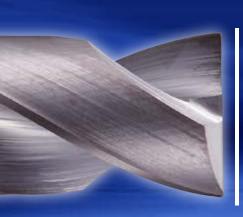
PRODUCT NEWS PN-E-014

KALIP TEKNIK FLAT DRILL Series

TLDM type <Solid carbide drill>
 TLD3D/TLD5D type <Solid carbide drill>
 TLZD type <Indexable insert drill>





180° Flat face



180° Flat face

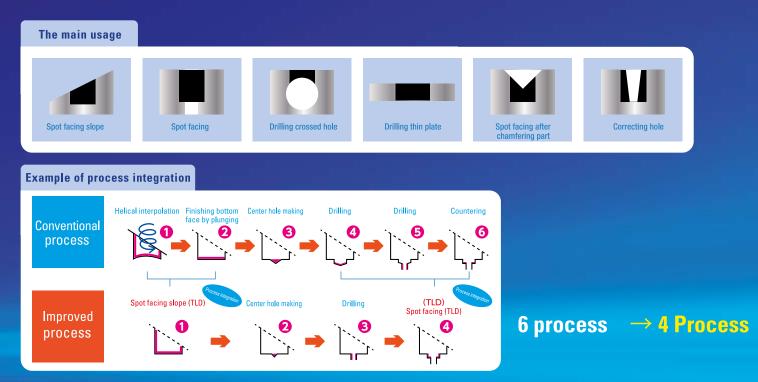


KALIP TEKNİK

www.kalipteknik.com.tr

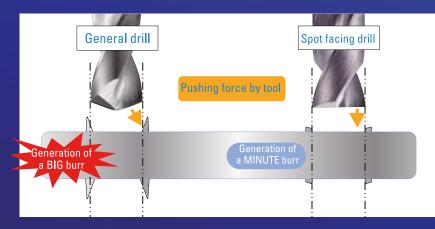
Feature of product

Because of multi application, achieved process integration



Widely applied from carbon & mold steel to stainless steel, cast iron & aluminum alloy

Restraing entrance burr and exit burr



Useful in situations where burr processing is difficult, such as crossed hole processing



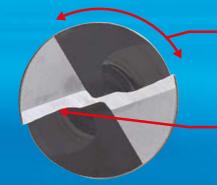






TLDM type (Drilling depth 2×Dc)

Because of shortness overhung length, improved accuracy Specializing in thin plate and bottom face processing



Wide flute design Good chip discharge performance

Low cutting force Excellent biting property

TLD3D/TLD5D

TLD3D/5D type (Drilling depth 3×Dc/5×Dc)

Wide flute design and Smooth surface treatment Good chip discharge performance

Through coolant hole type Specializing in deep hole drilling



Double margin shape
 Improved straightness of the drilling

Low cutting force Excellent biting property

Line up

TLDM type

- Spot facing drill with point angle of 180 °(flat face)
- Drilling depth 2×Dc
- Helix angle:30°





			Dimens	ions (mm	ı)
Cat. No.	Stock	¢Dc	l	L	¢Ds
TLDM010	0	1	3	60	3
TLDM011	0	1,1	3.3	60	3
TLDM012	0	1.2	3.6	60	3
TLDM013	0	1.3	3.9	60	3
TLDM014	0	1.4	4.2	60	3
TLDM015	0	1.5	4.5	60	3
TLDM016	0	1.6	4.8	60	3
TLDM017	0	1.7	5.1	60	3
TLDM018	0	1.8	5.4	60	3
TLDM019	0	1.9	5.7	60	3
TLDM020	0	2	7	60	4
TLDM021	0	2.1	7.5	60	4
TLDM022	0	2.2	8	60	4
TLDM023	0	2.3	8.5	60	4
TLDM024	0	2.4	9	60	4
TLDM025	0	2.5	9.5	60	4
TLDM026	0	2.6	10	60	4
TLDM027	0	2.7	10.5	60	4
TLDM028	0	2.8	11	60	4
TLDM029	0	2.9	11.5	60	4
TLDM030	0	3	12	60	4
TLDM030-S6	0	3	12	60	6
TLDM031	0	3.1	12	60	4
TLDM031-S6	0	3.1	12	60	6
TLDM032	0	3.2	12	60	4
TLDM032-S6	0	3.2	12	60	6
TLDM033	0	3.3	13	60	4
TLDM033-S6	0	3.3	13	60	6
TLDM034	0	3.4	13	60	4
TLDM034-S6	0	3.4	13	60	6
TLDM035	0	3.5	13	60	4
TLDM035-S6	0	3.5	13	60	6

		Dimensions (mm)			n)
Cat. No.	Stock	фDc	l	L	¢Ds
TLDM036	0	3.6	14	60	4
TLDM036-S6	0	3.6	14	60	6
TLDM037	0	3.7	14	60	4
TLDM037-S6	0	3.7	14	60	6
TLDM038	0	3.8	15	60	4
TLDM038-S6	0	3.8	15	60	6
TLDM039	0	3.9	15	60	4
TLDM039-S6	0	3.9	15	60	6
TLDM040	0	4	15	60	4
TLDM040-S6	0	4	15	60	6
TLDM041	0	4.1	16	60	6
TLDM042	0	4.2	16	60	6
TLDM043	0	4.3	17	60	6
TLDM044	0	4.4	17	60	6
TLDM045	0	4.5	17	60	6
TLDM046	0	4.6	18	65	6
TLDM047	0	4.7	18	65	6
TLDM048	0	4.8	18	65	6
TLDM049	0	4.9	19	65	6
TLDM050	0	5	19	65	6
TLDM051	0	5.1	20	65	6
TLDM052	0	5.2	20	65	6
TLDM053	0	5.3	20	65	6
TLDM054	0	5.4	21	65	6
TLDM055	0	5.5	21	65	6
TLDM056	0	5.6	22	70	6
TLDM057	0	5.7	22	70	6
TLDM058	0	5.8	22	70	6
TLDM059	0	5.9	23	70	6
TLDM060	0	6	23	70	6
TLDM061	0	6.1	23	70	8
TLDM062	0	6.2	24	70	8

 \bullet : Standard stock item \quad O:Stock in Japan





In case of Dc≦12 and Dc<Ds

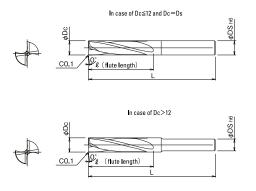
l (flute length)

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<u>*C0.1</u>

¢DS h

Drill dia.	Tolerance
Dc ≤ 3	0 0.010
3 < Dc ≤ 6	0
6 < Dc ≤ 10	0 0.015
10 < Dc ≤ 18	0 0.018



			Dimens	sions (mn	n)
Cat. No.	Stock	øDc	l	L	¢Ds
TLDM063	0	6.3	24	70	8
TLDM064	0	6.4	25	70	8
TLDM065	0	6.5	25	70	8
TLDM066	0	6.6	25	75	8
TLDM067	0	6.7	26	75	8
TLDM068	0	6.8	26	75	8
TLDM069	0	6.9	27	75	8
TLDM070	0	7	27	75	8
TLDM071	0	7.1	27	75	8
TLDM072	0	7.2	28	75	8
TLDM073	0	7.3	28	75	8
TLDM074	0	7.4	28	75	8
TLDM075	0	7.5	29	75	8
TLDM076	0	7.6	29	75	8
TLDM077	0	7.7	30	75	8
TLDM078	0	7.8	30	75	8
TLDM079	0	7.9	30	75	8
TLDM080	0	8	31	75	8
TLDM081	0	8.1	31	75	10
TLDM082	0	8.2	32	75	10
TLDM083	0	8.3	32	75	10
TLDM084	0	8.4	32	75	10
TLDM085	0	8.5	32	75	10
TLDM086	0	8.6	33	80	10
TLDM087	0	8.7	33	80	10
TLDM088	0	8.8	34	80	10
TLDM089	0	8.9	34	80	10
TLDM090	0	9	35	80	10
TLDM091	0	9.1	35	80	10
TLDM092	0	9.2	35	80	10
TLDM093	0	9.3	36	80	10
TLDM094	0	9.4	36	80	10

Recommended cutting conditions



 \bullet : Standard stock item $\quad \mathbf{O}$: Stock in Japan

Line up

TLD3D type

- Spot facing drill with point angle of 180 °(flat face)
- Through coolant hole
- Drilling depth 3×Dc
- Helix angle: 30°
- Double margin



		Dimensions (mm)			ı)
Cat. No.	Stock	øDc	l	L	¢Ds
TLD3DCH0300S03	•	3	14	60	3
TLD3DCH0310S04	٠	3.1	14	60	4
TLD3DCH0320S04	•	3.2	15	60	4
TLD3DCH0330S04	•	3.3	15	60	4
TLD3DCH0340S04	•	3.4	16	60	4
TLD3DCH0350S04	•	3.5	16	60	4
TLD3DCH0360S04	•	3.6	17	60	4
TLD3DCH0370S04	•	3.7	17	60	4
TLD3DCH0380S04	•	3.8	18	60	4
TLD3DCH0390S04	•	3.9	18	60	4
TLD3DCH0400S04	٠	4	18	60	4
TLD3DCH0410S05		4.1	19	65	5
TLD3DCH0420S05	•	4.2	19	65	5
TLD3DCH0430S05	٠	4.3	20	65	5
TLD3DCH0440S05	٠	4.4	20	65	5
TLD3DCH0450S05	•	4.5	21	65	5
TLD3DCH0460S05	٠	4.6	21	65	5
TLD3DCH0470S05	•	4.7	22	65	5
TLD3DCH0480S05	•	4.8	22	65	5
TLD3DCH0490S05	•	4.9	23	65	5
TLD3DCH0500S05	•	5	23	65	5
TLD3DCH0510S06	•	5.1	23	70	6
TLD3DCH0520S06	•	5.2	24	70	6
TLD3DCH0530S06	•	5.3	24	70	6

		Dimensions (mm)			n)
Cat. No.	Stock	¢Dc	l	L	¢Ds
TLD3DCH0540S06	•	5.4	25	70	6
TLD3DCH0550S06	•	5.5	25	70	6
TLD3DCH0560S06	•	5.6	26	70	6
TLD3DCH0570S06	•	5.7	26	70	6
TLD3DCH0580S06	•	5.8	27	70	6
TLD3DCH0590S06	•	5.9	27	70	6
TLD3DCH0600S06	٠	6	27	70	6
TLD3DCH0610S07		6.1	28	75	7
TLD3DCH0620S07	•	6.2	28	75	7
TLD3DCH0630S07		6.3	29	75	7
TLD3DCH0640S07	•	6.4	29	75	7
TLD3DCH0650S07		6.5	30	75	7
TLD3DCH0660S07	•	6.6	30	75	7
TLD3DCH0670S07	•	6.7	31	75	7
TLD3DCH0680S07	•	6.8	31	75	7
TLD3DCH0690S07	•	6.9	32	75	7
TLD3DCH0700S07	•	7	32	75	7
TLD3DCH0710S08	•	7.1	32	80	8
TLD3DCH0720S08	•	7.2	33	80	8
TLD3DCH0730S08	•	7.3	33	80	8
TLD3DCH0740S08	•	7.4	34	80	8
TLD3DCH0750S08	•	7.5	34	80	8
TLD3DCH0760S08	•	7.6	35	80	8
TLD3DCH0770S08	•	7.7	35	80	8

Through coolant hole

DV coating

V

• Standard stock item OStock in Japan



•Tolerance of drill diameter (mm)

Drill dia.	Tolerance
Dc ≤ 3	0 -0.010
3 < Dc ≤ 6	0 -0.012
6 < Dc ≤ 10	0 0.015
10 < Dc ≤ 18	0 0.018

		Dimensions (mm)			
Cat. No.	Stock	фDc	l	L	¢Ds
TLD3DCH1020S11	•	10.2	46	105	11
TLD3DCH1030S11		10,3	47	105	11
TLD3DCH1040S11	•	10.4	47	105	11
TLD3DCH1050S11	•	10.5	48	105	11
TLD3DCH1060S11	•	10.6	48	105	11
TLD3DCH1070S11	•	10.7	49	105	11
TLD3DCH1080S11	•	10 <u>.</u> 8	49	105	11
TLD3DCH1090S11	•	10.9	50	105	11
TLD3DCH1100S11	•	11	50	105	11
TLD3DCH1110S12		11.1	50	115	12
TLD3DCH1120S12	•	11.2	51	115	12
TLD3DCH1130S12		11.3	51	115	12
TLD3DCH1140S12	•	11.4	52	115	12
TLD3DCH1150S12	•	11.5	52	115	12
TLD3DCH1160S12	•	11.6	53	115	12
TLD3DCH1170S12	•	11.7	53	115	12
TLD3DCH1180S12	•	11.8	54	115	12
TLD3DCH1190S12	•	11.9	54	115	12
TLD3DCH1200S12	•	12	54	115	12
TLD3DCH1250S13	•	12.5	57	125	13
TLD3DCH1300S13	•	13	59	125	13
TLD3DCH1350S14	•	13.5	61	130	14
TLD3DCH1400S14	•	14	63	130	14

CO.05

⊅Dc

In case of $\phi Dc = \phi Ds$

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		Dimensions (mm)			ı)
Cat. No.	Stock	¢Dc	l	L	¢Ds
TLD3DCH0780S08	•	7.8	36	80	8
TLD3DCH0790S08		7 <u>.</u> 9	36	80	8
TLD3DCH0800S08	•	8	36	80	8
TLD3DCH0810S09	•	8.1	37	90	9
TLD3DCH0820S09	•	8 <u>.</u> 2	37	90	9
TLD3DCH0830S09		8.3	38	90	9
TLD3DCH0840S09	•	8.4	38	90	9
TLD3DCH0850S09		8.5	39	90	9
TLD3DCH0860S09	•	8.6	39	90	9
TLD3DCH0870S09	•	8.7	40	90	9
TLD3DCH0880S09	•	8.8	40	90	9
TLD3DCH0890S09	•	8.9	41	90	9
TLD3DCH0900S09	•	9	41	90	9
TLD3DCH0910S10		9.1	41	95	10
TLD3DCH0920S10	•	9.2	42	95	10
TLD3DCH0930S10	•	9.3	42	95	10
TLD3DCH0940S10	•	9.4	43	95	10
TLD3DCH0950S10	•	9.5	43	95	10
TLD3DCH0960S10	•	9.6	44	95	10
TLD3DCH0970S10	•	9.7	44	95	10
TLD3DCH0980S10	•	9.8	45	95	10
TLD3DCH0990S10	•	9.9	45	95	10
TLD3DCH1000S10	•	10	45	95	10
TLD3DCH1010S11		10.1	46	105	11

• Standard stock item **O** Stock in Japan



Line up

TLD5D type

- Spot facing drill with point angle of 180 °(flat face)
- Through coolant hole
- Drilling depth 5×Dc
- Helix angle: 30°
- Double margin





		Dimensions (mm)			ı)
Cat. No.	Stock	¢Dc	l	L	¢Ds
TLD5DCH0300S03	0	3	20	70	3
TLD5DCH0310S04	0	3.1	21	70	4
TLD5DCH0320S04	0	3.2	22	70	4
TLD5DCH0330S04	0	3.3	22	70	4
TLD5DCH0340S04	0	3.4	23	70	4
TLD5DCH0350S04	0	3.5	24	70	4
TLD5DCH0360S04	0	3.6	24	70	4
TLD5DCH0370S04	0	3.7	25	70	4
TLD5DCH0380S04	0	3.8	26	70	4
TLD5DCH0390S04	0	3.9	26	70	4
TLD5DCH0400S04	0	4	27	70	4
TLD5DCH0410S05	0	4.1	28	80	5
TLD5DCH0420S05	0	4.2	28	80	5
TLD5DCH0430S05	0	4.3	29	80	5
TLD5DCH0440S05	0	4.4	30	80	5
TLD5DCH0450S05	0	4.5	30	80	5
TLD5DCH0460S05	0	4.6	31	80	5
TLD5DCH0470S05	0	4.7	32	80	5
TLD5DCH0480S05	0	4.8	32	80	5
TLD5DCH0490S05	0	4.9	33	80	5
TLD5DCH0500S05	0	5	34	80	5
TLD5DCH0510S06	0	5.1	34	85	6
TLD5DCH0520S06	0	5.2	35	85	6
TLD5DCH0530S06	0	5.3	36	85	6

		Dimensions (mm)			
Cat. No.	Stock	ФDc	l	L	øDs
TLD5DCH0540S06	0	5.4	36	85	6
TLD5DCH0550S06	0	5.5	37	85	6
TLD5DCH0560S06	0	5.6	38	85	6
TLD5DCH0570S06	0	5.7	38	85	6
TLD5DCH0580S06	0	5.8	39	85	6
TLD5DCH0590S06	0	5.9	40	85	6
TLD5DCH0600S06	0	6	40	85	6
TLD5DCH0610S07	0	6.1	41	95	7
TLD5DCH0620S07	0	6.2	42	95	7
TLD5DCH0630S07	0	6.3	42	95	7
TLD5DCH0640S07	0	6.4	43	95	7
TLD5DCH0650S07	0	6.5	44	95	7
TLD5DCH0660S07	0	6.6	44	95	7
TLD5DCH0670S07	0	6.7	45	95	7
TLD5DCH0680S07	0	6.8	46	95	7
TLD5DCH0690S07	0	6.9	46	95	7
TLD5DCH0700S07	0	7	47	95	7
TLD5DCH0710S08	0	7.1	48	100	8
TLD5DCH0720S08	0	7.2	48	100	8
TLD5DCH0730S08	0	7.3	49	100	8
TLD5DCH0740S08	0	7.4	50	100	8
TLD5DCH0750S08	0	7.5	50	100	8
TLD5DCH0760S08	0	7.6	51	100	8
TLD5DCH0770S08	0	7.7	52	100	8

• Standard stock item O: Stock in Japan



•Tolerance of drill diameter (mm)

Drill dia.	Tolerance
Dc ≤ 3	0 -0.010
3 < Dc ≤ 6	0 -0.012
6 < Dc ≤ 10	0 0.015
10 < Dc ≤ 18	0 0.018

			sions (mn	mm)		
Cat. No.	Stock	ФDc	l	L	¢Ds	
TLD5DCH1020S11	0	10.2	68	130	11	
TLD5DCH1030S11	0	10.3	69	130	11	
TLD5DCH1040S11	0	10.4	70	130	11	
TLD5DCH1050S11	0	10.5	70	130	11	
TLD5DCH1060S11	0	10.6	71	130	11	
TLD5DCH1070S11	0	10.7	72	130	11	
TLD5DCH1080S11	0	10.8	72	130	11	
TLD5DCH1090S11	0	10.9	73	130	11	
TLD5DCH1100S11	0	11	74	130	11	
TLD5DCH1110S12	0	11.1	74	145	12	
TLD5DCH1120S12	0	11.2	75	145	12	
TLD5DCH1130S12	0	11.3	76	145	12	
TLD5DCH1140S12	0	11.4	76	145	12	
TLD5DCH1150S12	0	11.5	77	145	12	
TLD5DCH1160S12	0	11.6	78	145	12	
TLD5DCH1170S12	0	11.7	78	145	12	
TLD5DCH1180S12	0	11.8	79	145	12	
TLD5DCH1190S12	0	11.9	80	145	12	
TLD5DCH1200S12	0	12	80	145	12	
TLD5DCH1250S13	0	12.5	84	155	13	
TLD5DCH1300S13	0	13	87	155	13	
TLD5DCH1350S14	0	13.5	90	160	14	
TLD5DCH1400S14	0	14	94	160	14	

In case of $\phi Dc = \phi Ds$

1

		Dimensions (mm) φDc ℓ L φDs 7.8 52 100 8 7.9 53 100 8 8 54 100 8 8.1 54 110 9 8.2 55 110 9 8.3 56 110 9 8.4 56 110 9 8.5 57 110 9								
Cat. No.	Stock	¢Dc	l	L	¢Ds					
TLD5DCH0780S08	0	7.8	52	100	8					
TLD5DCH0790S08	0	7 <u>.</u> 9	53	100	8					
TLD5DCH0800S08	0	8	54	100	8					
TLD5DCH0810S09	0	8.1	54	110	9					
TLD5DCH0820S09	0	8.2	55	110	9					
TLD5DCH0830S09	0	8.3	56	110	9					
TLD5DCH0840S09	0	8.4	56	110	9					
TLD5DCH0850S09	0	8.5	57	110	9					
TLD5DCH0860S09	0	8.6	58	110	9					
TLD5DCH0870S09	0	8.7	58	110	9					
TLD5DCH0880S09	0	8.8	59	110	9					
TLD5DCH0890S09	0	8.9	60	110	9					
TLD5DCH0900S09	0	9	60	110	9					
TLD5DCH0910S10	0	9.1	61	120	10					
TLD5DCH0920S10	0	9.2	62	120	10					
TLD5DCH0930S10	0	9.3	62	120	10					
TLD5DCH0940S10	0	9.4	63	120	10					
TLD5DCH0950S10	0	9.5	64	120	10					
TLD5DCH0960S10	0	9.6	64	120	10					
TLD5DCH0970S10	0	9.7	65	120	10					
TLD5DCH0980S10	0	9.8	66	120	10					
TLD5DCH0990S10	0	9.9	66	120	10					
TLD5DCH1000S10	0	10	67	120	10					
TLD5DCH1010S11	0	10.1	68	130	11					

• Standard stock item O Stock in Japan



"Indexable Spot facing drill" TLZD type







TLZD



Series expansion, new modular head TLZD type (flat face).

Suitable for spot facing in case of long overhung length such as stamping die or large-sized mold part.

Feature of product

Features 1

Size range: ϕ 14- ϕ 32mm dia. And even in case of long overhung length, stable machining can be possible by combination with MSN carbide shank arbor.





Achieved non-step drilling without pilot hole even if drilling slope surface and crossed hole.

Features **3**

By adopting new PVD coated grade "JC7550" and unique coolant system, achieved longer tool life even if drilling mold steel or stainless steel.

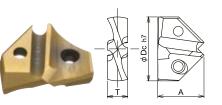
Features 4

Drilling depth: 0.7-1D.

"Indexable Spot facing drill" TLZD type

Line up

TLZD-SS type

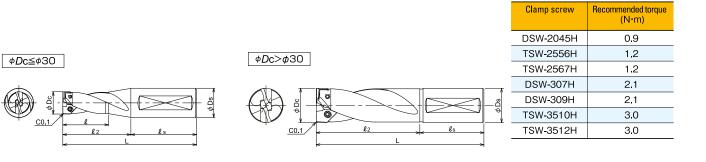


- Through coolant hole
 Drilling depth: 1.5×Dc
- SS type (1.5D)



Insert					Bod	у								Parts	1/2
		In	sert					Body	Par	ts					
Drill dia. (mm)		PVD coated		ensions nm)	Applica	ible dia.		SS ty	pe (1.5l					Clamp screw	Wrench
φDc	Insert No.	JC7550	А	т	Over	Or under	Tool No.	Stock	l	Dimen L2	sions(r Ls	mm)	φDs		2X
14	TLZ1400	•												-	
14.1	TLZ1410	•									48			DSW-2045H	
14.2	TLZ1420	•	10.6		105					10			10		
14.3	TLZ1430	•		4.5	13.5	14.5	TLZD1400S16-SS		29	43		91	16		A-07
14.4	TLZ1440	•													
14.5	TLZ1450	•													
14.6	TLZ1460	•													
14.7	TLZ1470														
14.8	TLZ1480						TI 7D1500520 SS			46					
14.9	TLZ1490	•													A-07
15	TLZ1500	•	11.2	4.8	14.5	15.5		•	21		50	06	20	DSW 20451	
15.1	TLZ1510	•	11.3				TLZD1500S20-SS		31			96	20	DSW-2045H	
15.2	TLZ1520	•	1												
15.3	TLZ1530	•	1												
15.4	TLZ1540	•													
15.5	TLZ1550	•	1												
15.6	TLZ1560	•													
15.7	TLZ1570														
15.8	TLZ1580	•													
15.9	TLZ1590														
16	TLZ1600	•		5.0	15.5	16.5	TLZD1600S20-SS		33	49	50	99	20	TSW-2556H	A-08
16.1	TLZ1610	•	12.1	5.0	13.5	10.5	1201000320-33		00	49		99	20	100-200011	A-00
16.2	TLZ1620	•													
16.3	TLZ1630	•													
16.4	TLZ1640														
16.5	TLZ1650	•													
16.6	TLZ1660	•													
16.7	TLZ1670	•													
16.8	TLZ1680	•													
16.9	TLZ1690	•													
17	TLZ1700	•	12.6	5.5	16.5	17.5	TLZD1700S20-SS	•	35	52	50	102	20	TSW-2556H	A-08
17.1	TLZ1710	•		0.0			.220110002000		00	02		102			
17.2	TLZ1720	•													
17.3	TLZ1730	•													
17.4	TLZ1740	•													
17.5	TLZ1750														
17.6	TLZ1760	•													
17.7	TLZ1770	•													
17.8	TLZ1780														
17.9	TLZ1790	•													
18	TLZ1800	•	13.2	5.8	17.5	18.5	TLZD1800S20-SS		37	55	50	105	20	TSW-2556H	A-08
18.1	TLZ1810						00								
18.2	TLZ1820	•													
18.3	TLZ1830	•													
18.4	TLZ1840	•													
18.5	TLZ1850	•													





Insert					Boo	dy	Parts 2/2								
		Insert						Part	S						
Drill dia. (mm)		PVD coated		ensions nm)	Applica	able dia.		SS ty	pe (1.5l))				Clamp screw	Wrench
	Insert No.	107550		-						Dimen	sions (r	nm)	R	(Not be included)	
<i>∳D</i> c	insert ive.	JC7550			Or under	Tool No.	Stock	l	l2	ls	L	φDs			
18.6	TLZ1860	•													
18.7	TLZ1870	•													
18.8	TLZ1880														
18.9	TLZ1890														
19	TLZ1900		13.6	6.0	18,5	19.5	TLZD1900S25-SS	•	39	58	56	114	25	TSW-2567H	A-08
19.1	TLZ1910														
19.2	TLZ1920														
19.3	TLZ1930														
19.4	TLZ1940														
19.5	TLZ1950	•													
19.6	TLZ1960	•										117			
19.7	TLZ1970														
19.8	TLZ1980		14.6	6.5	19.5	20.5	TLZD2000S25-SS		41	61	56		25	TSW-2567H	A-08
19.9	TLZ1990	•													
20	TLZ2000	•													
20.5	TLZ2050	•													
21	TLZ2100	•	15.2	6.7	20.5	21.5	TLZD2100S25-SS		43	64	56	120	25	TSW-2567H	A-08
21.5	TLZ2150	•													
22	TLZ2200	•	15.9	7.5	21.5	22.5	TLZD2200S25-SS		45	67	56	123	25	DSW-307H	A-10
22.5 23	TLZ2250	•													
	TLZ2300	•	16.7	7.5	22.5	23.5	TLZD2300S25-SS		47	70	0 56	126	25	DSW-307H	A-10
23.5 24	TLZ2350	•													
24	TLZ2400 TLZ2450		17.4	8.0	23.5	24.5	TLZD2400S32-SS		49	73	60	133	32	DSW-307H	A-10
24.5	TLZ2450	•													
25.5	TLZ2500		18.3	8.0	24.5	25.5	TLZD2500S32-SS		51	76	60	136	32	DSW-309H	A-10
25.5	TLZ2550														
26.5	TLZ2600	•	18.8	8.5	25.5	26.5	TLZD2600S32-SS		53	79	60	139	32	DSW-309H	A-10
20.3	TLZ2050	•													
27.5	TLZ2700		19.5	8.5	26.5	27.5	TLZD2700S32-SS		55	82	60	142	32	DSW-309H	A-10
27.5	TLZ2750														
28.5	TLZ2800		20.3	9.0	27.5	28.5	TLZD2800S32-SS		57	85	60	145	32	TSW-3510H	A-15
20.5	TLZ2830														
29.5	TLZ2900		21.1	9.0	28.5	29.5	TLZD2900S32-SS		59	88	60	148	32	TSW-3510H	A-15
30	TLZ2930	•													
30.5	TLZ3050	•	21.5	9.5	29.5	30.5	TLZD3000S32-SS		61	91	60	151	32	TSW-3510H	A-15
31	TLZ3030	•													
31.5	TLZ3150		22.3	10.0	30.5	31.5	TLZD3100S32-SS		-	94	60	154	32	TSW-3512H	A-15
32	TLZ3130		23.1	10.0	31.5	32.5	TLZD3200S32-SS	•	_	97	60	157	32	TSW-3512H	A-15
	120200		20.1	10.0	01.0	52.0				0,		107	02	. 511 001211	

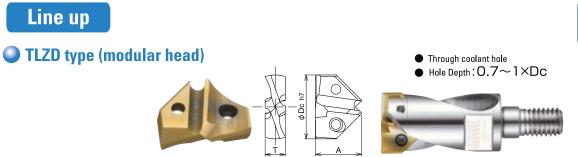
1 insert per case 🔹 🕒 : Standard stock items

Note) All cutters are supplied without inserts, wrench and MOLY.



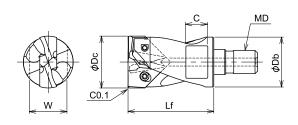
"Indexable Spot facing drill" TLZD type

Line up



							<u> </u>	-		->						Recommanded
Inse	ert				Bo	ody								Parts		Recommended arbor 1/2
		Insert						Bo	ody					Part	ts	Arbor
Drill dia.		PVD		nsions		cable	TL	TLZD type (0.7-1D)								
(mm)		coated	(m	m)	C	lia.								Clamp screw	Wrench (Not be included)	
φDc	Insert No.	JC7550	A	т	Over	Or under	Tool No.	Stock	1.5		nsions			e la companya de la compa		
									Lf	φDb	ND	С	W			
14	TLZ1400	•														
14.1 14.2	TLZ1410	•														
14.2	TLZ1420 TLZ1430	•	10.6	4.5	13.5	14.5	TLZD1400-M6		27.5	13.1	M6	7	10	DSW-2045H	A-07	MSN-M6-**-S16C
14.4	TLZ1430	•														
14.5	TLZ1440 TLZ1450	•														
14.6	TLZ1450 TLZ1460	•														
14.7	TLZ1400 TLZ1470	•														
14.8	TLZ1470	•														
14.9	TLZ1400	•						•						DSW-2045H	A-07	
15	TLZ1400	•					5 TLZD1500-M8									
15.1	TLZ1510	•	11.3	4.8	14.5	5 15.5			29.5	14	M8	8	12			MSN-M8-**S-S14C
15.2	TLZ1520	•														
15.3	TLZ1530	•														
15.4	TLZ1540	•														
15.5	TLZ1550	•														
15.6	TLZ1560	•														
15.7	TLZ1570	•	1													
15.8	TLZ1580		1													
15.9	TLZ1590	•	1		15.5	5 16.5										
16	TLZ1600	•	101	-			TLZD1600-M8		29.5	15	M0	0	10	TSW-2556H	A-08	
16.1	TLZ1610	•	12.1	5.0					29.5	15	M8	8	12			MSN-M8-**S-S15C
16.2	TLZ1620		1													
16.3	TLZ1630		1													
16.4	TLZ1640															
16.5	TLZ1650															
16.6	TLZ1660															
16.7	TLZ1670															
16.8	TLZ1680															
16.9	TLZ1690															
17	TLZ1700	•	12.6	5.5	16.5	17.5	TLZD1700-M8	•	30.5	16	M8	8	12	TSW-2556H	A-08	MSN-M8-**S-S16C
17.1	TLZ1710	•						-	10.0			-				
17.2	TLZ1720	•														
17.3	TLZ1730	•														
17.4	TLZ1740	•														
17.5	TLZ1750	•														
17.6	TLZ1760	•	-													
17.7	TLZ1770	•														
17.8	TLZ1780	•														
17.9	TLZ1790	•	-													
18	TLZ1800	•	13.2	5.8	17.5	18.5	TLZD1800-M8	•	30.5	17	M8	8	12	TSW-2556H	A-08	MSN-M8-**S-S16C
18.1	TLZ1810	•		2 0.0					50.5				12			
18.2	TLZ1820	•														
18.3	TLZ1830	•														
18.4	TLZ1840	•														
18.5	TLZ1850				1											





Clamp screw	Recommended 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

Drill dia.						dy								Parts		arbor 2/2
		nsert						Bo	dy					Part	S	Arbor
(mm)		PVD coated	Dimer (mr		Appli d	cable ia.	TLZ	ZD typ	e (0.7-'	ID)				Clamp screw	Wrench	
φDc	Insert No.	JC7550	А	т	Over	Or under	Tool No.	Stock	Lf	Dime <i>φDb</i>	nsions MD	(mm) C	W		25	
18.6	TLZ1860	•														
18.7	TLZ1870	۲														
	TLZ1880															
	TLZ1890	•										9				
	TLZ1900	•	13.6	6.0	18.5	19.5	TLZD1900-M10		38.5	18	м10		14	TSW-2567H	A-08	MSN-M10-**S-S18C
	TLZ1910	•											14	13W-2307H		
	TLZ1920	•														
	TLZ1930	•														
	TLZ1940	•														
	TLZ1950	<u> </u>														
	TLZ1960 TLZ1970	•														
	TLZ1970	•				5 20.5							14	TSW-2567H	A-08	
	TLZ1980	•	14.6	6.5	19.5		TLZD2000-M10		38.5	19	M10	9				MSN-M10-**-S20C
	TLZ2000	•														
	TLZ2000	•														
	TLZ2000	•						-								
	TLZ2150	•	15.2	6.7	20.5	21.5	TLZD2100-M10		38.5	20	M10	9	14	TSW-2567H	A-08	MSN-M10-**S-S20C
	TLZ2200	•	150	7 5	04.5	00 F	TI 700000 M40		00 F	0.1				D014/00711		
22.5	TLZ2250	٠	15.9	7.5	21.5	22.5	TLZD2200-M10		38.5	21	M10	9	14	DSW-307H	A-10	MSN-M10-**S-S20C
23	TLZ2300	•	16.7	7.5	22.5	00 E	TLZD2300-M10	•	38.5	22	м10	9	14	DSW-307H	A-10	MSN-M10-**S-S20C
23.5	TLZ2350	•	10.7	7.5	22.5	23.5	1222300-10110		30.5	22	WITU	9	14	D3W-307H	A-10	W3N-WT0-**3-320C
24	TLZ2400	۲	17.4	8.0	23.5	24 5	TLZD2400-M12		43	23	M12	11	19	DSW-307H	A-10	MSN-M12-**S-S23C
	TLZ2450	•		0.0	20.0	27.0				20	WITZ		13	Ben 66/11	7.10	
	TLZ2500	•	18.3	8.0	24.5	25.5	TLZD2500-M12	•	43	24	M12	11	19	DSW-309H	A-10	MSN-M12-**-S25C
	TLZ2550	•														
	TLZ2600	•	18.8	8.5	25.5	26.5	TLZD2600-M12	•	43	25	M12	11	19	DSW-309H	A-10	MSN-M12-**S-S25C
	TLZ2650	•														
	TLZ2700	•	19.5	8.5	26.5	27.5	TLZD2700-M12	•	43	26	M12	11	19	DSW-309H	A-10	MSN-M12-**S-S25C
	TLZ2750 TLZ2800	•														
	TLZ2800 TLZ2850	•	20.3	9.0	27.5	28.5	TLZD2800-M12		43	27	M12	11	19	TSW-3510H	A-15	MSN-M12-**S-S25C
	TLZ2850 TLZ2900									_						
	TLZ2900	•	21.1	9.0	28.5	29.5	TLZD2900-M16		51	28	M16	12	22	TSW-3510H	A-15	MSN-M16-**S-S28C
	TLZ2930	•														
	TLZ3050	•	21.5	9.5	29.5	30.5	TLZD3000-M16		51	29	M16	12	22	TSW-3510H	A-15	MSN-M16-**-S32C
	TLZ3100	•		10.5	0.5	<u> </u>			_							
	TLZ3150	•	22.3	10.0	30.5	31.5	TLZD3100-M16		51	30	M16	12	22	TSW-3512H	A-15	MSN-M16-**-S32C
	TLZ3200	•	23.1	10.0	31.5	32.5	TLZD3200-M16	•	51	31	M16	14	26	TSW-3512H	A-15	MSN-M16-**-S32C

1 insert per case • : Standard stock items

Note) All cutters are supplied without inserts, wrench and MOLY.





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