2.5S*	T-8F	PAD-GP05-18-075-DC-SB PAD-GP05-18-075-DC-SC	SR 34-508	T-7F
18.01-20.00	TOGT 090305 RS TT9030	CSTB2.5S*	T-8F	PAD-GP06-20-085-DC-SB PAD-GP06-20-085-DC-SC	SR 34-508	T-7F
20.01-21.00	TOGT 100305 RS TT9030	CSTB3S*	T-9F			
21.01-21.99	TOGT 100305 RS TT9030	CSTB3S*	T-9F	PAD-GP06-20-100-DC-SB PAD-GP06-20-100-DC-SC	SR 34-508	T-7F
22.00-25.00	TOGT 110405 RS TT9030	SR14-571	T-10/5			
25.01-28.00	TOGT 120405 RS TT9030	CSTB4S*	T-15F	PAD-GP06-20-120-DC-SB PAD-GP06-20-120-DC-SC	SR 34-508	T-7F
28.01-29.99	TOGT 130408 RS	SR 16-212/L10	T-20/5	PAD-GP06-20-120-DC-SB PAD-GP06-20-120-DC-SC	SR 34-508	T-7F
30.00-32.00	TOGT 130408 RS	SR 16-212/L10	T-20/5	PAD-GP07-20-120-DC-SB PAD-GP07-20-120-DC-SC	CSTB-3S	T-9F

- Guide pad with "SB" is the first choice in general purpose machining.
  "SC" is a excellent toughness grade used with water-soluble coolant.
- Inserts and guide pads must be ordered separately

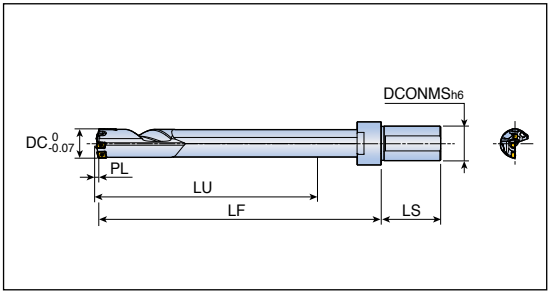
Guide Pad D188
Cutting Condition D222
D185

TRGD3

TDEEP

Standard gundrill holders

• Drilling depth: 10xDC - 15xDC



Designation	Dimension (mm)						
	DC	LU	LF	LS	DCONMS	PL	L/D
TRGD3 29.00XFM40-10	29.0	293	360	69	40	2.6	10
30.00XFM40-10	30.0	313	383	69	40	2.9	10
31.00XFM40-10	31.0	313	383	69	40	2.9	10
32.00XFM40-10	32.0	323	395	69	40	3.0	10
33.00XFM40-10	33.0	333	406	69	40	3.1	10
34.00XFM40-10	34.0	343	418	69	40	3.0	10
35.00XFM40-10	35.0	353	428	69	40	3.1	10
36.00XFM40-10	36.0	363	441	69	40	3.1	10
29.00XFM40-15	29.0	438	505	69	40	2.6	15
30.00XFM40-15	30.0	468	538	69	40	2.9	15
31.00XFM40-15	31.0	468	538	69	40	2.9	15
32.00XFM40-15	32.0	483	555	69	40	3.0	15
33.00XFM40-15	33.0	498	571	69	40	3.1	15
34.00XFM40-15	34.0	513	588	69	40	3.0	15
35.00XFM40-15	35.0	528	603	69	40	3.1	15
36.00XFM40-15	36.0	543	621	69	40	3.1	15

• Guide pad is sold separately from drill body.
• Supply up to 40.0mm drill daimeter

• Available upon request

Insert & guide pad

Parts		Diameter (mm)			
		29.0-29.99	30.0-33.0	33.01-35.0	35.01-36.0
Insert	Peripheral insert	NPHT 060304R-G-P	NPHT 080404R-G-P	NPHT 080404R-G-P	NPHT 080404R-G-P
	Screw	CSTB2.2	CSTB2.5	CSTB2.5	CSTB2.5
	Wrench	T-7F	T-8F	T-8F	T-8F
	Inner insert	NPMT 060304R-G-I	NPMT 070404R-G-I	NPMT 070404R-G-I	NPMT 070404R-G-I
	Screw	CSTB2.2	CSTB2.5	CSTB2.5	CSTB2.5
	Wrench	T-7F	T-8F	T-8F	T-8F
	Center insert	NPMT 070408L-G-C	NPMT 070408L-G-C	NPMT 070408L-G-C	NPMT 080408L-G-C
	Screw	CSTB2.5	CSTB2.5	CSTB2.5	CSTB2.5
	Wrench	T-8F	T-8F	T-8F	T-8F
Pad	Guide pad	PAD-GP06-20-120-DC-SB	PAD-GP06-20-120-DC-SB	PAD-GP07-20-120-DC-SB	PAD-GP07-20-120-DC-SB
		PAD-GP06-20-120-DC-SC	PAD-GP06-20-120-DC-SC	PAD-GP07-20-120-DC-SC	PAD-GP07-20-120-DC-SC
	Screw	SR 34-508	SR 34-508	CSTB3S	CSTB3S
	Wrench	T-7F	T-7F	T-9F	T-9F

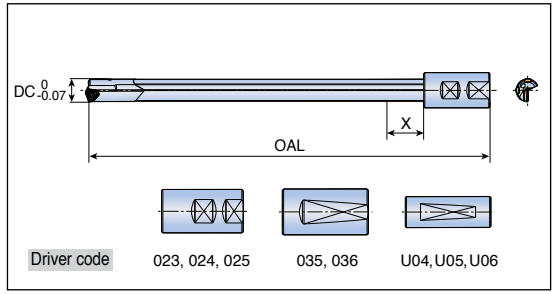
D181 Guide Pad D188 Cutting Condition D222

• Inserts and guide pads must be ordered separately

TaeguTec

TRGDL

Standard gundrill holders



Designation	Driver code	Dimension (mm)		
		DC	OAL	X
TRGDL 14.00X800-XXX	U04 023	14	800	21
14.00X1000-XXX		14	1000	21
14.00X1650-XXX		14	1650	21
14.50X800-XXX		14.5	800	22
14.50X1000-XXX		14.5	1000	22
14.50X1650-XXX		14.5	1650	22
15.00X800-XXX		15	800	23
15.00X1000-XXX		15	1000	23
15.00X1650-XXX		15	1650	23
16.00x800-XXX	U04 023 035	16	800	24
16.00x1000-XXX		16	1000	24
16.00x1500-XXX		16	1500	24
17.00x1000-XXX		17	1000	25
17.00x1500-XXX		17	1500	25
18.00x800-XXX		18	800	27
18.00x1000-XXX		18	1000	27
18.00x1500-XXX		18	1500	27
19.00x800-XXX		19	800	28
19.00x1000-XXX		19	1000	28
19.00x1500-XXX		19	1500	28
20.00x800-XXX	U05 024 036	20	800	30
20.00x1000-XXX		20	1000	30
20.00x1500-XXX		20	1500	30
21.00x1000-XXX		21	1000	31
21.00x1500-XXX		21	1500	31
22.00x1000-XXX		22	1000	33
22.00x1500-XXX		22	1500	33
23.00x1000-XXX		23	1000	34
23.00x1500-XXX		23	1500	34
24.00x1000-XXX		24	1000	36
24.00x1500-XXX		24	1500	36
25.00x1000-XXX		25	1000	37
25.00x1500-XXX		25	1500	37

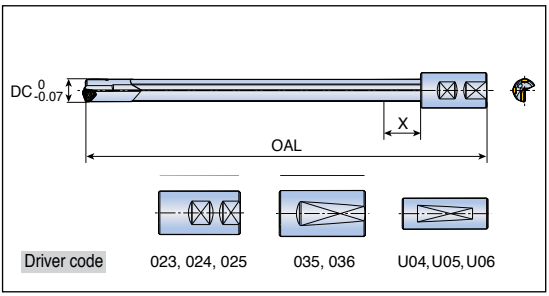
D185 Guide Pad D188 Cutting Condition D222

- Guide pad is sold separately from drill body.

- Available upon request
- Select "XXX" driver code

TRGDL

Standard gundrill holders



Designation	Driver code	Dimension (mm)		
		DC	OAL	X
TRGDL 26.00x1000-XXX	U06 025 026 036	26	1000	39
26.00x1500-XXX		26	1500	39
27.00x1000-XXX		27	1000	40
27.00x1500-XXX		27	1500	40
28.00x1000-XXX		28	1000	42
28.00x1500-XXX		28	1500	42

- Guide pad is sold separately from drill body.
- Available upon request
- Select "XXX" driver code

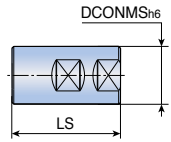
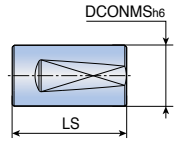
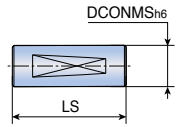
Insert & guide pad

Tool dia. (mm)	Insert			Guide pad		
	Insert	Screw	Wrench	Guide pad	Screw	Wrench
14.00-15.99	TOGT 070304 RS TT9030	SR 14-560/S	T-8F	PAD-GP05-18-060-DC-SB PAD-GP05-18-060-DC-SC	SR 34-508	T-7F
16.00-18.00	TOGT 080305 RS TT9030	SR 14-560/S	T-8F	PAD-GP05-18-075-DC-SB PAD-GP05-18-075-DC-SC	SR 34-508	T-7F
18.01-20.00	TOGT 090305 RS TT9030	CSTB2.5S*	T-8F	PAD-GP06-20-085-DC-SB PAD-GP06-20-085-DC-SC	SR 34-508	T-7F
20.01-21.00	TOGT 100305 RS TT9030	CSTB3S*	T-9F			
21.01-21.99	TOGT 100305 RS TT9030	CSTB3S*	T-9F	PAD-GP06-20-100-DC-SB PAD-GP06-20-100-DC-SC	SR 34-508	T-7F
22.00-25.00	TOGT 110405 RS TT9030	CSTB3.5H*	T-15F			
25.01-28.00	TOGT 120405 RS TT9030	CSTB4S*	T-15F	PAD-GP06-20-120-DC-SB PAD-GP06-20-120-DC-SC	SR 34-508	T-7F

D185 Guide Pad D188 Cutting Condition D222

- Guide pad with "SB" is the first choice in general purpose machining. "SC" is a excellent toughness grade used with water-soluble coolant.
- Inserts and guide pads must be ordered separately

Driver for TRGDL Type

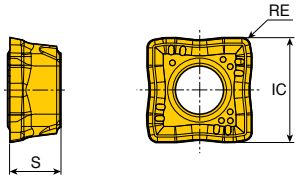
Driver	Tool diameter	Driver code	Dimension (mm)	
			LS	DCONMS
	14.00-19.69	023	56	25.00
	16.00-25.69	024	60	32.00
	16.00-28.00	025	70	40.00
	16.00-28.00	026	80	50.00
	16.00-19.69	035	56	25.00
	16.00-25.69	036	60	32.00
	16.00-19.69	U04	70	25.40
	16.00-25.69	U05	70	31.75
	16.00-28.00	U06	70	38.10

Drilling Heads & Inserts

SOMT...DP

TOPDRILL

Inserts for general purpose



Size	Dimension (mm)		
	IC	S	RE
04	4.4	2.38	0.4
05	4.9	2.38	0.4
06	5.7	2.38	0.4
07	6.8	2.80	0.6
08	7.9	3.97	0.6
09	9.2	3.97	0.8
11	11.0	3.97	0.8
13	12.8	4.40	0.8
15	15.0	4.80	1.0

Insert	Designation	Coated						Uncoated
		TT9080	TT8020	TT9300	TT9030	TT6030	TT7400	K10
	**SOMT 040204 DP**	●	●	●				
	050204 DP	●	●	●				
	060204 DP	●	●	●				
	070306 DP	●	●	●				
	08T306 DP	●	●	●				
	09T308 DP	●	●	●				
	11T308 DP	●	●	●				
	130408 DP	●	●	●				
	150510 DP	●	●	●				

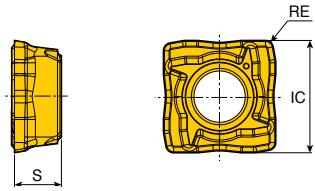
- TT9080: First choice for general purpose
- TT8020: For unstable condition
- TT9300: For high speed machining on a steel application (Peripheral **ONLY**)

●: Standard items

SOMT…DL

TOPDRILL

Inserts for low carbon steel



Size	Dimension (mm)		
	IC	S	RE
05	4.9	2.38	0.4
06	5.7	2.38	0.4
07	6.8	2.80	0.6
08	7.9	3.97	0.6
09	9.2	3.97	0.8
11	11.0	3.97	0.8
13	12.8	4.40	0.8
15	15.0	4.80	1.0

Insert	Designation	Coated						Uncoated
		TT9080	TT9030	TT8020	TT6030	TT9300	TT7400	K10
	**SOMT 050204 DL**	●						
	060204 DL	●						
	070306 DL	●						
	08T306 DL	●						
	09T308 DL	●						
	11T308 DL	●						
	130408 DL	●						
	150510 DL	●						

- TT9080: First choice for general purpose

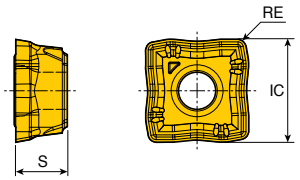
●: Standard items

ADVANCE CUTTING
TaeguTec

SOMT...DK

TOPDRILL

Inserts for cast iron



Size	Dimension (mm)		
	IC	S	RE
05	4.9	2.38	0.4
06	5.7	2.38	0.4
07	6.8	2.80	0.6
08	7.9	3.97	0.6
09	9.2	3.97	0.8
11	11.0	3.97	0.8
13	12.8	4.40	0.8
15	15.0	4.80	1.0

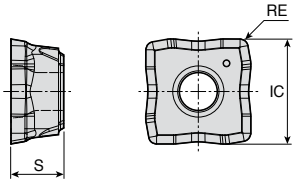
Insert	Designation	Coated								Uncoated			
		TT9080	TT8020	TT9300	TT9030	TT6030	TT6080	TT7400		K10			
	**SOMT 050204 DK**						●						
	060204 DK						●						
	070306 DK						●						
	08T306 DK						●						
	09T308 DK						●						
	11T308 DK						●						
	130408 DK						●						
	150510 DK						●						

●: Standard items

SOMT...DA

TOPDRILL

Inserts for aluminum alloy



Size	Dimension (mm)		
	IC	S	RE
05	4.9	2.38	0.4
06	5.7	2.38	0.4
07	6.8	2.80	0.6
08	7.9	3.97	0.6
09	9.2	3.97	0.8
11	11.0	3.97	0.8
13	12.8	4.40	0.8
15	15.0	4.80	1.0

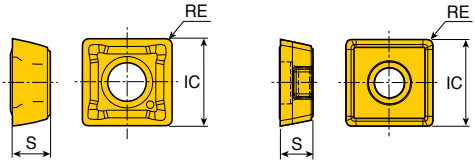
Insert	Designation	Coated								Uncoated			
		TT9080	TT8020	TT9300	TT9030	TT6030	TT6080	TT7400		K10			
	**SOMT 050204 DA**									●			
	060204 DA									●			
	070306 DA									●			
	08T306 DA									●			
	09T308 DA									●			
	11T308 DA									●			
	130408 DA									●			
	150510 DA									●			

●: Standard items

SPMG...DG

TDRILL

Inserts for general purpose



SPMG 120408 DG

Size	Dimension (mm)		
	IC	S	RE
05	5.00	2.38	0.4
06	6.00	2.38	0.4
07	7.94	3.97	0.8
09	9.80	4.30	0.8
11	11.50	4.80	0.8
12	12.70	4.76	0.8
14	14.30	5.20	1.2

Insert	Designation	Coated						Uncoated
		TT9080	TT9030	TT8020	TT6030	TT9300	TT7400	K10
	**SPMG 050204 DG**		●	●			●	
	060204 DG		●	●			●	
	07T308 DG		●	●			●	
	090408 DG		●	●			●	
	110408 DG		●	●			●	
	120408 DG		●					
	140512 DG		●	●			●	

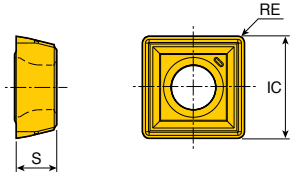
- TT9030: First choice for general purpose
- TT8020: For unstable condition
- TT7400: For high speed machining on a steel application (Peripheral **ONLY**)

●: Standard items

SPMG...DK

TDRILL

Inserts for cast iron



Size	Dimension (mm)		
	IC	S	RE
05	5.00	2.38	0.4
06	6.00	2.38	0.4
07	7.94	3.97	0.8
09	9.80	4.30	0.8
11	11.50	4.80	0.8
14	14.30	5.20	1.2

Insert	Designation	Coated						Uncoated
		TT9080	TT9030	TT8020	TT6030	TT9300	TT7400	K10
	**SPMG 050204 DK**				●			
	060204 DK				●			
	07T308 DK				●			
	090408 DK				●			
	110408 DK				●			
	140512 DK				●			

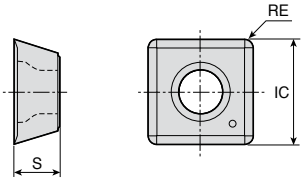
●: Standard items

ADVANCE CUTTING
TaeguTec

SPGG...DA

TDRILL

Inserts for aluminum alloy



Size	Dimension (mm)		
	IC	S	RE
05	5.00	2.38	0.4
06	6.00	2.38	0.4
07	7.94	3.97	0.8
09	9.80	4.30	0.8
11	11.50	4.80	0.8
14	14.30	5.20	1.2

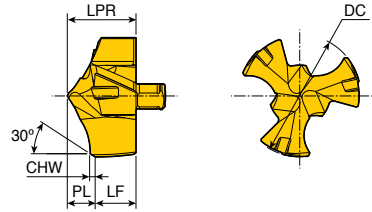
Insert	Designation	Coated						Uncoated
		TT9080	TT9030	TT8020	TT6030	TT9300	TT7400	K10
	**SPGG 050204 DA**							●
	060204 DA							●
	07T308 DA							●
	090408 DA							●
	110408 DA							●
	140512 DA							●

●: Standard items

D32

3ED...-P+

3 flute drill heads



Designation		Dimension (mm)						Grade
		DC	LPR	PL	LF	CHW	SSC	TT5130
3ED-	150-P+	15.0	8.40	3.31	5.09	0.50	15	●
	151-P+	15.1	8.40	3.31	5.09	0.50	15	●
	152-P+	15.2	8.40	3.31	5.09	0.50	15	●
	153-P+	15.3	8.40	3.31	5.09	0.50	15	●
	154-P+	15.4	8.40	3.31	5.09	0.50	15	●
	155-P+	15.5	8.40	3.32	5.08	0.50	15	●
	156-P+	15.6	8.40	3.32	5.08	0.50	15	●
	157-P+	15.7	8.40	3.32	5.08	0.50	15	●
	158-P+	15.8	8.40	3.32	5.08	0.50	15	●
	159-P+	15.9	8.40	3.32	5.08	0.50	15	●
	160-P+	16.0	9.00	3.70	5.30	0.70	16	●
	161-P+	16.1	9.00	3.70	5.30	0.70	16	●
	162-P+	16.2	9.00	3.70	5.30	0.70	16	●
	163-P+	16.3	9.00	3.70	5.30	0.70	16	●
	164-P+	16.4	9.00	3.70	5.30	0.70	16	●
	165-P+	16.5	9.00	3.71	5.29	0.70	16	●
	166-P+	16.6	9.00	3.71	5.29	0.70	16	●
	167-P+	16.7	9.00	3.71	5.29	0.70	16	●
	168-P+	16.8	9.00	3.71	5.29	0.70	16	●
	169-P+	16.9	9.00	3.71	5.29	0.70	16	●
	170-P+	17.0	9.50	3.88	5.62	0.70	17	●
	171-P+	17.1	9.50	3.88	5.62	0.70	17	●
	172-P+	17.2	9.50	3.88	5.62	0.70	17	●
	173-P+	17.3	9.50	3.88	5.62	0.70	17	●
	174-P+	17.4	9.50	3.88	5.62	0.70	17	●
	175-P+	17.5	9.50	3.89	5.61	0.70	17	●
	176-P+	17.6	9.50	3.89	5.61	0.70	17	●
	177-P+	17.7	9.50	3.89	5.61	0.70	17	●
	178-P+	17.8	9.50	3.89	5.61	0.70	17	●
	179-P+	17.9	9.50	3.89	5.61	0.70	17	●

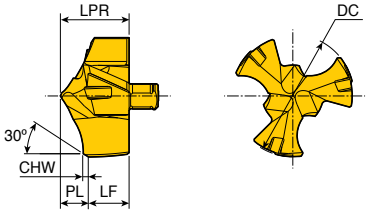
• SSC: Seat size code

●: Standard items

3ED...-P+

DRILLSPEED

3 flute drill heads



Designation	Dimension (mm)						Grade
	DC	LPR	PL	LF	CHW	SSC	TT5130
3ED- 180-P+	18.0	10.10	4.07	6.03	0.70	18	●
181-P+	18.1	10.10	4.07	6.03	0.70	18	●
182-P+	18.2	10.10	4.07	6.03	0.70	18	●
183-P+	18.3	10.10	4.07	6.03	0.70	18	●
184-P+	18.4	10.10	4.07	6.03	0.70	18	●
185-P+	18.5	10.10	4.08	6.02	0.70	18	●
186-P+	18.6	10.10	4.08	6.02	0.70	18	●
187-P+	18.7	10.10	4.08	6.02	0.70	18	●
188-P+	18.8	10.10	4.08	6.02	0.70	18	●
189-P+	18.9	10.10	4.08	6.02	0.70	18	●
190-P+	19.0	10.70	4.26	6.44	0.70	19	●
191-P+	19.1	10.70	4.26	6.44	0.70	19	●
192-P+	19.2	10.70	4.26	6.44	0.70	19	●
193-P+	19.3	10.70	4.26	6.44	0.70	19	●
194-P+	19.4	10.70	4.26	6.44	0.70	19	●
195-P+	19.5	10.70	4.27	6.43	0.70	19	●
196-P+	19.6	10.70	4.27	6.43	0.70	19	●
197-P+	19.7	10.70	4.27	6.43	0.70	19	●
198-P+	19.8	10.70	4.27	6.43	0.70	19	●
199-P+	19.9	10.70	4.27	6.43	0.70	19	●
200-P+	20.0	11.30	4.44	6.86	0.70	20	●
201-P+	20.1	11.30	4.44	6.86	0.70	20	●
202-P+	20.2	11.30	4.44	6.86	0.70	20	●
203-P+	20.3	11.30	4.44	6.86	0.70	20	●
204-P+	20.4	11.30	4.44	6.86	0.70	20	●
205-P+	20.5	11.30	4.45	6.85	0.70	20	●
206-P+	20.6	11.30	4.45	6.85	0.70	20	●
207-P+	20.7	11.30	4.45	6.85	0.70	20	●
208-P+	20.8	11.30	4.45	6.85	0.70	20	●
209-P+	20.9	11.30	4.45	6.85	0.70	20	●


D49

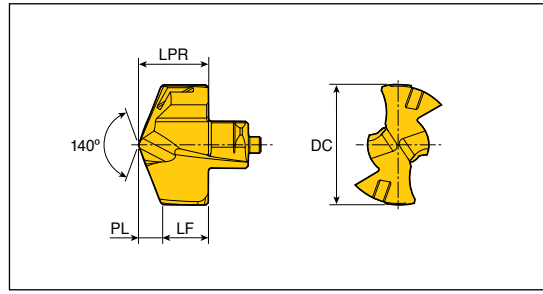
• SSC: Seat size code

●: Standard items

TaeguTec

TCD...P/M/K

Drill heads



Designation	Dimension (mm)					Grade
	DC	LPR	PL	LF	SSC	TT9080
TCD - 060-P/M/K	6.0	4.0	0.96	3.04	6	●
061-P/M/K	6.1	4.0	0.98	3.02	6	●
062-P/M/K	6.2	4.0	1.00	3.00	6	●
063-P/M/K	6.3	4.0	1.01	2.99	6	●
064-P/M/K	6.4	4.0	1.03	2.97	6	●
065-P/M/K	6.5	4.3	1.18	3.12	6.5	●
066-P/M/K	6.6	4.3	1.20	3.10	6.5	●
067-P/M/K	6.7	4.3	1.22	3.08	6.5	●
068-P/M/K	6.8	4.3	1.23	3.07	6.5	●
069-P/M/K	6.9	4.3	1.25	3.05	6.5	●
070-P/M/K	7.0	4.6	1.01	3.59	7	●
071-P/M/K	7.1	4.6	1.03	3.57	7	●
072-P/M/K	7.2	4.6	1.05	3.55	7	●
073-P/M/K	7.3	4.6	1.06	3.54	7	●
074-P/M/K	7.4	4.6	1.08	3.52	7	●
075-P/M/K	7.5	4.6	1.10	3.50	7	●
076-P/M/K	7.6	4.6	1.12	3.48	7	●
077-P/M/K	7.7	4.6	1.14	3.46	7	●
078-P/M/K	7.8	4.6	1.16	3.44	7	●
079-P/M/K	7.9	4.6	1.17	3.43	7	●
080-P/M/K	8.0	5.4	1.20	4.20	8	●
081-P/M/K	8.1	5.4	1.22	4.18	8	●
082-P/M/K	8.2	5.4	1.24	4.16	8	●
083-P/M/K	8.3	5.4	1.25	4.15	8	●
084-P/M/K	8.4	5.4	1.27	4.13	8	●
085-P/M/K	8.5	5.4	1.29	4.11	8	●
086-P/M/K	8.6	5.4	1.31	4.09	8	●
087-P/M/K	8.7	5.4	1.33	4.07	8	●
088-P/M/K	8.8	5.4	1.35	4.05	8	●
089-P/M/K	8.9	5.4	1.36	4.04	8	●
090-P/M/K	9.0	5.8	1.35	4.45	9	●
091-P/M/K	9.1	5.8	1.37	4.43	9	●
092-P/M/K	9.2	5.8	1.39	4.41	9	●
093-P/M/K	9.3	5.8	1.40	4.40	9	●
094-P/M/K	9.4	5.8	1.42	4.38	9	●

• Drill head can be ordered by an application
Order example) Diameter 10.0mm drill head for ISO P application: TCD-100-P TT9080

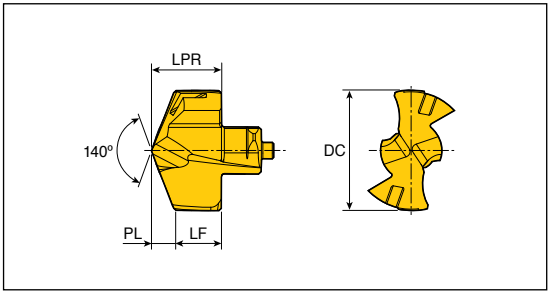
●: Standard items

Ⓟ Steel Ⓜ Stainless steel Ⓚ Cast iron

TCD...P/M/K

DRILLRUSH

Drill heads



Designation	Dimension (mm)					Grade
	DC	LPR	PL	LF	SSC	TT9080
TCD - 095-P/M/K	9.5	5.8	1.44	4.36	9	●
096-P/M/K	9.6	5.8	1.46	4.34	9	●
097-P/M/K	9.7	5.8	1.48	4.32	9	●
098-P/M/K	9.8	5.8	1.50	4.30	9	●
099-P/M/K	9.9	5.8	1.51	4.29	9	●
100-P/M/K	10.0	6.2	1.50	4.70	10	●
101-P/M/K	10.1	6.2	1.52	4.68	10	●
102-P/M/K	10.2	6.2	1.54	4.66	10	●
103-P/M/K	10.3	6.2	1.55	4.65	10	●
104-P/M/K	10.4	6.2	1.57	4.63	10	●
105-P/M/K	10.5	6.2	1.59	4.61	10	●
106-P/M/K	10.6	6.2	1.61	4.59	10	●
107-P/M/K	10.7	6.2	1.63	4.57	10	●
108-P/M/K	10.8	6.2	1.65	4.55	10	●
109-P/M/K	10.9	6.2	1.66	4.54	10	●
110-P/M/K	11.0	6.6	1.67	4.93	11	●
111-P/M/K	11.1	6.6	1.69	4.91	11	●
112-P/M/K	11.2	6.6	1.71	4.89	11	●
113-P/M/K	11.3	6.6	1.72	4.88	11	●
114-P/M/K	11.4	6.6	1.74	4.86	11	●
115-P/M/K	11.5	6.6	1.76	4.84	11	●
116-P/M/K	11.6	6.6	1.78	4.82	11	●
117-P/M/K	11.7	6.6	1.80	4.80	11	●
118-P/M/K	11.8	6.6	1.82	4.78	11	●
119-P/M/K	11.9	6.6	1.83	4.77	11	●
120-P/M/K	12.0	7.0	1.82	5.18	12	●
121-P/M/K	12.1	7.0	1.84	5.16	12	●
122-P/M/K	12.2	7.0	1.86	5.14	12	●
123-P/M/K	12.3	7.0	1.87	5.13	12	●
124-P/M/K	12.4	7.0	1.89	5.11	12	●
125-P/M/K	12.5	7.0	1.91	5.09	12	●
126-P/M/K	12.6	7.0	1.93	5.07	12	●
127-P/M/K	12.7	7.0	1.95	5.05	12	●
128-P/M/K	12.8	7.0	1.97	5.03	12	●
129-P/M/K	12.9	7.0	1.98	5.02	12	●

• Drill head can be ordered by an application
Order example) Diameter 10.0mm drill head for ISO P application: TCD-100-P TT9080

●: Standard items

P Steel M Stainless steel K Cast iron

TaeguTec

Drill heads

Designation	Dimension (mm)					Grade
	DC	LPR	PL	LF	SSC	TT9080
TCD - 130-P/M/K	13.0	7.6	1.96	5.64	13	●
131-P/M/K	13.1	7.6	1.98	5.62	13	●
132-P/M/K	13.2	7.6	2.00	5.60	13	●
133-P/M/K	13.3	7.6	2.01	5.59	13	●
134-P/M/K	13.4	7.6	2.03	5.57	13	●
135-P/M/K	13.5	7.6	2.05	5.55	13	●
136-P/M/K	13.6	7.6	2.07	5.53	13	●
137-P/M/K	13.7	7.6	2.09	5.51	13	●
138-P/M/K	13.8	7.6	2.11	5.49	13	●
139-P/M/K	13.9	7.6	2.12	5.48	13	●
140-P/M/K	14.0	8.1	2.12	5.98	14	●
141-P/M/K	14.1	8.1	2.14	5.96	14	●
142-P/M/K	14.2	8.1	2.16	5.94	14	●
143-P/M/K	14.3	8.1	2.17	5.93	14	●
144-P/M/K	14.4	8.1	2.19	5.91	14	●
145-P/M/K	14.5	8.1	2.21	5.89	14	●
146-P/M/K	14.6	8.1	2.23	5.87	14	●
147-P/M/K	14.7	8.1	2.25	5.85	14	●
148-P/M/K	14.8	8.1	2.27	5.83	14	●
149-P/M/K	14.9	8.1	2.28	5.82	14	●
150-P/M/K	15.0	8.7	2.27	6.43	15	●
151-P/M/K	15.1	8.7	2.29	6.41	15	●
152-P/M/K	15.2	8.7	2.31	6.39	15	●
153-P/M/K	15.3	8.7	2.32	6.38	15	●
154-P/M/K	15.4	8.7	2.34	6.36	15	●
155-P/M/K	15.5	8.7	2.36	6.34	15	●
156-P/M/K	15.6	8.7	2.38	6.32	15	●
157-P/M/K	15.7	8.7	2.40	6.30	15	●
158-P/M/K	15.8	8.7	2.42	6.28	15	●
159-P/M/K	15.9	8.7	2.43	6.27	15	●
160-P/M/K	16.0	9.3	2.42	6.88	16	●
161-P/M/K	16.1	9.3	2.44	6.86	16	●
162-P/M/K	16.2	9.3	2.46	6.84	16	●
163-P/M/K	16.3	9.3	2.47	6.83	16	●
164-P/M/K	16.4	9.3	2.49	6.81	16	●

• Drill head can be ordered by an application
Order example) Diameter 10.0mm drill head for ISO P application: TCD-100-P TT9080

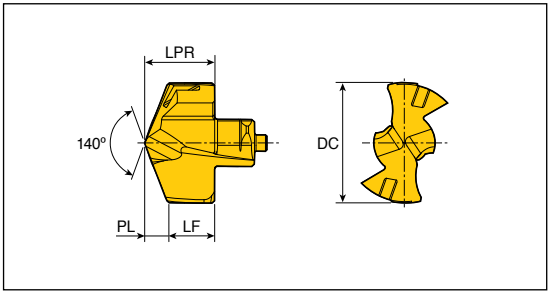
●: Standard items

Ⓟ Steel Ⓜ Stainless steel Ⓚ Cast iron

TCD...P/M/K

DRILLRUSH

Drill heads



Designation	Dimension (mm)					Grade
	DC	LPR	PL	LF	SSC	TT9080
TCD - 165-P/M/K	16.5	9.3	2.51	6.79	16	●
166-P/M/K	16.6	9.3	2.53	6.77	16	●
167-P/M/K	16.7	9.3	2.55	6.75	16	●
168-P/M/K	16.8	9.3	2.57	6.73	16	●
169-P/M/K	16.9	9.3	2.58	6.72	16	●
170-P/M/K	17.0	9.9	2.59	7.31	17	●
171-P/M/K	17.1	9.9	2.61	7.29	17	●
172-P/M/K	17.2	9.9	2.63	7.27	17	●
173-P/M/K	17.3	9.9	2.64	7.26	17	●
174-P/M/K	17.4	9.9	2.66	7.24	17	●
175-P/M/K	17.5	9.9	2.68	7.22	17	●
176-P/M/K	17.6	9.9	2.70	7.20	17	●
177-P/M/K	17.7	9.9	2.72	7.18	17	●
178-P/M/K	17.8	9.9	2.74	7.16	17	●
179-P/M/K	17.9	9.9	2.75	7.15	17	●
180-P/M/K	18.0	10.5	2.73	7.77	18	●
181-P/M/K	18.1	10.5	2.75	7.75	18	●
182-P/M/K	18.2	10.5	2.77	7.73	18	●
183-P/M/K	18.3	10.5	2.78	7.72	18	●
184-P/M/K	18.4	10.5	2.80	7.70	18	●
185-P/M/K	18.5	10.5	2.82	7.68	18	●
186-P/M/K	18.6	10.5	2.84	7.66	18	●
187-P/M/K	18.7	10.5	2.86	7.64	18	●
188-P/M/K	18.8	10.5	2.88	7.62	18	●
189-P/M/K	18.9	10.5	2.89	7.61	18	●
190-P/M/K	19.0	11.0	2.88	8.12	19	●
191-P/M/K	19.1	11.0	2.90	8.10	19	●
192-P/M/K	19.2	11.0	2.92	8.08	19	●
193-P/M/K	19.3	11.0	2.93	8.07	19	●
194-P/M/K	19.4	11.0	2.95	8.05	19	●
195-P/M/K	19.5	11.0	2.97	8.03	19	●
196-P/M/K	19.6	11.0	2.99	8.01	19	●
197-P/M/K	19.7	11.0	3.01	7.99	19	●
198-P/M/K	19.8	11.0	3.03	7.97	19	●
199-P/M/K	19.9	11.0	3.04	7.96	19	●

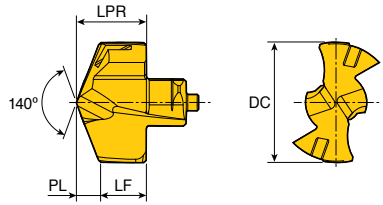
• Drill head can be ordered by an application
Order example) Diameter 10.0mm drill head for ISO P application: TCD-100-P TT9080

●: Standard items

P Steel M Stainless steel K Cast iron

TaeguTec

Drill heads



Designation	Dimension (mm)					Grade
	DC	LPR	PL	LF	SSC	TT9080
TCD - 200-P/M/K	20.0	11.6	3.02	8.58	20	●
201-P/M/K	20.1	11.6	3.04	8.56	20	●
202-P/M/K	20.2	11.6	3.06	8.54	20	●
203-P/M/K	20.3	11.6	3.07	8.53	20	●
204-P/M/K	20.4	11.6	3.09	8.51	20	●
205-P/M/K	20.5	11.6	3.11	8.49	20	●
206-P/M/K	20.6	11.6	3.13	8.47	20	●
207-P/M/K	20.7	11.6	3.15	8.45	20	●
208-P/M/K	20.8	11.6	3.17	8.43	20	●
209-P/M/K	20.9	11.6	3.18	8.42	20	●
210-P/M/K	21.0	12.1	3.18	8.92	21	●
211-P/M/K	21.1	12.1	3.20	8.90	21	●
212-P/M/K	21.2	12.1	3.22	8.88	21	●
213-P/M/K	21.3	12.1	3.23	8.87	21	●
214-P/M/K	21.4	12.1	3.25	8.85	21	●
215-P/M/K	21.5	12.1	3.27	8.83	21	●
216-P/M/K	21.6	12.1	3.29	8.81	21	●
217-P/M/K	21.7	12.1	3.31	8.79	21	●
218-P/M/K	21.8	12.1	3.33	8.77	21	●
219-P/M/K	21.9	12.1	3.34	8.76	21	●
220-P/M/K	22.0	12.7	3.24	9.46	22	●
221-P/M/K	22.1	12.7	3.26	9.44	22	●
222-P/M/K	22.2	12.7	3.28	9.42	22	●
223-P/M/K	22.3	12.7	3.29	9.41	22	●
224-P/M/K	22.4	12.7	3.31	9.39	22	●
225-P/M/K	22.5	12.7	3.33	9.37	22	●
226-P/M/K	22.6	12.7	3.35	9.35	22	●
227-P/M/K	22.7	12.7	3.37	9.33	22	●
228-P/M/K	22.8	12.7	3.39	9.31	22	●
229-P/M/K	22.9	12.7	3.40	9.30	22	●
230-P/M/K	23.0	13.3	3.46	9.84	23	●
231-P/M/K	23.1	13.3	3.48	9.82	23	●
232-P/M/K	23.2	13.3	3.50	9.80	23	●
233-P/M/K	23.3	13.3	3.51	9.79	23	●
234-P/M/K	23.4	13.3	3.53	9.77	23	●

• Drill head can be ordered by an application
Order example) Diameter 10.0mm drill head for ISO P application: TCD-100-P TT9080

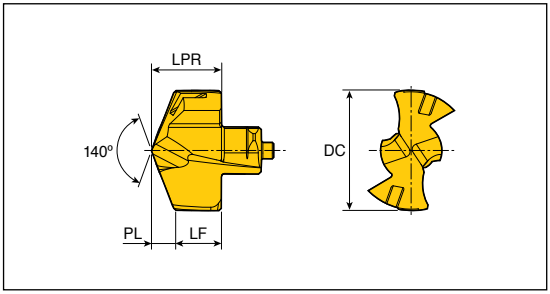
●: Standard items

P Steel M Stainless steel K Cast iron

TCD...P/M/K

DRILLRUSH

Drill heads



Designation	Dimension (mm)					Grade
	DC	LPR	PL	LF	SSC	TT9080
TCD - 235-P/M/K	23.5	13.3	3.55	9.75	23	●
236-P/M/K	23.6	13.3	3.57	9.73	23	●
237-P/M/K	23.7	13.3	3.59	9.71	23	●
238-P/M/K	23.8	13.3	3.61	9.69	23	●
239-P/M/K	23.9	13.3	3.62	9.68	23	●
240-P/M/K	24.0	13.9	3.62	10.28	24	●
241-P/M/K	24.1	13.9	3.64	10.26	24	●
242-P/M/K	24.2	13.9	3.66	10.24	24	●
243-P/M/K	24.3	13.9	3.67	10.23	24	●
244-P/M/K	24.4	13.9	3.69	10.21	24	●
245-P/M/K	24.5	13.9	3.71	10.19	24	●
246-P/M/K	24.6	13.9	3.73	10.17	24	●
247-P/M/K	24.7	13.9	3.75	10.15	24	●
248-P/M/K	24.8	13.9	3.77	10.13	24	●
249-P/M/K	24.9	13.9	3.78	10.12	24	●
250-P/M/K	25.0	14.5	3.80	10.70	25	●
251-P/M/K	25.1	14.5	3.82	10.68	25	●
252-P/M/K	25.2	14.5	3.84	10.66	25	●
253-P/M/K	25.3	14.5	3.85	10.65	25	●
254-P/M/K	25.4	14.5	3.87	10.63	25	●
255-P/M/K	25.5	14.5	3.89	10.61	25	●
256-P/M/K	25.6	14.5	3.91	10.59	25	●
257-P/M/K	25.7	14.5	3.93	10.57	25	●
258-P/M/K	25.8	14.5	3.95	10.55	25	●
259-P/M/K	25.9	14.5	3.96	10.54	25	●

D51

• Drill head can be ordered by an application
Order example) Diameter 10.0mm drill head for ISO P application: TCD-100-P TT9080

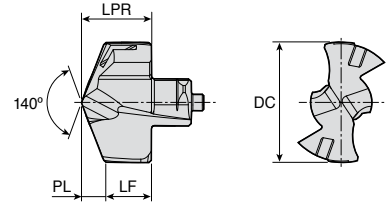
●: Standard items

P Steel M Stainless steel K Cast iron

TaeguTec

TCD...N

Drill heads for aluminum alloy



Designation	Dimension (mm)					Grade
	DC	LPR	PL	LF	SSC	UF10
TCD - 060-N	6.0	4.00	0.96	3.04	6	●
065-N	6.5	4.30	1.18	3.12	6.5	●
070-N	7.0	4.60	1.01	3.59	7	●
075-N	7.5	4.60	1.10	3.50	7	●
080-N	8.0	5.40	1.20	4.20	8	●
085-N	8.5	5.40	1.29	4.11	8	●
090-N	9.0	5.80	1.35	4.45	9	●
095-N	9.5	5.80	1.44	4.36	9	●
100-N	10.0	6.20	1.50	4.70	10	●
105-N	10.5	6.20	1.59	4.61	10	●
110-N	11.0	6.60	1.67	4.93	11	●
115-N	11.5	6.60	1.76	4.84	11	●
120-N	12.0	7.00	1.82	5.18	12	●
125-N	12.5	7.00	1.91	5.09	12	●
130-N	13.0	7.60	1.96	5.64	13	●
135-N	13.5	7.60	2.05	5.55	13	●
140-N	14.0	8.15	2.12	6.03	14	●
145-N	14.5	8.15	2.21	5.94	14	●
150-N	15.0	8.73	2.27	6.46	15	●
155-N	15.5	8.73	2.36	6.37	15	●
160-N	16.0	9.30	2.42	6.88	16	●
165-N	16.5	9.30	2.51	6.79	16	●
170-N	17.0	9.90	2.59	7.31	17	●
175-N	17.5	9.90	2.68	7.22	17	●
180-N	18.0	10.50	2.73	7.77	18	●
185-N	18.5	10.50	2.82	7.68	18	●
190-N	19.0	11.00	2.88	8.12	19	●
195-N	19.5	11.00	2.97	8.03	19	●

• SSC: Seat size code

●: Standard items

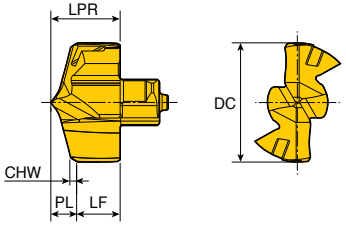
N Nonferrous

ADVANCE CUTTING TaeguTec

TCD-P+

DRILLRUSH

Self-centering drill heads



Designation	Dimension (mm)						Grade
	DC	LPR	PL	LF	CHW	SSC	TT9080
TCD-060-P+	6.0	4.00	1.46	2.54	0.5	6	●
065-P+	6.5	4.30	1.55	2.75	0.5	6.5	●
068-P+	6.8	4.30	1.59	2.71	0.5	6.5	●
070-P+	7.0	4.60	1.64	2.96	0.5	7	●
072-P+	7.2	4.60	1.67	2.93	0.5	7	●
075-P+	7.5	4.60	1.71	2.89	0.5	7	●
080-P+	8.0	5.40	1.81	3.59	0.5	8	●
081-P+	8.1	5.40	1.82	3.58	0.5	8	●
082-P+	8.2	5.40	1.84	3.56	0.5	8	●
083-P+	8.3	5.40	1.85	3.55	0.5	8	●
085-P+	8.5	5.40	1.88	3.52	0.5	8	●
086-P+	8.6	5.40	1.89	3.51	0.5	8	●
087-P+	8.7	5.40	1.90	3.50	0.5	8	●
088-P+	8.8	5.40	1.92	3.48	0.5	8	●
089-P+	8.9	5.40	1.93	3.47	0.5	8	●
090-P+	9.0	5.80	1.98	3.82	0.5	9	●
093-P+	9.3	5.80	2.02	3.78	0.5	9	●
095-P+	9.5	5.80	2.05	3.75	0.5	9	●
096-P+	9.6	5.80	2.06	3.74	0.5	9	●
097-P+	9.7	5.80	2.07	3.73	0.5	9	●
098-P+	9.8	5.80	2.09	3.71	0.5	9	●
099-P+	9.9	5.80	2.10	3.70	0.5	9	●
100-P+	10.0	6.20	2.33	3.87	0.7	10	●
101-P+	10.1	6.20	2.34	3.86	0.7	10	●
102-P+	10.2	6.20	2.36	3.84	0.7	10	●
103-P+	10.3	6.20	2.37	3.83	0.7	10	●
105-P+	10.5	6.20	2.40	3.80	0.7	10	●
106-P+	10.6	6.20	2.41	3.79	0.7	10	●
107-P+	10.7	6.20	2.42	3.78	0.7	10	●
108-P+	10.8	6.20	2.44	3.76	0.7	10	●
109-P+	10.9	6.20	2.45	3.75	0.7	10	●
110-P+	11.0	6.60	2.50	4.10	0.7	11	●
111-P+	11.1	6.60	2.51	4.09	0.7	11	●
112-P+	11.2	6.60	2.53	4.07	0.7	11	●
113-P+	11.3	6.60	2.54	4.06	0.7	11	●

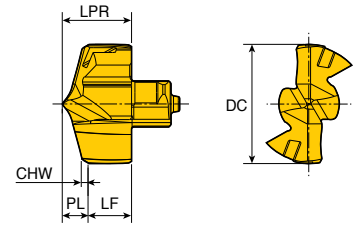
• SSC: Seat size code

●: Standard items

TaeguTec

TCD-P+

Self-centering drill heads



Designation	Dimension (mm)						Grade
	DC	LPR	PL	LF	CHW	SSC	TT9080
TCD-114-P+	11.4	6.60	2.55	4.05	0.7	11	●
115-P+	11.5	6.60	2.57	4.03	0.7	11	●
116-P+	11.6	6.60	2.58	4.02	0.7	11	●
117-P+	11.7	6.60	2.59	4.01	0.7	11	●
118-P+	11.8	6.60	2.61	3.99	0.7	11	●
119-P+	11.9	6.60	2.62	3.98	0.7	11	●
120-P+	12.0	7.00	2.67	4.33	0.7	12	●
121-P+	12.1	7.00	2.68	4.32	0.7	12	●
122-P+	12.2	7.00	2.70	4.30	0.7	12	●
123-P+	12.3	7.00	2.71	4.29	0.7	12	●
124-P+	12.4	7.00	2.72	4.28	0.7	12	●
125-P+	12.5	7.00	2.74	4.26	0.7	12	●
126-P+	12.6	7.00	2.75	4.25	0.7	12	●
127-P+	12.7	7.00	2.76	4.24	0.7	12	●
128-P+	12.8	7.00	2.78	4.22	0.7	12	●
130-P+	13.0	7.60	2.85	4.75	0.7	13	●
131-P+	13.1	7.60	2.86	4.74	0.7	13	●
132-P+	13.2	7.60	2.88	4.72	0.7	13	●
133-P+	13.3	7.60	2.89	4.71	0.7	13	●
134-P+	13.4	7.60	2.90	4.70	0.7	13	●
135-P+	13.5	7.60	2.92	4.68	0.7	13	●
136-P+	13.6	7.60	2.93	4.67	0.7	13	●
137-P+	13.7	7.60	2.94	4.66	0.7	13	●
138-P+	13.8	7.60	2.96	4.64	0.7	13	●
139-P+	13.9	7.60	2.97	4.63	0.7	13	●
140-P+	14.0	8.15	3.02	5.13	0.7	14	●
141-P+	14.1	8.15	3.03	5.12	0.7	14	●
142-P+	14.2	8.15	3.05	5.10	0.7	14	●
143-P+	14.3	8.15	3.06	5.09	0.7	14	●
144-P+	14.4	8.15	3.07	5.08	0.7	14	●
145-P+	14.5	8.15	3.09	5.06	0.7	14	●
146-P+	14.6	8.15	3.10	5.05	0.7	14	●
147-P+	14.7	8.15	3.11	5.04	0.7	14	●
148-P+	14.8	8.15	3.13	5.02	0.7	14	●
150-P+	15.0	8.73	3.19	5.54	0.7	15	●

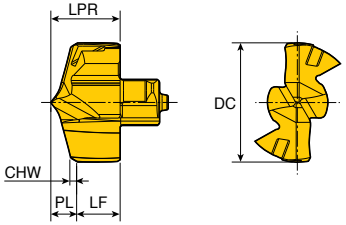
• SSC: Seat size code

●: Standard items

TCD-P+

DRILLRUSH

Self-centering drill heads



Designation	Dimension (mm)						Grade
	DC	LPR	PL	LF	CHW	SSC	TT9080
TCD-151-P+	15.1	8.73	3.20	5.53	0.7	15	●
152-P+	15.2	8.73	3.22	5.51	0.7	15	●
153-P+	15.3	8.73	3.23	5.50	0.7	15	●
154-P+	15.4	8.73	3.24	5.49	0.7	15	●
155-P+	15.5	8.73	3.26	5.47	0.7	15	●
156-P+	15.6	8.73	3.27	5.46	0.7	15	●
157-P+	15.7	8.73	3.28	5.45	0.7	15	●
158-P+	15.8	8.73	3.30	5.43	0.7	15	●
159-P+	15.9	8.73	3.31	5.42	0.7	15	●
160-P+	16.0	9.30	3.46	5.84	0.81	16	●
161-P+	16.1	9.30	3.47	5.83	0.81	16	●
162-P+	16.2	9.30	3.49	5.81	0.81	16	●
163-P+	16.3	9.30	3.50	5.80	0.81	16	●
164-P+	16.4	9.30	3.51	5.79	0.81	16	●
165-P+	16.5	9.30	3.53	5.77	0.81	16	●
166-P+	16.6	9.30	3.54	5.76	0.81	16	●
167-P+	16.7	9.30	3.55	5.75	0.81	16	●
168-P+	16.8	9.30	3.57	5.73	0.81	16	●
170-P+	17.0	9.90	3.63	6.27	0.81	17	●
171-P+	17.1	9.90	3.64	6.26	0.81	17	●
172-P+	17.2	9.90	3.66	6.24	0.81	17	●
173-P+	17.3	9.90	3.67	6.23	0.81	17	●
174-P+	17.4	9.90	3.68	6.22	0.81	17	●
175-P+	17.5	9.90	3.70	6.20	0.81	17	●
176-P+	17.6	9.90	3.71	6.19	0.81	17	●
177-P+	17.7	9.90	3.72	6.18	0.81	17	●
178-P+	17.8	9.90	3.74	6.16	0.81	17	●
179-P+	17.9	9.90	3.75	6.15	0.81	17	●
180-P+	18.0	10.50	3.81	6.69	0.81	18	●
181-P+	18.1	10.50	3.82	6.68	0.81	18	●
182-P+	18.2	10.50	3.84	6.66	0.81	18	●
183-P+	18.3	10.50	3.85	6.65	0.81	18	●
185-P+	18.5	10.50	3.88	6.62	0.81	18	●
186-P+	18.6	10.50	3.89	6.61	0.81	18	●
187-P+	18.7	10.50	3.90	6.60	0.81	18	●

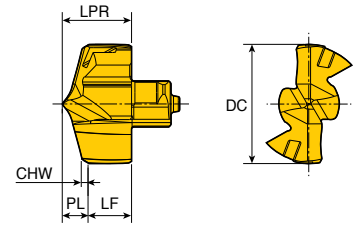
• SSC: Seat size code

●: Standard items

TaeguTec

TCD-P+

Self-centering drill heads



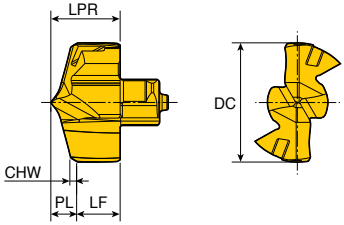
Designation	Dimension (mm)						Grade
	DC	LPR	PL	LF	CHW	SSC	TT9080
TCD-188-P+	18.8	10.50	3.92	6.58	0.81	18	●
190-P+	19.0	11.00	3.98	7.02	0.81	19	●
191-P+	19.1	11.00	3.99	7.01	0.81	19	●
192-P+	19.2	11.00	4.01	6.99	0.81	19	●
193-P+	19.3	11.00	4.02	6.98	0.81	19	●
194-P+	19.4	11.00	4.03	6.97	0.81	19	●
195-P+	19.5	11.00	4.05	6.95	0.81	19	●
196-P+	19.6	11.00	4.06	6.94	0.81	19	●
197-P+	19.7	11.00	4.07	6.93	0.81	19	●
198-P+	19.8	11.00	4.09	6.91	0.81	19	●
199-P+	19.9	11.00	4.10	6.90	0.81	19	●
200-P+	20.0	11.60	4.15	7.45	0.81	20	●
201-P+	20.1	11.60	4.16	7.44	0.81	20	●
202-P+	20.2	11.60	4.18	7.42	0.81	20	●
205-P+	20.5	11.60	4.22	7.38	0.81	20	●
206-P+	20.6	11.60	4.23	7.37	0.81	20	●
207-P+	20.7	11.60	4.24	7.36	0.81	20	●
210-P+	21.0	12.18	4.32	7.86	0.81	21	●
212-P+	21.2	12.18	4.35	7.83	0.81	21	●
213-P+	21.3	12.18	4.36	7.82	0.81	21	●
214-P+	21.4	12.18	4.37	7.81	0.81	21	●
215-P+	21.5	12.18	4.39	7.79	0.81	21	●
218-P+	21.8	12.18	4.43	7.75	0.81	21	●
220-P+	22.0	12.76	4.50	8.26	0.81	22	●
225-P+	22.5	12.76	4.57	8.19	0.81	22	●
229-P+	22.9	12.76	4.62	8.14	0.81	22	●
230-P+	23.0	13.33	4.67	8.66	0.81	23	●
235-P+	23.5	13.33	4.74	8.59	0.81	23	●
240-P+	24.0	13.90	4.84	9.06	0.81	24	●
245-P+	24.5	13.90	4.91	8.99	0.81	24	●
250-P+	25.0	14.50	5.01	9.49	0.81	25	●
254-P+	25.4	14.50	5.06	9.44	0.81	25	●
255-P+	25.5	14.50	5.08	9.42	0.81	25	●
256-P+	25.6	14.50	5.09	9.41	0.81	25	●
257-P+	25.7	14.50	5.10	9.40	0.81	25	●

• SSC: Seat size code

●: Standard items

TCD-P+

Self-centering drill heads



Designation	Dimension (mm)						Grade
	DC	LPR	PL	LF	CHW	SSC	TT9080
TCD-258-P+	25.8	14.50	5.12	9.38	0.81	25	●
259-P+	25.9	14.50	5.13	9.37	0.81	25	●


D51

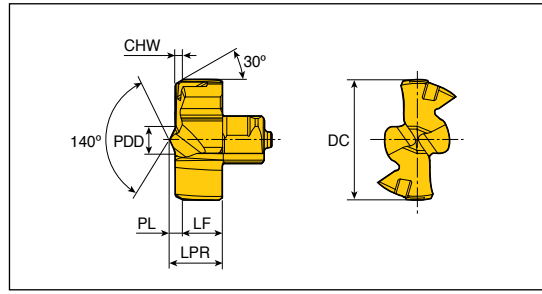
• SSC: Seat size code

●: Standard items

TCD...F

DRILLRUSH

Drill heads for flat bottom hole



Designation	Dimension (mm)							Grade
	DC	PDD	LPR	PL	LF	CHW	SSC	TT9080
TCD - 080-F	8.0	2.33	4.4	1.09	3.3	0.7	8	●
085-F	8.5	2.33	4.4	1.09	3.3	0.7	8	●
090-F	9.0	2.29	4.6	1.11	3.5	0.7	9	●
095-F	9.5	2.29	4.6	1.11	3.5	0.7	9	●
100-F	10.0	2.44	4.9	1.17	3.7	0.7	10	●
105-F	10.5	2.44	4.9	1.17	3.7	0.7	10	●
110-F	11.0	3.09	5.1	1.25	3.8	0.7	11	●
115-F	11.5	3.09	5.1	1.25	3.8	0.7	11	●
120-F	12.0	2.95	5.4	1.26	4.1	0.7	12	●
125-F	12.5	2.95	5.4	1.26	4.1	0.7	12	●
130-F	13.0	3.04	5.7	1.30	4.4	0.7	13	●
135-F	13.5	3.04	5.7	1.30	4.4	0.7	13	●
140-F	14.0	3.30	6.1	1.31	4.8	0.7	14	●
145-F	14.5	3.30	6.1	1.31	4.8	0.7	14	●
150-F	15.0	3.54	6.6	1.35	5.23	0.7	15	●
155-F	15.5	3.54	6.6	1.35	5.23	0.7	15	●
160-F	16.0	3.74	7.0	1.39	5.6	0.7	16	●
165-F	16.5	3.74	7.0	1.39	5.6	0.7	16	●
170-F	17.0	3.75	7.3	1.40	5.9	0.7	17	●
175-F	17.5	3.75	7.3	1.40	5.9	0.7	17	●
180-F	18.0	3.85	7.6	1.42	6.18	0.7	18	●
185-F	18.5	3.85	7.6	1.42	6.18	0.7	18	●
190-F	19.0	3.86	7.9	1.44	6.5	0.7	19	●
195-F	19.5	3.86	7.9	1.44	6.5	0.7	19	●
200-F	20.0	6.76	9.3	1.77	7.5	0.7	20	●
205-F	20.5	6.76	9.3	1.77	7.5	0.7	20	●
210-F	21.0	6.98	9.7	1.79	7.9	0.7	21	●
215-F	21.5	6.98	9.7	1.79	7.9	0.7	21	●
220-F	22.0	7.42	10.0	1.81	8.2	0.7	22	●
225-F	22.5	7.42	10.0	1.81	8.2	0.7	22	●
230-F	23.0	7.60	10.4	1.83	8.6	0.7	23	●
235-F	23.5	7.60	10.4	1.83	8.6	0.7	23	●
240-F	24.0	8.13	10.9	1.86	9.0	0.7	24	●
245-F	24.5	8.13	10.9	1.86	9.0	0.7	24	●
250-F	25.0	8.16	11.3	1.89	9.4	0.7	25	●

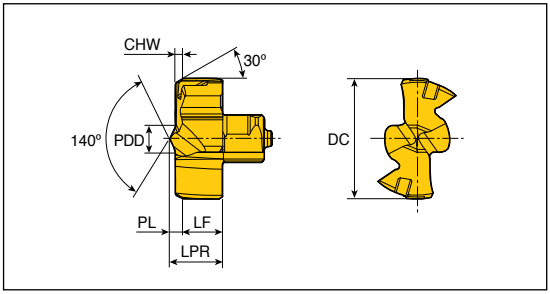
• SSC: Seat size code

●: Standard items

ADVANCE CUTTING
TaeguTec

TCD...F

Drill heads for flat bottom hole



Designation	Dimension (mm)							Grade
	DC	PDD	LPR	PL	LF	CHW	SSC	TT9080
TCD - 254-F	25.4	8.16	11.3	1.89	9.4	0.7	25	●
255-F	25.5	8.16	11.3	1.89	9.4	0.7	25	●


D51

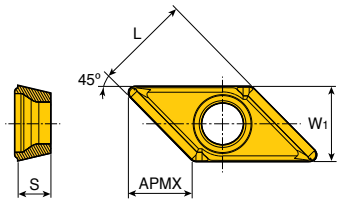
• SSC: Seat size code

●: Standard items

AOMT 060204-C45

DRILLRUSH

Chamfering inserts for pre-thread hole



Size	Dimension (mm)			
	W1	L	S	APMX
06	4.5	5.66	1.96	4.0

Insert	Designation	Coated						Uncoated			
		TT9080	TT9030	TT8020	TT6030	TT9300	TT7400	K10			
	**AOMT 060204-C45**	●									

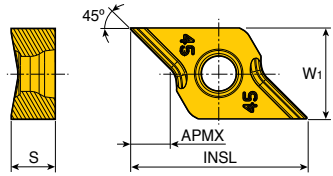
●: Standard items

D60

CRNG 0802-45CD

DRILLRUSH

Chamfering inserts for chamfering ring



Size	Dimension (mm)			
	W1	INSL	S	APMX
08	7.5	14.80	3.65	3.3

Insert	Designation	Coated						Uncoated			
		TT9080	TT9030	TT8020	TT6030	TT9300	TT7400	K10			
	**CRNG 0802-45CD**	●									

●: Standard items

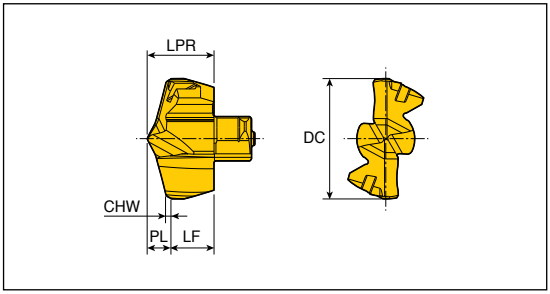
D61

ADVANCE CUTTING
TaeguTec

TCD...P-CO+

MODURDRILL

Self-centering drill heads



Designation	Dimension (mm)						Grade
	DC	LPR	PL	LF	CHW	SSC	TT9080
TCD-159-P-CO+	15.9	8.73	3.17	5.56	0.7	15	●
169-P-CO+	16.9	9.30	3.34	5.96	0.81	16	●
179-P-CO+	17.9	9.90	3.50	6.40	0.81	17	●
189-P-CO+	18.9	10.50	3.66	6.84	0.81	18	●
199-P-CO+	19.9	11.00	3.82	7.18	0.81	19	●
209-P-CO+	20.9	11.60	3.98	7.62	0.81	20	●
219-P-CO+	21.9	12.18	4.15	8.03	0.81	21	●
229-P-CO+	22.9	12.76	4.31	8.45	0.81	22	●
239-P-CO+	23.9	13.33	4.48	8.85	0.81	23	●
249-P-CO+	24.9	13.90	4.64	9.26	0.81	24	●
259-P-CO+	25.9	14.50	4.81	9.69	0.81	25	●

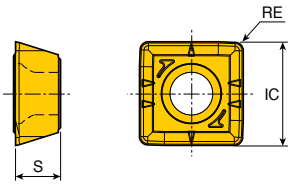
• SSC: Seat size code

●: Standard items

SPGX...DW

MODURDRILL

Inserts



Size	Dimension (mm)			
	IC	S	RE	
06	6.07	2.38	0.4	
07	8.02	3.97	0.8	
09	9.91	4.30	0.8	
11	11.62	4.80	0.8	
14	14.41	5.20	1.2	

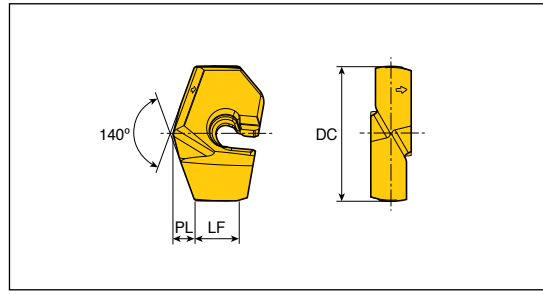
Insert	Designation	Coated								Uncoated			
		TT9080	TT8020	TT9300	TT9030	TT6030	TT7400			K10			
	**SPGX 060204 DW**	●											
	07T308 DW	●											
	090408 DW	●											
	110408 DW	●											
	140512 DW	●											

●: Standard items

TaeguTec

LCD...-P

Drill heads



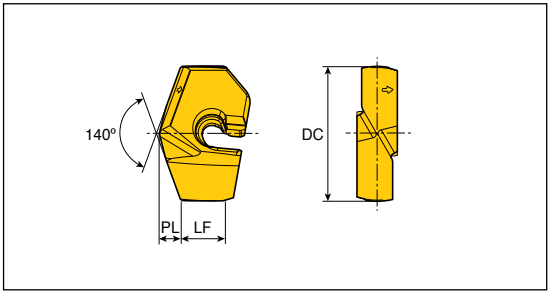
Designation	Dimension (mm)				Grade
	DC	PL	LF	SSC	TT9080
LCD- 200-P	20.0	3.11	6.54	20	●
205-P	20.5	3.20	6.45	20	●
210-P	21.0	3.29	6.36	21	●
215-P	21.5	3.38	6.27	21	●
220-P	22.0	3.42	7.12	22	●
225-P	22.5	3.51	7.03	22	●
230-P	23.0	3.60	6.94	23	●
235-P	23.5	3.69	6.85	23	●
240-P	24.0	3.73	7.03	24	●
245-P	24.5	3.82	6.94	24	●
250-P	25.0	3.91	6.85	25	●
255-P	25.5	4.00	6.76	25	●
260-P	26.0	4.04	7.51	26	●
265-P	26.5	4.13	7.42	26	●
270-P	27.0	4.22	7.33	27	●
275-P	27.5	4.31	7.24	27	●
280-P	28.0	4.35	7.39	28	●
285-P	28.5	4.44	7.30	28	●
290-P	29.0	4.53	7.21	29	●
295-P	29.5	4.62	7.12	29	●
300-P	30.0	4.67	9.47	30	●
305-P	30.5	4.76	9.38	30	●
310-P	31.0	4.85	9.29	31	●
315-P	31.5	4.94	9.20	31	●
320-P	32.0	4.98	9.55	32	●
325-P	32.5	5.07	9.46	32	●
330-P	33.0	5.16	9.37	33	●
335-P	33.5	5.25	9.28	33	●
340-P	34.0	5.34	9.19	34	●
345-P	34.5	5.44	9.10	34	●
350-P	35.0	5.44	11.12	35	●
355-P	35.5	5.53	11.03	35	●
360-P	36.0	5.62	10.94	36	●
365-P	36.5	5.71	10.85	36	●
370-P	37.0	5.80	10.76	37	●

• SSC: Seat size code

●: Standard items

LCD...-P

Drill heads



Designation	Dimension (mm)				Grade
	DC	PL	LF	SSC	TT9080
LCD- 375-P	37.5	5.90	10.67	37	●
380-P	38.0	5.91	11.09	38	●
385-P	38.5	6.00	11.00	38	●
390-P	39.0	6.09	10.91	39	●
395-P	39.5	6.18	10.82	39	●
400-P	40.0	6.27	10.73	40	●
405-P	40.5	6.37	10.64	40	●
410-P	41.0	6.46	10.54	40	●

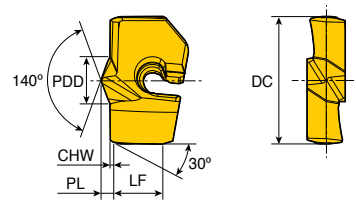
• SSC: Seat size code

●: Standard items

TaeguTec

LCD...-F

Drill heads for flat bottom hole



Designation	Dimension (mm)						Grade
	DC	PL	LF	CHW	SSC	PDD	TT9080
LCD - 200-F	20.0	2.18	7.63	0.7	20	8.3	●
205-F	20.5	2.18	7.63	0.7	20	8.3	●
210-F	21.0	2.18	7.63	0.7	21	8.3	●
215-F	21.5	2.18	7.63	0.7	21	8.3	●
220-F	22.0	2.38	8.17	0.7	22	9.0	●
225-F	22.5	2.38	8.17	0.7	22	9.0	●
230-F	23.0	2.38	8.17	0.7	23	9.0	●
235-F	23.5	2.38	8.17	0.7	23	9.0	●
240-F	24.0	2.52	8.10	0.7	24	10.0	●
245-F	24.5	2.52	8.10	0.7	24	10.0	●
250-F	25.0	2.52	8.10	0.7	25	10.0	●
255-F	25.5	2.52	8.10	0.7	25	10.0	●
260-F	26.0	2.48	9.84	0.7	26	10.5	●
265-F	26.5	2.48	9.84	0.7	26	10.5	●
270-F	27.0	2.48	9.84	0.7	27	10.5	●
275-F	27.5	2.48	9.84	0.7	27	10.5	●
280-F	28.0	2.72	9.50	0.7	28	11.6	●
285-F	28.5	2.72	9.50	0.7	28	11.6	●
290-F	29.0	2.72	9.50	0.7	29	11.6	●
295-F	29.5	2.72	9.50	0.7	29	11.6	●
300-F	30.0	2.80	11.63	0.7	30	12.4	●
305-F	30.5	2.80	11.63	0.7	30	12.4	●
310-F	31.0	2.80	11.63	0.7	31	12.4	●
315-F	31.5	2.80	11.63	0.7	31	12.4	●
320-F	32.0	3.13	11.59	0.7	32	13.6	●
325-F	32.5	3.13	11.59	0.7	32	13.6	●
330-F	33.0	3.13	11.59	0.7	33	13.6	●
335-F	33.5	3.13	11.59	0.7	33	13.6	●
340-F	34.0	3.13	11.59	0.7	34	13.6	●
345-F	34.5	3.13	11.59	0.7	34	13.6	●
350-F	35.0	3.31	13.20	0.7	35	14.6	●
355-F	35.5	3.31	13.20	0.7	35	14.6	●
360-F	36.0	3.31	13.20	0.7	36	14.6	●
365-F	36.5	3.31	13.20	0.7	36	14.6	●
370-F	37.0	3.31	13.20	0.7	37	14.6	●

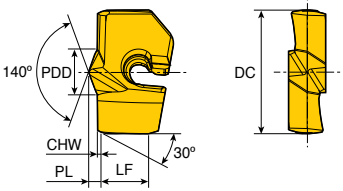
• SSC: Seat size code

●: Standard items

LCD...-F

SPADERUSH

Drill heads for flat bottom hole



Designation	Dimension (mm)						Grade
	DC	PL	LF	CHW	SSC	PDD	TT9080
LCD - 375-F	37.5	3.31	13.20	0.7	37	14.6	●
380-F	38.0	3.49	13.32	0.7	38	15.9	●
385-F	38.5	3.49	13.32	0.7	38	15.9	●
390-F	39.0	3.49	13.32	0.7	39	15.9	●
395-F	39.5	3.49	13.32	0.7	39	15.9	●
400-F	40.0	3.49	13.32	0.7	40	15.9	●
405-F	40.5	3.49	13.32	0.7	40	15.9	●
410-F	41.0	3.49	13.32	0.7	40	15.9	●

• SSC: Seat size code

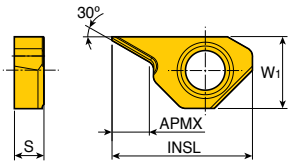
●: Standard items

TaeguTec

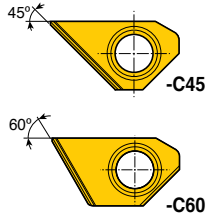
XCGT ...-C

T-CHAMFER

Chamfering inserts for T-CHAMFER holder



-C30



Size	Dimension (mm)			
	W_1	INSL	S	APMX
06-C30	6.18	12.3	2.8	3.49
09-C30	8.50	16.0	3.3	4.43
06-C45	6.18	12.3	2.8	5.89
09-C45	8.50	16.0	3.3	8.07
06-C60	6.18	12.3	2.8	3.43
09-C60	8.50	16.0	3.3	4.78

Insert	Designation	Coated						Uncoated
		TT9080	TT9030	TT8020	TT6030	TT9300	TT7400	K10
	**XCGT 0603-C30**	●						
	0903-C30	●						
	**XCGT 0603-C45**	●						
	0903-C45	●						
	**XCGT 0603-C60**	●						
	0903-C60	●						

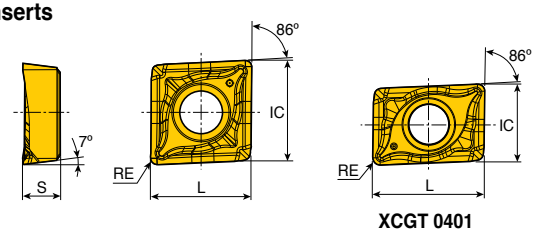
●: Standard items

ADVANCE CUTTING TaeguTec

XCGT...TA

TOPCAP

Inserts



XCGT 0401

Size	Dimension (mm)			
	IC	L	S	RE
04	4.4	6.4	1.70	0.4
05	5.6	5.6	2.10	0.4
06	6.4	6.4	2.38	0.4
07	7.5	7.5	3.18	0.4
08	8.4	8.4	3.18	0.4
10	10.5	10.5	3.97	0.4
13	13.4	13.4	4.76	0.4
17	17.5	17.5	5.56	0.8

• For aluminum alloy

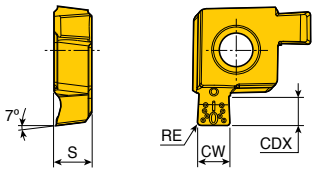
Insert	Designation	Turning		Drilling	Coated						Uncoated			
		ap (mm)	Feed (mm/rev)	Feed (mm/rev)	TT9080	TT8020	TT9300	TT9030	TT6030	TT7400	K10			
 Right hand shown (XCGT 0401) 	**XCGT 040104R TA**	0.2-1.8	0.02-0.15	0.02-0.09							●			
	040104L TA	0.2-1.8	0.02-0.15	0.02-0.09							●			
	050204 TA	0.2-2.2	0.03-0.18	0.02-0.11							●			
	060204 TA	0.3-2.5	0.03-0.20	0.03-0.12							●			
	070304 TA	0.4-2.8	0.05-0.22	0.03-0.13							●			
	080304 TA	0.4-3.2	0.06-0.25	0.03-0.13							●			
	10T304 TA	0.5-3.5	0.06-0.30	0.03-0.13							●			
	130404 TA	0.6-4.3	0.08-0.33	0.03-0.13							●			
	170508 TA	0.7-5.3	0.10-0.38	0.03-0.13							●			

●: Standard items

XCMT..R-GV

TOPCAP

Inserts



Size	Dimension (mm)			
	CW	CDX	S	RE
05	2.0	1.8	2.27	0.2
06	2.0	2.0	2.62	0.2
07	2.5	2.0	3.42	0.2
08	2.5	2.5	3.50	0.2
10	3.0	3.0	4.37	0.3
13	3.5	3.5	5.24	0.3
17	4.0	4.0	6.06	0.4

• For grooving

Insert	Designation	Coated						Uncoated			
		TT9080	TT8020	TT9300	TT9030	TT6030	TT7400	K10			
	**XCMT 05R-200020GV**	●	●								
	06R-200020GV	●	●								
	07R-250020GV	●	●								
	08R-250020GV	●	●								
	10R-300030GV	●	●								
	13R-350030GV	●	●								
	17R-400040GV	●	●								

• Grooving insert is available only for right handed type

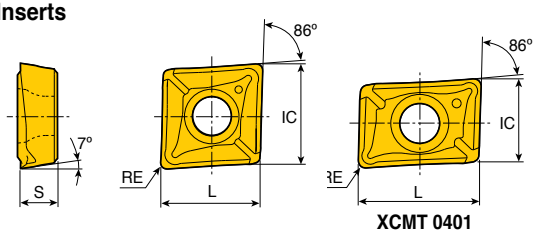
●: Standard items

TaeguTec

XCMT...TC

TOPCAP

Inserts



XCMT 0401

Size	Dimension (mm)			
	IC	L	S	RE
04	4.4	6.4	1.70	0.4
05	5.6	5.6	2.10	0.4
06	6.4	6.4	2.38	0.4
07	7.5	7.5	3.18	0.4
08	8.4	8.4	3.18	0.4
10	10.5	10.5	3.97	0.4/0.8
13	13.4	13.4	4.76	0.4/0.8
17	17.4	17.4	5.56	0.8

• For drilling, boring and turning

Right hand shown
(XCMT 0401)

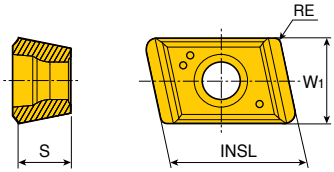
Insert	Designation	Turning		Drilling	Coated						Uncoated
		ap (mm)	Feed (mm/rev)	Feed (mm/rev)	TT9080	TT8020	TT9300	TT9030	TT6030	TT7400	K10
	XCMT 040104R TC	0.2-1.8	0.02-0.15	0.02-0.09	●	●		●			
	040104L TC	0.2-1.8	0.02-0.15	0.02-0.09	●	●		●			
	050204 TC	0.2-2.2	0.03-0.18	0.02-0.11	●	●		●			
	060204 TC	0.3-2.5	0.03-0.20	0.03-0.12	●	●		●			
	070304 TC	0.4-2.8	0.05-0.22	0.03-0.13	●	●		●			
	080304 TC	0.4-3.2	0.06-0.25	0.03-0.13	●	●		●			
	10T304 TC	0.5-3.5	0.06-0.30	0.03-0.13	●	●		●			
	10T308 TC	0.5-3.5	0.06-0.30	0.03-0.13	●	●		●			
	130404 TC	0.6-4.3	0.08-0.33	0.03-0.13	●	●		●			
	130408 TC	0.6-4.3	0.08-0.33	0.03-0.13	●	●		●			
	170508 TC	0.7-5.3	0.10-0.38	0.03-0.13	●	●		●			

●: Standard items

NPHT...R-G-P/R-HF-P

TDEEP

Inserts for TBTA-FB & TRGD



Size	Dimension (mm)			
	W_1	INSL	S	RE
06	6.0	8	3.0	0.4/0.8
08	7.5	10	4.0	0.4/0.8
09	9.0	10	4.0	0.4/0.8
11	11.0	10	4.0	0.4/0.8
13	13.0	10	4.0	0.4/0.8

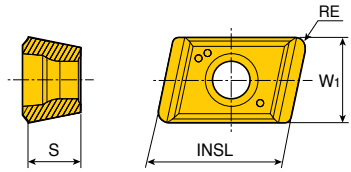
Insert	Designation	Pocket			Coated							Uncoated
		Center	Inner	Outer	TT9030	TT9130	TT8125	TT7200	TT6130	TT6020	TT5100	TT5030	K10
	**NPHT 060304R-G-P**			●	●				●			●	
	060308R-G-P			●	●	●			●			●	
	060308R-HF-P			●	●	●			●			●	
	080404R-G-P			●	●				●			●	
	080408R-G-P			●	●	●			●			●	
	080408R-HF-P			●	●	●			●			●	
	090404R-G-P			●	●				●			●	
	090408R-G-P			●	●	●			●			●	
	090408R-HF-P			●	●	●			●			●	
	110404R-G-P			●	●				●			●	
	110408R-G-P			●	●	●			●			●	
	110408R-HF-P			●	●	●			●			●	
	130404R-G-P			●	●				●			●	
	130408R-G-P			●	●	●			●			●	
	130404R-HF-P			●	●	●			●			●	

●: Standard items

TaeguTec

NPMT...L-G-C/L-HF-C

Inserts for TBTA-FB & TRGD



Size	Dimension (mm)			
	W1	INSL	S	RE
06	5.5	8	3.0	0.8
07	6.5	10	4.0	0.8
08	8.0	10	4.0	0.8
10	10.0	10	4.0	0.8
13	12.5	10	4.0	0.8

Insert	Designation	Pocket			Coated							Uncoated
		Center	Inner	Outer	TT9030	TT9130	TT8125	TT7200	TT6130	TT6020	TT5100	TT5030	K10
	**NPMT 060308L-G-C**	●			●	●	●		●			●	
	060308L-HF-C	●			●	●	●		●			●	
	070408L-G-C	●			●	●	●		●			●	
	070408L-HF-C	●			●	●	●		●			●	
	080408L-G-C	●			●	●	●		●			●	
	080408L-HF-C	●			●	●	●		●			●	
	100408L-G-C	●			●	●	●		●			●	
	100408L-HF-C	●			●	●	●		●			●	
	130408L-G-C	●			●	●	●		●			●	
	130408L-HF-C	●			●	●	●		●			●	

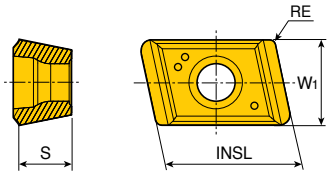
●: Standard items

D115 D147

NPMT...R-G-I/R-HF-I

TDEEP

Inserts for TBTA-FB & TRGD



Size	Dimension (mm)			
	W1	INSL	S	RE
06	5.5	8	3.0	0.4
07	6.5	10	4.0	0.4
08	8.0	10	4.0	0.4
10	10.0	10	4.0	0.4
13	12.5	10	4.0	0.4

Insert	Designation	Pocket			Coated							Uncoated
		Center	Inner	Outer	TT9030	TT9130	TT8125	TT7200	TT6130	TT6020	TT5100	TT5030	K10
	**NPMT 060304R-G-I**		●		●	●	●		●			●	
	060304R-HF-I		●		●	●	●		●			●	
	070404R-G-I		●		●	●	●		●			●	
	070404R-HF-I		●		●	●	●		●			●	
	080404R-G-I		●		●	●	●		●			●	
	080404R-HF-I		●		●	●	●		●			●	
	100404R-G-I		●		●	●	●		●			●	
	100404R-HF-I		●		●	●	●		●			●	
	130404R-G-I		●		●	●	●		●			●	
	130404R-HF-I		●		●	●	●		●			●	

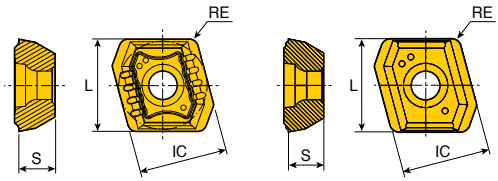
●: Standard items

TaeguTec

NPMX...R-B/R-G

TDEEP

Inserts for TBTA...3/5/7/9



R-B R-G

Size	Dimension (mm)			
	IC	L	S	RE
08	8.0	8.36	3.18	0.8

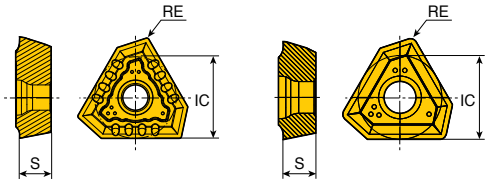
Insert	Designation	Pocket			Coated							Uncoated		
		Center	Inner	Outer	TT9030	TT8125	TT7200	TT6130	TT6020	TT5100	TT5030	K10		
	**NPMX 080308R-B**	●	●	●	●	●		●						
	080308R-G	●	●	●	●	●			●	●				

●: Standard items

TPMX...R-B/R-G

TDEEP

Inserts for TBTA...3/5/7/9 & TBTA-R



R-B R-G

Size	Dimension (mm)			
	IC	S	RE	
140304 R-B	8.45	3.5	0.4	
140308 R-B/R-G	8.45	3.5	0.8	
170404 R-B	10.30	4.0	0.4	
170408 R-B/R-G	10.30	4.0	0.8	
240504 R-B	14.20	5.5	0.4	
240512 R-B/R-G	14.20	5.5	1.2	
280708 R-B	17.00	7.5	0.8	
280716 R-B/R-G	17.00	7.5	1.6	

Insert	Designation	Pocket			Coated								Uncoated		
		Center	Inner	Outer	TT9030	TT9130	TT8125	TT7200	TT6130	TT6020	TT5100	TT5030	K10		
	**TPMX 140304R-B**	●	●	●	●		●		●						
	140308R-B	●	●	●		●						●			
	140308R-G	●	●	●	●	●	●	●		●	●	●			
	170404R-B	●	●	●	●		●		●						
	170408R-B	●	●	●		●						●			
	170408R-G	●	●	●	●	●	●	●		●	●	●			
	240504R-B	●	●	●	●		●		●						
	240512R-B	●	●	●		●						●			
	240512R-G	●	●	●	●	●	●	●		●	●	●			
	280708R-B	●	●	●	●		●		●						
	280716R-B	●	●	●		●						●			
	280716R-G	●	●	●	●	●	●	●		●	●	●			

●: Standard items

TOGT…RS/GF

TDEEP

Inserts for TBTA-TR & TRGD

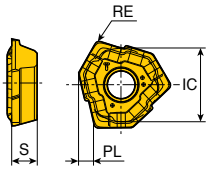


Fig.1

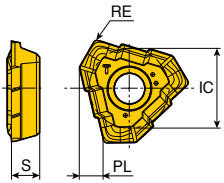


Fig.2

Size	Dimension (mm)			
	IC	PL	S	RE
07	7.69	2.0	2.3	0.4
08	8.32	2.2	2.8	0.5
09	8.55	3.0	3.0	0.5
10	9.23	3.2	3.3	0.5
11	10.40	3.4	3.8	0.5
12	11.59	3.7	4.3	0.5
13	12.85	4.6	4.8	0.8
14	16.85	5.4	5.3	1.0

Insert	Designation	Fig.	Coated						Uncoated
			TT9030	TT8125	TT7200	TT6130	TT6020	TT5100	TT5030	K10
	**TOGT 070304 RS**	1	●							
	070304 GF	1	●							
	080305 RS	1	●							
	080305 GF	1	●							
	090305 RS	2	●							
	090305 GF	2	●							
	100305 RS	2	●							
	100305 GF	2	●							
	110405 RS	2	●							
	110405 GF	2	●							
	120405 RS	2	●							
	120405 GF	2	●							
	130408 RS	2	●							
	130408 GF	2	●							
	140510 RS	2	●							

- RS: First choice for general purpose
- GF: Exotic materials

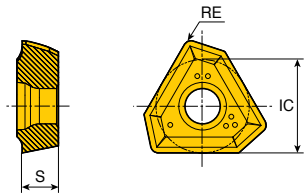
●: Standard items

TaeguTec

TPMX...LG

TDEEP

Inserts for TBTA-R



Size	Dimension (mm)			
	IC	S	RE	
14	8.45	3.5	0.8	
17	10.30	4.0	0.8	
24	14.20	5.5	1.2	

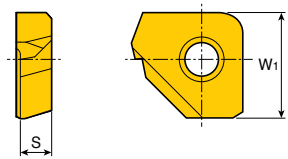
Insert	Designation	Pocket			Coated							Uncoated		
		Center	Inner	Outer	TT9030	TT9130	TT8125	TT7200	TT6130	TT6020	TT5100	TT5030	K10	
	**TPMX 140308 LG**			●	●						●			
	170408 LG			●	●	●				●	●			
	240512 LG			●	●	●				●	●			

●: Standard items

XPMT...-45

TDEEP

Inserts for TBTA-R



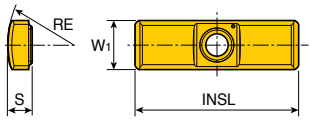
Size	Dimension (mm)			
	W_1	S		
16	9.5	2.70		

Insert	Designation	Pocket			Coated							Uncoated	
		Center	Inner	Outer	TT9030	TT8125	TT7100	TT3500	TT6020	TT9300	TT7400	K10	
	**XPMT 16002-45**			●	●								

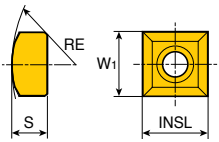
●: Standard items

ADVANCE CUTTING
TaeguTec

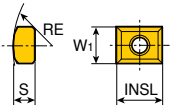
Pad for TBTA 3.../5.../7.../9...



Guide pad



Guide pad protector

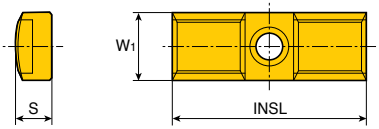


Sub guide pad

Designation		Dimension (mm)				Screw
		W1	S	INSL	RE	
Guide pad	**PAD - GP08-25-155-DC-SB**	8	4.5	25	15.5	CSTB3S
	GP08-25-155-DC-SC	8	4.5	25	15.5	CSTB3S
	GP10-35-200-DC-SB	10	6.0	35	20.0	CSTB4S
	GP10-35-200-DC-SC	10	6.0	35	20.0	CSTB4S
	GP14-40-250-DC-SB/SC	14	7.5	40	25.0	CSTA5S
	GP18-40-300-DC-SB/SC	18	9.0	40	30.0	LS1206S
Guide pad protector	**PAD - P08**	8	4.5	8	17.5	CSTB3S
	P10	10	6.0	10	20.0	CSTB4S
	P14	14	7.5	14	25.0	CSTA5S
	P18	18	9.0	18	30.0	LS1206S
Sub guide pad	**PAD - S08**	8	4.5	10	17.5	CSTB3S
	S10	10	5.0	10	29.0	CSTB3S
	S14	14	7.0	20	45.0	CCSTA5S

D99

Plus Guide Pad for TBTA 3.../5.../7.../9...

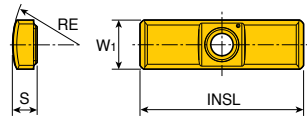


• Plus guide pad for diameter enlargement

Designation										
DC	DC+1mm	S	DC+2mm	S	DC+3mm	S	DC+4mm	S	DC+5mm	S
PAD-GC08	**PAD-GC08+1**	5.0	**PAD-GC08+2**	5.5	**PAD-GC08+3**	6.0	**-**	-	**-**	-
PAD-GC10	**PAD-GC10+1**	6.5	**PAD-GC10+2**	7.0	**PAD-GC10+3**	7.5	**PAD-GC10+4**	8.0	**-**	-
PAD-GC14	**PAD-GC14+1**	8.0	**PAD-GC14+2**	8.5	**PAD-GC14+3**	9.0	**PAD-GC14+4**	9.5	**PAD-GC14+5**	10.0
PAD-GC18	**PAD-GC18+1**	9.5	**PAD-GC18+2**	10	**PAD-GC18+3**	10.5	**PAD-GC18+4**	11.0	**PAD-GC18+5**	11.5

D99

Pad for TBTA-FB

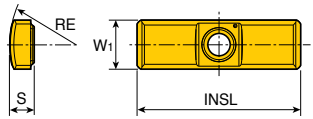


Guide pad

Designation		Dimension (mm)				Screw
		W1	S	INSL	RE	
Guide pad	**PAD - GP06-20-120-DC-SB**	6	3.0	20	12.0	CSTB2.2S
	GP06-20-120-DC-SC	6	3.0	20	12.0	CSTB2.2S
	GP07-20-120-DC-SB	7	3.5	20	12.0	CSTB3S
	GP07-20-120-DC-SC	7	3.5	20	12.0	CSTB3S
	GP08-25-155-DC-SB	8	4.5	25	15.5	CSTB3S
	GP08-25-155-DC-SC	8	4.5	25	15.5	CSTB3S
	GP10-30-200-DC-SB	10	4.5	30	20.0	CSTB3.5
	GP10-30-200-DC-SC	10	4.5	30	20.0	CSTB3.5
	GP12-35-250-DC-SB	12	5.5	35	25.0	CSTB3.5
	GP12-35-250-DC-SC	12	5.5	35	25.0	CSTB3.5

Pad for TBTA-TR & TRGD

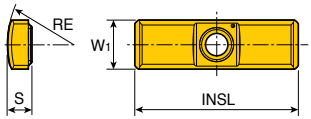
Solid carbide guide pads



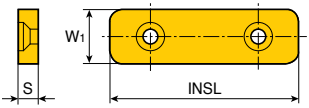
Designation		Dimension (mm)				Screw
		W1	S	INSL	RE	
Guide pad	**PAD - GP05-18-060-DC-SB**	5	2.5	18	6.0	SR34-508
	GP05-18-060-DC-SC	5	2.5	18	6.0	SR34-508
	GP05-18-075-DC-SB	5	2.5	18	7.5	SR34-508
	GP05-18-075-DC-SC	5	2.5	18	7.5	SR34-508
	GP06-20-085-DC-SB	6	3.0	20	8.5	CSTB2.2S* / SR34-508
	GP06-20-085-DC-SC	6	3.0	20	8.5	CSTB2.2S* / SR34-508
	GP06-20-100-DC-SB	6	3.0	20	10.0	CSTB2.2S* / SR34-508
	GP06-20-100-DC-SC	6	3.0	20	10.0	CSTB2.2S* / SR34-508
	GP06-20-120-DC-SB	6	3.0	20	12.0	CSTB2.2S* / SR34-508
	GP06-20-120-DC-SC	6	3.0	20	12.0	CSTB2.2S* / SR34-508

- Guide pad with "SB" is the first choice in general purpose machining. "SC" is a excellent toughness grade used with water-soluble coolant.

Pad for TBTA-R



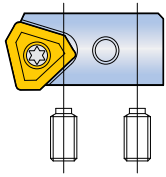
Guide pad



Resin guide pad

Designation		Dimension (mm)				Screw
		W_1	S	INSL	RE	
Guide pad	**PAD - GC08-120**	8	4.4	25	17.5	CSTB3S
	GC08-140	8	3.5	25	17.5	CSTB3S
	GP08-25-155-DC-SB	8	4.5	25	15.5	CSTB3S
	GP08-25-155-DC-SC	8	4.5	25	15.5	CSTB3S
	GP10-35-200-DC-SB	10	6.0	35	20.0	CSTB4S
	GP10-35-200-DC-SC	10	6.0	35	20.0	CSTB4S
	GP14-40-250-DC-SB	14	7.5	40	25.0	CSTA5S
	GP14-40-250-DC-SC	14	7.5	40	25.0	CSTA5S
	GP18-40-300-DC-SB	18	9.0	40	30.0	LS1206S
	GP18-40-300-DC-SC	18	9.0	40	30.0	LS1206S
Resin guide pad	**PAD - R10**	10	4.0	40	-	LS0902.5-6
	R12	12	5.0	45	-	LS0903-8
	R15	15	5.8	50	-	LS0904-10
	R20	20	7.5	70	-	LS0905-12
	R30	30	12.5	80	-	LS0906-15
	R35	35	15.5	100	-	LS0906-15

Cartridge for TBTA 3.../5.../7.../9

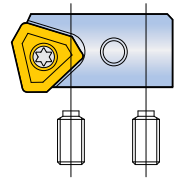


Outer

Inner & center

Designation			Adjust screw	Wrench	Lock screw	Wrench	Insert
Outer	**PERC**	**05R**	AS0003-5	H1.5	LS1803RH	H2	NPMX0803..
		402-04	AS0004-8	H2	LS1803.5RH	H2.5	TPMX1403..
		402-32	AS0005-10	H2.5	LS1805RH	H3	TPMX1704..
		402-43	AS0005-15	H2.5	L1806RH	H4	TPMX2405..
		402-63	AS0006-15	H3	L1806RH	H4	TPMX2807..
Inner & center	**CENC**	**05R**	-	-	CSTB3	T9	NPMX0803..
		402-04	-	-	CSTB3.5	T15	TPMX1403..
		402-32	-	-	CSTA5	T15	TPMX1704..
		402-43	-	-	LS1206	H3	TPMX2405..
		402-63	-	-	LS1206	H3	TPMX2807..

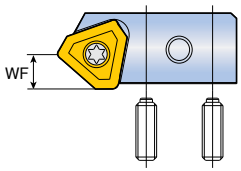
Plus Cartridge for TBTA 3.../5.../7.../9



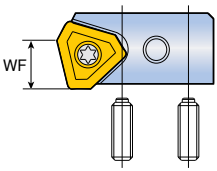
• Plus cartridge for diameter enlargement

Designation					
DC	DC+1mm	DC+2mm	DC+3mm	DC+4mm	DC+5mm
PERC 05R	**PERC 05R+1**	**PERC 05R+2**	**-**	**-**	**-**
PERC 402-04	**PERC 402-04+1**	**PERC 402-04+2**	**PERC 402-04+3**	**-**	**-**
PERC 402-32	**PERC 402-32+1**	**PERC 402-32+2**	**PERC 402-32+3**	**PERC 402-32+4**	**-**
PERC 402-43	**PERC 402-43+1**	**PERC 402-43+2**	**PERC 402-43+3**	**PERC 402-43+4**	**PERC 402-43+5**
PERC 402-63	**PERC 402-63+1**	**PERC 402-63+2**	**PERC 402-63+3**	**PERC 402-63+4**	**PERC 402-63+5**

Cartridge for TBTA-R



Accurate tolerance applications



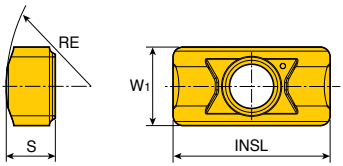
Open tolerance applications

Designation		WF (mm)	Adjust screw	Wrench	Lock screw	Wrench	Insert
Accurate tolerance applications	**PERC P04R**	5	AS0004-8	H2	LS1803.5RH	H2.5	TPMX1403..LG
	P32R	6	AS0005-10	H2.5	LS1805RH	H3	TPMX1704..LG
	P43R	8	AS0005-15	H2.5	LS1806RH	H4	TPMX2405..LG
Open tolerance applications	**PERC 402-04**	8	AS0004-8	H2	LS1803.5RH	H2.5	TPMX1403..RG
	402-32	9	AS0005-10	H2.5	LS1805RH	H3	TPMX1704..RG
	402-43	13	AS0005-15	H2.5	LS1806RH	H4	TPMX2405..RG


D121

• PERC-P and PERC 402-□□ cartridges are interchangable in the same pocket

Guide pad for TNDH-TP



Designation	Dimension (mm)				Screw	Grade
	W_1	S	INSL	RE		TT9030
PAD-G04-08	4	2.5	8	9	TS 20043I/HG-P	●


D62

• Guide pad is sold separately from drill body.

●: Standard items

Recommended Cutting Conditions

TOP DRILL

Machining data for TOP-DRILL 2,3,4xD

ISO	Material		Condition	Tensile strength (N/mm^2)	Hardness HB	Material No.	Cutting speed Vc (m/min)
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1	220-350
		>=0.25%C	Annealed	650	190	2	180-280
		<0.55%C	Quenched and tempered	850	250	3	140-240
		>=0.55%C	Annealed	750	220	4	140-240
			Quenched and tempered	1000	300	5	140-240
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	600	200	6	140-240
			Quenched and tempered	930	275	7	100-180
				1000	300	8	100-180
				1200	350	9	100-180
	High alloy steel, cast steel and tool steel		Annealed	680	200	10	140-200
			Quenched and tempered	1100	325	11	100-160
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12	150-250
			Martensitic	820	240	13	150-250
			Austenitic	600	180	14	150-250
K	Gray cast iron (GG)		Ferritic		160	15	160-260
			Pearlitic		250	16	160-260
	Cast iron nodular (GGG)		Ferritic		180	17	160-260
			Pearlitic		260	18	160-260
	Malleable cast iron		Ferritic		130	19	120-220
			Pearlitic		230	20	120-220
N	Aluminum - Wrought alloy		Not cureable		60	21	200-350
			Cured		100	22	200-350
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23	200-350
			Cured		90	24	200-350
		>12% Si	High temp.		130	25	200-350
	Copper alloys	>1% Pb	Free cutting		110	26	150-250
			Brass		90	27	150-250
			Electrolitic copper		100	28	150-250
	Non-metallic		Duroplastics, fiber plastics			29	150-250
			Hard rubber			30	150-250
S	High temp. alloys	Fe based	Annealed		200	31	30-60
			Cured		280	32	30-60
		Ni or Co based	Annealed		250	33	30-60
			Cured		350	34	30-60
			Cast		320	35	30-60
	Titanium,Ti alloys			Rm 400		36	50-80
			Alpha+beta alloys cured	Rm 1050		37	50-80
H	Hardened steel		Hardened		55HRC	38	30-60
			Hardened		60HRC	39	30-60
	Chilled cast iron		Cast		400	40	30-60
	Cast iron nodular		Hardened		55HRC	41	30-60

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

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

TOP DRILL

Machining data for TOP-DRILL 2,3,4xD

Feed (mm/rev) vs. drill diameter Drill length 2,3,4xD								
SOMT 04 Ø12 - Ø13.5	SOMT 05 Ø14 - Ø16	SOMT 06 Ø17 - Ø19	SOMT 07 Ø20 - Ø22	SOMT 08 Ø23 - Ø26	SOMT 09 Ø27 - Ø31	SOMT 11 Ø32 - Ø36	SOMT 13 Ø37 - Ø43	SOMT 15 Ø44 - Ø50
0.04-0.06	0.04-0.06	0.04-0.06	0.04-0.08	0.04-0.08	0.06-0.10	0.06-0.10	0.08-0.12	0.08-0.12
0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.12	0.06-0.12	0.08-0.14	0.08-0.14	0.08-0.16	0.10-0.16
0.08-0.12	0.08-0.12	0.08-0.12	0.08-0.16	0.08-0.16	0.10-0.16	0.10-0.16	0.10-0.18	0.10-0.18
0.08-0.12	0.08-0.12	0.08-0.12	0.08-0.16	0.08-0.16	0.10-0.16	0.10-0.16	0.10-0.18	0.10-0.18
0.08-0.12	0.08-0.12	0.08-0.12	0.08-0.16	0.08-0.16	0.10-0.16	0.10-0.16	0.10-0.18	0.10-0.18
0.06-0.16	0.06-0.16	0.06-0.16	0.08-0.20	0.08-0.20	0.08-0.20	0.10-0.22	0.10-0.22	0.10-0.24
0.06-0.16	0.06-0.16	0.06-0.16	0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.22	0.10-0.22	0.10-0.22
0.06-0.16	0.06-0.16	0.06-0.16	0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.22	0.10-0.22	0.10-0.22
0.06-0.16	0.06-0.16	0.06-0.16	0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.22	0.10-0.22	0.10-0.22
0.06-0.12	0.06-0.12	0.06-0.12	0.08-0.16	0.08-0.16	0.08-0.18	0.08-0.20	0.10-0.20	0.10-0.20
0.06-0.12	0.06-0.12	0.06-0.12	0.08-0.16	0.08-0.16	0.08-0.18	0.08-0.20	0.10-0.20	0.10-0.20
0.06-0.12	0.06-0.12	0.06-0.12	0.06-0.16	0.06-0.16	0.08-0.18	0.08-0.20	0.10-0.20	0.10-0.20
0.06-0.12	0.06-0.12	0.06-0.12	0.06-0.16	0.06-0.16	0.08-0.18	0.08-0.20	0.10-0.20	0.10-0.20
0.06-0.12	0.06-0.12	0.06-0.12	0.06-0.16	0.06-0.16	0.08-0.18	0.08-0.20	0.10-0.20	0.10-0.20
0.08-0.18	0.08-0.18	0.08-0.18	0.10-0.20	0.10-0.20	0.10-0.20	0.10-0.20	0.10-0.22	0.10-0.22
0.08-0.18	0.08-0.18	0.08-0.18	0.10-0.20	0.10-0.20	0.10-0.20	0.10-0.20	0.10-0.22	0.10-0.22
0.08-0.18	0.08-0.18	0.08-0.18	0.10-0.20	0.10-0.20	0.10-0.20	0.10-0.20	0.10-0.22	0.10-0.22
0.08-0.18	0.08-0.18	0.08-0.18	0.10-0.20	0.10-0.20	0.10-0.20	0.10-0.20	0.10-0.22	0.10-0.22
0.08-0.14	0.08-0.14	0.08-0.14	0.10-0.16	0.10-0.16	0.10-0.16	0.10-0.18	0.10-0.18	0.10-0.18
0.08-0.14	0.08-0.14	0.08-0.14	0.10-0.16	0.10-0.16	0.10-0.16	0.10-0.18	0.10-0.18	0.10-0.18
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.08-0.18	0.08-0.18	0.10-0.18	0.10-0.18
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.08-0.18	0.08-0.18	0.10-0.18	0.10-0.18
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.08-0.18	0.08-0.18	0.10-0.18	0.10-0.18
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.08-0.18	0.08-0.18	0.10-0.18	0.10-0.18
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.08-0.18	0.08-0.18	0.10-0.18	0.10-0.18
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.08-0.16	0.08-0.17	0.10-0.18	0.10-0.18
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.08-0.16	0.08-0.17	0.10-0.18	0.10-0.18
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.08-0.16	0.08-0.17	0.10-0.18	0.10-0.18
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.10-0.17	0.10-0.17	0.10-0.18	0.10-0.18
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.10-0.17	0.10-0.17	0.10-0.18	0.10-0.18
0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.06-0.10	0.06-0.10	0.06-0.12	0.06-0.12
0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.06-0.10	0.06-0.10	0.06-0.12	0.06-0.12
0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.06-0.10	0.06-0.10	0.06-0.12	0.06-0.12
0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.06-0.10	0.06-0.10	0.06-0.12	0.06-0.12
0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.06-0.10	0.06-0.10	0.06-0.12	0.06-0.12
0.06-0.09	0.06-0.09	0.06-0.09	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10
0.06-0.09	0.06-0.09	0.06-0.09	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10
0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10
0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10
0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10
0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10

Recommended Cutting Conditions

TOP DRILL

Machining data for TOP-DRILL 5xD

ISO	Material		Condition	Tensile strength (N/mm^2)	Hardness HB	Material No.	Cutting speed Vc (m/min)
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1	220-350
		>=0.25%C	Annealed	650	190	2	180-280
		<0.55%C	Quenched and tempered	850	250	3	140-240
		>=0.55%C	Annealed	750	220	4	140-240
			Quenched and tempered	1000	300	5	140-240
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	600	200	6	140-240
			Quenched and tempered	930	275	7	100-180
				1000	300	8	100-180
				1200	350	9	100-180
	High alloy steel, cast steel and tool steel		Annealed	680	200	10	140-200
			Quenched and tempered	1100	325	11	100-160
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12	150-250
			Martensitic	820	240	13	150-250
			Austenitic	600	180	14	150-250
K	Gray cast iron (GG)		Ferritic		160	15	160-260
			Pearlitic		250	16	160-260
	Cast iron nodular (GGG)		Ferritic		180	17	160-260
			Pearlitic		260	18	160-260
	Malleable cast iron		Ferritic		130	19	120-220
			Pearlitic		230	20	120-220
N	Aluminum - Wrought alloy		Not cureable		60	21	200-350
			Cured		100	22	200-350
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23	200-350
			Cured		90	24	200-350
		>12% Si	High temp.		130	25	200-350
	Copper alloys	>1% Pb	Free cutting		110	26	150-250
			Brass		90	27	150-250
			Electrolitic copper		100	28	150-250
	Non-metallic		Duroplastics, fiber plastics			29	150-250
			Hard rubber			30	150-250
S	High temp. alloys	Fe based	Annealed		200	31	30-60
			Cured		280	32	30-60
		Ni or Co based	Annealed		250	33	30-60
			Cured		350	34	30-60
			Cast		320	35	30-60
	Titanium, Ti alloys			Rm 400		36	50-80
			Alpha+beta alloys cured	Rm 1050		37	50-80
H	Hardened steel		Hardened		55HRC	38	30-60
			Hardened		60HRC	39	30-60
	Chilled cast iron		Cast		400	40	30-60
	Cast iron nodular		Hardened		55HRC	41	30-60

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

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

ADVANCE CUTTING
TaeguTec

Recommended Cutting Conditions

Machining data for TOP-DRILL 5xD

Feed (mm/rev) vs. drill diameter Drill length 5xD								
SOMT 04 Ø12 - Ø13.5	SOMT 05 Ø14 - Ø16	SOMT 06 Ø17 - Ø19	SOMT 07 Ø20 - Ø22	SOMT 08 Ø23 - Ø26	SOMT 09 Ø27 - Ø31	SOMT 11 Ø32 - Ø36	SOMT 13 Ø37 - Ø43	SOMT 15 Ø44 - Ø50
0.04-0.05	0.04-0.05	0.04-0.05	0.04-0.05	0.04-0.06	0.06-0.08	0.06-0.08	0.08-0.10	0.08-0.10
0.06-0.08	0.06-0.08	0.06-0.08	0.06-0.10	0.06-0.10	0.08-0.12	0.08-0.12	0.08-0.14	0.10-0.14
0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.12	0.06-0.12	0.10-0.15	0.10-0.15	0.10-0.17	0.10-0.17
0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.12	0.06-0.12	0.10-0.15	0.10-0.15	0.10-0.17	0.10-0.17
0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.12	0.06-0.12	0.10-0.15	0.10-0.15	0.10-0.17	0.10-0.17
0.06-0.12	0.06-0.12	0.06-0.12	0.08-0.16	0.08-0.16	0.08-0.18	0.10-0.20	0.10-0.20	0.10-0.22
0.06-0.12	0.06-0.12	0.06-0.12	0.08-0.16	0.08-0.16	0.08-0.18	0.10-0.20	0.10-0.20	0.10-0.22
0.06-0.12	0.06-0.12	0.06-0.12	0.08-0.16	0.08-0.16	0.08-0.18	0.10-0.20	0.10-0.20	0.10-0.22
0.06-0.12	0.06-0.12	0.06-0.12	0.08-0.16	0.08-0.16	0.08-0.18	0.10-0.20	0.10-0.20	0.10-0.22
0.06-0.10	0.06-0.10	0.06-0.10	0.08-0.12	0.08-0.12	0.08-0.16	0.08-0.18	0.10-0.18	0.10-0.20
0.06-0.10	0.06-0.10	0.06-0.10	0.08-0.12	0.08-0.12	0.08-0.16	0.08-0.18	0.10-0.18	0.10-0.20
0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.12	0.06-0.12	0.08-0.16	0.08-0.18	0.10-0.18	0.10-0.20
0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.12	0.06-0.12	0.08-0.16	0.08-0.18	0.10-0.18	0.10-0.20
0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.12	0.06-0.12	0.08-0.16	0.08-0.18	0.10-0.18	0.10-0.20
0.08-0.14	0.08-0.14	0.08-0.14	0.08-0.16	0.08-0.16	0.10-0.18	0.10-0.18	0.10-0.20	0.10-0.20
0.08-0.14	0.08-0.14	0.08-0.14	0.08-0.16	0.08-0.16	0.10-0.18	0.10-0.18	0.10-0.20	0.10-0.20
0.08-0.14	0.08-0.14	0.08-0.14	0.08-0.16	0.08-0.16	0.10-0.18	0.10-0.18	0.10-0.20	0.10-0.20
0.08-0.14	0.08-0.14	0.08-0.14	0.08-0.16	0.08-0.16	0.10-0.18	0.10-0.18	0.10-0.20	0.10-0.20
0.08-0.12	0.08-0.12	0.08-0.14	0.08-0.16	0.08-0.16	0.10-0.16	0.10-0.16	0.10-0.16	0.10-0.16
0.08-0.12	0.08-0.12	0.08-0.14	0.08-0.16	0.08-0.16	0.10-0.16	0.10-0.16	0.10-0.16	0.10-0.16
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.08-0.16	0.08-0.16	0.10-0.17	0.10-0.17
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.08-0.16	0.08-0.16	0.10-0.17	0.10-0.17
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.08-0.16	0.08-0.16	0.10-0.17	0.10-0.17
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.08-0.16	0.08-0.16	0.10-0.17	0.10-0.17
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.08-0.16	0.08-0.16	0.10-0.17	0.10-0.17
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.08-0.15	0.08-0.16	0.10-0.17	0.10-0.17
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.08-0.15	0.08-0.16	0.10-0.17	0.10-0.17
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.08-0.15	0.08-0.16	0.10-0.17	0.10-0.17
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.10-0.16	0.10-0.16	0.10-0.17	0.10-0.17
0.06-0.15	0.06-0.15	0.06-0.15	0.08-0.16	0.08-0.16	0.10-0.16	0.10-0.16	0.10-0.17	0.10-0.17
0.05-0.07	0.05-0.07	0.05-0.08	0.05-0.08	0.05-0.08	0.06-0.09	0.06-0.09	0.06-0.10	0.06-0.10
0.05-0.07	0.05-0.07	0.05-0.08	0.05-0.08	0.05-0.08	0.06-0.09	0.06-0.09	0.06-0.10	0.06-0.10
0.05-0.07	0.05-0.07	0.05-0.08	0.05-0.08	0.05-0.08	0.06-0.09	0.06-0.09	0.06-0.10	0.06-0.10
0.05-0.07	0.05-0.07	0.05-0.08	0.05-0.08	0.05-0.08	0.06-0.09	0.06-0.09	0.06-0.10	0.06-0.10
0.05-0.07	0.05-0.07	0.05-0.08	0.05-0.08	0.05-0.08	0.06-0.09	0.06-0.09	0.06-0.10	0.06-0.10
0.05-0.08	0.05-0.08	0.05-0.08	0.06-0.09	0.06-0.09	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10
0.05-0.08	0.05-0.08	0.05-0.08	0.06-0.09	0.06-0.09	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10
0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10
0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10
0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10
0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10

Recommended Cutting Conditions

TOP DRILL

Machining data for TOP-DRILL cartridge

ISO	Material		Condition	Tensile strength (N/mm^2)	Hardness HB	Material No.	Cutting speed Vc (m/min)
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1	250-350
		>=0.25%C	Annealed	650	190	2	160-250
		<0.55%C	Quenched and tempered	850	250	3	140-240
		>=0.55%C	Annealed	750	220	4	140-240
			Quenched and tempered	1000	300	5	140-240
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	600	200	6	140-240
			Quenched and tempered	930	275	7	100-180
				1000	300	8	100-180
				1200	350	9	100-180
	High alloy steel, cast steel and tool steel		Annealed	680	200	10	140-200
			Quenched and tempered	1100	325	11	100-160
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12	150-250
			Martensitic	820	240	13	150-250
			Austenitic	600	180	14	150-250
K	Gray cast iron (GG)		Ferritic		160	15	160-260
			Pearlitic		250	16	160-260
	Cast iron nodular (GGG)		Ferritic		180	17	160-260
			Pearlitic		260	18	160-260
	Malleable cast iron		Ferritic		130	19	120-220
			Pearlitic		230	20	120-220
N	Aluminum - Wrought alloy		Not cureable		60	21	200-350
			Cured		100	22	200-350
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23	200-350
			Cured		90	24	200-350
		>12% Si	High temp.		130	25	200-350
	Copper alloys	>1% Pb	Free cutting		110	26	150-250
			Brass		90	27	150-250
			Electrolitic copper		100	28	150-250
	Non-metallic		Duroplastics, fiber plastics			29	150-250
			Hard rubber			30	150-250
S	High temp. alloys	Fe based	Annealed		200	31	30-60
			Cured		280	32	30-60
		Ni or Co based	Annealed		250	33	30-60
			Cured		350	34	30-60
			Cast		320	35	30-60
	Titanium, Ti alloys			Rm 400		36	50-80
			Alpha+beta alloys cured	Rm 1050		37	50-80
H	Hardened steel		Hardened		55HRC	38	30-60
			Hardened		60HRC	39	30-60
	Chilled cast iron		Cast		400	40	30-60
	Cast iron nodular		Hardened		55HRC	41	30-60

• 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 for TOP-DRILL cartridge

Feed (mm/rev) vs. drill diameter Drill length 2,3,4xD					
SOMT 09 Ø51 - Ø55	SOMT 11 Ø56 - Ø60	SOMT 11 Ø61 - Ø65	SOMT 11 Ø66 - Ø70	SOMT 13 Ø71 - Ø75	SOMT 13 Ø76 - Ø80
0.06-0.12	0.06-0.12	0.06-0.12	0.06-0.12	0.06-0.12	0.06-0.12
0.06-0.16	0.06-0.16	0.06-0.16	0.06-0.16	0.06-0.16	0.06-0.16
0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18
0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18
0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18
0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.20
0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.20
0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.20
0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.20
0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.20	0.08-0.20
0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18
0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18
0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18
0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18
0.10-0.22	0.10-0.22	0.10-0.22	0.10-0.22	0.10-0.22	0.10-0.22
0.10-0.22	0.10-0.22	0.10-0.22	0.10-0.22	0.10-0.22	0.10-0.22
0.10-0.22	0.10-0.22	0.10-0.22	0.10-0.22	0.10-0.22	0.10-0.22
0.10-0.22	0.10-0.22	0.10-0.22	0.10-0.22	0.10-0.22	0.10-0.22
0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18
0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18
0.06-0.18	0.06-0.18	0.06-0.18	0.06-0.18	0.06-0.18	0.06-0.18
0.06-0.18	0.06-0.18	0.06-0.18	0.06-0.18	0.06-0.18	0.06-0.18
0.06-0.18	0.06-0.18	0.06-0.18	0.06-0.18	0.06-0.18	0.06-0.18
0.06-0.18	0.06-0.18	0.06-0.18	0.06-0.18	0.06-0.18	0.06-0.18
0.06-0.18	0.06-0.18	0.06-0.18	0.06-0.18	0.06-0.18	0.06-0.18
0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18
0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18
0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18
0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18
0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18	0.10-0.18
0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10
0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10
0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10
0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10
0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10
0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10
0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10	0.06-0.10
0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10
0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10
0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10
0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10

Recommended Cutting Conditions

TDRILL

Machining data for T-DRILL 2,3,4xD

ISO	Material		Condition	Tensile strength (N/mm^2)	Hardness HB	Material No.	Cutting speed Vc (m/min)
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1	250-350
		>=0.25%C	Annealed	650	190	2	180-250
		<0.55%C	Quenched and tempered	850	250	3	160-220
		>=0.55%C	Annealed	750	220	4	160-220
			Quenched and tempered	1000	300	5	160-220
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	600	200	6	150-220
			Quenched and tempered	930	275	7	120-160
				1000	300	8	120-160
				1200	350	9	120-160
	High alloy steel, cast steel and tool steel		Annealed	680	200	10	140-180
			Quenched and tempered	1100	325	11	130-180
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12	170-240
			Martensitic	820	240	13	170-240
			Austenitic	600	180	14	170-240
K	Gray cast iron (GG)		Ferritic		160	15	180-250
			Pearlitic		250	16	180-250
	Cast iron nodular (GGG)		Ferritic		180	17	180-250
			Pearlitic		260	18	180-250
	Malleable cast iron		Ferritic		130	19	130-200
			Pearlitic		230	20	130-200
N	Aluminum - Wrought alloy		Not cureable		60	21	330-380
			Cured		100	22	330-380
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23	330-380
			Cured		90	24	330-380
		>12% Si	High temp.		130	25	330-380
	Copper alloys	>1% Pb	Free cutting		110	26	150-230
			Brass		90	27	150-230
			Electrolitic copper		100	28	150-230
	Non-metallic		Duroplastics, fiber plastics			29	150-230
			Hard rubber			30	150-230
S	High temp. alloys	Fe based	Annealed		200	31	30-60
			Cured		280	32	30-60
		Ni or Co based	Annealed		250	33	30-60
			Cured		350	34	30-60
			Cast		320	35	30-60
	Titanium, Ti alloys			Rm 400		36	30-60
			Alpha+beta alloys cured	Rm 1050		37	30-60
H	Hardened steel		Hardened		55HRC	38	30-60
			Hardened		60HRC	39	30-60
	Chilled cast iron		Cast		400	40	30-60
	Cast iron nodular		Hardened		55HRC	41	30-60

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

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

Machining data for T-DRILL 2,3,4xD

Feed (mm/rev) vs. drill diameter Drill length 2,3,4xD					
SPMG 05 Ø12.5 - Ø15	SPMG 06 Ø16 - Ø21	SPMG 07 Ø22 - Ø27	SPMG 09 Ø28 - Ø33	SPMG 11 Ø34 - Ø41	SPMG 14 Ø42 - Ø50
0.04-0.06	0.04-0.06	0.04-0.08	0.04-0.08	0.06-0.10	0.06-0.12
0.05-0.08	0.06-0.10	0.06-0.12	0.07-0.13	0.08-0.15	0.08-0.16
0.06-0.12	0.08-0.15	0.10-0.18	0.12-0.22	0.12-0.24	0.13-0.25
0.06-0.12	0.08-0.15	0.10-0.18	0.12-0.22	0.12-0.24	0.13-0.25
0.06-0.12	0.08-0.15	0.10-0.18	0.12-0.22	0.12-0.24	0.13-0.25
0.06-0.12	0.08-0.14	0.10-0.18	0.12-0.20	0.12-0.20	0.13-0.20
0.06-0.15	0.06-0.15	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18
0.06-0.15	0.06-0.15	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18
0.06-0.15	0.06-0.15	0.08-0.18	0.08-0.18	0.08-0.18	0.08-0.18
0.06-0.10	0.06-0.10	0.08-0.12	0.08-0.14	0.08-0.14	0.08-0.14
0.06-0.10	0.08-0.12	0.10-0.15	0.12-0.15	0.12-0.18	0.13-0.18
0.05-0.10	0.06-0.12	0.08-0.15	0.09-0.16	0.10-0.17	0.11-0.18
0.05-0.10	0.06-0.12	0.08-0.15	0.09-0.16	0.10-0.17	0.11-0.18
0.05-0.10	0.06-0.12	0.08-0.15	0.09-0.16	0.10-0.17	0.11-0.18
0.06-0.12	0.08-0.16	0.12-0.20	0.15-0.25	0.16-0.28	0.18-0.30
0.06-0.12	0.08-0.16	0.12-0.20	0.15-0.25	0.16-0.28	0.18-0.30
0.06-0.12	0.08-0.16	0.12-0.20	0.15-0.25	0.16-0.28	0.18-0.30
0.06-0.12	0.08-0.16	0.12-0.20	0.15-0.25	0.16-0.28	0.18-0.30
0.06-0.10	0.08-0.15	0.10-0.18	0.12-0.20	0.15-0.23	0.16-0.25
0.06-0.10	0.08-0.15	0.10-0.18	0.12-0.20	0.15-0.23	0.16-0.25
0.06-0.14	0.08-0.15	0.10-0.20	0.12-0.22	0.14-0.23	0.15-0.26
0.06-0.14	0.08-0.15	0.10-0.20	0.12-0.22	0.14-0.23	0.15-0.26
0.06-0.14	0.08-0.15	0.10-0.20	0.12-0.22	0.14-0.23	0.15-0.26
0.06-0.14	0.08-0.15	0.10-0.20	0.12-0.22	0.14-0.23	0.15-0.26
0.06-0.14	0.08-0.15	0.10-0.20	0.12-0.22	0.14-0.23	0.15-0.26
0.06-0.13	0.06-0.13	0.08-0.15	0.08-0.15	0.08-0.15	0.08-0.15
0.06-0.13	0.06-0.13	0.08-0.15	0.08-0.15	0.08-0.15	0.08-0.15
0.06-0.13	0.06-0.13	0.08-0.15	0.08-0.15	0.08-0.15	0.08-0.15
0.06-0.13	0.06-0.13	0.08-0.15	0.08-0.15	0.08-0.15	0.08-0.15
0.06-0.13	0.06-0.13	0.08-0.15	0.08-0.15	0.08-0.15	0.08-0.15
0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.09
0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.09
0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.09
0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.09
0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.09
0.05-0.10	0.06-0.14	0.08-0.18	0.10-0.22	0.14-0.23	0.15-0.24
0.05-0.10	0.06-0.14	0.08-0.18	0.10-0.22	0.14-0.23	0.15-0.24
0.05-0.09	0.05-0.09	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10
0.05-0.09	0.05-0.09	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10
0.05-0.09	0.05-0.09	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10
0.05-0.09	0.05-0.09	0.05-0.10	0.05-0.10	0.05-0.10	0.05-0.10

Recommended Cutting Conditions

TDRILL

Machining data for T-DRILL 5xD

ISO	Material		Condition	Tensile strength (N/mm^2)	Hardness HB	Material No.	Cutting speed Vc (m/min)
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1	250-350
		>=0.25%C	Annealed	650	190	2	180-250
		<0.55%C	Quenched and tempered	850	250	3	160-220
		>=0.55%C	Annealed	750	220	4	160-220
			Quenched and tempered	1000	300	5	160-220
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	600	200	6	150-220
			Quenched and tempered	930	275	7	120-160
				1000	300	8	120-160
				1200	350	9	120-160
	High alloy steel, cast steel and tool steel		Annealed	680	200	10	140-180
			Quenched and tempered	1100	325	11	130-180
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12	170-240
			Martensitic	820	240	13	170-240
			Austenitic	600	180	14	170-240
K	Gray cast iron (GG)		Ferritic		160	15	180-250
			Pearlitic		250	16	180-250
	Cast iron nodular (GGG)		Ferritic		180	17	180-250
			Pearlitic		260	18	180-250
	Malleable cast iron		Ferritic		130	19	130-200
			Pearlitic		230	20	130-200
N	Aluminum - Wrought alloy		Not cureable		60	21	330-380
			Cured		100	22	330-380
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23	330-380
			Cured		90	24	330-380
		>12% Si	High temp.		130	25	330-380
	Copper alloys	>1% Pb	Free cutting		110	26	150-230
			Brass		90	27	150-230
			Electrolitic copper		100	28	150-230
	Non-metallic		Duroplastics, fiber plastics			29	150-230
			Hard rubber			30	150-230
S	High temp. alloys	Fe based	Annealed		200	31	30-60
			Cured		280	32	30-60
		Ni or Co based	Annealed		250	33	30-60
			Cured		350	34	30-60
			Cast		320	35	30-60
	Titanium, Ti alloys			Rm 400		36	30-60
			Alpha+beta alloys cured	Rm 1050		37	30-60
H	Hardened steel		Hardened		55HRC	38	30-60
			Hardened		60HRC	39	30-60
	Chilled cast iron		Cast		400	40	30-60
	Cast iron nodular		Hardened		55HRC	41	30-60

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

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

ADVANCE CUTTING
TaeguTec

Machining data for T-DRILL 5xD

Feed (mm/rev) vs. drill diameter Drill length 5xD					
SPMG 05 Ø12.5 - Ø15	SPMG 06 Ø16 - Ø21	SPMG 07 Ø22 - Ø27	SPMG 09 Ø28 - Ø33	SPMG 11 Ø34 - Ø41	SPMG 14 Ø42 - Ø50
0.04-0.05	0.04-0.05	0.04-0.06	0.04-0.07	0.06-0.08	0.06-0.10
0.06-0.08	0.06-0.08	0.06-0.10	0.07-0.12	0.08-0.13	0.08-0.14
0.06-0.10	0.08-0.13	0.10-0.16	0.12-0.20	0.12-0.22	0.13-0.23
0.06-0.10	0.08-0.13	0.10-0.16	0.12-0.20	0.12-0.22	0.13-0.23
0.06-0.10	0.08-0.13	0.10-0.16	0.12-0.20	0.12-0.22	0.13-0.23
0.06-0.10	0.08-0.12	0.10-0.16	0.12-0.18	0.12-0.18	0.13-0.18
0.06-0.12	0.06-0.13	0.08-0.16	0.08-0.16	0.08-0.17	0.08-0.17
0.06-0.12	0.06-0.13	0.08-0.16	0.08-0.16	0.08-0.17	0.08-0.17
0.06-0.12	0.06-0.13	0.08-0.16	0.08-0.16	0.08-0.17	0.08-0.17
0.06-0.08	0.06-0.08	0.08-0.10	0.08-0.12	0.08-0.12	0.08-0.12
0.06-0.09	0.08-0.10	0.10-0.13	0.12-0.13	0.12-0.15	0.12-0.16
0.05-0.09	0.06-0.10	0.08-0.13	0.09-0.15	0.10-0.15	0.10-0.17
0.05-0.09	0.06-0.10	0.08-0.13	0.09-0.15	0.10-0.15	0.10-0.17
0.05-0.09	0.06-0.10	0.08-0.13	0.09-0.15	0.10-0.15	0.10-0.17
0.06-0.10	0.08-0.15	0.12-0.18	0.15-0.22	0.16-0.25	0.18-0.28
0.06-0.10	0.08-0.15	0.12-0.18	0.15-0.22	0.16-0.25	0.18-0.28
0.06-0.10	0.08-0.15	0.12-0.18	0.15-0.22	0.16-0.25	0.18-0.28
0.06-0.10	0.08-0.15	0.12-0.18	0.15-0.22	0.16-0.25	0.18-0.28
0.06-0.08	0.08-0.12	0.10-0.16	0.12-0.18	0.15-0.22	0.16-0.23
0.06-0.08	0.08-0.12	0.10-0.16	0.12-0.18	0.15-0.22	0.16-0.23
0.06-0.12	0.08-0.15	0.10-0.13	0.12-0.18	0.14-0.20	0.14-0.24
0.06-0.12	0.08-0.15	0.10-0.13	0.12-0.18	0.14-0.20	0.14-0.24
0.06-0.12	0.08-0.15	0.10-0.13	0.12-0.18	0.14-0.20	0.14-0.24
0.06-0.12	0.08-0.15	0.10-0.13	0.12-0.18	0.14-0.20	0.14-0.24
0.06-0.12	0.08-0.15	0.10-0.13	0.12-0.18	0.14-0.20	0.14-0.24
0.06-0.12	0.06-0.12	0.08-0.13	0.08-0.13	0.08-0.14	0.08-0.14
0.06-0.12	0.06-0.12	0.08-0.13	0.08-0.13	0.08-0.14	0.08-0.14
0.06-0.12	0.06-0.12	0.08-0.13	0.08-0.13	0.08-0.14	0.08-0.14
0.06-0.12	0.06-0.12	0.08-0.13	0.08-0.13	0.08-0.14	0.08-0.14
0.06-0.12	0.06-0.12	0.08-0.13	0.08-0.13	0.08-0.14	0.08-0.14
0.05-0.07	0.05-0.07	0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.08
0.05-0.07	0.05-0.07	0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.08
0.05-0.07	0.05-0.07	0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.08
0.05-0.07	0.05-0.07	0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.08
0.05-0.07	0.05-0.07	0.05-0.08	0.05-0.08	0.05-0.08	0.05-0.08
0.05-0.09	0.08-0.13	0.08-0.17	0.10-0.20	0.14-0.22	0.14-0.24
0.05-0.09	0.08-0.13	0.08-0.17	0.10-0.20	0.14-0.22	0.14-0.24
0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.09
0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.09
0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.09
0.05-0.08	0.05-0.08	0.05-0.09	0.05-0.09	0.05-0.09	0.05-0.09

Recommended Cutting Conditions

DRILL SFEED

Machining data for DRILL-SFEED

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

• 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

DRILL SFEED

Machining data for DRILL-SFEED

Cutting speed Vc (m/min)	Feed (mm/rev) vs. drill diameter		
	Ø15 - Ø15.9	Ø16 - Ø19.9	Ø20 - Ø20.9
80-140	0.30-0.50	0.35-0.55	0.40-060
80-130	0.30-0.50	0.35-0.55	0.40-060
80-120	0.30-0.50	0.35-0.55	0.40-060
70-110	0.30-0.50	0.35-0.55	0.40-060
50-90	0.30-0.50	0.35-0.55	0.40-060
80-120	0.25-0.45	0.30-0.50	0.35-0.55
70-110	0.25-0.45	0.30-0.50	0.35-0.55
50-90	0.25-0.45	0.30-0.50	0.35-0.55
40-70	0.25-0.45	0.30-0.50	0.35-0.55
50-90	0.25-0.40	0.30-0.45	0.35-0.50
40-80	0.25-0.40	0.30-0.45	0.35-0.50
90-160	0.40-0.60	0.45-0.65	0.50-0.70
80-140	0.40-0.60	0.45-0.65	0.50-0.70
90-180	0.35-0.55	0.40-0.60	0.45-0.65
80-140	0.35-0.55	0.40-0.60	0.45-0.65
90-160	0.35-0.55	0.40-0.60	0.45-0.65
80-140	0.35-0.55	0.40-0.60	0.45-0.65

Recommended Cutting Conditions

DRILL RUSH

Machining data for DRILL-RUSH

ISO	Material		Condition	Tensile strength (N/mm^2)	Hardness HB	Material No.	Cutting speed Vc (m/min)
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1	80-140
		>=0.25%C	Annealed	650	190	2	80-130
		<0.55%C	Quenched and tempered	850	250	3	80-120
		>=0.55%C	Annealed	750	220	4	70-110
			Quenched and tempered	1000	300	5	50-90
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	600	200	6	70-120
			Quenched and tempered	930	275	7	70-110
				1000	300	8	50-90
				1200	350	9	40-70
	High alloy steel, cast steel and tool steel		Annealed	680	200	10	50-90
			Quenched and tempered	1100	325	11	40-80
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12	40-70
			Martensitic	820	240	13	40-70
			Austenitic	600	180	14	30-70
K	Gray cast iron (GG)		Ferritic		160	15	90-160
			Pearlitic		250	16	80-140
	Cast iron nodular (GGG)		Ferritic		180	17	90-180
			Pearlitic		260	18	80-140
	Malleable cast iron		Ferritic		130	19	90-160
			Pearlitic		230	20	80-140
N	Aluminum - Wrought alloy		Not cureable		60	21	90-220
			Cured		100	22	90-220
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23	90-220
			Cured		90	24	90-220
		>12% Si	High temp.		130	25	80-160
	Copper alloys	>1% Pb	Free cutting		110	26	90-220
			Brass		90	27	90-220
			Electrolitic copper		100	28	90-220
	Non-metallic		Duroplastics, fiber plastics			29	
			Hard rubber			30	
S	High temp. alloys	Fe based	Annealed		200	31	30-60
			Cured		280	32	20-50
		Ni or Co based	Annealed		250	33	20-50
			Cured		350	34	20-50
			Cast		320	35	20-50
	Titanium, Ti alloys			Rm 400		36	20-50
			Alpha+beta alloys cured	Rm 1050		37	20-50
H	Hardened steel		Hardened		55HRC	38	20-50
			Hardened		60HRC	39	20-50
	Chilled cast iron		Cast		400	40	
	Cast iron nodular		Hardened		55HRC	41	

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

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

ADVANCE CUTTING
TaeguTec

Recommended Cutting Conditions

Machining data for DRILL-RUSH

Feed (mm/rev) vs. drill diameter						
Ø6 - Ø7.9	Ø8 - Ø9.9	Ø10 - Ø11.9	Ø12 - Ø13.9	Ø14 - Ø15.9	Ø16 - Ø19.9	Ø20 - Ø25.9
0.09-0.13	0.12-0.22	0.15-0.28	0.18-0.30	0.20-0.35	0.25-0.45	0.25-0.45
0.09-0.13	0.12-0.22	0.15-0.28	0.18-0.30	0.20-0.35	0.25-0.45	0.25-0.45
0.09-0.13	0.12-0.22	0.15-0.28	0.18-0.30	0.20-0.35	0.25-0.45	0.25-0.45
0.09-0.13	0.12-0.22	0.15-0.28	0.18-0.30	0.20-0.35	0.25-0.45	0.25-0.45
0.09-0.13	0.12-0.22	0.15-0.28	0.18-0.30	0.20-0.35	0.25-0.45	0.25-0.45
0.09-0.15	0.12-0.25	0.14-0.28	0.16-0.32	0.18-0.35	0.23-0.40	0.25-0.45
0.09-0.15	0.12-0.25	0.14-0.28	0.16-0.32	0.18-0.35	0.23-0.40	0.25-0.45
0.09-0.15	0.12-0.25	0.14-0.28	0.16-0.32	0.18-0.35	0.23-0.40	0.25-0.45
0.09-0.15	0.12-0.25	0.14-0.28	0.16-0.32	0.18-0.35	0.23-0.40	0.25-0.45
0.09-0.12	0.12-0.20	0.12-0.22	0.15-0.25	0.18-0.28	0.20-0.30	0.22-0.33
0.09-0.12	0.12-0.20	0.12-0.22	0.15-0.25	0.18-0.28	0.20-0.30	0.22-0.33
0.08-0.10	0.10-0.15	0.12-0.18	0.14-0.20	0.16-0.24	0.16-0.26	0.18-0.30
0.08-0.10	0.10-0.15	0.12-0.18	0.14-0.20	0.16-0.24	0.16-0.26	0.18-0.30
0.08-0.10	0.10-0.15	0.12-0.18	0.14-0.20	0.16-0.24	0.16-0.26	0.18-0.30
0.12-0.18	0.15-0.30	0.20-0.35	0.25-0.40	0.30-0.45	0.35-0.55	0.35-0.60
0.12-0.18	0.15-0.30	0.20-0.35	0.25-0.40	0.30-0.45	0.35-0.55	0.35-0.60
0.12-0.18	0.15-0.30	0.20-0.35	0.25-0.40	0.30-0.45	0.35-0.55	0.35-0.60
0.12-0.18	0.15-0.30	0.20-0.35	0.25-0.40	0.30-0.45	0.35-0.55	0.35-0.60
0.12-0.18	0.15-0.30	0.20-0.35	0.25-0.40	0.30-0.45	0.35-0.55	0.35-0.60
0.12-0.18	0.15-0.30	0.20-0.35	0.25-0.40	0.30-0.45	0.35-0.55	0.35-0.60
	0.20-0.35	0.25-0.40	0.30-0.45	0.35-0.50	0.40-0.60	0.45-0.70
	0.20-0.35	0.25-0.40	0.30-0.45	0.35-0.50	0.40-0.60	0.45-0.70
	0.20-0.35	0.25-0.40	0.30-0.45	0.35-0.50	0.40-0.60	0.45-0.70
	0.20-0.35	0.25-0.40	0.30-0.45	0.35-0.50	0.40-0.60	0.45-0.70
	0.20-0.35	0.25-0.40	0.30-0.45	0.35-0.50	0.40-0.60	0.45-0.70
	0.20-0.35	0.25-0.40	0.30-0.45	0.35-0.50	0.40-0.60	0.45-0.70
	0.20-0.35	0.25-0.40	0.30-0.45	0.35-0.50	0.40-0.60	0.45-0.70
	0.20-0.35	0.25-0.40	0.30-0.45	0.35-0.50	0.40-0.60	0.45-0.70
0.05-0.07	0.06-0.11	0.08-0.13	0.10-0.15	0.12-0.18	0.12-0.20	0.14-0.22
0.05-0.07	0.06-0.11	0.08-0.13	0.10-0.15	0.12-0.18	0.12-0.20	0.14-0.22
0.05-0.07	0.06-0.11	0.08-0.13	0.10-0.15	0.12-0.18	0.12-0.20	0.14-0.22
0.05-0.07	0.06-0.11	0.08-0.13	0.10-0.15	0.12-0.18	0.12-0.20	0.14-0.22
0.05-0.07	0.06-0.11	0.08-0.13	0.10-0.15	0.12-0.18	0.12-0.20	0.14-0.22
0.05-0.07	0.06-0.12	0.08-0.15	0.10-0.18	0.12-0.20	0.14-0.22	0.16-0.25
0.05-0.07	0.06-0.12	0.08-0.15	0.10-0.18	0.12-0.20	0.14-0.22	0.16-0.25
0.05-0.07	0.06-0.12	0.08-0.15	0.10-0.18	0.12-0.20	0.14-0.22	0.16-0.25
0.05-0.07	0.06-0.12	0.08-0.15	0.10-0.18	0.12-0.20	0.14-0.22	0.16-0.25

Recommended Cutting Conditions

MODU-R-DRILL

Machining data for MODU-R-DRILL

ISO	Material		Condition	Tensile strength (N/mm²)	Hardness HB	Material No.	Cutting speed Vc (m/min)
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1	120-200
		>=0.25%C	Annealed	650	190	2	120-200
		<0.55%C	Quenched and tempered	850	250	3	130-190
		>=0.55%C	Annealed	750	220	4	130-190
			Quenched and tempered	1000	300	5	130-190
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	600	200	6	100-200
			Quenched and tempered	930	275	7	100-200
				1000	300	8	100-200
				1200	350	9	100-200
	High alloy steel, cast steel and tool steel		Annealed	680	200	10	100-160
			Quenched and tempered	1100	325	11	100-160
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12	80-140
			Martensitic	820	240	13	80-140
			Austenitic	600	180	14	80-140
K	Gray cast iron (GG)		Ferritic		160	15	100-250
			Pearlitic		250	16	100-250
	Cast iron nodular (GGG)		Ferritic		180	17	100-250
			Pearlitic		260	18	100-250
	Malleable cast iron		Ferritic		130	19	100-250
			Pearlitic		230	20	100-250
N	Aluminum - Wrought alloy		Not cureable		60	21	160-260
			Cured		100	22	160-260
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23	160-260
			Cured		90	24	160-260
		>12% Si	High temp.		130	25	160-260
	Copper alloys	>1% Pb	Free cutting		110	26	160-260
			Brass		90	27	160-260
			Electrolitic copper		100	28	160-260
	Non-metallic		Duroplastics, fiber plastics			29	
			Hard rubber			30	
S	High temp. alloys	Fe based	Annealed		200	31	30-60
			Cured		280	32	30-80
		Ni or Co based	Annealed		250	33	30-80
			Cured		350	34	30-80
			Cast		320	35	30-80
	Titanium, Ti alloys			Rm 400		36	30-80
			Alpha+beta alloys cured	Rm 1050		37	30-80
H	Hardened steel		Hardened		55HRC	38	20-50
			Hardened		60HRC	39	20-50
	Chilled cast iron		Cast		400	40	
	Cast iron nodular		Hardened		55HRC	41	

• 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 MODU-R-DRILL

Feed (mm/rev) vs. drill diameter					
SPGX 06 Ø26 - Ø28	SPGX 07 Ø29 - Ø32	SPGX 09 Ø33 - Ø36	SPGX 11 Ø37 - Ø43	SPGX 11 Ø44 - Ø45	SPGX 14 Ø46 - Ø50
0.20-0.35	0.25-0.35	0.2-0.4	0.25-0.4	0.28-0.45	0.28-0.45
0.20-0.35	0.25-0.35	0.2-0.4	0.25-0.4	0.28-0.45	0.28-0.45
0.20-0.35	0.25-0.35	0.2-0.4	0.25-0.4	0.28-0.45	0.28-0.45
0.20-0.35	0.25-0.35	0.2-0.4	0.25-0.4	0.28-0.45	0.28-0.45
0.20-0.35	0.25-0.35	0.2-0.4	0.25-0.4	0.28-0.45	0.28-0.45
0.20-0.33	0.25-0.33	0.25-0.36	0.25-0.36	0.25-0.40	0.25-0.40
0.20-0.33	0.25-0.33	0.25-0.36	0.25-0.36	0.25-0.40	0.25-0.40
0.20-0.33	0.25-0.33	0.25-0.36	0.25-0.36	0.25-0.40	0.25-0.40
0.20-0.33	0.25-0.33	0.25-0.36	0.25-0.36	0.25-0.40	0.25-0.40
0.20-0.33	0.25-0.33	0.25-0.36	0.25-0.36	0.25-0.40	0.25-0.40
0.20-0.33	0.25-0.33	0.25-0.36	0.25-0.36	0.25-0.40	0.25-0.40
0.12-0.24	0.15-0.24	0.16-0.25	0.18-0.28	0.18-0.30	0.18-0.30
0.12-0.24	0.15-0.24	0.16-0.25	0.18-0.28	0.18-0.30	0.18-0.30
0.12-0.24	0.15-0.24	0.16-0.25	0.18-0.28	0.18-0.30	0.18-0.30
0.25-0.45	0.25-0.45	0.3-0.5	0.3-0.5	0.35-0.55	0.35-0.55
0.25-0.45	0.25-0.45	0.3-0.5	0.3-0.5	0.35-0.55	0.35-0.55
0.25-0.45	0.25-0.45	0.3-0.5	0.3-0.5	0.35-0.55	0.35-0.55
0.25-0.45	0.25-0.45	0.3-0.5	0.3-0.5	0.35-0.55	0.35-0.55
0.25-0.45	0.25-0.45	0.3-0.5	0.3-0.5	0.35-0.55	0.35-0.55
0.25-0.45	0.25-0.45	0.3-0.5	0.3-0.5	0.35-0.55	0.35-0.55
0.3-0.5	0.3-0.5	0.35-0.55	0.35-0.55	0.4-0.6	0.4-0.6
0.3-0.5	0.3-0.5	0.35-0.55	0.35-0.55	0.4-0.6	0.4-0.6
0.3-0.5	0.3-0.5	0.35-0.55	0.35-0.55	0.4-0.6	0.4-0.6
0.3-0.5	0.3-0.5	0.35-0.55	0.35-0.55	0.4-0.6	0.4-0.6
0.3-0.5	0.3-0.5	0.35-0.55	0.35-0.55	0.4-0.6	0.4-0.6
0.3-0.5	0.3-0.5	0.35-0.55	0.35-0.55	0.4-0.6	0.4-0.6
0.3-0.5	0.3-0.5	0.35-0.55	0.35-0.55	0.4-0.6	0.4-0.6
0.3-0.5	0.3-0.5	0.35-0.55	0.35-0.55	0.4-0.6	0.4-0.6
0.1-0.16	0.10-0.18	0.15-0.20	0.15-0.22	0.16-0.24	0.16-0.24
0.1-0.16	0.10-0.18	0.15-0.20	0.15-0.22	0.16-0.24	0.16-0.24
0.1-0.16	0.10-0.18	0.15-0.20	0.15-0.22	0.16-0.24	0.16-0.24
0.1-0.16	0.10-0.18	0.15-0.20	0.15-0.22	0.16-0.24	0.16-0.24
0.1-0.16	0.10-0.18	0.15-0.20	0.15-0.22	0.16-0.24	0.16-0.24
0.1-0.16	0.10-0.18	0.15-0.20	0.15-0.22	0.16-0.24	0.16-0.24
0.1-0.16	0.10-0.18	0.15-0.20	0.15-0.22	0.16-0.24	0.16-0.24
0.1-0.16	0.12-0.18	0.14-0.20	0.14-0.20	0.16-0.22	0.16-0.22
0.1-0.16	0.12-0.18	0.14-0.20	0.14-0.20	0.16-0.22	0.16-0.22

Recommended Cutting Conditions

SPADE RUSH

Machining data for SPADE-RUSH

ISO	Material		Condition	Tensile strength (N/mm^2)	Hardness HB	Material No.	Cutting speed Vc (m/min)
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1	80-140
		>=0.25%C	Annealed	650	190	2	80-130
		<0.55%C	Quenched and tempered	850	250	3	80-120
		>=0.55%C	Annealed	750	220	4	70-110
			Quenched and tempered	1000	300	5	50-90
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	600	200	6	80-120
			Quenched and tempered	930	275	7	70-110
				1000	300	8	50-90
				1200	350	9	40-70
	High alloy steel, cast steel and tool steel		Annealed	680	200	10	50-90
			Quenched and tempered	1100	325	11	40-80
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12	40-70
			Martensitic	820	240	13	40-70
			Austenitic	600	180	14	30-70
K	Gray cast iron (GG)		Ferritic		160	15	90-180
			Pearlitic		250	16	80-140
	Cast iron nodular (GGG)		Ferritic		180	17	90-165
			Pearlitic		260	18	80-140
	Malleable cast iron		Ferritic		130	19	90-160
			Pearlitic		230	20	80-140
N	Aluminum - Wrought alloy		Not cureable		60	21	90-220
			Cured		100	22	90-220
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23	90-220
			Cured		90	24	90-220
		>12% Si	High temp.		130	25	80-160
	Copper alloys	>1% Pb	Free cutting		110	26	90-220
			Brass		90	27	90-220
			Electrolitic copper		100	28	90-220
	Non-metallic		Duroplastics, fiber plastics			29	
			Hard rubber			30	
S	High temp. alloys	Fe based	Annealed		200	31	30-60
			Cured		280	32	20-50
		Ni or Co based	Annealed		250	33	20-50
			Cured		350	34	20-50
			Cast		320	35	20-50
	Titanium, Ti alloys			Rm 400		36	20-50
			Alpha+beta alloys cured	Rm 1050		37	20-50
H	Hardened steel		Hardened		55HRC	38	20-50
			Hardened		60HRC	39	20-50
	Chilled cast iron		Cast		400	40	
	Cast iron nodular		Hardened		55HRC	41	

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

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

ADVANCE CUTTING
TaeguTec

Machining data for SPADE-RUSH

Feed (mm/rev) vs. drill diameter			
Ø20 - Ø25.9	Ø26 - Ø29.9	Ø30 - Ø34.9	Ø35 - Ø41
0.30-0.50	0.30-0.50	0.30-0.50	0.35-0.55
0.30-0.50	0.30-0.50	0.30-0.50	0.35-0.55
0.30-0.50	0.30-0.50	0.30-0.50	0.35-0.55
0.30-0.50	0.30-0.50	0.30-0.50	0.35-0.55
0.30-0.50	0.30-0.50	0.30-0.50	0.35-0.55
0.25-0.45	0.25-0.45	0.25-0.45	0.30-0.50
0.25-0.45	0.25-0.45	0.25-0.45	0.30-0.50
0.25-0.45	0.25-0.45	0.25-0.45	0.30-0.50
0.25-0.45	0.25-0.45	0.25-0.45	0.30-0.50
0.25-0.35	0.25-0.35	0.25-0.35	0.30-0.40
0.25-0.35	0.25-0.35	0.25-0.35	0.30-0.40
0.15-0.30	0.15-0.30	0.15-0.30	0.20-0.35
0.15-0.30	0.15-0.30	0.15-0.30	0.20-0.35
0.15-0.30	0.15-0.30	0.15-0.30	0.20-0.35
0.35-0.55	0.35-0.55	0.35-0.55	0.40-0.60
0.35-0.55	0.35-0.55	0.35-0.55	0.40-0.60
0.35-0.55	0.35-0.55	0.35-0.55	0.40-0.60
0.35-0.55	0.35-0.55	0.35-0.55	0.40-0.60
0.35-0.55	0.35-0.55	0.35-0.55	0.40-0.60
0.35-0.55	0.35-0.55	0.35-0.55	0.40-0.60
0.40-0.60	0.40-0.60	0.40-0.60	0.50-0.70
0.40-0.60	0.40-0.60	0.40-0.60	0.50-0.70
0.40-0.60	0.40-0.60	0.40-0.60	0.50-0.70
0.40-0.60	0.40-0.60	0.40-0.60	0.50-0.70
0.40-0.60	0.40-0.60	0.40-0.60	0.50-0.70
0.40-0.60	0.40-0.60	0.40-0.60	0.50-0.70
0.40-0.60	0.40-0.60	0.40-0.60	0.50-0.70
0.40-0.60	0.40-0.60	0.40-0.60	0.50-0.70
0.10-0.20	0.10-0.20	0.15-0.25	0.15-0.25
0.10-0.20	0.10-0.20	0.15-0.25	0.15-0.25
0.10-0.20	0.10-0.20	0.15-0.25	0.15-0.25
0.10-0.20	0.10-0.20	0.15-0.25	0.15-0.25
0.10-0.20	0.10-0.20	0.15-0.25	0.15-0.25
0.10-0.20	0.10-0.20	0.15-0.25	0.15-0.25
0.10-0.20	0.10-0.20	0.15-0.25	0.15-0.25
0.10-0.20	0.10-0.20	0.15-0.25	0.15-0.25
0.10-0.20	0.10-0.20	0.15-0.25	0.15-0.25

Recommended Cutting Conditions

SOLID3DRILL

Machining data for SOLID-3-DRILL

ISO	Material		Condition	Tensile strength (N/mm^2)	Hardness HB	Material No.	Cutting speed Vc (m/min)
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1	80-140
		>=0.25%C	Annealed	650	190	2	80-130
		<0.55%C	Quenched and tempered	850	250	3	80-120
		>=0.55%C	Annealed	750	220	4	70-110
			Quenched and tempered	1000	300	5	50-90
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	600	200	6	80-120
			Quenched and tempered	930	275	7	70-110
				1000	300	8	50-90
				1200	350	9	40-70
	High alloy steel, cast steel and tool steel		Annealed	680	200	10	50-90
			Quenched and tempered	1100	325	11	40-80
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12	
			Martensitic	820	240	13	
			Austenitic	600	180	14	
K	Gray cast iron (GG)		Ferritic		160	15	80-140
			Pearlitic		250	16	70-120
	Cast iron nodular (GGG)		Ferritic		180	17	80-120
			Pearlitic		260	18	70-110
	Malleable cast iron		Ferritic		130	19	80-120
			Pearlitic		230	20	70-110
N	Aluminum - Wrought alloy		Not cureable		60	21	
			Cured		100	22	
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23	
			Cured		90	24	
		>12% Si	High temp.		130	25	
	Copper alloys	>1% Pb	Free cutting		110	26	
			Brass		90	27	
			Electrolitic copper		100	28	
	Non-metallic		Duroplastics, fiber plastics			29	
			Hard rubber			30	
S	High temp. alloys	Fe based	Annealed		200	31	
			Cured		280	32	
		Ni or Co based	Annealed		250	33	
			Cured		350	34	
			Cast		320	35	
	Titanium, Ti alloys			Rm 400		36	
			Alpha+beta alloys cured	Rm 1050		37	
H	Hardened steel		Hardened		55HRC	38	
			Hardened		60HRC	39	
	Chilled cast iron		Cast		400	40	
	Cast iron nodular		Hardened		55HRC	41	

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

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

ADVANCE CUTTING
TaeguTec

Recommended Cutting Conditions

SOLID3DRILL

Machining data for SOLID-3-DRILL

Feed (mm/rev) vs. drill diameter				
Ø4 - Ø5	Ø5.1 - Ø6	Ø6.1 - Ø8	Ø8.1 - Ø10	Ø10.1 - Ø12
0.15-0.25	0.20-0.35	0.25-0.45	0.30-0.55	0.35-0.60
0.15-0.25	0.20-0.35	0.25-0.45	0.30-0.55	0.35-0.60
0.15-0.25	0.20-0.35	0.25-0.45	0.30-0.55	0.35-0.60
0.15-0.25	0.20-0.35	0.25-0.45	0.30-0.55	0.35-0.60
0.15-0.25	0.20-0.35	0.25-0.45	0.30-0.55	0.35-0.60
0.15-0.25	0.20-0.35	0.25-0.40	0.30-0.50	0.35-0.55
0.15-0.25	0.20-0.35	0.25-0.40	0.30-0.50	0.35-0.55
0.15-0.25	0.20-0.35	0.25-0.40	0.30-0.50	0.35-0.55
0.15-0.25	0.20-0.35	0.25-0.40	0.30-0.50	0.35-0.55
0.15-0.20	0.20-0.30	0.25-0.35	0.30-0.45	0.35-0.50
0.15-0.20	0.20-0.30	0.25-0.35	0.30-0.45	0.35-0.50
0.20-0.30	0.25-0.45	0.35-0.55	0.40-0.60	0.45-0.65
0.20-0.30	0.25-0.45	0.35-0.55	0.40-0.60	0.45-0.65
0.20-0.30	0.20-0.40	0.30-0.50	0.35-0.55	0.40-0.60
0.20-0.30	0.20-0.40	0.30-0.50	0.35-0.55	0.40-0.60
0.20-0.30	0.20-0.40	0.30-0.50	0.35-0.55	0.40-0.60
0.20-0.30	0.20-0.40	0.30-0.50	0.35-0.55	0.40-0.60

Recommended Cutting Conditions

HDRILL

Machining data for H-DRILL

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

• 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

HDRILL

Machining data for H-DRILL

Feed (mm/rev) vs. drill diameter		
Ø3 - Ø5	Ø5.1 - Ø8	Ø8.1 - Ø12
0.10-0.20	0.15-0.25	0.20-0.30
0.10-0.20	0.15-0.25	0.20-0.30
0.10-0.20	0.15-0.25	0.20-0.30
0.10-0.20	0.15-0.25	0.20-0.30
0.10-0.20	0.15-0.25	0.20-0.30
0.10-0.20	0.15-0.25	0.20-0.30
0.10-0.20	0.15-0.25	0.20-0.30
0.10-0.20	0.15-0.25	0.20-0.30
0.10-0.20	0.15-0.25	0.20-0.30
0.08-0.18	0.10-0.20	0.15-0.25
0.08-0.18	0.10-0.20	0.15-0.25
0.06-0.12	0.10-0.15	0.12-0.18
0.06-0.12	0.10-0.15	0.12-0.18
0.06-0.12	0.10-0.15	0.12-0.18
0.10-0.20	0.15-0.25	0.20-0.30
0.10-0.20	0.15-0.25	0.20-0.30
0.10-0.20	0.15-0.25	0.20-0.30
0.10-0.20	0.15-0.25	0.20-0.30
0.10-0.20	0.15-0.25	0.20-0.30
0.10-0.20	0.15-0.25	0.20-0.30
0.10-0.25	0.15-0.35	0.25-0.45
0.10-0.25	0.15-0.35	0.25-0.45
0.10-0.25	0.15-0.35	0.25-0.45
0.10-0.25	0.15-0.35	0.25-0.45
0.10-0.25	0.15-0.35	0.25-0.45
0.08-0.18	0.15-0.25	0.20-0.35
0.08-0.18	0.15-0.25	0.20-0.35
0.08-0.18	0.15-0.25	0.20-0.35
0.02-0.08	0.04-0.10	0.06-0.12
0.02-0.08	0.04-0.10	0.06-0.12
0.02-0.08	0.04-0.10	0.06-0.12
0.02-0.08	0.04-0.10	0.06-0.12
0.02-0.08	0.04-0.10	0.06-0.12
0.02-0.08	0.04-0.10	0.06-0.12
0.02-0.08	0.04-0.10	0.06-0.12

Recommended Cutting Conditions

TOPCAP

Machining data for TOP-CAP

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

• 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

TOP CAP

Machining data for TOP-CAP

Drilling		Turning & boring		Grooving	
Vc (m/min)	Feed (mm/rev)	Vc (m/min)	Feed (mm/rev)	Vc (m/min)	Feed (mm/rev)
120-260	0.05-0.06	140-280	0.04-0.14	120-250	0.04-0.25
80-190	0.05-0.15	90-200	0.04-0.12	80-180	0.04-0.25
100-280	0.06-0.18	100-200	0.04-0.15	80-180	0.04-0.25
100-280	0.06-0.18	100-200	0.04-0.15	80-180	0.04-0.25
100-280	0.06-0.18	100-200	0.04-0.15	80-180	0.04-0.25
100-280	0.06-0.18	100-200	0.04-0.15	80-180	0.04-0.25
60-180	0.04-0.15	80-180	0.07-0.12	60-160	0.04-0.25
60-180	0.04-0.15	80-180	0.07-0.12	60-160	0.04-0.25
60-180	0.04-0.15	80-180	0.07-0.12	60-160	0.04-0.25
80-190	0.05-0.15	80-200	0.04-0.12	80-160	0.04-0.25
50-150	0.04-0.14	60-150	0.04-0.12	50-120	0.04-0.25
50-210	0.04-0.15	60-230	0.07-0.12	50-200	0.04-0.25
50-210	0.04-0.15	60-230	0.07-0.12	50-200	0.04-0.25
50-210	0.04-0.15	60-230	0.07-0.12	50-200	0.04-0.25
100-300	0.06-0.23	120-230	0.07-0.2	100-200	0.04-0.25
100-300	0.06-0.23	120-230	0.07-0.2	100-200	0.04-0.25
100-300	0.06-0.23	120-230	0.07-0.2	100-200	0.04-0.25
100-300	0.06-0.23	120-230	0.07-0.2	100-200	0.04-0.25
100-200	0.06-0.15	120-230	0.04-0.13	100-200	0.04-0.25
100-200	0.06-0.15	120-230	0.04-0.13	100-200	0.04-0.25
120-500	0.05-0.3	120-700	0.04-0.25	100-700	0.04-0.25
120-500	0.05-0.3	120-700	0.04-0.25	100-700	0.04-0.25
120-500	0.05-0.3	120-700	0.04-0.25	100-700	0.04-0.25
120-500	0.05-0.3	120-700	0.04-0.25	100-700	0.04-0.25
120-500	0.05-0.3	120-700	0.04-0.25	100-700	0.04-0.25
80-380	0.05-0.23	80-500	0.04-0.2	80-350	0.04-0.25
80-380	0.05-0.23	80-500	0.04-0.2	80-350	0.04-0.25
80-380	0.05-0.23	80-500	0.04-0.2	80-350	0.04-0.25
50-140	0.04-0.14	50-160	0.04-0.12	50-140	0.04-0.25
50-140	0.04-0.14	50-160	0.04-0.12	50-140	0.04-0.25
20-50	0.04-0.05	20-80	0.04-0.05	20-50	0.04-0.05
20-50	0.04-0.05	20-80	0.04-0.05	20-50	0.04-0.05
20-50	0.04-0.05	20-80	0.04-0.05	20-50	0.04-0.05
20-50	0.04-0.05	20-80	0.04-0.05	20-50	0.04-0.05
20-50	0.04-0.05	20-80	0.04-0.05	20-50	0.04-0.05
30-60	0.04-0.05	30-100	0.04-0.05	30-80	0.04-0.05
30-60	0.04-0.05	30-100	0.04-0.05	30-80	0.04-0.05
20-40	0.04-0.05	20-70	0.04-0.05	20-50	0.04-0.05
20-40	0.04-0.05	20-70	0.04-0.05	20-50	0.04-0.05
20-40	0.04-0.05	20-70	0.04-0.05	20-50	0.04-0.05
20-40	0.04-0.05	20-70	0.04-0.05	20-50	0.04-0.05

Recommended Cutting Conditions

TDEEP

Machining data for TBTA 3/5/7/9 & TBTA-R

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

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

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

ADVANCE CUTTING
TaeguTec

Machining data for TBTA 3/5/7/9 & TBTA-R

Feed (mm/rev) vs. drill diameter				
Ø38.00 - Ø39.99	Ø40.00 - Ø51.99	Ø52.00 - Ø63.99	Ø64.00 - Ø84.99	Ø85.00 -
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.13	0.10-0.15	0.13-0.18	0.15-0.20	0.18-0.23
0.08-0.13	0.10-0.15	0.13-0.18	0.15-0.20	0.18-0.23
0.08-0.13	0.10-0.15	0.13-0.18	0.15-0.20	0.18-0.23
0.08-0.13	0.10-0.15	0.13-0.18	0.15-0.20	0.18-0.23
0.08-0.13	0.10-0.15	0.13-0.18	0.15-0.20	0.18-0.23
0.08-0.13	0.10-0.15	0.13-0.18	0.15-0.20	0.18-0.23
0.08-0.20	0.10-0.25	0.13-0.28	0.15-0.30	0.18-0.33
0.08-0.20	0.10-0.25	0.13-0.28	0.15-0.30	0.18-0.33
0.08-0.20	0.10-0.25	0.13-0.28	0.15-0.30	0.18-0.33
0.08-0.20	0.10-0.25	0.13-0.28	0.15-0.30	0.18-0.33
0.08-0.20	0.10-0.25	0.13-0.28	0.15-0.30	0.18-0.33
0.08-0.20	0.10-0.25	0.13-0.28	0.15-0.30	0.18-0.33
0.08-0.20	0.10-0.25	0.13-0.28	0.15-0.30	0.18-0.33
0.08-0.20	0.10-0.25	0.13-0.28	0.15-0.30	0.18-0.33
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30
0.08-0.15	0.10-0.20	0.13-0.23	0.15-0.25	0.18-0.30

Recommended Cutting Conditions

TDEEP

Machining data for TBTA-FB

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

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

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

ADVANCE CUTTING
TaeguTec

Recommended Cutting Conditions

TDEEP

Machining data for TBTA-FB

Feed (mm/rev) vs. drill diameter			
Ø25.00 - Ø43.00	Ø43.01 - Ø65.00		
0.10-0.30	0.12-0.35		
0.10-0.30	0.12-0.35		
0.10-0.30	0.12-0.35		
0.10-0.30	0.12-0.35		
0.10-0.30	0.12-0.35		
0.10-0.30	0.12-0.35		
0.10-0.30	0.12-0.35		
0.10-0.30	0.12-0.35		
0.10-0.30	0.12-0.35		
0.10-0.30	0.12-0.35		
0.10-0.30	0.12-0.35		
0.10-0.30	0.12-0.35		
0.10-0.30	0.12-0.35		
0.10-0.30	0.12-0.35		
0.10-0.25	0.12-0.35		
0.10-0.25	0.12-0.35		
0.10-0.25	0.12-0.35		
0.10-0.25	0.12-0.35		
0.10-0.25	0.12-0.35		
0.10-0.25	0.12-0.35		
0.10-0.25	0.12-0.35		
0.08-0.23	0.12-0.27		
0.08-0.23	0.12-0.27		
0.08-0.23	0.12-0.27		
0.08-0.23	0.12-0.27		
0.08-0.23	0.12-0.27		
0.08-0.23	0.12-0.27		
0.08-0.23	0.12-0.27		
0.08-0.23	0.12-0.27		
0.08-0.23	0.12-0.27		
0.08-0.23	0.12-0.27		
0.08-0.23	0.12-0.27		
0.08-0.23	0.12-0.27		
0.08-0.23	0.12-0.27		
0.08-0.23	0.12-0.27		
0.08-0.23	0.12-0.27		
0.08-0.23	0.12-0.27		

Recommended Cutting Conditions

TDEEP

Machining data for BTA & BTS

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

• 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 for BTA & BTS

Feed (mm/rev) vs. drill diameter				
Ø8.00 - Ø20.00	Ø15.60 - Ø20.00	Ø20.01 - Ø31.00	Ø31.01 - Ø43.00	Ø43.01 - Ø65.00
0.05-0.13	0.08-0.15	0.10-0.17	0.13-0.20	0.16-0.30
0.05-0.13	0.08-0.15	0.10-0.17	0.13-0.20	0.16-0.30
0.05-0.13	0.08-0.15	0.10-0.17	0.13-0.20	0.16-0.30
0.05-0.13	0.08-0.15	0.10-0.17	0.13-0.20	0.16-0.30
0.05-0.10	0.08-0.12	0.10-0.15	0.13-0.17	0.15-0.28
0.05-0.13	0.08-0.15	0.10-0.17	0.13-0.20	0.16-0.30
0.05-0.10	0.08-0.12	0.10-0.15	0.13-0.17	0.15-0.28
0.05-0.10	0.08-0.12	0.10-0.15	0.13-0.17	0.15-0.28
0.05-0.10	0.08-0.12	0.10-0.15	0.13-0.17	0.15-0.28
0.05-0.13	0.08-0.15	0.10-0.17	0.13-0.20	0.16-0.30
0.05-0.10	0.08-0.12	0.10-0.15	0.13-0.17	0.15-0.28
0.05-0.13	0.08-0.15	0.10-0.28	0.13-0.30	0.16-0.35
0.05-0.13	0.08-0.15	0.10-0.28	0.13-0.30	0.16-0.35
0.05-0.12	0.05-0.12	0.08-0.25	0.10-0.28	0.15-0.33
0.05-0.13	0.06-0.13	0.08-0.18	0.10-0.20	0.15-0.25
0.05-0.13	0.06-0.13	0.08-0.18	0.10-0.20	0.15-0.25
0.05-0.13	0.08-0.15	0.10-0.17	0.13-0.20	0.16-0.30
0.05-0.13	0.08-0.15	0.10-0.17	0.13-0.20	0.16-0.30
0.05-0.13	0.06-0.13	0.08-0.18	0.10-0.20	0.15-0.25
0.05-0.13	0.06-0.13	0.08-0.18	0.10-0.20	0.15-0.25
0.05-0.13	0.08-0.15	0.10-0.20	0.15-0.25	0.16-0.30
0.05-0.13	0.08-0.15	0.10-0.20	0.15-0.25	0.16-0.30
0.05-0.13	0.08-0.15	0.10-0.20	0.15-0.25	0.16-0.30
0.05-0.13	0.08-0.15	0.10-0.20	0.15-0.25	0.16-0.30
0.05-0.13	0.08-0.15	0.10-0.20	0.15-0.25	0.16-0.30
0.05-0.13	0.08-0.15	0.10-0.20	0.15-0.25	0.16-0.30
0.05-0.13	0.08-0.15	0.10-0.20	0.15-0.25	0.16-0.30
0.05-0.13	0.08-0.15	0.10-0.20	0.15-0.25	0.16-0.30
0.05-0.12	0.06-0.12	0.08-0.15	0.12-0.18	0.15-0.25
0.05-0.12	0.06-0.12	0.08-0.15	0.12-0.18	0.15-0.25
0.05-0.12	0.06-0.12	0.08-0.15	0.12-0.18	0.15-0.25
0.05-0.12	0.06-0.12	0.08-0.15	0.12-0.18	0.15-0.25
0.05-0.12	0.06-0.12	0.08-0.15	0.12-0.18	0.15-0.25
0.05-0.10	0.05-0.10	0.08-0.12	0.10-0.15	0.12-0.20
0.05-0.10	0.05-0.10	0.08-0.12	0.10-0.15	0.12-0.20

Recommended Cutting Conditions

TDEEP

Machining data for TRGD / TRGDL / TBTA-TR

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

• 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

TDEEP

Machining data for TRGD / TRGDL / TBTA-TR

Feed (mm/rev) vs. drill diameter					
TRGD / TRGDL				TBTA-TR	
Cutting speed Vc (m/min)	Ø14.00-Ø15.99	Ø16.00-Ø28.00	Ø28.01-Ø40.00	Cutting speed Vc (m/min)	Ø16.00-Ø28.00
80-140	0.05-0.10	0.05-0.10	0.05-0.15	90-130	0.15-0.20
80-140	0.05-0.10	0.05-0.10	0.05-0.15	90-130	0.15-0.20
80-140	0.05-0.16	0.05-0.20	0.05-0.20	90-130	0.15-0.20
80-140	0.05-0.16	0.05-0.20	0.05-0.20	70-130	0.10-0.25
80-140	0.05-0.16	0.05-0.20	0.05-0.20	70-130	0.10-0.25
80-140	0.05-0.10	0.05-0.10	0.05-0.15	70-120	0.10-0.25
80-120	0.05-0.16	0.05-0.20	0.05-0.20	60-120	0.10-0.25
80-120	0.05-0.16	0.05-0.20	0.05-0.20	60-120	0.10-0.25
80-120	0.05-0.16	0.05-0.20	0.05-0.20	60-120	0.10-0.25
80-140	0.05-0.10	0.05-0.10	0.05-0.15	70-130	0.10-0.25
80-120	0.05-0.16	0.05-0.20	0.05-0.20	70-130	0.10-0.25
60-100	0.05-0.10	0.05-0.10	0.05-0.15	80-130	0.06-0.10
60-100	0.05-0.10	0.05-0.10	0.05-0.15	80-130	0.06-0.10
60-100	0.05-0.10	0.05-0.10	0.05-0.15	80-130	0.06-0.10
80-140	0.05-0.25	0.05-0.30	0.05-0.30	50-110	0.10-0.20
80-140	0.05-0.25	0.05-0.30	0.05-0.30	50-110	0.10-0.20
80-140	0.05-0.25	0.05-0.30	0.05-0.30	60-110	0.10-0.20
80-140	0.05-0.25	0.05-0.30	0.05-0.30	60-110	0.10-0.20
80-140	0.05-0.25	0.05-0.30	0.05-0.30	70-110	0.10-0.20
80-140	0.05-0.25	0.05-0.30	0.05-0.30	70-110	0.10-0.20
100-200	0.05-0.20	0.05-0.20	0.05-0.25	65-130	0.08-0.18
100-200	0.05-0.20	0.05-0.20	0.05-0.25	65-130	0.08-0.18
100-200	0.05-0.20	0.05-0.20	0.05-0.25	65-130	0.08-0.18
100-200	0.05-0.20	0.05-0.20	0.05-0.25	65-130	0.08-0.18
				65-130	0.08-0.18
				65-130	0.08-0.18
				65-130	0.08-0.18
				65-130	0.08-0.18
				65-130	0.08-0.18
				65-130	0.08-0.18
20-50	0.04-0.08	0.04-0.10	0.04-0.13	20-50	0.08-0.18
20-50	0.04-0.08	0.04-0.10	0.04-0.13	20-50	0.08-0.18
20-50	0.04-0.08	0.04-0.10	0.04-0.13	20-50	0.08-0.18
20-50	0.04-0.08	0.04-0.10	0.04-0.13	20-50	0.08-0.18
20-50	0.04-0.08	0.04-0.10	0.04-0.13	20-50	0.08-0.18
30-60	0.05-0.13	0.05-0.15	0.05-0.18	30-60	0.08-0.18
30-60	0.05-0.13	0.05-0.15	0.05-0.18	30-60	0.08-0.18
50-100	0.04-0.08	0.04-0.10	0.04-0.13		
50-100	0.04-0.08	0.04-0.10	0.04-0.13		
50-100	0.04-0.08	0.04-0.10	0.04-0.13		
50-100	0.04-0.08	0.04-0.10	0.04-0.13		

Recommended Cutting Conditions

HDRILL

Machining data for CDF

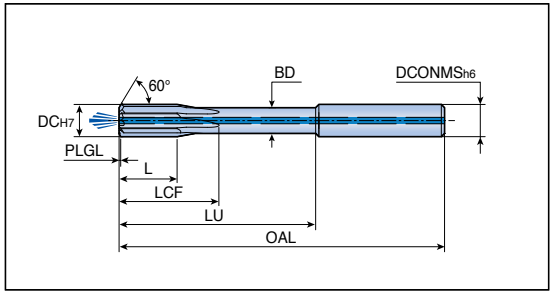
Material	Tensile strength (N/mm^2)	Hardness HB	Cutting speed Vc (m/min)	Feed (mm/rev) vs. drill diameter			
				Ø3.0 - Ø6.0	Ø6.1- Ø8.0	Ø8.1- Ø10.0	Ø10.1- Ø12.7
CFRP	420	125	50-150	0.02-0.07	0.03-0.08	0.03-0.08	0.04-0.10
GFRP	650	190	40-120	0.02-0.07	0.03-0.08	0.03-0.08	0.04-0.10

Reaming Tools

TS-S...-NS

TSREAM

Solid reamers for blind hole



• Straight flute - DIN1420

Designation	Dimension (mm)								NOF	Grade
	DC	L	PLGL	LCF	BD	LU	OAL	DCONMS		TT5040
TS- S0300-NS ✳	3.0	12	0.25	21	2.4	31	60	4.0	4	●
S0400-NS	4.0	12	0.3	17	3.4	40	68	6.0	4	●
S0500-NS	5.0	12	0.3	17	3.8	40	76	6.0	4	●
S0600-NS	6.0	12	0.3	17	4.5	40	76	6.0	4	●
S0700-NS	7.0	15	0.4	20	5.6	65	101	8.0	6	●
S0800-NS	8.0	15	0.4	20	6.4	65	101	8.0	6	●
S0900-NS	9.0	18	0.4	23	7.2	61	101	10.0	6	●
S1000-NS	10.0	18	0.5	23	8.0	61	101	10.0	6	●
S1050-NS	10.5	18	0.5	23	8.4	85	130	12.0	6	●
S1100-NS	11.0	18	0.5	23	8.8	85	130	12.0	6	●
S1150-NS	11.5	18	0.5	23	9.2	85	130	12.0	6	●
S1200-NS	12.0	18	0.5	23	9.6	85	130	12.0	6	●

Cutting Condition D236

- Special diameters are available on request
- NOF: Number of flutes
- ✳: Ø3 reamer does not include a coolant hole

●: Standard items

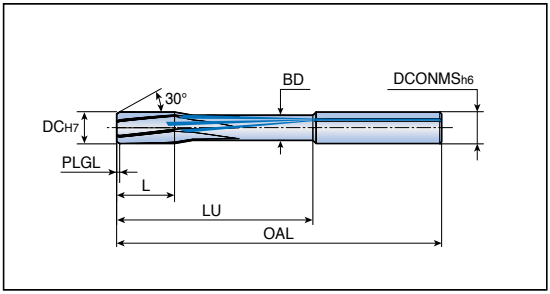
ADVANCE CUTTING TaeguTec

TS-L...-NS

TSREAM

Solid reamers for through hole

• Left flute - DIN1420



Designation	Dimension (mm)							NOF	Grade
	DC	L	PLGL	BD	LU	OAL	DCONMS		TT5040
TS-L0300-NS ✳	3.0	12	0.7	2.2	31	60	4.0	4	●
L0400-NS	4.0	12	0.7	3.0	40	68	6.0	4	●
L0500-NS	5.0	12	0.9	3.8	40	76	6.0	4	●
L0600-NS	6.0	12	0.9	4.5	40	76	6.0	4	●
L0700-NS	7.0	15	0.9	5.6	65	101	8.0	6	●
L0800-NS	8.0	15	0.9	6.4	65	101	8.0	6	●
L0900-NS	9.0	18	0.95	7.2	61	101	10.0	6	●
L1000-NS	10.0	18	0.95	8.0	61	101	10.0	6	●
L1050-NS	10.5	18	1.05	8.4	85	130	12.0	6	●
L1100-NS	11.0	18	1.05	8.8	85	130	12.0	6	●
L1150-NS	11.5	18	1.05	9.2	85	130	12.0	6	●
L1200-NS	12.0	18	1.05	9.6	85	130	12.0	6	●

Cutting Condition D236

- Special diameters are available on request
- NOF: Number of flutes
- ✳ : Ø3 reamer does not include a coolant hole

●: Standard items

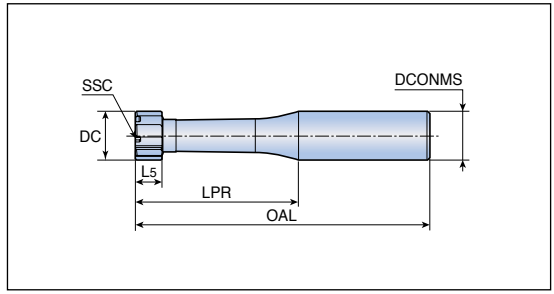
TaeguTec

TM...-T0

TMREAM

Head changeable reamer holders

• Cylindrical shank



Designation	DC	SSC	Dimension (mm)				Overhang
			DCONMS	L5	OAL	LPR	
TM- 3B5-16T0	11.501-13.500	B5	16	9.3	97.8	49.8	
3B6-16T0	13.501-16.000	B6	16	9.4	105.4	57.4	
3B7-20T0	16.000-20.000	B7	20	10.6	120.6	70.6	3XD
3B8-20T0	20.001-25.400	B8	20	12.8	137.8	87.8	
3B9-32T0	25.401-32.000	B9	32	12.8	167.1	107.1	
5B5-16T0	11.501-13.500	B5	16	9.3	125.0	77.0	
5B6-16T0	13.501-16.000	B6	16	9.4	137.4	89.4	
5B7-20T0	16.000-20.000	B7	20	10.6	160.6	110.6	5XD
5B8-20T0	20.001-25.400	B8	20	12.8	187.8	137.8	
5B9-32T0	25.401-32.000	B9	32	12.8	231.1	171.1	
8B5-16T0	11.501-13.500	B5	16	9.3	165.5	117.5	
8B6-16T0	13.501-16.000	B6	16	9.4	185.4	137.4	
8B7-20T0	16.000-20.000	B7	20	10.6	220.6	170.6	8XD
8B8-20T0	20.001-25.400	B8	20	12.8	262.8	212.8	
8B9-32T0	25.401-32.000	B9	32	12.8	327.1	267.1	

D233 Cutting Condition D238

• Clamping key & clamping screw are included
• SSC: Seat size code

ADVANCE CUTTING TaeguTec

TM...KEY

TMREAM

Clamping keys

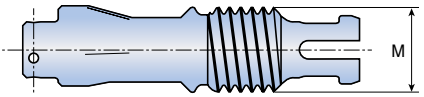
Designation	Clamping key	
	Head diameter range (mm)	SSC
TM - B5-KEY	11.501-13.500	B5
B6-KEY	13.501-16.000	B6
B7-KEY	16.001-20.000	B7
B8-KEY	20.001-25.400	B8
B9-KEY	25.401-32.000	B9

• SSC: Seat size code

TM...SCR

TMREAM

Clamping screws

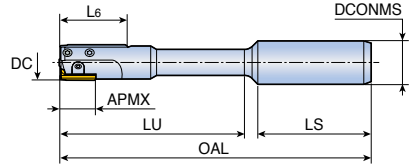


Designation	Clamping screw	
	Head diameter range (mm)	M
TM - B5-SCR	11.501-13.500	M5
B6-SCR	13.501-16.000	M6
B7-SCR	16.001-20.000	M7
B8-SCR	20.001-25.400	M8
B9-SCR	25.401-32.000	M9

TB-T...-T0

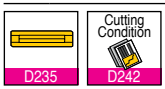
TBREAM

Indexable reamer holders



• For through hole

Designation	Dimension (mm)							SSC
	DC	APMX	OAL	LU	LS	L6	DCONMS	
TB-T08.000-S-16T0-1B	8	15.5	123.5	75	45	30	16	1
T09.000-S-16T0-1B	9	15.5	123.5	75	45	30	16	1
T10.000-S-16T0-2B	10	15.5	123.5	75	45	30	16	2
T11.000-S-16T0-2B	11	15.5	123.5	75	45	30	16	2
T12.000-S-16T0-3B	12	17.0	135	85	45	30	16	3
T13.000-S-16T0-3B	13	17.0	135	85	45	30	16	3
T14.000-S-16T0-3B	14	17.0	135	85	45	30	16	3
T15.000-S-16T0-3B	15	17.0	135	85	45	30	16	3
T16.000-S-20T0-3B	16	17.0	165	110	50	30	20	3
T17.000-S-20T0-3B	17	17.0	165	110	50	30	20	3
T18.000-S-20T0-3B	18	17.0	165	110	50	30	20	3
T19.000-S-20T0-3B	19	17.0	165	110	50	30	20	3
T20.000-S-25T0-3B	20	17.0	171	110	56	30	25	3
T21.000-S-25T0-3B	21	17.0	171	110	56	30	25	3
T22.000-S-25T0-3B	22	17.0	191	130	56	30	25	3
T23.000-S-25T0-3B	23	17.0	191	130	56	30	25	3
T24.000-S-25T0-3B	24	17.0	191	130	56	30	25	3
T25.000-S-25T0-3B	25	17.0	191	130	56	30	25	3
T26.000-S-25T0-4B	26	22.5	221	160	56	30	25	4
T27.000-S-25T0-4B	27	22.5	221	160	56	30	25	4
T28.000-S-25T0-4B	28	22.5	221	160	56	30	25	4
T29.000-S-25T0-4B	29	22.5	221	160	56	30	25	4
T30.000-S-25T0-4B	30	22.5	221	160	56	30	25	4
T31.000-S-25T0-4B	31	22.5	221	160	56	30	25	4
T32.000-S-25T0-4B	32	22.5	221	160	56	30	25	4



• SSC: Seat size code

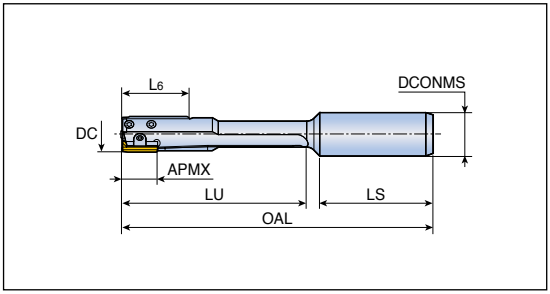
• Available upon request

ADVANCE CUTTING TaeguTec

TB-B...-T0

TBREAM

Indexable reamer holders



• For blind hole

Designation	Dimension (mm)							SSC
	DC	APMX	OAL	LU	LS	L6	DCONMS	
TB- B08.000-S-16T0-1B	8	15.5	123.5	75	45	30	16	1
B09.000-S-16T0-1B	9	15.5	123.5	75	45	30	16	1
B10.000-S-16T0-2B	10	15.5	123.5	75	45	30	16	2
B11.000-S-16T0-2B	11	15.5	123.5	75	45	30	16	2
B12.000-S-16T0-3B	12	17.0	135	85	45	30	16	3
B13.000-S-16T0-3B	13	17.0	135	85	45	30	16	3
B14.000-S-16T0-3B	14	17.0	135	85	45	30	16	3
B15.000-S-16T0-3B	15	17.0	135	85	45	30	16	3
B16.000-S-20T0-3B	16	17.0	165	110	50	30	20	3
B17.000-S-20T0-3B	17	17.0	165	110	50	30	20	3
B18.000-S-20T0-3B	18	17.0	165	110	50	30	20	3
B19.000-S-20T0-3B	19	17.0	165	110	50	30	20	3
B20.000-S-25T0-3B	20	17.0	171	110	56	30	25	3
B21.000-S-25T0-3B	21	17.0	171	110	56	30	25	3
B22.000-S-25T0-3B	22	17.0	191	130	56	30	25	3
B23.000-S-25T0-3B	23	17.0	191	130	56	30	25	3
B24.000-S-25T0-3B	24	17.0	191	130	56	30	25	3
B25.000-S-25T0-3B	25	17.0	191	130	56	30	25	3
B26.000-S-25T0-4B	26	22.5	221	160	56	30	25	4
B27.000-S-25T0-4B	27	22.5	221	160	56	30	25	4
B28.000-S-25T0-4B	28	22.5	221	160	56	30	25	4
B29.000-S-25T0-4B	29	22.5	221	160	56	30	25	4
B30.000-S-25T0-4B	30	22.5	221	160	56	30	25	4
B31.000-S-25T0-4B	31	22.5	221	160	56	30	25	4
B32.000-S-25T0-4B	32	22.5	221	160	56	30	25	4

• SSC: Seat size code

• Available upon request

TaeguTec

Indexable reamer holders

Spare parts

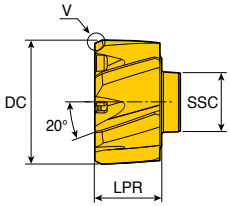
DC (mm)	Clamping wedge	Clamping screw	Adjustment screw	Adjustment pin	SSC
					
8	WDG-TB-1	SR-CL-TB-1	SR-ADJ-M3x2.5	PIN-ADJ-TB-1	1
9	WDG-TB-1	SR-CL-TB-1	SR-ADJ-M3x3	PIN-ADJ-TB-1	1
10	WDG-TB-1	SR-CL-TB-2	SR-ADJ-M3x3	PIN-ADJ-TB-2	2
11	WDG-TB-1	SR-CL-TB-2	SR-ADJ-M3x4	PIN-ADJ-TB-2	2
12	WDG-TB-3	SR-CL-TB-3	SR-ADJ-M4x4	PIN-ADJ-TB-3	3
13	WDG-TB-3	SR-CL-TB-3	SR-ADJ-M4x4	PIN-ADJ-TB-3	3
14	WDG-TB-3	SR-CL-TB-3	SR-ADJ-M4x4	PIN-ADJ-TB-3	3
15	WDG-TB-3	SR-CL-TB-3	SR-ADJ-M4x6	PIN-ADJ-TB-3	3
16	WDG-TB-3	SR-CL-TB-3	SR-ADJ-M4x6	PIN-ADJ-TB-3	3
17	WDG-TB-3	SR-CL-TB-3	SR-ADJ-M4x8	PIN-ADJ-TB-3	3
18	WDG-TB-3	SR-CL-TB-3	SR-ADJ-M4x8	PIN-ADJ-TB-3	3
19	WDG-TB-3	SR-CL-TB-3	SR-ADJ-M4x8	PIN-ADJ-TB-3	3
20	WDG-TB-3	SR-CL-TB-3	SR-ADJ-M4x10	PIN-ADJ-TB-3	3
21	WDG-TB-3	SR-CL-TB-3	SR-ADJ-M4x10	PIN-ADJ-TB-3	3
22	WDG-TB-3	SR-CL-TB-3	SR-ADJ-M4x10	PIN-ADJ-TB-3	3
23	WDG-TB-3	SR-CL-TB-3	SR-ADJ-M4x10	PIN-ADJ-TB-3	3
24	WDG-TB-3	SR-CL-TB-3	SR-ADJ-M4x10	PIN-ADJ-TB-3	3
25	WDG-TB-3	SR-CL-TB-3	SR-ADJ-M4x10	PIN-ADJ-TB-3	3
26	WDG-TB-4	SR-CL-TB-4	SR-ADJ-M4x10	PIN-ADJ-TB-4	4
27	WDG-TB-4	SR-CL-TB-4	SR-ADJ-M4x10	PIN-ADJ-TB-4	4
28	WDG-TB-4	SR-CL-TB-4	SR-ADJ-M4x10	PIN-ADJ-TB-4	4
29	WDG-TB-4	SR-CL-TB-4	SR-ADJ-M4x10	PIN-ADJ-TB-4	4
30	WDG-TB-4	SR-CL-TB-4	SR-ADJ-M4x10	PIN-ADJ-TB-4	4
31	WDG-TB-4	SR-CL-TB-4	SR-ADJ-M4x10	PIN-ADJ-TB-4	4
32	WDG-TB-4	SR-CL-TB-4	SR-ADJ-M4x10	PIN-ADJ-TB-4	4

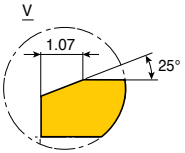
• SSC: Seat size code

TM...-BL

TMREAM

Head changeable reamer heads





- Left-handed flute for through hole
- For H7 hole tolerance

Head	Designation	Dimension (mm)		NOF	SSC	Flute type	Edge type	Grade
		DC	LPR					TT9030
	TM - 11.501-BL-B5	11.501	9.5	6	B5	L	B	●
	12.000-BL-B5	12.000	9.5	6	B5	L	B	●
	13.000-BL-B5	13.000	9.5	6	B5	L	B	●
	13.500-BL-B5	13.500	9.5	6	B5	L	B	●
	13.501-BL-B6	13.501	9.5	6	B6	L	B	●
	14.000-BL-B6	14.000	9.5	6	B6	L	B	●
	15.000-BL-B6	15.000	9.5	6	B6	L	B	●
	16.000-BL-B6	16.000	9.5	6	B6	L	B	●
	16.001-BL-B7	16.001	10.7	6	B7	L	B	●
	17.000-BL-B7	17.000	10.7	6	B7	L	B	●
	18.000-BL-B7	18.000	10.7	6	B7	L	B	●
	19.000-BL-B7	19.000	10.7	6	B7	L	B	●
	20.000-BL-B7	20.000	10.7	6	B7	L	B	●
	20.001-BL-B8	20.001	12.9	8	B8	L	B	●
	21.000-BL-B8	21.000	12.9	8	B8	L	B	●
	22.000-BL-B8	22.000	12.9	8	B8	L	B	●
	23.000-BL-B8	23.000	12.9	8	B8	L	B	●
	24.000-BL-B8	24.000	12.9	8	B8	L	B	●
	25.000-BL-B8	25.000	12.9	8	B8	L	B	●
	26.000-BL-B9	26.000	12.9	8	B9	L	B	●
	27.000-BL-B9	27.000	12.9	8	B9	L	B	●
	28.000-BL-B9	28.000	12.9	8	B9	L	B	●
	29.000-BL-B9	29.000	12.9	8	B9	L	B	●
	30.000-BL-B9	30.000	12.9	8	B9	L	B	●
	31.000-BL-B9	31.000	12.9	8	B9	L	B	●
	32.000-BL-B9	32.000	12.9	8	B9	L	B	●

- NOF: Number of flutes
- SSC: Seat size code

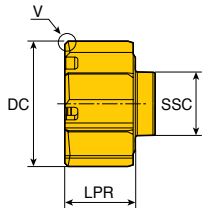
●: Standard items

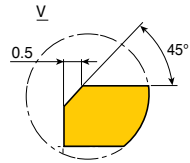
TaeguTec

TM...-AS

TMREAM

Head changeable reamer heads





- Straight flute for blind hole
- For H7 hole tolerance

Head	Designation	Dimension (mm)		NOF	SSC	Flute type	Edge type	Grade
		DC	LPR					TT9030
	TM- 11.501-AS-B5	11.501	9.5	6	B5	S	A	●
	12.000-AS-B5	12.000	9.5	6	B5	S	A	●
	13.000-AS-B5	13.000	9.5	6	B5	S	A	●
	13.500-AS-B5	13.500	9.5	6	B5	S	A	●
	13.501-AS-B6	13.501	9.5	6	B6	S	A	●
	14.000-AS-B6	14.000	9.5	6	B6	S	A	●
	15.000-AS-B6	15.000	9.5	6	B6	S	A	●
	16.000-AS-B6	16.000	9.5	6	B6	S	A	●
	16.001-AS-B7	16.001	10.7	6	B7	S	A	●
	17.000-AS-B7	17.000	10.7	6	B7	S	A	●
	18.000-AS-B7	18.000	10.7	6	B7	S	A	●
	19.000-AS-B7	19.000	10.7	6	B7	S	A	●
	20.000-AS-B7	20.000	10.7	6	B7	S	A	●
	20.001-AS-B8	20.001	12.9	8	B8	S	A	●
	21.000-AS-B8	21.000	12.9	8	B8	S	A	●
	22.000-AS-B8	22.000	12.9	8	B8	S	A	●
	23.000-AS-B8	23.000	12.9	8	B8	S	A	●
	24.000-AS-B8	24.000	12.9	8	B8	S	A	●
	25.000-AS-B8	25.000	12.9	8	B8	S	A	●
	26.000-AS-B9	26.000	12.9	8	B9	S	A	●
	27.000-AS-B9	27.000	12.9	8	B9	S	A	●
	28.000-AS-B9	28.000	12.9	8	B9	S	A	●
	29.000-AS-B9	29.000	12.9	8	B9	S	A	●
	30.000-AS-B9	30.000	12.9	8	B9	S	A	●
	31.000-AS-B9	31.000	12.9	8	B9	S	A	●
	32.000-AS-B9	32.000	12.9	8	B9	S	A	●

- NOF: Number of flutes
- SSC: Seat size code

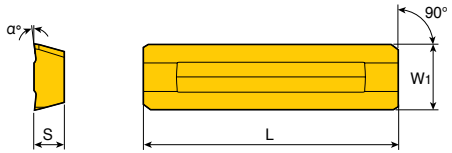
●: Standard items

ADVANCE CUTTING TaeguTec

TB Blade

TBREAM

Indexable blades



• For H6 hole tolerance

Insert	Designation	Dimension (mm)				SSC	Lead type	Grades	
		Rake angle (α°)	L	W1	S			TT5030	TT5050
	TB- 1B06	6	15.5	2.8	1.5	1	B	●	
	1B12	12	15.5	2.8	1.5	1	B	●	
	1A06	6	15.5	2.8	1.5	1	A		●
	1B06	6	15.5	2.8	1.5	1	B		●
	2B06	6	15.5	3.6	1.5	2	B	●	
	2B12	12	15.5	3.6	1.5	2	B	●	
	2A06	6	15.5	3.6	1.5	2	A		●
	2B06	6	15.5	3.6	1.5	2	B		●
	3B06	6	17.0	4.4	2.0	3	B	●	
	3B12	12	17.0	4.4	2.0	3	B	●	
	3A06	6	17.0	4.4	2.0	3	A		●
	3B06	6	17.0	4.4	2.0	3	B		●
	4B06	6	22.5	6.6	3.0	4	B	●	
	4B12	12	22.5	6.6	3.0	4	B	●	
	4A06	6	22.5	6.6	3.0	4	A		●
	4B06	6	22.5	6.6	3.0	4	B		●

D230

• Grades application
-TT5030: TiAlN coating for steel(P) and stainless steel(M) -TT5050: TiCN + TiN coating for cast iron(K)

• SSC: Seat size code

●: Standard items

TaeguTec

Recommended Cutting Conditions

TSREAM

Machining data for TS-REAM

ISO	Material		Condition	Tensile strength (N/mm^2)	Hardness HB	Material No.	Cutting speed Vc (m/min)
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	420	125	1	120-250
		>=0.25%C	Annealed	650	190	2	120-250
		<0.55%C	Quenched and tempered	850	250	3	120-250
		>=0.55%C	Annealed	750	220	4	
			Quenched and tempered	1000	300	5	
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	600	200	6	120-250
			Quenched and tempered	930	275	7	120-250
				1000	300	8	120-250
				1200	350	9	120-250
	High alloy steel, cast steel and tool steel		Annealed	680	200	10	120-250
			Quenched and tempered	1100	325	11	120-250
M	Stainless steel and cast steel		Ferritic / martensitic	680	200	12	60-120
			Martensitic	820	240	13	60-120
			Austenitic	600	180	14	60-120
K	Gray cast iron (GG)		Ferritic		160	15	60-120
			Pearlitic		250	16	60-120
	Cast iron nodular (GGG)		Ferritic		180	17	60-120
			Pearlitic		260	18	60-120
	Malleable cast iron		Ferritic		130	19	60-120
			Pearlitic		230	20	60-120
N	Aluminum - Wrought alloy		Not cureable		60	21	250-500
			Cured		100	22	250-500
	Aluminum-cast, alloyed	<=12% Si	Not cureable		75	23	250-500
			Cured		90	24	250-500
		>12% Si	High temp.		130	25	
	Copper alloys	>1% Pb	Free cutting		110	26	
			Brass		90	27	
			Electrolitic copper		100	28	
	Non-metallic		Duroplastics, fiber plastics			29	
			Hard rubber			30	
S	High temp. alloys	Fe based	Annealed		200	31	
			Cured		280	32	
		Ni or Co based	Annealed		250	33	25-50
			Cured		350	34	25-50
			Cast		320	35	
	Titanium, Ti alloys			Rm 400		36	30-80
			Alpha+beta alloys cured	Rm 1050		37	30-80
H	Hardened steel		Hardened		55HRC	38	25-60
			Hardened		60HRC	39	
	Chilled cast iron		Cast		400	40	
	Cast iron nodular		Hardened		55HRC	41	

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

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

Feed (mm/rev) vs. reamer diameter			
Ø3.0 - Ø5.0	Ø6.0 - Ø7.0	Ø8.0 - Ø10.0	Ø10.5 - Ø12.0
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60
0.10-0.40	0.15-0.70	0.50-1.40	0.80-1.60

Recommended Cutting Conditions

TMREAM

Machining data for TM-REAM - Through hole

ISO	Material		Condition	Material No.	Through hole		Interrupted through Hole	
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	1	TT9030	BL	TT9030	BL
		>=0.25%C	Annealed	2	Vc = 80 - 200		Vc = 60 - 120	
		<0.55%C	Quenched and tempered	3	B4 - B6	fz = 0.08 - 0.21	B4 - B6	fz = 0.08 - 0.21
		>=0.55%C	Annealed	4				
			Quenched and tempered	5	B7 - B9	fz = 0.12 - 0.27	B7 - B9	fz = 0.09 - 0.21
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	6	TT9030	BL	TT9030	BL
			Quenched and tempered	7	Vc = 80 - 200		Vc = 60 - 120	
				8	B4 - B6	fz = 0.08 - 0.21	B4 - B6	fz = 0.08 - 0.21
				9	B7 - B9	fz = 0.12 - 0.27	B7 - B9	fz = 0.09 - 0.21
	High alloy steel, cast steel and tool steel		Annealed	10	TT9030	BL	TT9030	BL
					Vc = 20 - 60		Vc = 20 - 60	
			Quenched and tempered	11	B4 - B6	fz = 0.05 - 0.13	B4 - B6	fz = 0.04 - 0.11
					B7 - B9	fz = 0.07 - 0.17	B7 - B9	fz = 0.05 - 0.14
M	Stainless steel and cast steel		Ferritic / martensitic	12	TT9030	BL	TT9030	BL
					Vc = 20 - 40		Vc = 20 - 40	
			Martensitic	13	B4 - B6	fz = 0.05 - 0.13	B4 - B6	fz = 0.04 - 0.11
			Austenitic	14	B7 - B9	fz = 0.07 - 0.17	B7 - B9	fz = 0.05 - 0.14
K	Gray cast iron (GG)		Ferritic	15	TT9030	BL	TT9030	BL
					Vc = 120 - 220		Vc = 80 - 200	
			Pearlitic	16	B4 - B6	fz = 0.08 - 0.18	B4 - B6	fz = 0.05 - 0.13
					B7 - B9	fz = 0.10 - 0.24	B7 - B9	fz = 0.07 - 0.17
	Cast iron nodular (GGG)		Ferritic	17	TT9030	AS or BL	TT9030	BL
					Vc = 160 - 280		Vc = 150 - 250	
			Pearlitic	18	B4 - B6	fz = 0.11 - 0.20	B4 - B6	fz = 0.06 - 0.15
					B7 - B9	fz = 0.11 - 0.24	B7 - B9	fz = 0.08 - 0.19
	Malleable cast iron		Ferritic	19	TT9030	AS or BL	TT9030	BL
					Vc = 100 - 220		Vc = 100 - 220	
			Pearlitic	20	B4 - B6	fz = 0.11 - 0.20	B4 - B6	fz = 0.06 - 0.15
					B7 - B9	fz = 0.11 - 0.24	B7 - B9	fz = 0.08 - 0.20

• 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

TMREAM

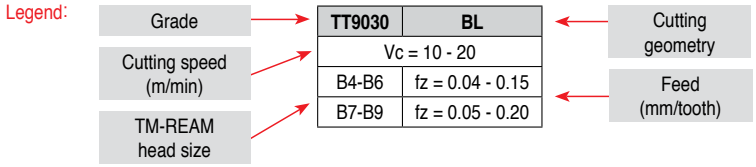
Machining data for TM-REAM - Through hole

ISO	Material		Condition	Material No.	Through hole		Interrupted through Hole	
N	Aluminum - Wrought alloy		Not cureable	21	B7 - B9	BL or GS	TTAL10	BL
			Cured	22	Vc = 150 - 400		Vc = 150 - 400	
	Aluminum-cast, alloyed	<=12% Si	Not cureable	23	B4 - B6	fz = 0.08 - 0.16	B4 - B6	fz = 0.08 - 0.16
			Cured	24				
		>12% Si	High temp.	25	B7 - B9	fz = 0.10 - 0.20	B7 - B9	fz = 0.10 - 0.20
	Copper alloys	>1% Pb	Free cutting	26	TT9030	BL	TT9030	BL
					Vc = 50 - 200		Vc = 50 - 200	
			Brass	27	B4 - B6	fz = 0.08 - 0.18	B4 - B6	fz = 0.05 - 0.13
			Electrolitic copper	28	B7 - B9	fz = 0.10 - 0.23	B7 - B9	fz = 0.07 - 0.16
	Non-metallic		Duroplastics, fiber plastics	29	TT9030	AS	TT9030	AS
					Vc = 25 - 80		Vc = 25 - 80	
			Hard rubber	30	B4 - B6	fz = 0.05 - 0.10	B4 - B6	fz = 0.05 - 0.10
					B7 - B9	fz = 0.10 - 0.20	B7 - B9	fz = 0.10 - 0.20
S	High temp. alloys	Fe based	Annealed	31	TT9030	L *	TT9030	L *
			Cured	32	Vc = 15 - 50		Vc = 15 - 50	
		Ni or Co based	Annealed	33				
			Cured	34	B4 - B6	fz = 0.04 - 0.10	B4 - B6	fz = 0.03 - 0.08
			Cast	35				
	Titanium, Ti alloys			36	B7 - B9	fz = 0.05 - 0.13	B4 - B6	fz = 0.04 - 0.11
			Alpha+beta alloys cured	37				
H	Hardened steel		Hardened	38	TT9030	BL	TT9030	BL
			Hardened	39	Vc = 25 - 50		Vc = 25 - 50	
	Chilled cast iron		Cast	40	B4 - B6	fz = 0.06 - 0.15	B4 - B6	fz = 0.06 - 0.15
	Cast iron nodular		Hardened	41	B7 - B9	fz = 0.10 - 0.20	B7 - B9	fz = 0.10 - 0.20

* Standard edge geometries are not suitable for reaming titanium and high temperature alloys.
In order to choose a proper geometry, please ask for our recommendations.

- The given cutting data recommendations refer to the short holders (3xD effective reaming overhang).
For longer holders, the cutting speed to be reduced proportionally.
- For relatively large leading angles (spot-facing geometries), the feed to be reduced up to 30%.
- All the given cutting data recommendations refer to the machines with spindle through coolant supply.

Legend:



Recommended Cutting Conditions

TMREAM

Machining data for TM-REAM - Blind hole

ISO	Material		Condition	Material No.	Blind hole		Interrupted blind hole	
P	Non-alloy steel, cast steel, free cutting steel	<0.25%C	Annealed	1	TT9030	AS	TT9030	AS
		>=0.25%C	Annealed	2	Vc = 60-160		Vc = 60 - 120	
		<0.55%C	Quenched and tempered	3	B4 - B6	fz = 0.06 - 0.18	B4 - B6	fz = 0.05 - 0.15
		>=0.55%C	Annealed	4				
			Quenched and tempered	5	B7 - B9	fz = 0.08 - 0.20	B7 - B9	fz = 0.07 - 0.16
	Low alloy steel and cast steel (Less than 5% of alloying elements)		Annealed	6	TT9030	AS	TT9030	AS
			Quenched and tempered	7	Vc = 60-160		Vc = 60 - 120	
				8	B4 - B6	fz = 0.06 - 0.18	B4 - B6	fz = 0.05 - 0.15
				9	B7 - B9	fz = 0.08 - 0.20	B7 - B9	fz = 0.07 - 0.16
	High alloy steel, cast steel and tool steel		Annealed	10	TT9030	AS	TT9030	AS
					Vc = 20 - 60		Vc = 20 - 60	
			Quenched and tempered	11	B4 - B6	fz = 0.04 - 0.10	B4 - B6	fz = 0.03 - 0.08
					B7 - B9	fz = 0.05 - 0.13	B7 - B9	fz = 0.04 - 0.10
M	Stainless steel and cast steel		Ferritic / martensitic	12	TT9030	AS	TT9030	AS
					Vc = 20 - 40		Vc = 20 - 40	
			Martensitic	13	B4 - B6	fz = 0.04 - 0.10	B4 - B6	fz = 0.03 - 0.08
			Austenitic	14	B7 - B9	fz = 0.05 - 0.13	B7 - B9	fz = 0.05 - 0.10
K	Gray cast iron (GG)		Ferritic	15	TT9030	AS	TT9030	AS
					Vc = 80 - 200		Vc = 60 - 120	
			Pearlitic	16	B4 - B6	fz = 0.06 - 0.18	B4 - B6	fz = 0.05 - 0.13
					B7 - B9	fz = 0.08 - 0.23	B7 - B9	fz = 0.08 - 0.18
	Cast iron nodular (GGG)		Ferritic	17	TT9030	AS	TT9030	AS
					Vc = 160 - 280		Vc = 160 - 240	
			Pearlitic	18	B4 - B6	fz = 0.06 - 0.18	B4 - B6	fz = 0.06 - 0.16
					B7 - B9	fz = 0.08 - 0.23	B7 - B9	fz = 0.08 - 0.18
	Malleable cast iron		Ferritic	19	TT9030	AS	TT9030	AS
					Vc = 100 - 220		Vc = 100 - 220	
			Pearlitic	20	B4 - B6	fz = 0.06 - 0.18	B4 - B6	fz = 0.05 - 0.15
					B7 - B9	fz = 0.08 - 0.23	B7 - B9	fz = 0.08 - 0.20

• 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

TMREAM

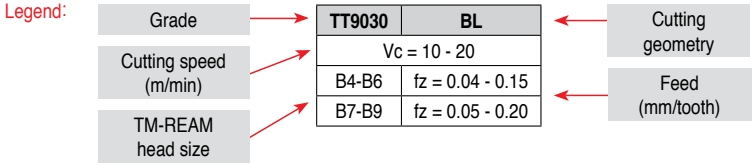
Machining data for TM-REAM - Blind hole

ISO	Material		Condition	Material No.	Blind hole		Interrupted blind hole	
N	Aluminum - Wrought alloy		Not cureable	21	TTAL10	GS or AS	TTAL10	GS or AS
			Cured	22	Vc = 150 - 400		Vc = 150 - 300	
	Aluminum-cast, alloyed	<=12% Si	Not cureable	23	B4 - B6	fz = 0.08 - 0.16	B4 - B6	fz = 0.07 - 0.15
			Cured	24				
		>12% Si	High temp.	25	B7 - B9	fz = 0.11 - 0.20	B7 - B9	fz = 0.11 - 0.20
	Copper alloys	>1% Pb	Free cutting	26	TT9030	AS	TT9030	AS
					Vc = 50 - 200		Vc = 50 - 200	
			Brass	27	B4 - B6	fz = 0.08 - 0.16	B4 - B6	fz = 0.08 - 0.16
			Electrolitic copper	28	B7 - B9	fz = 0.10 - 0.20	B7 - B9	fz = 0.10 - 0.20
	Non-metallic		Duroplastics, fiber plastics	29	TT9030	AS	TT9030	AS
					Vc = 25 - 80		Vc = 25 - 80	
			Hard rubber	30	B4 - B6	fz = 0.05 - 0.10	B4 - B6	fz = 0.05 - 0.10
					B7 - B9	fz = 0.10 - 0.20	B7 - B9	fz = 0.10 - 0.20
S	High temp. alloys	Fe based	Annealed	31	TT9030	L *	TT9030	L *
			Cured	32	Vc = 15 - 50		Vc = 15 - 50	
		Ni or Co based	Annealed	33				
			Cured	34	B4 - B6	fz = 0.03 - 0.08	B4 - B6	fz = 0.03 - 0.08
			Cast	35				
	Titanium, Ti alloys			36	B7 - B9	fz = 0.04 - 0.11	B7 - B9	fz = 0.04 - 0.11
			Alpha+beta alloys cured	37				
H	Hardened steel		Hardened	38	TT9030	AS	TT9030	AS
			Hardened	39	Vc = 25 - 50		Vc = 25 - 50	
	Chilled cast iron		Cast	40	B4 - B6	fz = 0.05 - 0.13	B4 - B6	fz = 0.05 - 0.13
	Cast iron nodular		Hardened	41	B7 - B9	fz = 0.10 - 0.20	B7 - B9	fz = 0.10 - 0.20

* Standard edge geometries are not suitable for reaming titanium and high temperature alloys.
In order to choose a proper geometry, please ask for our recommendations.

- The given cutting data recommendations refer to the short holders (3xD effective reaming overhang). For longer holders, the cutting speed to be reduced proportionally.
- For relatively large leading angles (spot-facing geometries), the feed to be reduced up to 30%.
- All the given cutting data recommendations refer to the machines with spindle through coolant supply.

Legend:



Recommended Cutting Conditions

TBREAM

Machining data for TB-REAM

ISO	Material	Material No.	Lead A (15°/3°) (Reaming allowance: 0.1 ~ 0.3) Feed (mm/rev)	Rake (°)	Cutting speed Vc (m/min) Carbide	Coated carbide	Cermet	PCD	CBN
P	Non-alloy steel and cast steel, free cutting steel	1 - 5	0.1-0.4	6	40-60	60-80	110-160		
P	Low alloy steel and cast steel (Less than 5% of alloying elements)	6 - 9	0.1-0.4	6	20-40	40-60	110-160		
P	High alloyed steel, cast steel and tool steel	10 - 11	0.1-0.4	6	20-40	20-60	20-60		
M	Stainless steel, cast steel	12 - 14	0.1-0.3	12	20-40	40-60	20-60		
K	Grey cast iron (GG)	15 - 16	0.1-0.3	0 / 6	40-60	60-100			Please ask
K	Cast iron nodular (GGG)	17 - 18	0.1-0.3	0 / 6	40-60	60-100			
K	Malleable cast iron	19 - 20	0.1-0.3	0 / 6	40-60	60-100			
N	Aluminum wrought alloy	21 - 22						Please ask	
N	Aluminum-cast,alloyed	23 - 25							
N	Copper alloys	26 - 28							
N	Non-metallic	29 - 30							

ISO	Material	Material No.	Lead C (75°) (Reaming allowance: 0.2 ~ 0.4) Feed (mm/rev)	Rake (°)	Cutting speed Vc (m/min) Carbide	Coated carbide	Cermet	PCD	CBN
P	Non-alloy steel and cast steel, free cutting steel	1 - 5							
P	Low alloy steel and cast steel (Less than 5% of alloying elements)	6 - 9							
P	High alloyed steel, cast steel and tool steel	10 - 11							
M	Stainless steel, cast steel	12 - 14							
K	Grey cast iron (GG)	15 - 16							Please ask
K	Cast iron nodular (GGG)	17 - 18							
K	Malleable cast iron	19 - 20							
N	Aluminum wrought alloy	21 - 22	0.15-0.3	12	150-250			Please ask	
N	Aluminum-cast,alloyed	23 - 25	0.15-0.3	12	150-250				
N	Copper alloys	26 - 28							
N	Non-metallic	29 - 30							

- The cutting conditions in the table below should be used to start a new application. Optimal conditions for a specific application should be evaluated by examining the results and changing the machining conditions accordingly.

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

Steel Stainless steel Cast iron Nonferrous

Recommended Cutting Conditions

TBREAM

Machining data for TB-REAM

			Lead B (30°/3°) (Reaming allowance: 0.1 ~ 0.3)						
			Feed (mm/rev)	Rake (°)	Cutting speed Vc (m/min)				
ISO	Material	Material No.			Carbide	Coated carbide	Cermet	PCD	CBN
P	Non-alloy steel and cast steel, free cutting steel	1 - 5	0.1-0.4	6	60-80	80-120	110-160		
P	Low alloy steel and cast steel (Less than 5% of alloying elements)	6 - 9	0.1-0.4	6	60-80	80-120	110-160		
P	High alloyed steel, cast steel and tool steel	10 - 11	0.1-0.4	6	40-60	40-80	40-80		
M	Stainless steel, cast steel	12 - 14	0.1-0.3	12	40-60	60-80	60-80		
K	Grey cast iron (GG)	15 - 16	0.1-0.3	0 / 6	60-80	80-120			Please ask
K	Cast iron nodular (GGG)	17 - 18	0.1-0.3	0 / 6	60-80	80-120			
K	Malleable cast iron	19 - 20	0.1-0.3	0 / 6	60-80	80-120			
N	Aluminum wrought alloy	21 - 22		12	160-200			Please ask	
N	Aluminum-cast,alloyed	23 - 25		12	160-200				
N	Copper alloys	26 - 28		0	80-100				
N	Non-metallic	29 - 30		0	10-70				

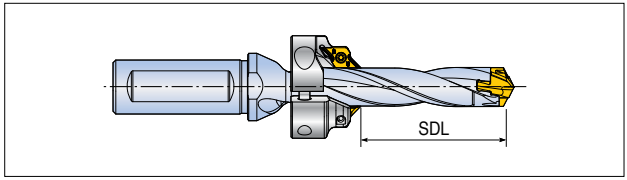
			Lead D (30°/3°) (Reaming allowance: 0.1 ~ 0.2)						
			Feed (mm/rev)	Rake (°)	Cutting speed Vc (m/min)				
ISO	Material	Material No.			Carbide	Coated carbide	Cermet	PCD	CBN
P	Non-alloy steel and cast steel, free cutting steel	1 - 5	0.1-0.4	6	60-80	80-120	110-160		
P	Low alloy steel and cast steel (Less than 5% of alloying elements)	6 - 9	0.1-0.4	6	60-80	80-120	110-160		
P	High alloyed steel, cast steel and tool steel	10 - 11	0.1-0.4	6	40-60	40-80	40-80		
M	Stainless steel, cast steel	12 - 14	0.1-0.3	12	40-60	60-80	60-80		
K	Grey cast iron (GG)	15 - 16	0.1-0.3	0 / 6	60-80	80-120			Please ask
K	Cast iron nodular (GGG)	17 - 18	0.1-0.3	0 / 6	60-80	80-120			
K	Malleable cast iron	19 - 20	0.1-0.3	0 / 6	60-80	80-120			
N	Aluminum wrought alloy	21 - 22		12	110-200			Please ask	
N	Aluminum-cast,alloyed	23 - 25		12	160-200				
N	Copper alloys	26 - 28		0	80-100				
N	Non-metallic	29 - 30							

- The cutting conditions in the table below should be used to start a new application. Optimal conditions for a specific application should be evaluated by examining the results and changing the machining conditions accordingly.

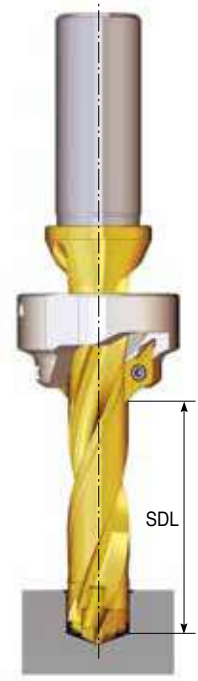
- For more information of material groups, see the materials & grades "material conversion table"

Steel Stainless steel Cast iron Nonferrous

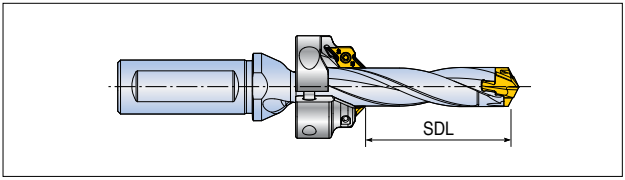
Chamfering ring designation - DRILL-RUSH



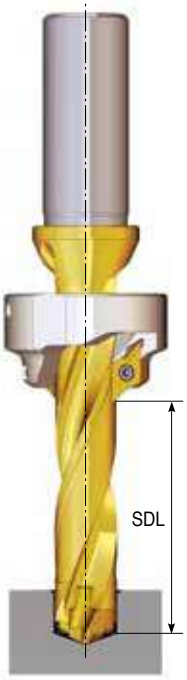
	Designation	CFR designation	SDL	
			min	max
3D	TCD 130-134-16T3/S0-3D	CFR D130-A45	19	19
	135-139-16T3/S0-3D	CFR D135-A45	19	20
	140-144-16T3/S0-3D	CFR D140-A45	21	22
	145-149-16T3/S0-3D	CFR D145-A45	22	23
	150-159-20T3/S0-3D	CFR D150-A45	23	23
	160-169-20T3/S0-3D	CFR D160-A45	24	25
	170-179-20T3/S0-3D	CFR D170-A45	26	28
	180-189-25T2/S0-3D	CFR D180-A45	27	30
	190-199-25T2/S0-3D	CFR D190-A45	29	33
	200-209-25T2/S0-3D	CFR D200-A45	30	36
	210-219-25T2/S0-3D	CFR D210-A45	32	39
	220-229-25T2/S0-3D	CFR D220-A45	33	42
	230-239-32T2/S0-3D	CFR D230-A45	35	45
	240-249-32T2/S0-3D	CFR D240-A45	36	48
	250-259-32T2/S0-3D	CFR D250-A45	38	51
5D	TCD 100-104-16T3/S0-5D	CFR D100-A45	28	28
	105-109-16T3/S0-5D	CFR D105-A45	29	30
	110-114-16T3/S0-5D	CFR D110-A45	31	33
	115-119-16T3/S0-5D	CFR D115-A45	32	35
	120-124-16T3/S0-5D	CFR D120-A45	33	45
	125-129-16T3/S0-5D	CFR D125-A45	34	40
	130-134-16T3/S0-5D	CFR D130-A45	36	43
	135-139-16T3/S0-5D	CFR D135-A45	37	43
	140-144-16T3/S0-5D	CFR D140-A45	38	48
	145-149-16T3/S0-5D	CFR D145-A45	39	48
	150-159-20T3/S0-5D	CFR D150-A45	41	53
	160-169-20T3/S0-5D	CFR D160-A45	43	58
	170-179-20T3/S0-5D	CFR D170-A45	46	63
	180-189-25T2/S0-5D	CFR D180-A45	48	68
	190-199-25T2/S0-5D	CFR D190-A45	51	73
	200-209-25T2/S0-5D	CFR D200-A45	53	78
	210-219-25T2/S0-5D	CFR D210-A45	56	79
	220-229-25T2/S0-5D	CFR D220-A45	58	84
	230-239-32T2/S0-5D	CFR D230-A45	61	89
	240-249-32T2/S0-5D	CFR D240-A45	63	94
	250-259-32T2/S0-5D	CFR D250-A45	66	99



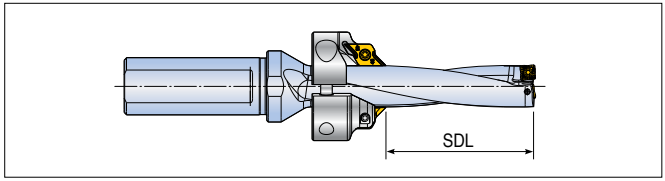
Chamfering ring designation - DRILL-RUSH



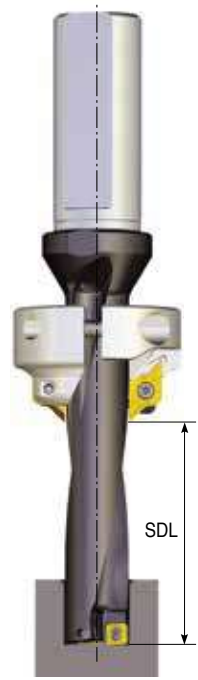
	Designation	CFR designation	SDL	
			min	max
8D	TCD 100-104-16T3/S0-8D	CFR D100-A45	45	58
	105-109-16T3/S0-8D	CFR D105-A45	49	62
	110-114-16T3/S0-8D	CFR D110-A45	49	66
	115-119-16T3/S0-8D	CFR D115-A45	53	70
	120-124-16T3/S0-8D	CFR D120-A45	53	74
	125-129-16T3/S0-8D	CFR D125-A45	57	78
	130-134-16T3/S0-8D	CFR D130-A45	57	82
	135-139-16T3/S0-8D	CFR D135-A45	61	84
	140-144-16T3/S0-8D	CFR D140-A45	61	88
	145-149-16T3/S0-8D	CFR D145-A45	65	92
	150-159-20T3/S0-8D	CFR D150-A45	65	96
	160-169-20T3/S0-8D	CFR D160-A45	69	103
	170-179-20T3/S0-8D	CFR D170-A45	73	111
	180-189-25T2/S0-8D	CFR D180-A45	77	118
	190-199-25T2/S0-8D	CFR D190-A45	81	126
	200-209-25T2/S0-8D	CFR D200-A45	85	134
	210-219-25T2/S0-8D	CFR D210-A45	89	142
	220-229-25T2/S0-8D	CFR D220-A45	93	150
	230-239-32T2/S0-8D	CFR D230-A45	97	158
	240-249-32T2/S0-8D	CFR D240-A45	101	166
	250-259-32T2/S0-8D	CFR D250-A45	105	174
12D	TCD 120-124-16S0-12D	CFR D120-A45	87	121
	125-129-16S0-12D	CFR D125-A45	90	127
	130-134-16S0-12D	CFR D130-A45	93	133
	135-139-16S0-12D	CFR D135-A45	96	137
	140-144-16S0-12D	CFR D140-A45	99	143
	145-149-16S0-12D	CFR D145-A45	102	149
	150-159-20S0-12D	CFR D150-A45	105	155
	160-169-20S0-12D	CFR D160-A45	111	166
	170-179-20S0-12D	CFR D170-A45	117	178
	180-189-25S0-12D	CFR D180-A45	123	189
	190-199-25S0-12D	CFR D190-A45	129	201
	200-209-25S0-12D	CFR D200-A45	135	213
	210-219-25S0-12D	CFR D210-A45	141	225
	220-229-25S0-12D	CFR D220-A45	147	237



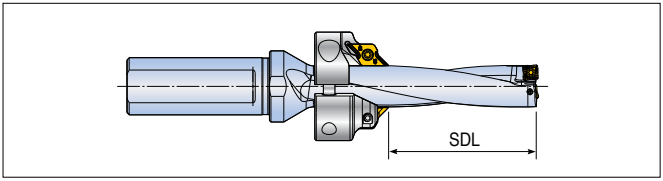
Chamfering ring designation - TOP-DRILL and T-DRILL



	TOP-DRILL	T-DRILL	CFR designation	SDL	
				min	max
3D	TOP -	TDR 3125-20T2-05	CFR D125-A45	16	16
	-	3130-20T2-05	CFR D130-A45	16	16
	-	3135-20T2-05	CFR D135-A45	17	18
	3140-20T2-05	3140-20T2-05	CFR D140-A45	17	18
	3145-20T2-05	3145-20T2-05	CFR D145-A45	18	19
	3150-20T2-05	3150-20T2-05	CFR D150-A45	18	19
	3155-20T2-05	3155-25T2-06	CFR D160-A45	19	21
	3160-20T2-05	3160-25T2-06	CFR D160-A45	19	21
	3165-25T2-06	3165-25T2-06	CFR D170-A45	21	24
	3170-25T2-06	3170-25T2-06	CFR D170-A45	22	24
	3175-25T2-06	3175-25T2-06	CFR D180-A45	23	27
	3180-25T2-06	3180-25T2-06	CFR D180-A45	23	26
	3185-25T2-06	3185-25T2-06	CFR D180-A45	24	29
	3190-25T2-06	3190-25T2-06	CFR D190-A45	25	29
	3195-25T2-07	3195-25T2-06	CFR D190-A45	25	32
	3200-25T2-07	3200-25T2-06	CFR D200-A45	26	32
	3205-25T2-07	3205-25T2-06	CFR D200-A45	27	35
	3210-25T2-07	3210-25T2-06	CFR D210-A45	27	35
	3215-25T2-07	3215-25T2-07	CFR D210-A45	28	38
	3220-25T2-07	3220-25T2-07	CFR D220-A45	29	38
	3225-25T2-08	3225-25T2-07	CFR D220-A45	29	41
	3230-25T2-08	3230-25T2-07	CFR D230-A45	30	41
	3235-25T2-08	3235-25T2-07	CFR D230-A45	31	44
	3240-25T2-08	3240-25T2-07	CFR D240-A45	31	44
	3245-25T2-08	3245-25T2-07	CFR D240-A45	32	47
	3250-25T2-08	3250-25T2-07	CFR D250-A45	33	47



Chamfering ring designation - TOP-DRILL and T-DRILL

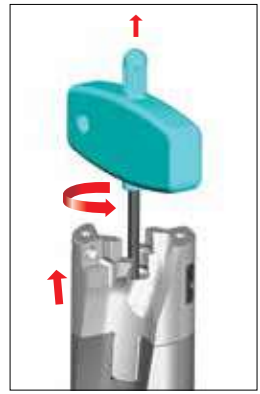


	TOP-DRILL		T-DRILL		CFR designation	SDL	
						min	max
4D	TOP	-	TDR	4125-20T2-05	CFR D125-A45	25	26
		-		4130-20T2-05	CFR D130-A45	25	26
		-		4135-20T2-05	CFR D135-A45	27	30
		4140-20T2-05		4140-20T2-05	CFR D140-A45	28	30
		4145-20T2-05		4145-20T2-05	CFR D145-A45	29	34
		4150-20T2-05		4150-20T2-05	CFR D150-A45	30	34
		4155-20T2-05		4155-25T2-06	CFR D160-A45	31	37
		4160-20T2-05		4160-25T2-06	CFR D160-A45	32	37
		4165-25T2-06		4165-25T2-06	CFR D170-A45	33	41
		4170-25T2-06		4170-25T2-06	CFR D170-A45	34	41
		4175-25T2-06		4175-25T2-06	CFR D180-A45	35	45
		4180-25T2-06		4180-25T2-06	CFR D180-A45	36	44
		4185-25T2-06		4185-25T2-06	CFR D180-A45	37	48
		4190-25T2-06		4190-25T2-06	CFR D190-A45	38	48
		4195-25T2-07		4195-25T2-06	CFR D190-A45	39	52
		4200-25T2-07		4200-25T2-06	CFR D200-A45	40	52
		4205-25T2-07		4205-25T2-06	CFR D200-A45	41	56
		4210-25T2-07		4210-25T2-06	CFR D210-A45	42	56
		4215-25T2-07		4215-25T2-07	CFR D210-A45	43	60
		4220-25T2-07		4220-25T2-07	CFR D220-A45	44	60
		4225-25T2-08		4225-25T2-07	CFR D220-A45	45	64
		4230-25T2-08		4230-25T2-07	CFR D230-A45	46	64
		4235-25T2-08		4235-25T2-07	CFR D230-A45	47	68
		4240-25T2-08		4240-25T2-07	CFR D240-A45	48	68
		4245-25T2-08		4245-25T2-07	CFR D240-A45	49	72
		4250-25T2-08		4250-25T2-07	CFR D250-A45	50	72

Modular head replacement instructions

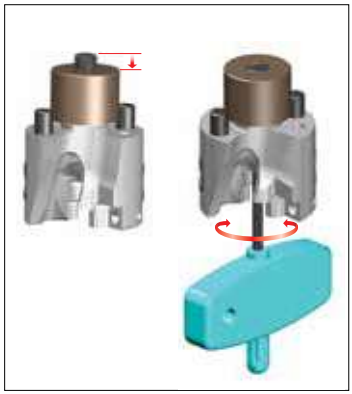
1. Remove both outer inserts, then remove the center drill head.
   (When clamping, go in the reverse order)

2. Use a wrench to turn the screw counter-clock-wise to remove the modular head.



3. Insert the setting gauge into the bottom of the disconnected modular head.

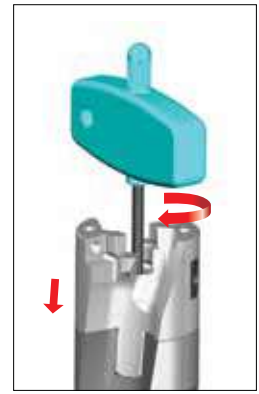
4. Rotate the screw to adjust to the same height with the setting gauge.



Setting gauge

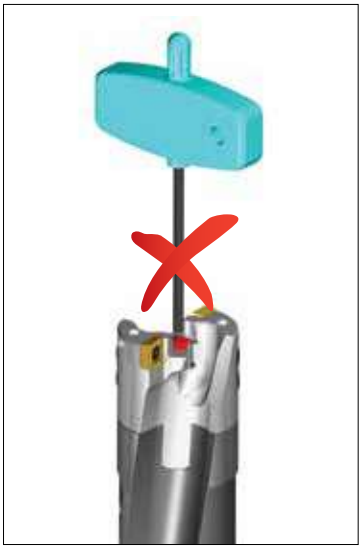
Drill dia.	Designation
D26-D29	SG TNDH D26-29-TP
D30-D35	SG TNDH D30-35-TP
D36-D39	SG TNDH D36-39-TP
D40-D43	SG TNDH D40-43-TP
D44-D50	SG TNDH D44-50-TP

5. Remove the height adjusted modular head from the setting gauge and attach it to the holder.



Modular head disassembly in the event of center drill damage

If the modular head cannot be unclamped due to center drill damage, insert the wrench into the rear section of the shank. Then, turn it clock-wise to disassemble the modular head.



Damaged center drill

• Disassembling wrench and handle are included with the modular drill holder. (MDB Dxx/xx…)

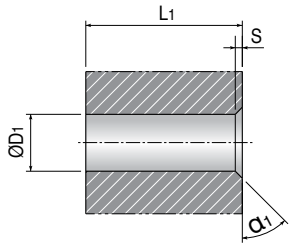
Hole tolerance

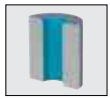
Diameter D(mm)		Tolerance (μm)															
>D	≤D	B10	C9	C10	D8	D9	D10	E7	E8	E9	F6	F7	F8	G6	G7	H6	H7
–	3	+180 +140	+85 +60	+100 +60	+34 +20	+45 +20	+60 +20	+24 +14	+28 +14	+39 +14	+12 +6	+16 +6	+20 +6	+8 +2	+12 +2	+6 0	+10 0
3	6	+180 +140	+100 +70	+118 +70	+48 +30	+60 +30	+78 +30	+32 +20	+38 +20	+50 +20	+18 +10	+22 +10	+28 +10	+12 +4	+16 +4	+8 0	+12 0
6	10	+208 +150	+116 +80	+138 +80	+62 +40	+76 +40	+98 +40	+40 +25	+47 +25	+61 +25	+22 +13	+28 +13	+35 +13	+14 +5	+20 +5	+9 0	+15 0
10	14	+220 +150	+138 +95	+165 +95	+77 +50	+93 +50	+120 +50	+50 +32	+59 +32	+75 +32	+27 +16	+34 +16	+43 +16	+17 +6	+24 +6	+11 0	+18 0
14	18																
18	24	+244 +160	+162 +110	+194 +110	+98 +65	+117 +65	+149 +65	+61 +40	+73 +40	+92 +40	+33 +20	+41 +20	+53 +20	+20 +7	+28 +7	+13 0	+21 0
24	30																
30	40	+270 +170	+182 +120	+220 +120	+119 +80	+142 +80	+180 +80	+75 +50	+89 +50	+112 +50	+41 +25	+50 +25	+64 +25	+25 +9	+34 +9	+16 0	+25 0
40	50	+280 +180	+192 +130	+230 +130													
50	65	+310 +190	+214 +140	+260 +140	+146 +100	+174 +100	+220 +146	+90 +60	+106 +60	+134 +60	+49 +30	+60 +30	+76 +30	+29 +10	+40 +10	+19 0	+30 0
65	80	+320 +200	+224 +150	+270 +150													

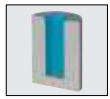
Hole tolerance

Tolerance (μm)																	
H8	H9	H10	JS6	JS7	K6	K7	M6	M7	N6	N7	P6	P7	R7	S7	T7	U7	X7
+14 0	+25 0	+40 0	±3	±5	0 -6	0 -10	-2 -8	-2 -12	-4 -10	-4 -14	-6 -12	-6 -16	-10 -20	-14 -24	–	-18 -28	-20 -30
+18 0	+30 0	+48 0	±4	±6	+2 -6	+3 -9	-1 -9	0 -12	-5 -13	-4 -16	-9 -17	-8 -20	-11 -23	-15 -27	–	-19 -31	-24 -36
+22 0	+36 0	+58 0	±4.5	±7.5	+2 -7	+5 -10	-3 -12	0 -15	-7 -16	-4 -19	-12 -21	-9 -24	-13 -28	-17 -32	–	-22 -37	-28 -43
+27 0	+43 0	+70 0	±5.5	±9	+2 -9	+6 -12	-4 -15	0 -18	-9 -20	-5 -23	-15 -26	-11 -29	-16 -34	-21 -39	–	-26 -44	-33 -51 -38 -56
+33 0	+52 0	+84 0	±6.5	±10.5	+2 -11	+6 -15	-4 -17	0 -21	-11 -24	-7 -28	-18 -31	-14 -35	-20 -41	-27 -48	– -33 -54	-33 -54 -40 -61	-46 -67 -56 -77
+39 0	+62 0	+100 0	±8	±12.5	+3 -13	+7 -18	-4 -20	0 -25	-12 -28	-8 -33	-21 -37	-17 -42	-25 -50	-34 -59	-39 -64 -45 -70	-51 -76 -61 -86	–
+46 0	+74 0	+120 0	±9.5	±15	+4 -15	+9 -21	-5 -24	0 -30	-14 -33	-9 -39	-26 -45	-21 -51	-30 -60 -32 -62	-42 -72 -48 -78	-55 -85 -64 -94	-76 -106 -91 -121	–

Specific dimensions





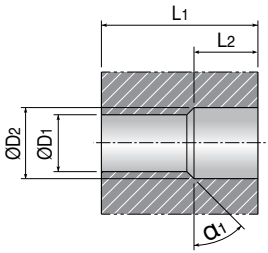


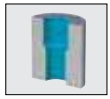
Through ☐ Blind ☐

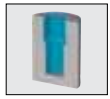
ØD1 _____ L1 _____

α1 _____ S _____

•Hole tolerance _____







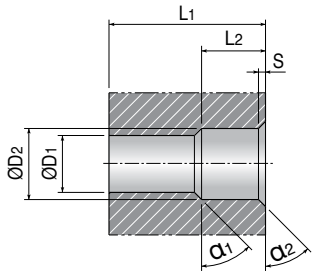
Through ☐ Blind ☐

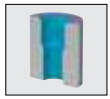
ØD1 _____ ØD2 _____

L1 _____ L2 _____

α1 _____

•Hole tolerance _____





Through ☐ Blind ☐

ØD1 _____ ØD2 _____

L1 _____ L2 _____

α1 _____ α2 _____

S _____

•Hole tolerance _____

Comment

Drill type

•TOPDRILL _____ ☐

•T-DRILL _____ ☐

Technical data

•Machine type

MCT ☐ Lathe ☐

Vertical ☐ Horizontal ☐

Machine name _____

Power _____ kW

•Coolant supply

Internal ☐ External ☐

Coolant pressure _____ bar

Coolant type _____

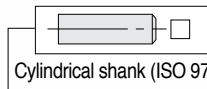
Workpiece

•Part _____

•Material _____

•Hardness _____

Shank type



Cylindrical shank (ISO 9766)

Whistle notch shank

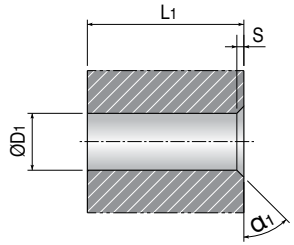
Cylindrical with flat type

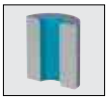
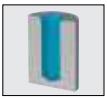
Weldon shank

Tailor-made Order Form

DRILLRUSH

Specific dimensions



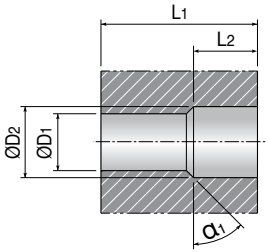



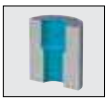
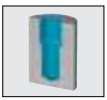
Through ☐ Blind ☐

ØD1 _____ L1 _____

α1 _____ S _____

•Hole tolerance _____



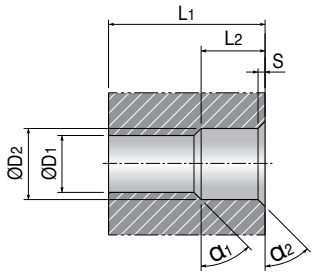
Through ☐ Blind ☐

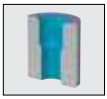
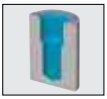
ØD1 _____ ØD2 _____

L1 _____ L2 _____

α1 _____

•Hole tolerance _____



Through ☐ Blind ☐

ØD1 _____ ØD2 _____

L1 _____ L2 _____

α1 _____ α2 _____

S _____

•Hole tolerance _____

Comment

Technical data

•Machine type

MCT ☐ Lathe ☐

Vertical ☐ Horizontal ☐

Machine name _____

Power _____ kW

•Coolant supply

Internal ☐ External ☐

Coolant pressure _____ bar

Coolant type _____

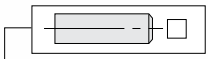
Workpiece

•Part _____

•Material _____

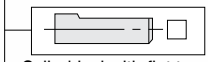
•Hardness _____

Shank type



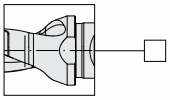
Cylindrical shank (ISO 9766)

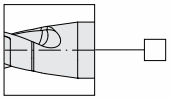
Whistle notch shank



Cylindrical with flat type

Weldon shank

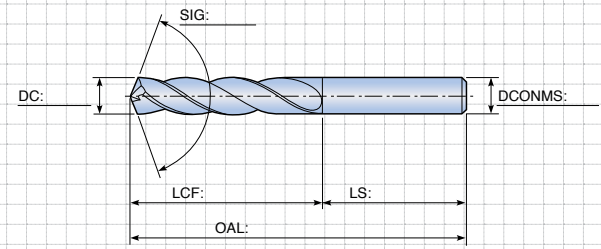


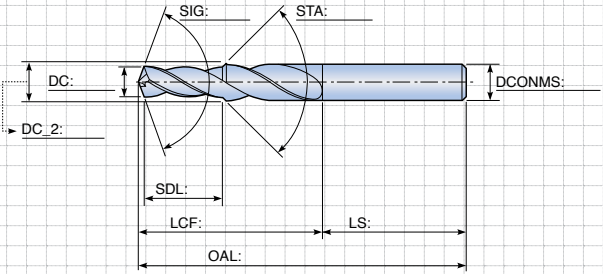


•Shank dia: _____

•Shank length: _____

Specific dimensions





• DC, DC_2 would be hole dimensions and please note hole tolerance if possible

Technical data

•Machine type

MCT ☐ Lathe ☐

Vertical ☐ Horizontal ☐

Machine name _____

Power _____ kW

•Coolant supply

Internal ☐ External ☐

Coolant pressure _____ bar

Coolant type _____

Workpiece

•Part _____

•Material _____

•Hardness _____

Hole type

•Blind hole _____ ☐

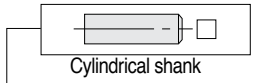
•Through hole _____ ☐

Coating

•TiAlN _____ ☐

•Non-coated _____ ☐

Shank type



Cylindrical shank

Whistle notch shank

Cylindrical with flat type

Weldon shank

Comment

Deep hole drilling order form

★: Mandatory data field

Campany name :	Inquiry number :
Address :	Inquiry date :
Contact person :	Customer No :

Workpiece (If possible,please attach a drawing)			
Product name			
Hole diameter (ø)	(mm)		
Hole depth (drilling length)	(mm)		
No. of holes			
Tolerance (of hole)			
Surface finish (Rz,Ra...)			
Deviation (mm/100)			
Straightness (mm/100)			
Material			
Material (DIN,AISI,JIS...)			
Hardness (HB,HS,HRC...)			
Condition ★	☐ Annealed	☐ Quenched	☐ Tempered
	☐ Cast	☐	
	☐ Other	☐	

Machine			
Machine supplier name			
Machine type/model			
Rigidity	☐ Good	☐ Normal	☐ Bad
Date of manufacture			
Retrofitted	☐ NC lathe	☐ M/C	☐ Other
Double rotation (TR/WR)	☐ Tool and workpiece		
Rotating workpiece (WR)	☐		
Rotating tool (TR)	☐		
Safety devices			
Motor power	(kW)		

Type of coolant			
Coolant supplier name			
Water based	☐ Soluble	☐ Emulsion	%
Oil based	☐		
Coolant pressure	(bar)		
Coolant volume	(L/min)		

Tailor-made Order Form

TDEEP

Deep hole drilling order form

★: Mandatory data field

Tool (Drill head)			
Drill diameter(ø)		(mm)	
Thread	☐ Inner	☐ Outer	
Brazed	☐		
Indexable	☐ Adjustable	☐ Direct mount	☐
Coating	☐ Coated	☐ Uncoated	
Coating type	☐ TiN	☐ TiAlN	☐ Other
• Solid drilling	☐		
• Counterboring	☐		
Cutting angle★ Brazed indexable	☐ 20°	☐ 45°	
	☐ Nomal angle	☐ Close angle	
Pre-bored size(per side)		(mm)	
Bottom finishing★	☐ Fullball R	☐ Flatbottom R	☐ Corner R
	☐ Compound R		
• Trepanning	☐		
Core size(ø)		(mm)	☐
Tube inner dia(ø)		(mm)	
Tube outer dia(ø)		(mm)	
Tube			
Outside dia(ø)		(mm)	
Total length(L)		(mm)	
Internal thread	☐		
External thread	☐ 4 Starts	☐ 2 Starts	☐ 1 Starts
Tube thread	☐ 1 end	☐ Both ends	
Inner tube length		(mm)	
Inner tube slit	☐ 1 end	☐ Both ends	

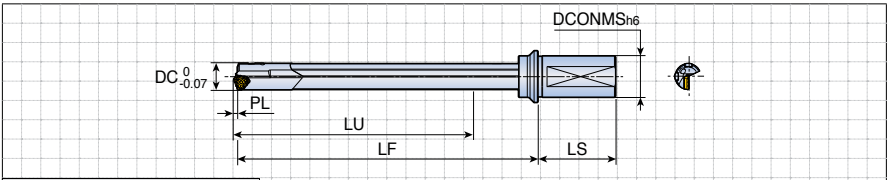
Drilling system		
Single tube system	☐	STS
Double tube system	☐	DTS

Boring conditions	
Through hole drilling	☐
Blind hole drilling	☐
Cross hole drilling★	☐

★ **Please sketch your drilling application**

General information	Production			
Quantity per year:				
Present performance status:				
grade, tool life, etc:				
Cutting data:	Vc=	m/min,	N=	rpm
	f=	mm/rev,	F=	mm/min

Deep hole drilling order form



Sketch of drilling application

• Note: It may be necessary to change several of the parameters that you indicated based on our experience with your application.

Tool	
Quantity	
Nominal diameter and tolerance	
- Please fill in dimensions on the sketch above.	
Driver	
Code No	

- For standard drivers, please use codes from next pages and for special drivers, please attach sketch and specifications.

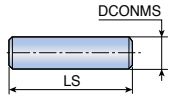
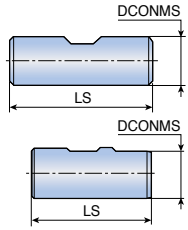
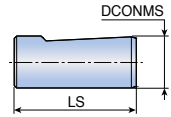
Workpiece (If possible, please attach a drawing)		
Material description (DIN material number or any other standard)		
Hardness and properties		
Hole type		☐ Blind hole ☐ Through hole ☐ Drilling into pre-hole ☐ Angled entry ☐ Drilling into solid ☐ Boring ☐ Angled exit
Drilling depth		mm
Hole tolerance		
Application	Workpiece	☐ Stationary ☐ Rotating
	Tool	☐ Stationary ☐ Rotating

Machine			
Machine type			
Power		kW	
Cutting data	Cutting speed (Vc)	m/min	
	Revolutions	**N**min : RPM	**N**max : RPM
	Feed	**F**min : mm/rev	**F**min : mm/rev
	Feed rate (VF)	mm/min	
Coolant	Coolant type	☐ Oil ☐ Soluble oil ☐ Other	
	Coolant pressure	Bar	
	Coolant volume	liter/min	

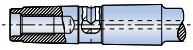
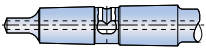
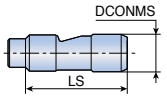
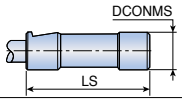
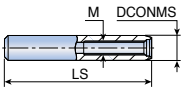
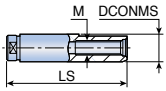
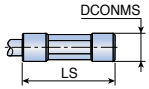
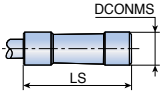
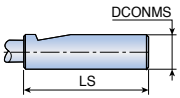
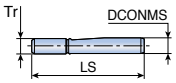
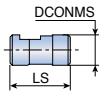
Standard gundrill drivers for machining centers and lathes

Drivers

Drivers are available for dedicated and CNC machines as well as any specified diameter or length. Please note that the driver codes and technical data can be found in the chart below.

Driver type	Drawing	DCONMS x LS	Driver code
Cylindrical DIN1835A DIN6535HA		20x50	10
		25x56	11
		32x60	12
		40x70	13
		.75x2.03"	95
		1.00x2.28"	96
		1.25x2.28"	97
Weldon DIN1835B DIN6535HB		20x50	22
		25x56	23
		32x60	24
		40x70	25
		.75x2.03"	99
		1.00x2.28"	100
		1.25x2.28"	101
Whistle notch DIN1835E		20x50	34
		25x56	35
		32x60	36
		40x70	37

Standard drivers for gundrill machines

Driver type	Drawing	DCONMS x LS	Driver code
DIN228AK		CM2	46
		CM3	47
		CM4	48
DIN228BK		CM2	50
		CM3	51
		CM4	52
Central clamping surface 15°		.750x2.75”	56
		25x70	57
		1.00x2.75”	58
		1.25x2.75”	59
		1.50x2.75”	60
Frontal clamping surface 15°		16x50	61
Cylindrical with thread		25x100 M16x1.5	66
		36x120 M24x1.5	67
VDI design		25x112 M16x1.5	70
		36x135 M24x1.5	71
Central clamping hexagonal		25x70	72
		32x70	73
Central clamping tapered		.75x2.75”	76
		20x70	77
Frontal clamping surface 2°		1.00x2.75”	80
		1.00x3.94”	81
		1.25x2.75”	82
		1.25x3.94”	83
		1.50x2.75”	84
		1.50x3.94”	85
Trapezoidal thread		28x126 Tr 28x2	88
		36x162 Tr 36x2	89
Spraymist driver		25x50	91
		35x60	92

Reamer order form

★: Mandatory data field

Date: Subsidiary:

Company★ : Enquiry dead line:

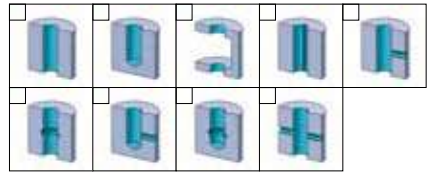
Contact person:

Address:

Request reason	
New tool ☐	Problem ☐
Quality	
Cycle time	
Alternative supplier	
Other	

Existing tool	
Maker	
Tool type	
Speed & Feed	
Tool life	
No of teeth	
Coolant type	

Machine		
Model		
Type★	vertical	☐
	horizontal	☐
	multi-spindle	☐
Adaption★		
Max RPM		
Power		
Spindle accuracy		
Coolant		

Workpiece	
Description★	
Hardness★	
Pre-hole size★	(Tolerance :)
Depth★	
Bore type	
Clamping information	

Lubricant	
Oil	☐
MQL	☐
Emulsion	☐
Ratio of mixture	
Coolant pressure	

Quality requirement	
Tolerance★	
Surface finish(Ra)★	
Roundness	
Straightness	
Cylindricity	
Concentricity	

Tool			
Type★	TM(Index multi-edge) ☐	TB(Single blade) ☐	TS(Solid) ☐ Other ☐ ( )
Diameter★			
Depth of cut★			
Coolant★	Internal ☐	External ☐	
Shank type★			
Holder type	Collet ☐	Hydraulic ☐	Other ☐
Adjustable adaptor	Yes ☐	No ☐	