



ZIBTRPRO
tehnologija obdelave · vpenjalni sistemi



24-01

TEZD / TLZD svedri + ploščice



Ob nakupu ploščic TEZD sveder BREZPLAČNO !!



MS 3xD



ML 5xD



5 kos. vrtalnih ploščic TEZ + sveder TEZD 3xD MS brezplačno

Ploščice TEZ	Dimenzije (korak 0,1 mm)	Svedri TEZD 3xD MS
TEZ 1350 - TEZ 3200	Ø13,5 – Ø32,5	TEZD 1400S16 MS - TEZD 3200S32 MS

5 kos. vrtalnih ploščic TEZ + sveder TEZD 5xD ML brezplačno

Ploščice TEZ	Dimenzije (korak 0,1 mm)	Svedri TEZD 5xD ML
TEZ 1350 - TEZ 3200	Ø13,5 – Ø32,5	TEZD 1400S16 ML - TEZD 3200S32 ML



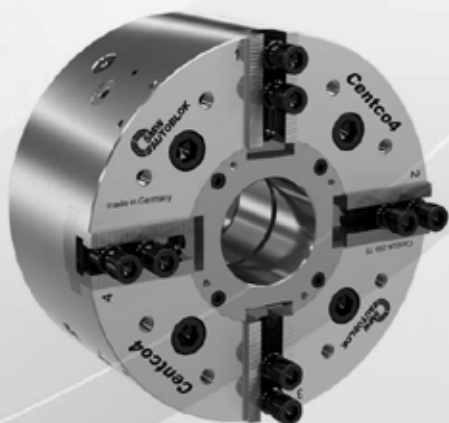
XL 8xD



10 kos. vrtalnih ploščic TEZ + sveder TEZD 8xD XL brezplačno

Ploščice TEZ	Dimenzije (korak 0,1 mm)	Svedri TEZD 8xD XL
TEZ 1350 - TEZ 3200	Ø13,5 – Ø32,5	TEZD 1400S16 XL - TEZD 3200S32 XL

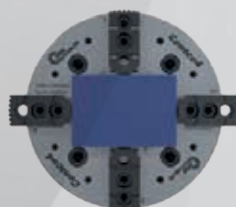
SMW AUTOBLOK - samocentrirne in kompenzacijske vpenjalne glave CENTCO 4



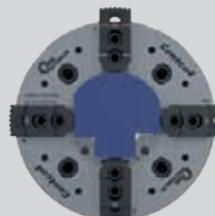
Primeri uporabe:



Kvadratni in pravokotni obdelovanci



Obdelovanci nepravilnih oblik



Okrogli in tankostenski obdelovanci

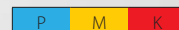


Neodvisno in samocentrirno vpenjanje v dveh oseh.

Ob nakupu ploščic TEZD-F sveder BREZPLAČNO !!



F-ML 5xD



5 kos. vrtnih ploščic TEZ + sveder TEZD-F 5xD ML brezplačno (F-prirobnica)

Ploščice TEZ	Dimenzije (korak 0,1 mm)	Svedri TEZD-F 5xD ML
TEZ 1350 - TEZ 3200	Ø13,5 – Ø32,5	TEZD 1400S16F-ML - TEZD 3200S32F-ML



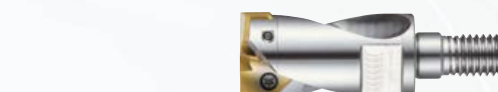
F-XL 8xD



10 kos. vrtnih ploščic TEZ + sveder TEZD-F 8xD XL brezplačno (F-prirobnica)

Ploščice TEZ	Dimenzije (korak 0,1 mm)	Svedri TEZD 8xD XL
TEZ 1350 - TEZ 3200	Ø13,5 – Ø32,5	TEZD 1400S16F-XL - TEZD 3200S32F-XL

Ob nakupu ploščic TLZD sveder BREZPLAČNO !!



TLZD-M



TLZD-SS



5 kos. vrtnih ploščic TLZ + sveder TLZD-M brezplačno

Ploščice TLZ	Dimenzije (korak 0,1 mm)	Svedri TLZD-M
TLZ 1400 - TLZ 3200	Ø140, – Ø32,0	TLZD 1400-M6 - TEZD 3200-M16

5 kos. vrtnih ploščic TLZ + sveder TLZD-SS brezplačno

Ploščice TLZ	Dimenzije (korak 0,1 mm)	Svedri TLZD-M
TLZ 1400 - TLZ 3200	Ø140, – Ø32,0	TLZD 1400-M6 - TEZD 3200-SS

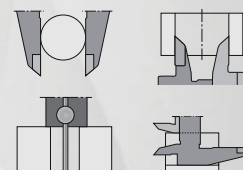
Pomična merila TESA-CAL IP67 za vse pogoje v delavnici



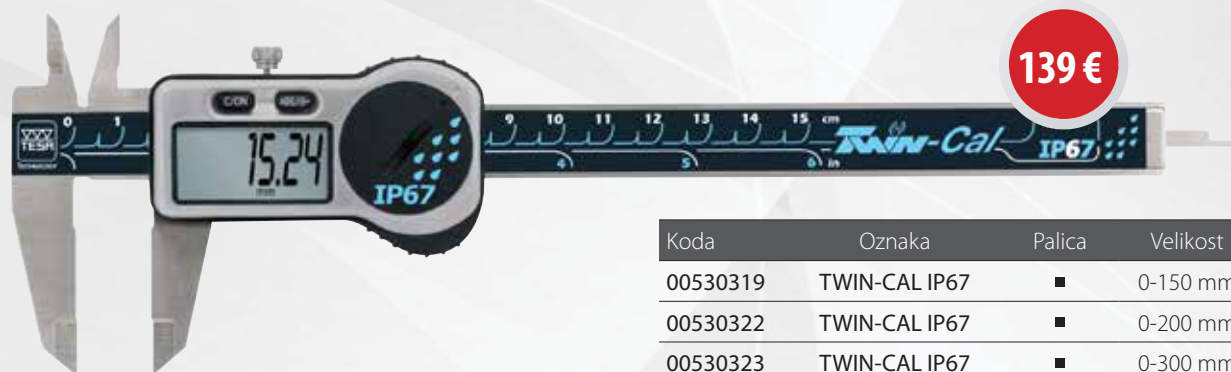
Koda	Oznaka	Palica	Velikost	Cena
00530140	TESA-CAL IP67	■	0-150 mm	85,00 €
00530141	TESA-CAL IP67	●	0-150 mm	85,00 €
00530142	TESA-CAL IP67	■	0-200 mm	123,00 €
00530143	TESA-CAL IP67	■	0-300 mm	164,00 €

TESA-CAL pomična merila za vse pogoje v delavnici:

- Najvišja zaščita proti prahu in tekočinam IP67
- ABS in DIFF merilni sistem
- Visoko kontrastni 11 mm visok zaslon
- Zanesljiva tehnologija in življenjska doba baterije do 2 leti




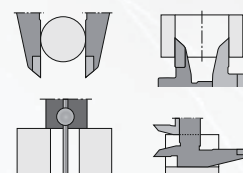
Pomična merila TWIN-CAL IP67 za delavnice in merilnice



Koda	Oznaka	Palica	Velikost	Cena
00530319	TWIN-CAL IP67	■	0-150 mm	139,00 €
00530322	TWIN-CAL IP67	■	0-200 mm	189,00 €
00530323	TWIN-CAL IP67	■	0-300 mm	243,00 €

TWIN-CAL pomična merila za delavnice in merilnice:

- Najvišja zaščita proti prahu in tekočinam IP67
- inox ohišje
- ABS in DIFF merilni sistem
- Visoko kontrastni 11 mm visok zaslon
- Možnost priklopa na PC preko USB kablo ali  Bluetooth povezave
- Zanesljiva tehnologija in življenjska doba baterije do 12.000 ur



C.P.T. - Struženje in rezkanje navojev



INDEXABLE DRILL

TEZD Type



EASY ASSEMBLY AND HIGH PERFORMANCE

ECO-FRIENDLY

Unique low cutting geometry reduces power consumption.

ECONOMICAL

Save tool cost compared with using solid carbide drill

HIGH CUTTING PERFORMANCE

Distinctive cooling system ensures coolant is supplied to cutting edge.



■ LINE UP

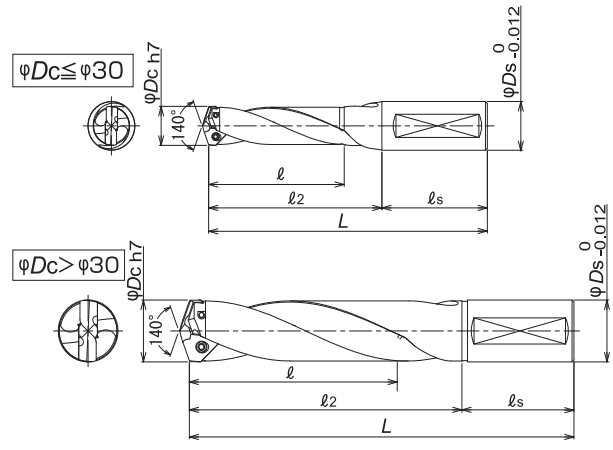
Holder	Depth of hole	Diameter
TEZD-MS Type	3xDc	φ13.5~φ32.5
TEZD-ML Type	5xDc	
TEZD-XL Type	8xDc	

INDEXABLE DRILL TEZD Type



TEZD-MS
TYPE

Holder



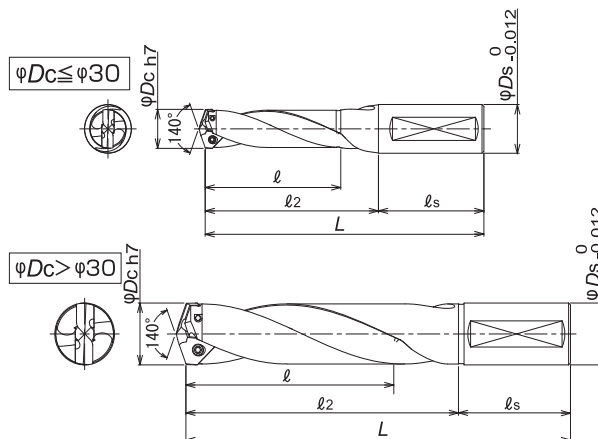
Cat.No.	Stock	Dc		Dimensions (mm)					Parts	
		Min.	Max.	ℓ	ℓ2	ℓs	L	Ds	Screw	Wrench
TEZD1400S16-MS	●	13.5	14.5	51	65	48	113	16	DSW-2045H	A-07
TEZD1500S20-MS	●	14.6	15.5	54	69	50	119	20		
TEZD1600S20-MS	●	15.6	16.5	58	74	50	124	20	TSW-2556H	A-08
TEZD1700S20-MS	●	16.6	17.5	61	78	50	128	20		
TEZD1800S20-MS	●	17.6	18.5	65	83	50	133	20	TSW-2567H	A-08
TEZD1900S25-MS	●	18.6	19.5	68	87	56	143	25		
TEZD2000S25-MS	●	19.6	20.5	72	92	56	148	25	DSW-307H	A-10
TEZD2100S25-MS	●	20.6	21.5	75	96	56	152	25		
TEZD2200S25-MS	●	21.6	22.5	79	101	56	157	25	DSW-309H	A-10
TEZD2300S25-MS	●	22.6	23.5	82	105	56	161	25		
TEZD2400S32-MS	●	23.6	24.5	86	110	60	170	32	TSW-3510H	A-15
TEZD2500S32-MS	●	24.6	25.5	89	114	60	174	32		
TEZD2600S32-MS	●	25.6	26.5	93	119	60	179	32	TSW-3512H	A-15
TEZD2700S32-MS	●	26.6	27.5	96	123	60	183	32		
TEZD2800S32-MS	●	27.6	28.5	100	128	60	188	32		
TEZD2900S32-MS	●	28.6	29.5	103	132	60	192	32		
TEZD3000S32-MS	●	29.6	30.5	107	137	60	197	32		
TEZD3100S32-MS	●	30.6	31.5	110	141	60	201	32		
TEZD3200S32-MS	●	31.6	32.5	114	146	60	206	32		

INDEXABLE DRILL

TEZD Type

TEZD-ML
TYPE

Holder



Cat.No.	Stock	Dc		Dimensions (mm)					Parts	
		Min.	Max.	ℓ	ℓ ₂	ℓ _s	L	D _s	Screw	Wrench
TEZD1400S16-ML	●	13.5	14.5	80	97	48	145	16	DSW-2045H	A-07
TEZD1500S20-ML	●	14.6	15.5	85	103	50	153	20		
TEZD1600S20-ML	●	15.6	16.5	91	110	50	160	20	TSW-2556H	A-08
TEZD1700S20-ML	●	16.6	17.5	96	117	50	167	20		
TEZD1800S20-ML	●	17.6	18.5	102	123	50	173	20	TSW-2567H	A-08
TEZD1900S25-ML	●	18.6	19.5	107	130	56	186	25		
TEZD2000S25-ML	●	19.6	20.5	113	137	56	193	25	DSW-307H	A-10
TEZD2100S25-ML	●	20.6	21.5	118	143	56	199	25		
TEZD2200S25-ML	●	21.6	22.5	124	150	56	206	25	DSW-309H	A-10
TEZD2300S25-ML	●	22.6	23.5	129	157	56	213	25		
TEZD2400S32-ML	●	23.6	24.5	135	164	60	224	32	TSW-3510H	A-15
TEZD2500S32-ML	●	24.6	25.5	140	170	60	230	32		
TEZD2600S32-ML	●	25.6	26.5	146	177	60	237	32	TSW-3512H	A-15
TEZD2700S32-ML	●	26.6	27.5	151	184	60	244	32		
TEZD2800S32-ML	●	27.6	28.5	157	190	60	250	32	TSW-3512H	A-15
TEZD2900S32-ML	●	28.6	29.5	162	197	60	257	32		
TEZD3000S32-ML	●	29.6	30.5	168	204	60	264	32	TSW-3512H	A-15
TEZD3100S32-ML	●	30.6	31.5	173	210	60	270	32		
TEZD3200S32-ML	●	31.6	32.5	179	217	60	277	32		

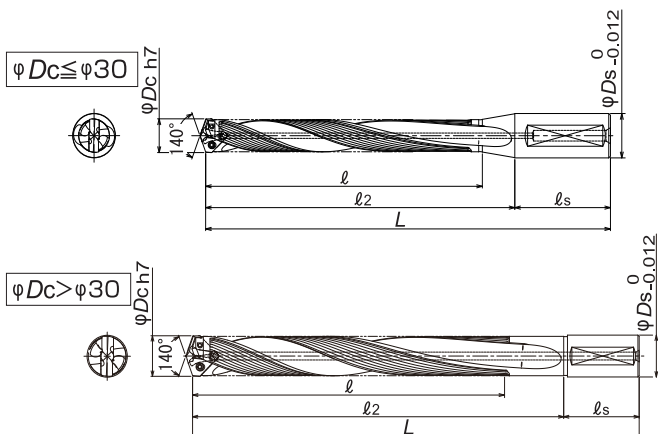
INDEXABLE DRILL

TEZD Type



TEZD-XL
TYPE

Holder



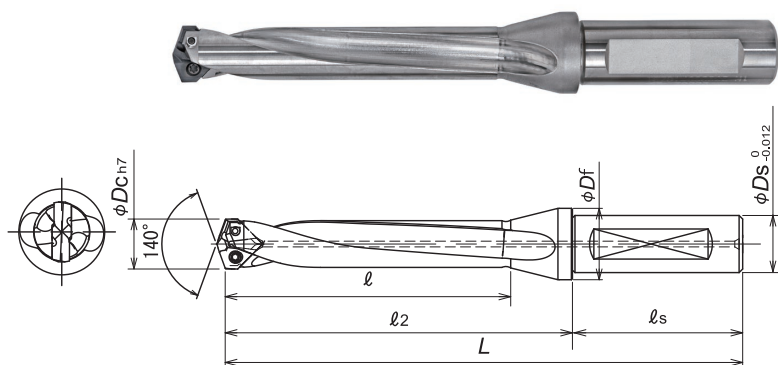
Cat.No.	Stock	Dc		Dimensions (mm)					Parts	
		Min.	Max.	l	l ₂	l _s	L	D _s	Screw	Wrench
TEZD1400S16-XL	●	13.5	14.5	119	133	48	181	16	DSW-2045H	A-07
TEZD1500S20-XL	●	14.6	15.5	128	143	50	193	20		
TEZD1600S20-XL	●	15.6	16.5	136	152	50	202	20	TSW-2556H	A-08
TEZD1700S20-XL	●	16.6	17.5	145	162	50	212	20		
TEZD1800S20-XL	●	17.6	18.5	153	171	50	221	20	TSW-2567H	A-08
TEZD1900S25-XL	●	18.6	19.5	162	181	56	237	25		
TEZD2000S25-XL	●	19.6	20.5	170	190	56	246	25	DSW-307H	A-10
TEZD2100S25-XL	●	20.6	21.5	179	200	56	256	25		
TEZD2200S25-XL	●	21.6	22.5	187	209	56	265	25	DSW-309H	A-10
TEZD2300S25-XL	●	22.6	23.5	196	219	56	275	25		
TEZD2400S32-XL	●	23.6	24.5	204	228	60	288	32	TSW-3510H	A-15
TEZD2500S32-XL	●	24.6	25.5	213	238	60	298	32		
TEZD2600S32-XL	●	25.6	26.5	221	247	60	307	32	TSW-3512H	A-15
TEZD2700S32-XL	●	26.6	27.5	230	257	60	317	32		
TEZD2800S32-XL	●	27.6	28.5	238	266	60	326	32		
TEZD2900S32-XL	●	28.6	29.5	247	276	60	336	32		
TEZD3000S32-XL	●	29.6	30.5	255	285	60	345	32		
TEZD3100S32-XL	●	30.6	31.5	248	295	60	355	32		
TEZD3200S32-XL	●	31.6	32.5	256	304	60	364	32		

INDEXABLE DRILL

TEZD Type

TEZDF-ML
TYPE

Holder



Cat.No.	Stock	Dc		Dimensions (mm)						Parts	
		Min.	Max.	ℓ	ℓ_2	ℓ_s	L	D_s	D_f	Screw	Wrench
TEZD1400S16F-ML	●	13.5	14.5	80	97	48	145	16	20	DSW-2045H	A-07
TEZD1500S20F-ML	●	14.6	15.5	85	103	50	153	20	24.9		
TEZD1600S20F-ML	●	15.6	16.5	91	110	50	160	20	24.9	TSW-2556H	A-08
TEZD1700S20F-ML	●	16.6	17.5	96	117	50	167	20	24.9		
TEZD1800S20F-ML	●	17.6	18.5	102	123	50	173	20	24.9		
TEZD1900S25F-ML	●	18.6	19.5	107	130	56	186	25	32	TSW-2567H	A-08
TEZD2000S25F-ML	●	19.6	20.5	113	137	56	193	25	32		
TEZD2100S25F-ML	●	20.6	21.5	118	143	56	199	25	32		
TEZD2200S25F-ML	●	21.6	22.5	124	150	56	206	25	32	DSW-307H	A-10
TEZD2300S25F-ML	●	22.6	23.5	129	157	56	213	25	32		
TEZD2400S32F-ML	●	23.6	24.5	135	164	60	224	32	41.9	DSW-309H	A-10
TEZD2500S32F-ML	●	24.6	25.5	140	170	60	230	32	41.9		
TEZD2600S32F-ML	●	25.6	26.5	146	177	60	237	32	41.9		
TEZD2700S32F-ML	●	26.6	27.5	151	184	60	244	32	41.9	TSW-3510H	A-15
TEZD2800S32F-ML	●	27.6	28.5	157	190	60	250	32	41.9		
TEZD2900S32F-ML	●	28.6	29.5	162	197	60	257	32	41.9		
TEZD3000S32F-ML	●	29.6	30.5	168	204	60	264	32	41.9	TSW-3512H	A-15
TEZD3100S32F-ML	●	30.6	31.5	173	210	60	270	32	41.9		
TEZD3200S32F-ML	●	31.6	32.5	179	217	60	277	32	41.9		

Note) All cutters are supplied without inserts or wrenches.

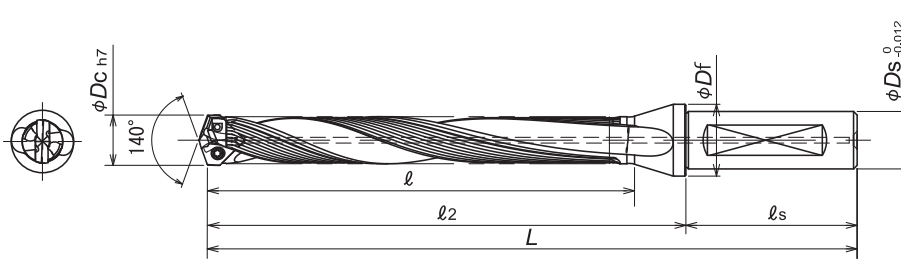
Clamp screw	Torque(N·m)
DSW-2045H	0.9
TSW-2556H	1.2
TSW-2567H	1.2
DSW-307H	2.1
DSW-309H	2.1
TSW-3510H	3.0
TSW-3512H	3.0

INDEXABLE DRILL

TEZD Type

TEZDF-XL
TYPE

Holder



Cat.No.	Stock	Dc		Dimensions (mm)						Parts	
		Min.	Max.	ℓ	ℓ2	ℓs	L	Ds	Df	Screw	Wrench
TEZD1400S16F-XL	●	13.5	14.5	119	133	48	181	16	20	DSW-2045H	A-07
TEZD1500S20F-XL	●	14.6	15.5	128	143	50	193	20	24.9		
TEZD1600S20F-XL	●	15.6	16.5	136	152	50	202	20	24.9	TSW-2556H	A-08
TEZD1700S20F-XL	●	16.6	17.5	145	162	50	212	20	24.9		
TEZD1800S20F-XL	●	17.6	18.5	153	171	50	221	20	24.9	TSW-2567H	A-08
TEZD1900S25F-XL	●	18.6	19.5	162	181	56	237	25	32		
TEZD2000S25F-XL	●	19.6	20.5	170	190	56	246	25	32	DSW-307H	A-10
TEZD2100S25F-XL	●	20.6	21.5	179	200	56	256	25	32		
TEZD2200S25F-XL	●	21.6	22.5	187	209	56	265	25	32	DSW-309H	A-10
TEZD2300S25F-XL	●	22.6	23.5	196	219	56	275	25	32		
TEZD2400S32F-XL	●	23.6	24.5	204	228	60	288	32	41.9	TSW-3510H	A-15
TEZD2500S32F-XL	●	24.6	25.5	213	238	60	298	32	41.9		
TEZD2600S32F-XL	●	25.6	26.5	221	247	60	307	32	41.9	TSW-3512H	A-15
TEZD2700S32F-XL	●	26.6	27.5	230	257	60	317	32	41.9		
TEZD2800S32F-XL	●	27.6	28.5	238	266	60	326	32	41.9	TSW-3510H	A-15
TEZD2900S32F-XL	●	28.6	29.5	247	276	60	336	32	41.9		
TEZD3000S32F-XL	●	29.6	30.5	255	285	60	345	32	41.9	TSW-3512H	A-15
TEZD3100S32F-XL	●	30.6	31.5	248	295	60	355	32	41.9		
TEZD3200S32F-XL	●	31.6	32.5	256	304	60	364	32	41.9		

Note) All cutters are supplied without inserts or wrenches.

Clamp screw	Torque(N-m)
DSW-2045H	0.9
TSW-2556H	1.2
TSW-2567H	1.2
DSW-307H	2.1
DSW-309H	2.1
TSW-3510H	3.0
TSW-3512H	3.0

INDEXABLE DRILL

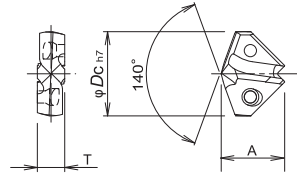
TEZD Type



TEZ
TYPE

Insert - Grade JC8050

● Suitable for General Steel



Dc	Cat.No.	Stk	A	T	Holder
13.5	TEZ1350	●	11.4	4.5	TEZD14*
13.6	TEZ1360	●			
13.7	TEZ1370	●			
13.8	TEZ1380	●			
13.9	TEZ1390	●			
14.0	TEZ1400	●			
14.1	TEZ1410	●			
14.2	TEZ1420	●			
14.3	TEZ1430	●			
14.4	TEZ1440	●			
14.5	TEZ1450	●	11.5	4.8	TEZD15*
14.6	TEZ1460	●			
14.7	TEZ1470	●			
14.8	TEZ1480	●			
14.9	TEZ1490	●			
15.0	TEZ1500	●			
15.1	TEZ1510	●			
15.2	TEZ1520	●			
15.3	TEZ1530	●			
15.4	TEZ1540	●			
15.5	TEZ1550	●	12.4	5.0	TEZD16*
15.6	TEZ1560	●			
15.7	TEZ1570	●			
15.8	TEZ1580	●			
15.9	TEZ1590	●			
16.0	TEZ1600	●			
16.1	TEZ1610	●			
16.2	TEZ1620	●			
16.3	TEZ1630	●			
16.4	TEZ1640	●			
16.5	TEZ1650	●	13.2	5.5	TEZD17*
16.6	TEZ1660	●			
16.7	TEZ1670	●			
16.8	TEZ1680	●			
16.9	TEZ1690	●			
17.0	TEZ1700	●			
17.1	TEZ1710	●			
17.2	TEZ1720	●			
17.3	TEZ1730	●			
17.4	TEZ1740	●			
17.5	TEZ1750	●	13.5	5.8	TEZD18*
17.6	TEZ1760	●			
17.7	TEZ1770	●			
17.8	TEZ1780	●			
17.9	TEZ1790	●			
18.0	TEZ1800	●			
18.1	TEZ1810	●			
18.2	TEZ1820	●			

Dc	Cat.No.	Stk	A	T	Holder
18.3	TEZ1830	●	13.5	5.8	TEZD18*
18.4	TEZ1840	●			
18.5	TEZ1850	●			
18.6	TEZ1860	●			
18.7	TEZ1870	●			
18.8	TEZ1880	●			
18.9	TEZ1890	●			
19.0	TEZ1900	●			
19.1	TEZ1910	●			
19.2	TEZ1920	●			
19.3	TEZ1930	●			
19.4	TEZ1940	●			
19.5	TEZ1950	●	15.1	6.5	TEZD20*
19.6	TEZ1960	●			
19.7	TEZ1970	●			
19.8	TEZ1980	●			
19.9	TEZ1990	●			
20.0	TEZ2000	●			
20.1	TEZ2010	●			
20.2	TEZ2020	●			
20.3	TEZ2030	●			
20.4	TEZ2040	●			
20.5	TEZ2050	●			
20.6	TEZ2060	●			
20.7	TEZ2070	●			
20.8	TEZ2080	●			
20.9	TEZ2090	●			
21.0	TEZ2100	●			
21.1	TEZ2110	●			
21.2	TEZ2120	●			
21.3	TEZ2130	●	16.6	7.5	TEZD22*
21.4	TEZ2140	●			
21.5	TEZ2150	●			
21.6	TEZ2160	●			
21.7	TEZ2170	●			
21.8	TEZ2180	●			
21.9	TEZ2190	●			
22.0	TEZ2200	●			
22.1	TEZ2210	●			
22.2	TEZ2220	●			
22.3	TEZ2230	●			
22.4	TEZ2240	●			
22.5	TEZ2250	●			
22.6	TEZ2260	●			
22.7	TEZ2270	●			
22.8	TEZ2280	●			
22.9	TEZ2290	●			
23.0	TEZ2300	●			

INDEXABLE DRILL

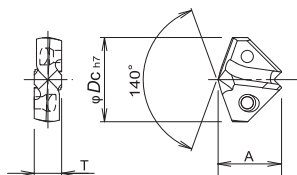
TEZD Type



TEZ
TYPE

Insert - Grade JC8050

● Suitable for General Steel



Dc	Cat.No.	Stk	A	T	Holder
23.1	TEZ2310	●	17.4	7.5	TEZD23*
23.2	TEZ2320	●			
23.3	TEZ2330	●			
23.4	TEZ2340	●			
23.5	TEZ2350	●			
23.6	TEZ2360	●	18.2	8.0	TEZD24*
23.7	TEZ2370	●			
23.8	TEZ2380	●			
23.9	TEZ2390	●			
24.0	TEZ2400	●			
24.1	TEZ2410	●			
24.2	TEZ2420	●			
24.3	TEZ2430	●			
24.4	TEZ2440	●			
24.5	TEZ2450	●			
24.6	TEZ2460	●	19.1	8.0	TEZD25*
24.7	TEZ2470	●			
24.8	TEZ2480	●			
24.9	TEZ2490	●			
25.0	TEZ2500	●			
25.1	TEZ2510	●			
25.2	TEZ2520	●			
25.3	TEZ2530	●			
25.4	TEZ2540	●			
25.5	TEZ2550	●			
25.6	TEZ2560	●	19.7	8.5	TEZD26*
25.7	TEZ2570	●			
25.8	TEZ2580	●			
25.9	TEZ2590	●			
26.0	TEZ2600	●			
26.1	TEZ2610	●			
26.2	TEZ2620	●			
26.3	TEZ2630	●			
26.4	TEZ2640	●			
26.5	TEZ2650	●			
26.6	TEZ2660	●	20.4	8.5	TEZD27*
26.7	TEZ2670	●			
26.8	TEZ2680	●			
26.9	TEZ2690	●			
27.0	TEZ2700	●			
27.1	TEZ2710	●			
27.2	TEZ2720	●			
27.3	TEZ2730	●			
27.4	TEZ2740	●			
27.5	TEZ2750	●			
27.6	TEZ2760	●	21.2	9.0	TEZD28*
27.7	TEZ2770	●			
27.8	TEZ2780	●			

Dc	Cat.No.	Stk	A	T	Holder
27.9	TEZ2790	●	21.2	9.0	TEZD28*
28.0	TEZ2800	●			
28.1	TEZ2810	●			
28.2	TEZ2820	●			
28.3	TEZ2830	●			
28.4	TEZ2840	●			
28.5	TEZ2850	●			
28.6	TEZ2860	●			
28.7	TEZ2870	●			
28.8	TEZ2880	●			
28.9	TEZ2890	●	22.1	9.0	TEZD29*
29.0	TEZ2900	●			
29.1	TEZ2910	●			
29.2	TEZ2920	●			
29.3	TEZ2930	●			
29.4	TEZ2940	●			
29.5	TEZ2950	●			
29.6	TEZ2960	●			
29.7	TEZ2970	●			
29.8	TEZ2980	●			
29.9	TEZ2990	●	22.5	9.5	TEZD30*
30.0	TEZ3000	●			
30.1	TEZ3010	●			
30.2	TEZ3020	●			
30.3	TEZ3030	●			
30.4	TEZ3040	●			
30.5	TEZ3050	●			
30.6	TEZ3060	●			
30.7	TEZ3070	●			
30.8	TEZ3080	●			
30.9	TEZ3090	●	23.4	10	TEZD31*
31.0	TEZ3100	●			
31.1	TEZ3110	●			
31.2	TEZ3120	●			
31.3	TEZ3130	●			
31.4	TEZ3140	●			
31.5	TEZ3150	●			
31.6	TEZ3160	●			
31.7	TEZ3170	●			
31.8	TEZ3180	●			
31.9	TEZ3190	●	24.3	10	TEZD32*
32.0	TEZ3200	●			
32.1	TEZ3210	●			
32.2	TEZ3220	●			
32.3	TEZ3230	●			
32.4	TEZ3240	●			
32.5	TEZ3250	●			

INDEXABLE DRILL

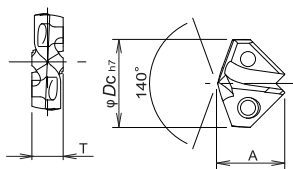
TEZD Type



TEZ-S
TYPE

Insert - Grade JC7515

● for Stainless steel, Titanium alloy



Dc	Cat.No.	Stk	A	T	Holder
13.5	TEZ1350S	●	11.4	4.5	TEZD14*
13.6	TEZ1360S	●			
13.7	TEZ1370S	●			
13.8	TEZ1380S	●			
13.9	TEZ1390S	●			
14.0	TEZ1400S	●			
14.1	TEZ1410S	●			
14.2	TEZ1420S	●			
14.3	TEZ1430S	●			
14.4	TEZ1440S	●			
14.5	TEZ1450S	●			
14.6	TEZ1460S	●	11.5	4.8	TEZD15*
14.7	TEZ1470S	●			
14.8	TEZ1480S	●			
14.9	TEZ1490S	●			
15.0	TEZ1500S	●			
15.1	TEZ1510S	●			
15.2	TEZ1520S	●			
15.3	TEZ1530S	●			
15.4	TEZ1540S	●			
15.5	TEZ1550S	●			
15.6	TEZ1560S	●	12.4	5.0	TEZD16*
15.7	TEZ1570S	●			
15.8	TEZ1580S	●			
15.9	TEZ1590S	●			
16.0	TEZ1600S	●			
16.1	TEZ1610S	●			
16.2	TEZ1620S	●			
16.3	TEZ1630S	●			
16.4	TEZ1640S	●			
16.5	TEZ1650S	●			
16.6	TEZ1660S	●	13.2	5.5	TEZD17*
16.7	TEZ1670S	●			
16.8	TEZ1680S	●			
16.9	TEZ1690S	●			
17.0	TEZ1700S	●			
17.1	TEZ1710S	●			
17.2	TEZ1720S	●			
17.3	TEZ1730S	●			
17.4	TEZ1740S	●			
17.5	TEZ1750S	●			
17.6	TEZ1760S	●	13.5	5.8	TEZD18*
17.7	TEZ1770S	●			
17.8	TEZ1780S	●			
17.9	TEZ1790S	●			
18.0	TEZ1800S	●			
18.1	TEZ1810S	●			

Dc	Cat.No.	Stk	A	T	Holder
18.2	TEZ1820S	●	13.5	5.8	TEZD18*
18.3	TEZ1830S	●			
18.4	TEZ1840S	●			
18.5	TEZ1850S	●			
18.6	TEZ1860S	●	14.2	6.0	TEZD19*
18.7	TEZ1870S	●			
18.8	TEZ1880S	●			
18.9	TEZ1890S	●			
19.0	TEZ1900S	●			
19.1	TEZ1910S	●			
19.2	TEZ1920S	●			
19.3	TEZ1930S	●			
19.4	TEZ1940S	●			
19.5	TEZ1950S	●			
19.6	TEZ1960S	●	15.1	6.5	TEZD20*
19.7	TEZ1970S	●			
19.8	TEZ1980S	●			
19.9	TEZ1990S	●			
20.0	TEZ2000S	●			

Screw	Torque (N·m)
DSW-2045H	0.9
TSW-2556H	1.2
TSW-2567H	1.2
DSW-307H	2.1
DSW-309H	2.1
TSW-3510H	3.0
TSW-3512H	3.0

INDEXABLE DRILL

TEZD Type

■ Recommended Cutting Conditions

● TEZ type JC8050

Material	Structural Steel , Carbon Steel below 280HB	Alloy Steel 280-350HB	Tool Steel below 255HB
Vc (m/min)	75 - 90	70 - 90	70 - 90
f (mm/rev)	0.30 - 0.35	0.22 - 0.25	0.22 - 0.25

Material	Stainless Steel	Grey Cast Iron	Nodular Cast Iron
Vc (m/min)	45	85 - 110	60 - 90
f (mm/rev)	0.25	0.30 - 0.40	0.15 - 0.28

● TEZ-S type JC7515

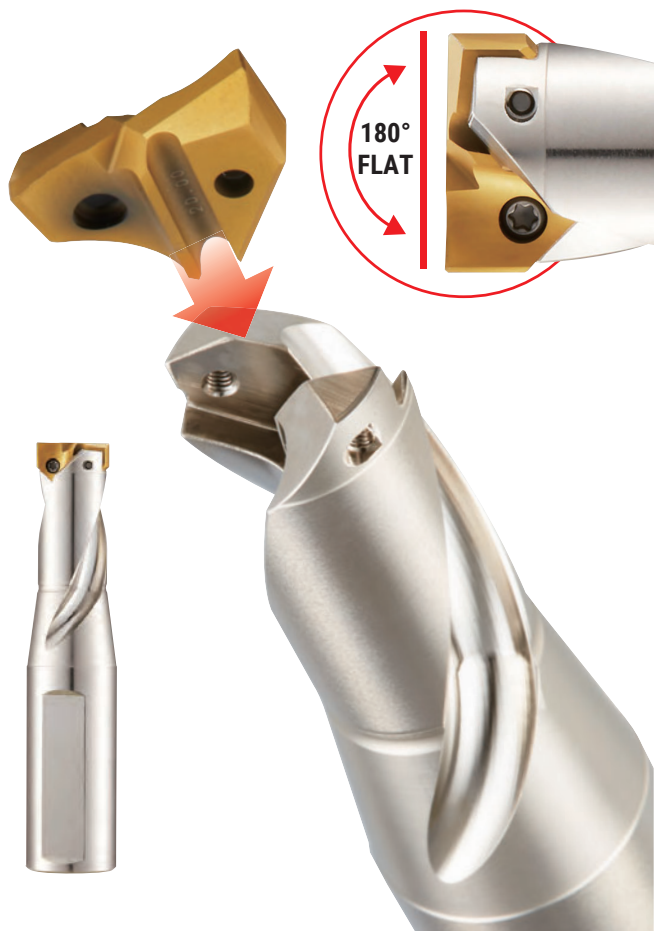
Material	Titanium Alloy	Stainless Steel
Vc (m/min)	35 - 60	45 - 80
f (mm/rev)	0.15 - 0.20	0.15 - 0.20

Note

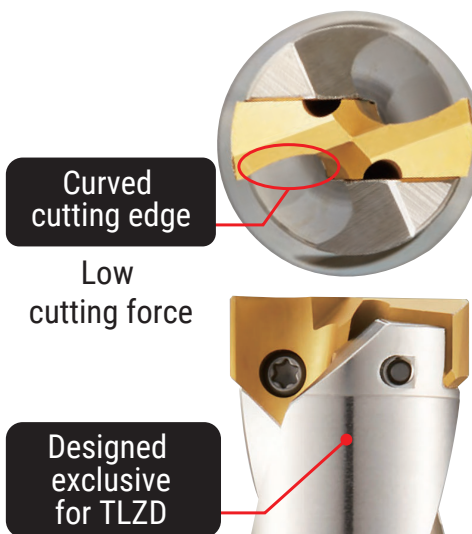
1. Use water-soluble coolant.
2. Adjust cutting conditions according to machine rigidity or work rigidity.
3. When using -XL (8D) type , reduce rpm & Vf by 20% from standard cutting conditions.
Pre-drilling of guide-hole (depth : 0.5D) is recommended.

INDEXABLE FLAT DRILL

TLZD Type



- 180° Flat face
- Able to drill without pilot hole, even on sloped surfaces & cross holes



Curved cutting edge

Low cutting force

Designed exclusive for TLZD

■ Features

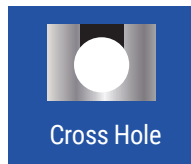
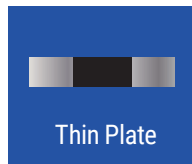
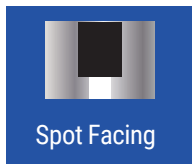
1 Easy tool management

2 Able to drill without pilot hole, even on sloped surfaces and cross holes.

3 Long tool life by adopting new grade JC7550 and improved coolant distribution system.

4 The most suitable for burr-less processing.

■ Applications



INDEXABLE FLAT DRILL

TLZD Type

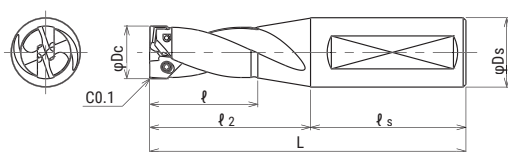
TLZD
TYPE

Holder

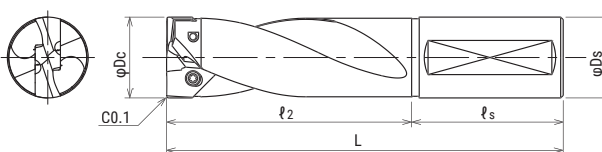
● Depth of hole: 1.5×Dc



$\varphi D_c \leq \varphi 30$



$\varphi D_c > \varphi 30$



Cat.No.	Stock	Dc		Dimensions (mm)					Parts	
		Min.	Max.	ℓ	ℓ_2	ℓ_s	L	D_s	Screw	Wrench
TLZD1400S16-SS	●	14.0	14.5	29	43	48	91	16	DSW-2045H	A-07
TLZD1500S20-SS	●	14.6	15.5	31	46	50	96	20		
TLZD1600S20-SS	●	15.6	16.5	33	49	50	99	20	TSW-2556H	A-08
TLZD1700S20-SS	●	16.6	17.5	35	52	50	102	20		
TLZD1800S20-SS	●	17.6	18.5	37	55	50	105	20	TSW-2567H	A-08
TLZD1900S25-SS	●	18.6	19.5	39	58	56	114	25		
TLZD2000S25-SS	●	19.6	20.5	41	61	56	117	25	DSW-307H	A-10
TLZD2100S25-SS	●	21.0	21.5	43	64	56	120	25		
TLZD2200S25-SS	●	22.0	22.5	45	67	56	123	25	DSW-309H	A-10
TLZD2300S25-SS	●	23.0	23.5	47	70	56	126	25		
TLZD2400S32-SS	●	24.0	24.5	49	73	60	133	32	TSW-3510H	A-15
TLZD2500S32-SS	●	25.0	25.5	51	76	60	136	32		
TLZD2600S32-SS	●	26.0	26.5	53	79	60	139	32	TSW-3512H	A-15
TLZD2700S32-SS	●	27.0	27.5	55	82	60	142	32		
TLZD2800S32-SS	●	28.0	28.5	57	85	60	145	32	-	-
TLZD2900S32-SS	●	29.0	29.5	59	88	60	148	32		
TLZD3000S32-SS	●	30.0	30.5	61	91	60	151	32	-	-
TLZD3100S32-SS	●	31.0	31.5	-	94	60	154	32		
TLZD3200S32-SS	●	32.0	-	-	97	60	157	32		

INDEXABLE FLAT DRILL

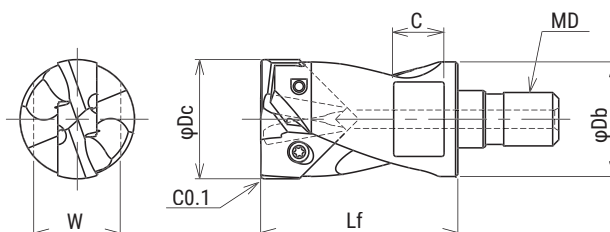
TLZD Type



TLZD
TYPE

Modular Type

● Depth of hole 0.7~1xDc



Cat.No.	Stock	Dc		Dimensions (mm)					Parts		MSN Carbide Shank
		Min.	Max.	Lf	Db	MD	C	W	Screw	Wrench	
TLZD1400-M6	●	14.0	14.5	27.5	13.1	M6	7	10	DSW-2045H	A-07	MSN-M6-**-S16C
TLZD1500-M8	●	14.6	15.5	29.5	14	M8	8	12			MSN-M8-**-S14C
TLZD1600-M8	●	15.6	16.5	29.5	15	M8	8	12	TSW-2556H	A-08	MSN-M8-**-S15C
TLZD1700-M8	●	16.6	17.5	30.5	16	M8	8	12			MSN-M8-**-S16C
TLZD1800-M8	●	17.6	18.5	30.5	17	M8	8	12	TSW-2567H	A-08	MSN-M8-**-S16C
TLZD1900-M10	●	18.6	19.5	38.5	18	M10	9	14			MSN-M10-**-S18C
TLZD2000-M10	●	19.6	20.5	38.5	19	M10	9	14	DSW-307H	A-10	MSN-M10-**-S20C
TLZD2100-M10	●	21.0	21.5	38.5	20	M10	9	14			MSN-M10-**-S20C
TLZD2200-M10	●	22.0	22.5	38.5	21	M10	9	14	DSW-309H	A-10	MSN-M10-**-S20C
TLZD2300-M10	●	23.0	23.5	38.5	22	M10	9	14			MSN-M10-**-S20C
TLZD2400-M12	●	24.0	24.5	43	23	M12	11	19	DSW-309H	A-10	MSN-M12-**-S23C
TLZD2500-M12	●	25.0	25.5	43	24	M12	11	19			MSN-M12-**-S25C
TLZD2600-M12	●	26.0	26.5	43	25	M12	11	19	TSW-3510H	A-15	MSN-M12-**-S25C
TLZD2700-M12	●	27.0	27.5	43	26	M12	11	19			MSN-M12-**-S25C
TLZD2800-M12	●	28.0	28.5	43	27	M12	11	19	TSW-3512H	A-15	MSN-M12-**-S25C
TLZD2900-M16	●	29.0	29.5	51	28	M16	12	22			MSN-M16-**-S28C
TLZD3000-M16	●	30.0	30.5	51	29	M16	12	22	TSW-3512H	A-15	MSN-M16-**-S32C
TLZD3100-M16	●	31.0	31.5	51	30	M16	12	22			MSN-M16-**-S32C
TLZD3200-M16	●	32.0	-	51	31	M16	14	26			MSN-M16-**-S32C

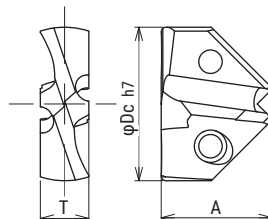
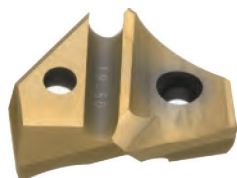
Screw	Torque (N·m)
DSW-2045H	0.9
TSW-2556H	1.2
TSW-2567H	1.2
DSW-307H	2.1
DSW-309H	2.1
TSW-3510H	3.0
TSW-3512H	3.0

INDEXABLE FLAT DRILL

TLZD Type

TLZ
TYPE

Insert - Grade JC7550



Dc	Cat.No.	Stk	A	T	Holder
14.0	TLZ1400	●	10.6	4.5	TLZD14*
14.1	TLZ1410	●			
14.2	TLZ1420	●			
14.3	TLZ1430	●			
14.4	TLZ1440	●			
14.5	TLZ1450	●			
14.6	TLZ1460	●	11.3	4.8	TLZD15*
14.7	TLZ1470	●			
14.8	TLZ1480	●			
14.9	TLZ1490	●			
15.0	TLZ1500	●			
15.1	TLZ1510	●			
15.2	TLZ1520	●			
15.3	TLZ1530	●			
15.4	TLZ1540	●			
15.5	TLZ1550	●			
15.6	TLZ1560	●	12.1	5.0	TLZD16*
15.7	TLZ1570	●			
15.8	TLZ1580	●			
15.9	TLZ1590	●			
16.0	TLZ1600	●			
16.1	TLZ1610	●			
16.2	TLZ1620	●			
16.3	TLZ1630	●			
16.4	TLZ1640	●			
16.5	TLZ1650	●			
16.6	TLZ1660	●	12.6	5.5	TLZD17*
16.7	TLZ1670	●			
16.8	TLZ1680	●			
16.9	TLZ1690	●			
17.0	TLZ1700	●			
17.1	TLZ1710	●			
17.2	TLZ1720	●			
17.3	TLZ1730	●			
17.4	TLZ1740	●			
17.5	TLZ1750	●			
17.6	TLZ1760	●	13.2	5.8	TLZD18*
17.7	TLZ1770	●			
17.8	TLZ1780	●			
17.9	TLZ1790	●			
18.0	TLZ1800	●			
18.1	TLZ1810	●			
18.2	TLZ1820	●			

Dc	Cat.No.	Stk	A	T	Holder
18.3	TLZ1830	●	13.2	5.8	TLZD18*
18.4	TLZ1840	●			
18.5	TLZ1850	●			
18.6	TLZ1860	●	13.6	6.0	TLZD19*
18.7	TLZ1870	●			
18.8	TLZ1880	●			
18.9	TLZ1890	●			
19.0	TLZ1900	●			
19.1	TLZ1910	●			
19.2	TLZ1920	●			
19.3	TLZ1930	●			
19.4	TLZ1940	●			
19.5	TLZ1950	●			
19.6	TLZ1960	●	14.6	6.5	TLZD20*
19.7	TLZ1970	●			
19.8	TLZ1980	●			
19.9	TLZ1990	●			
20.0	TLZ2000	●			
20.5	TLZ2050	●	15.2	6.7	TLZD21*
21.0	TLZ2100	●			
21.5	TLZ2150	●			
22.0	TLZ2200	●	15.9	7.5	TLZD22*
22.5	TLZ2250	●			
23.0	TLZ2300	●	16.7	7.5	TLZD23*
23.5	TLZ2350	●			
24.0	TLZ2400	●	17.4	8.0	TLZD24*
24.5	TLZ2450	●			
25.0	TLZ2500	●	18.3	8.0	TLZD25*
25.5	TLZ2550	●			
26.0	TLZ2600	●	18.8	8.5	TLZD26*
26.5	TLZ2650	●			
27.0	TLZ2700	●	19.5	8.5	TLZD27*
27.5	TLZ2750	●			
28.0	TLZ2800	●	20.3	9.0	TLZD28*
28.5	TLZ2850	●			
29.0	TLZ2900	●	21.1	9.0	TLZD29*
29.5	TLZ2950	●			
30.0	TLZ3000	●	21.5	9.5	TLZD30*
30.5	TLZ3050	●			
31.0	TLZ3100	●	22.3	10.0	TLZD31*
31.5	TLZ3150	●			
32.0	TLZ3200	●	23.1	10.0	TLZD32*

Recommended Cutting Conditions

TLZD-SS type

Material	Mild Steel below 180HB	Carbon Steel below 280HB	Tool Steel below 255HB	Alloy Steel 280-350HB
Vc (m/min)	50 - 70 - 100	50 - 70 - 100	30 - 50 - 70	30 - 50 - 70
f (mm/rev)	0.06 - 0.20 (Dc14-16) 0.07 - 0.21 (Dc17-20) 0.08 - 0.22 (Dc21-25) 0.09 - 0.23 (Dc26-29) 0.10 - 0.24 (Dc30-32)	0.06 - 0.20 (Dc14-16) 0.07 - 0.21 (Dc17-20) 0.08 - 0.22 (Dc21-25) 0.09 - 0.23 (Dc26-29) 0.10 - 0.24 (Dc30-32)	0.06 - 0.20 (Dc14-16) 0.07 - 0.21 (Dc17-20) 0.08 - 0.22 (Dc21-25) 0.09 - 0.23 (Dc26-29) 0.10 - 0.24 (Dc30-32)	0.06 - 0.20 (Dc14-16) 0.07 - 0.21 (Dc17-20) 0.08 - 0.22 (Dc21-25) 0.09 - 0.23 (Dc26-29) 0.10 - 0.24 (Dc30-32)

Material	Mild Steel below 40HRC	Cast Iron	Stainless Steel	Aluminium Alloy
Vc (m/min)	20 - 30 - 40	50 - 70 - 100	80 - 100 - 120 - 140	50 - 100 - 150
f (mm/rev)	0.04 - 0.10 (Dc14-16) 0.04 - 0.11 (Dc17-18) 0.05 - 0.11 (Dc19-20) 0.05 - 0.12 (Dc21-25) 0.05 - 0.13 (Dc26-27) 0.06 - 0.13 (Dc28-29) 0.06 - 0.14 (Dc30-32)	0.06 - 0.20 (Dc14-16) 0.07 - 0.21 (Dc17-20) 0.08 - 0.22 (Dc21-25) 0.09 - 0.23 (Dc26-29) 0.10 - 0.24 (Dc30-32)	0.02 - 0.06 (Dc14-18) 0.03 - 0.07 (Dc19-25) 0.04 - 0.08 (Dc26-31) 0.05 - 0.09 (Dc32)	0.06 - 0.20 (Dc14-16) 0.07 - 0.21 (Dc17-20) 0.08 - 0.22 (Dc21-25) 0.09 - 0.23 (Dc26-29) 0.10 - 0.24 (Dc30-32)

Note

1. These cutting conditions are for drilling flat surface. when drilling angled surfaces, parameters should be adjusted.
For inclined angle under 30°, apply 40-80% of (Vf) and for inclined angle 30° or more , apply 20-50% of (Vf) from standard cutting conditions.
2. These cutting conditions are for drilling with water soluble coolant. when dry cutting , use air to remove chips.
3. Drilling depth over 1.5 x Dc is not recommended.
4. Side milling is not possible.
5. In case of long chips , adjust parameters by increasing (Vf) or using step feed for breaking chips.

INDEXABLE FLAT DRILL

TLZD Type

■ Recommended Cutting Conditions

● TLZD-***-M** Modular Head type

Material	Mild Steel below 180HB	Carbon Steel below 280HB	Tool Steel below 255HB	Alloy Steel 280-350HB
Vc (m/min)	70	70	70	70
f (mm/rev)	0.04 - 0.06 (Dc14) 0.04 - 0.08 (Dc15-18) 0.04 - 0.09 (Dc19-23) 0.06 - 0.12 (Dc24-28) 0.06 - 0.14 (Dc29-32)	0.04 - 0.06 (Dc14) 0.04 - 0.08 (Dc15-18) 0.04 - 0.09 (Dc19-23) 0.06 - 0.12 (Dc24-28) 0.06 - 0.14 (Dc29-32)	0.03 - 0.05 (Dc14) 0.03 - 0.06 (Dc15-18) 0.04 - 0.07 (Dc19-23) 0.05 - 0.09 (Dc24-28) 0.06 - 0.11 (Dc29-32)	0.03 - 0.05 (Dc14) 0.03 - 0.06 (Dc15-18) 0.04 - 0.07 (Dc19-23) 0.05 - 0.09 (Dc24-28) 0.06 - 0.11 (Dc29-32)

Material	Mold Steel below 40HRC	Cast Iron	Stainless Steel	Aluminium Alloy
Vc (m/min)	40	100	100	100
f (mm/rev)	0.02 - 0.06 (Dc14) 0.03 - 0.07 (Dc15-18) 0.03 - 0.08 (Dc19-23) 0.04 - 0.10 (Dc24-28) 0.05 - 0.13 (Dc29-32)	0.02 - 0.07 (Dc14) 0.04 - 0.09 (Dc15-18) 0.02 - 0.10 (Dc19-23) 0.02 - 0.12 (Dc24-28) 0.02 - 0.13 (Dc29-32)	0.02 - 0.04 (Dc14-23) 0.03 - 0.04 (Dc24-32)	0.02 - 0.07 (Dc14) 0.04 - 0.09 (Dc15-18) 0.02 - 0.10 (Dc19-23) 0.02 - 0.12 (Dc24-28) 0.02 - 0.13 (Dc29-32)

Note

1. These cutting conditions are for drilling flat surface. when drilling angled surfaces, parameters should be adjusted. for inclined angle under 30°, apply 40-80% of (Vf) and for inclined angle 30° or more, apply 20-50% of (Vf) from standard cutting conditions.
2. These cutting conditions are for drilling with water soluble coolant. when dry cutting, use air to remove chips.
3. Drilling depth over 1.0 x Dc is not recommended.
4. Side milling is not possible.
5. In case of long chips, adjust parameters by increasing (Vf) or using step feed for breaking chips. when drilling stainless steel, increasing (Vf) is not recommended to break chips. Increase (Vc) and reduce (Vf) so that bellows-shaped chips can occur.



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