

**PRODUCT  
NEWS**

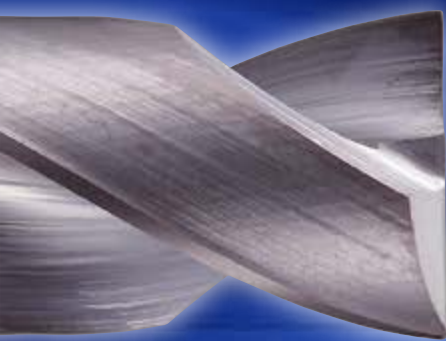
**PN-E-014**

**SERIES EXPANSION**

 **DIJET®**

# 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**



**DIJET GmbH**

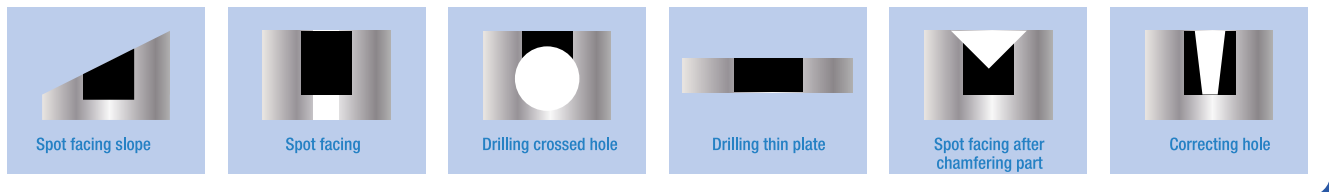
**[www.dijet.de](http://www.dijet.de)**

# Spot facing drill

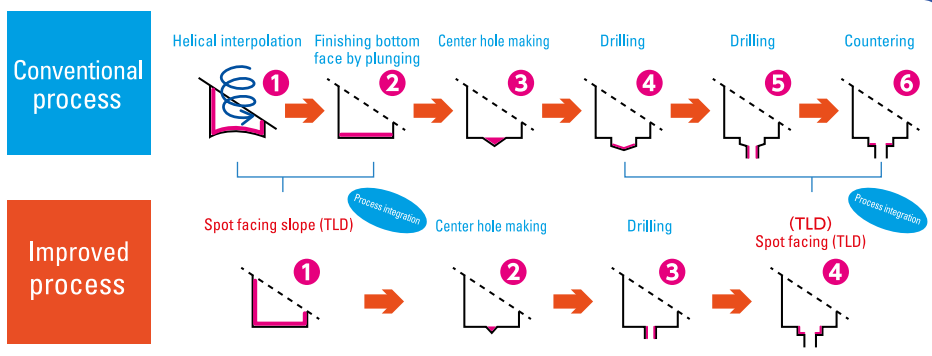
## Feature of product

Because of multi application, achieved process integration

### The main usage

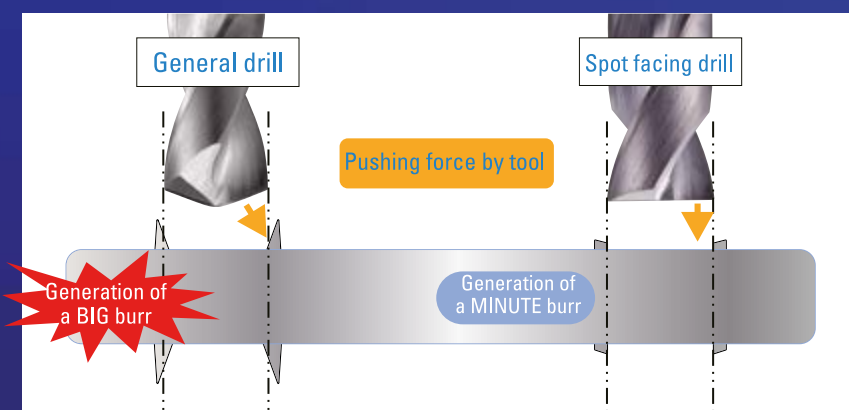


### Example of process integration

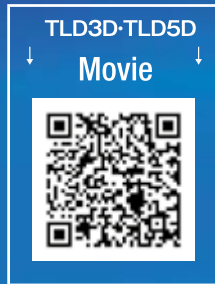
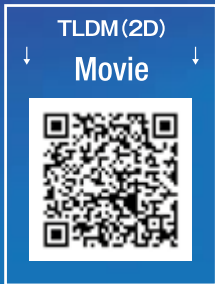
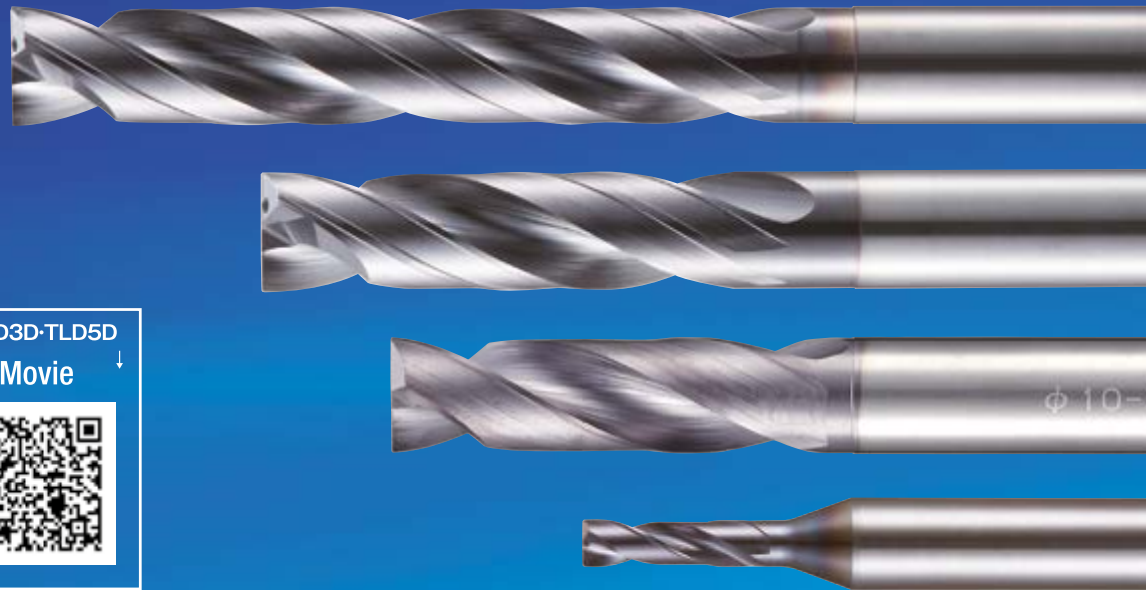


Widely applied from carbon & mold steel to stainless steel, cast iron & aluminum alloy

### Restraining entrance burr and exit burr

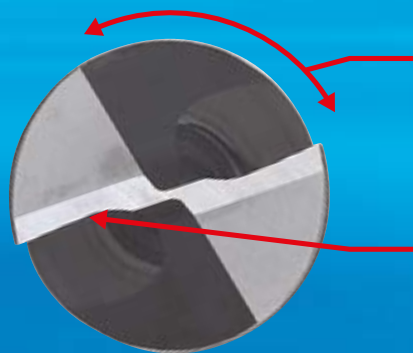


Useful in situations where burr processing is difficult, such as crossed hole processing



■ **TLDM** TLDM type (Drilling depth  $2 \times D_c$ )

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  $3 \times D_c / 5 \times D_c$ )

Through coolant hole type  
Specializing in deep hole drilling



- Wide flute design and  
Smooth surface treatment  
Good chip discharge performance
- Double margin shape  
Improved straightness of the drilling
- Low cutting force  
Excellent biting property

## Line up

### TLDM type

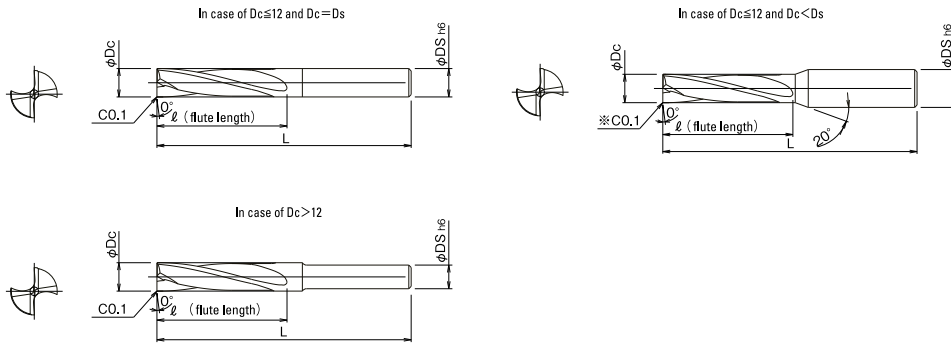
- Spot facing drill with point angle of 180° (flat face)
- Drilling depth 2×Dc
- Helix angle: 30°



Cat. No.	Stock	Dimensions (mm)			
		φDc	ℓ	L	φDs
TLDM010	○	1	3	60	3
TLDM011	○	1.1	3.3	60	3
TLDM012	○	1.2	3.6	60	3
TLDM013	○	1.3	3.9	60	3
TLDM014	○	1.4	4.2	60	3
TLDM015	○	1.5	4.5	60	3
TLDM016	○	1.6	4.8	60	3
TLDM017	○	1.7	5.1	60	3
TLDM018	○	1.8	5.4	60	3
TLDM019	○	1.9	5.7	60	3
TLDM020	○	2	7	60	4
TLDM021	○	2.1	7.5	60	4
TLDM022	○	2.2	8	60	4
TLDM023	○	2.3	8.5	60	4
TLDM024	○	2.4	9	60	4
TLDM025	○	2.5	9.5	60	4
TLDM026	○	2.6	10	60	4
TLDM027	○	2.7	10.5	60	4
TLDM028	○	2.8	11	60	4
TLDM029	○	2.9	11.5	60	4
TLDM030	○	3	12	60	4
TLDM030-S6	○	3	12	60	6
TLDM031	○	3.1	12	60	4
TLDM031-S6	○	3.1	12	60	6
TLDM032	○	3.2	12	60	4
TLDM032-S6	○	3.2	12	60	6
TLDM033	○	3.3	13	60	4
TLDM033-S6	○	3.3	13	60	6
TLDM034	○	3.4	13	60	4
TLDM034-S6	○	3.4	13	60	6
TLDM035	○	3.5	13	60	4
TLDM035-S6	○	3.5	13	60	6

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

●: Standard stock item ○: Stock in Japan



● Tolerance of drill diameter (mm)

Drill dia.	Tolerance
$Dc \leq 3$	$\begin{matrix} 0 \\ -0.010 \end{matrix}$
$3 < Dc \leq 6$	$\begin{matrix} 0 \\ -0.012 \end{matrix}$
$6 < Dc \leq 10$	$\begin{matrix} 0 \\ -0.015 \end{matrix}$
$10 < Dc \leq 18$	$\begin{matrix} 0 \\ -0.018 \end{matrix}$

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

Cat. No.	Stock	Dimensions (mm)			
		$\phi Dc$	$\ell$	L	$\phi Ds$
TLDM095	○	9.5	37	80	10
TLDM096	○	9.6	37	80	10
TLDM097	○	9.7	37	80	10
TLDM098	○	9.8	38	80	10
TLDM099	○	9.9	38	80	10
TLDM100	○	10	39	80	10
TLDM101	○	10.1	39	85	12
TLDM102	○	10.2	39	85	12
TLDM103	○	10.3	40	85	12
TLDM104	○	10.4	40	85	12
TLDM105	○	10.5	40	85	12
TLDM106	○	10.6	41	85	12
TLDM107	○	10.7	41	85	12
TLDM108	○	10.8	42	85	12
TLDM109	○	10.9	42	85	12
TLDM110	○	11	42	85	12
TLDM111	○	11.1	43	85	12
TLDM112	○	11.2	43	85	12
TLDM113	○	11.3	44	85	12
TLDM114	○	11.4	44	85	12
TLDM115	○	11.5	44	85	12
TLDM116	○	11.6	45	90	12
TLDM117	○	11.7	45	90	12
TLDM118	○	11.8	45	90	12
TLDM119	○	11.9	46	90	12
TLDM120	○	12	46	90	12
TLDM125	○	12.5	48	95	12
TLDM130	○	13	50	100	12
TLDM135	○	13.5	52	100	12
TLDM140	○	14	54	100	12

● : Standard stock item ○ : Stock in Japan

Recommended cutting conditions ↓



## 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

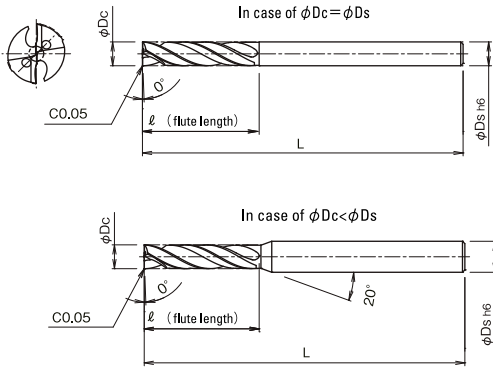


Cat. No.	Stock	Dimensions (mm)			
		φDc	ℓ	L	φDs
TLD3DCH0300S03	●	3	14	60	3
TLD3DCH0310S04	●	3.1	14	60	4
TLD3DCH0320S04	●	3.2	15	60	4
TLD3DCH0330S04	●	3.3	15	60	4
TLD3DCH0340S04	●	3.4	16	60	4
TLD3DCH0350S04	●	3.5	16	60	4
TLD3DCH0360S04	●	3.6	17	60	4
TLD3DCH0370S04	●	3.7	17	60	4
TLD3DCH0380S04	●	3.8	18	60	4
TLD3DCH0390S04	●	3.9	18	60	4
TLD3DCH0400S04	●	4	18	60	4
TLD3DCH0410S05	●	4.1	19	65	5
TLD3DCH0420S05	●	4.2	19	65	5
TLD3DCH0430S05	●	4.3	20	65	5
TLD3DCH0440S05	●	4.4	20	65	5
TLD3DCH0450S05	●	4.5	21	65	5
TLD3DCH0460S05	●	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

Cat. No.	Stock	Dimensions (mm)			
		φDc	ℓ	L	φDs
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	●	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

● Standard stock item ○ Stock in Japan





● Tolerance of drill diameter (mm)

Drill dia.	Tolerance
$D_c \leq 3$	$\begin{matrix} 0 \\ -0.010 \end{matrix}$
$3 < D_c \leq 6$	$\begin{matrix} 0 \\ -0.012 \end{matrix}$
$6 < D_c \leq 10$	$\begin{matrix} 0 \\ -0.015 \end{matrix}$
$10 < D_c \leq 18$	$\begin{matrix} 0 \\ -0.018 \end{matrix}$

Cat. No.	Stock	Dimensions (mm)			
		$\phi D_c$	$\ell$	L	$\phi D_s$
TLD3DCH0780S08	●	7.8	36	80	8
TLD3DCH0790S08	●	7.9	36	80	8
TLD3DCH0800S08	●	8	36	80	8
TLD3DCH0810S09	●	8.1	37	90	9
TLD3DCH0820S09	●	8.2	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

Cat. No.	Stock	Dimensions (mm)			
		$\phi D_c$	$\ell$	L	$\phi D_s$
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	●	10.8	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

● Standard stock item ○ Stock in Japan

Recommended cutting conditions ↓



## 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

Through  
coolant  
hole

DV  
coating

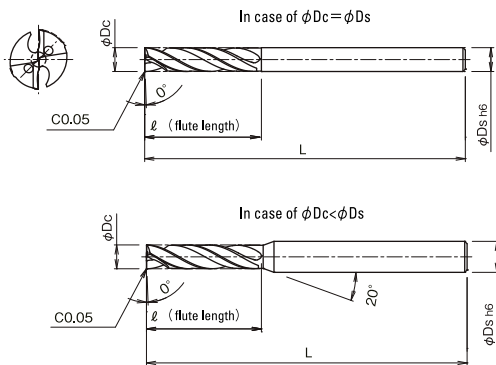


Cat. No.	Stock	Dimensions (mm)			
		φDc	ℓ	L	φDs
TLD5DCH0300S03	○	3	20	70	3
TLD5DCH0310S04	○	3.1	21	70	4
TLD5DCH0320S04	○	3.2	22	70	4
TLD5DCH0330S04	○	3.3	22	70	4
TLD5DCH0340S04	○	3.4	23	70	4
TLD5DCH0350S04	○	3.5	24	70	4
TLD5DCH0360S04	○	3.6	24	70	4
TLD5DCH0370S04	○	3.7	25	70	4
TLD5DCH0380S04	○	3.8	26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

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

● Standard stock item ○ Stock in Japan





● Tolerance of drill diameter (mm)

Drill dia.	Tolerance
$D_c \leq 3$	$\begin{matrix} 0 \\ -0.010 \end{matrix}$
$3 < D_c \leq 6$	$\begin{matrix} 0 \\ -0.012 \end{matrix}$
$6 < D_c \leq 10$	$\begin{matrix} 0 \\ -0.015 \end{matrix}$
$10 < D_c \leq 18$	$\begin{matrix} 0 \\ -0.018 \end{matrix}$

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

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

● Standard stock item ○ Stock in Japan

Recommended cutting conditions ↓

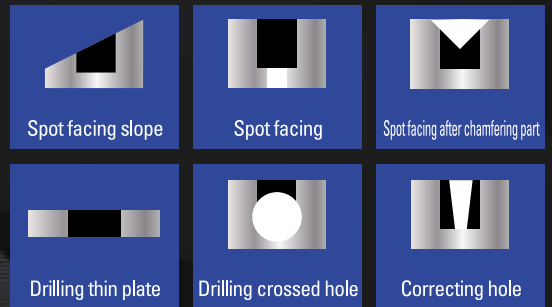


# "Indexable Spot facing drill" TLZD type



- Flat face
- Achieved non-step drilling
- Size range:  $\phi 14$ - $\phi 32$ mm dia.(Drilling depth: 1.5D)

## Application



## Feature of product

### Features 1

TLZD can be used repeatedly only by exchanging insert. Easy assembly of insert & body.

### Features 2

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

Controlled burr in case of drilling thin plate.



Achieved low cutting force

Exclusive design body for TLZD.





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



### Features 2

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

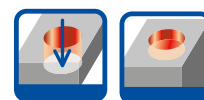
### Features 3

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

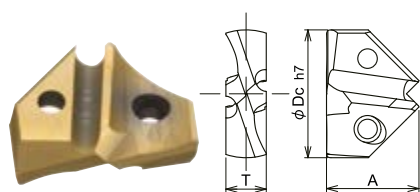
Drilling depth: 0.7-1D.

# "Indexable Spot facing drill" TLZD type



## Line up

### TLZD-SS type



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

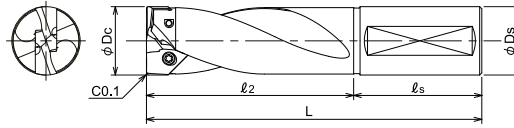
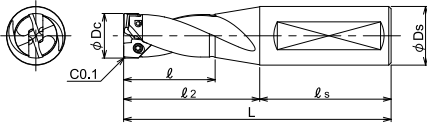


Insert			Body						Parts						
Drill dia. (mm)	Insert No.	PVD coated	Dimensions (mm)		Applicable dia.		SS type (1.5D)					Clamp screw	Wrench (Not be included)		
		JC7550	A	T	Over	Or under	Tool No.	Stock	Dimensions (mm)						
φDc								ℓ	ℓ <sub>2</sub>	ℓ <sub>s</sub>	L	φD <sub>s</sub>			
14	TLZ1400	●	10.6	4.5	13.5	14.5	TLZD1400S16-SS	●	29	43	48	91	16	DSW-2045H	A-07
14.1	TLZ1410	●													
14.2	TLZ1420	●													
14.3	TLZ1430	●													
14.4	TLZ1440	●													
14.5	TLZ1450	●													
14.6	TLZ1460	●	11.3	4.8	14.5	15.5	TLZD1500S20-SS	●	31	46	50	96	20	DSW-2045H	A-07
14.7	TLZ1470	●													
14.8	TLZ1480	●													
14.9	TLZ1490	●													
15	TLZ1500	●													
15.1	TLZ1510	●													
15.2	TLZ1520	●	12.1	5.0	15.5	16.5	TLZD1600S20-SS	●	33	49	50	99	20	TSW-2556H	A-08
15.3	TLZ1530	●													
15.4	TLZ1540	●													
15.5	TLZ1550	●													
15.6	TLZ1560	●													
15.7	TLZ1570	●													
15.8	TLZ1580	●	12.6	5.5	16.5	17.5	TLZD1700S20-SS	●	35	52	50	102	20	TSW-2556H	A-08
15.9	TLZ1590	●													
16	TLZ1600	●													
16.1	TLZ1610	●													
16.2	TLZ1620	●													
16.3	TLZ1630	●													
16.4	TLZ1640	●	13.2	5.8	17.5	18.5	TLZD1800S20-SS	●	37	55	50	105	20	TSW-2556H	A-08
16.5	TLZ1650	●													
16.6	TLZ1660	●													
16.7	TLZ1670	●													
16.8	TLZ1680	●													
16.9	TLZ1690	●													
17	TLZ1700	●													
17.1	TLZ1710	●													
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	●													
18.1	TLZ1810	●													
18.2	TLZ1820	●													
18.3	TLZ1830	●													
18.4	TLZ1840	●													
18.5	TLZ1850	●													

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

$\phi Dc \leq \phi 30$

$\phi Dc > \phi 30$



■ Insert

■ Body

■ Parts

2/2

Drill dia. (mm)	Insert				Body								Parts		
	Insert No.	PVD coated	Dimensions (mm)		Applicable dia.		SS type (1.5D)						Clamp screw 	Wrench (Not be included) 	
		JC7550	A	T	Over	Or under	Tool No.	Stock	Dimensions (mm)						
$\phi Dc$								$l$	$l_2$	$l_s$	$L$	$\phi Ds$			
18.6	TLZ1860	●	13.6	6.0	18.5	19.5	TLZD1900S25-SS	●	39	58	56	114	25	TSW-2567H	A-08
18.7	TLZ1870	●													
18.8	TLZ1880	●													
18.9	TLZ1890	●													
19	TLZ1900	●													
19.1	TLZ1910	●													
19.2	TLZ1920	●													
19.3	TLZ1930	●													
19.4	TLZ1940	●													
19.5	TLZ1950	●													
19.6	TLZ1960	●	14.6	6.5	19.5	20.5	TLZD2000S25-SS	●	41	61	56	117	25	TSW-2567H	A-08
19.7	TLZ1970	●													
19.8	TLZ1980	●													
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	●													
22.5	TLZ2250	●	15.9	7.5	21.5	22.5	TLZD2200S25-SS	●	45	67	56	123	25	DSW-307H	A-10
23	TLZ2300	●													
23.5	TLZ2350	●	16.7	7.5	22.5	23.5	TLZD2300S25-SS	●	47	70	56	126	25	DSW-307H	A-10
24	TLZ2400	●													
24.5	TLZ2450	●	17.4	8.0	23.5	24.5	TLZD2400S32-SS	●	49	73	60	133	32	DSW-307H	A-10
25	TLZ2500	●													
25.5	TLZ2550	●													
26	TLZ2600	●	18.3	8.0	24.5	25.5	TLZD2500S32-SS	●	51	76	60	136	32	DSW-309H	A-10
26.5	TLZ2650	●													
27	TLZ2700	●	18.8	8.5	25.5	26.5	TLZD2600S32-SS	●	53	79	60	139	32	DSW-309H	A-10
27.5	TLZ2750	●													
28	TLZ2800	●	19.5	8.5	26.5	27.5	TLZD2700S32-SS	●	55	82	60	142	32	DSW-309H	A-10
28.5	TLZ2850	●													
29	TLZ2900	●													
29.5	TLZ2950	●	20.3	9.0	27.5	28.5	TLZD2800S32-SS	●	57	85	60	145	32	TSW-3510H	A-15
30	TLZ3000	●													
30.5	TLZ3050	●	21.1	9.0	28.5	29.5	TLZD2900S32-SS	●	59	88	60	148	32	TSW-3510H	A-15
31	TLZ3100	●													
31.5	TLZ3150	●	21.5	9.5	29.5	30.5	TLZD3000S32-SS	●	61	91	60	151	32	TSW-3510H	A-15
32	TLZ3200	●													
		●	22.3	10.0	30.5	31.5	TLZD3100S32-SS	●	-	94	60	154	32	TSW-3512H	A-15
		●													
		●	23.1	10.0	31.5	32.5	TLZD3200S32-SS	●	-	97	60	157	32	TSW-3512H	A-15
		●													

1 insert per case ● : Standard stock items

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

Recommended cutting conditions ↓

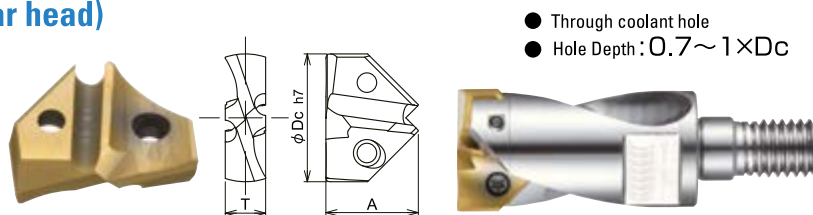


# "Indexable Spot facing drill" TLZD type



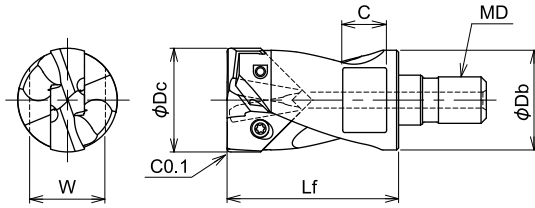
## Line up

### TLZD type (modular head)



Insert			Body				Parts		Recommended arbor							
Drill dia. (mm)	Insert		Dimensions (mm)		Applicable dia.		TLZD type (0.7-1D)					Clamp screw	Wrench (Not be included)	Arbor		
	Insert No.	PVD coated	A	T	Over	Or under	Tool No.	Stock	Dimensions (mm)							
φDc		JC7550							Lf	φDb	MD	C	W			
14	TLZ1400	●	10.6	4.5	13.5	14.5	TLZD1400-M6	●	27.5	13.1	M6	7	10	DSW-2045H	A-07	MSN-M6-**-S16C
14.1	TLZ1410	●														
14.2	TLZ1420	●														
14.3	TLZ1430	●														
14.4	TLZ1440	●														
14.5	TLZ1450	●														
14.6	TLZ1460	●	11.3	4.8	14.5	15.5	TLZD1500-M8	●	29.5	14	M8	8	12	DSW-2045H	A-07	MSN-M8-**-S14C
14.7	TLZ1470	●														
14.8	TLZ1480	●														
14.9	TLZ1490	●														
15	TLZ1500	●														
15.1	TLZ1510	●														
15.2	TLZ1520	●														
15.3	TLZ1530	●														
15.4	TLZ1540	●														
15.5	TLZ1550	●														
15.6	TLZ1560	●	12.1	5.0	15.5	16.5	TLZD1600-M8	●	29.5	15	M8	8	12	TSW-2556H	A-08	MSN-M8-**-S15C
15.7	TLZ1570	●														
15.8	TLZ1580	●														
15.9	TLZ1590	●														
16	TLZ1600	●														
16.1	TLZ1610	●														
16.2	TLZ1620	●														
16.3	TLZ1630	●														
16.4	TLZ1640	●														
16.5	TLZ1650	●														
16.6	TLZ1660	●	12.6	5.5	16.5	17.5	TLZD1700-M8	●	30.5	16	M8	8	12	TSW-2556H	A-08	MSN-M8-**-S16C
16.7	TLZ1670	●														
16.8	TLZ1680	●														
16.9	TLZ1690	●														
17	TLZ1700	●														
17.1	TLZ1710	●														
17.2	TLZ1720	●														
17.3	TLZ1730	●														
17.4	TLZ1740	●														
17.5	TLZ1750	●														
17.6	TLZ1760	●	13.2	5.8	17.5	18.5	TLZD1800-M8	●	30.5	17	M8	8	12	TSW-2556H	A-08	MSN-M8-**-S16C
17.7	TLZ1770	●														
17.8	TLZ1780	●														
17.9	TLZ1790	●														
18	TLZ1800	●														
18.1	TLZ1810	●														
18.2	TLZ1820	●														
18.3	TLZ1830	●														
18.4	TLZ1840	●														
18.5	TLZ1850	●														





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

Insert			Body				Parts		Recommended arbor							
Drill dia. (mm)	Insert		Body				Clamp screw	Wrench (Not be included)	Arbor							
	Insert No.	PVD coated	Dimensions (mm)		Applicable dia.					TLZD type (0.7-1D)						
φDc	JC7550	A	T	Over	Or under	Tool No.	Stock	Dimensions (mm)								
								Lf	φDb	MD	C	W				
18.6	TLZ1860	●	13.6	6.0	18.5	19.5	TLZD1900-M10	●	38.5	18	M10	9	14	TSW-2567H	A-08	MSN-M10-***S-18C
18.7	TLZ1870	●														
18.8	TLZ1880	●														
18.9	TLZ1890	●														
19	TLZ1900	●														
19.1	TLZ1910	●	14.6	6.5	19.5	20.5	TLZD2000-M10	●	38.5	19	M10	9	14	TSW-2567H	A-08	MSN-M10-**-S20C
19.2	TLZ1920	●														
19.3	TLZ1930	●														
19.4	TLZ1940	●														
19.5	TLZ1950	●														
19.6	TLZ1960	●	15.2	6.7	20.5	21.5	TLZD2100-M10	●	38.5	20	M10	9	14	TSW-2567H	A-08	MSN-M10-***S-20C
19.7	TLZ1970	●														
19.8	TLZ1980	●														
19.9	TLZ1990	●														
20	TLZ2000	●														
20.5	TLZ2050	●	15.9	7.5	21.5	22.5	TLZD2200-M10	●	38.5	21	M10	9	14	DSW-307H	A-10	MSN-M10-***S-20C
21	TLZ2100	●														
21.5	TLZ2150	●														
22	TLZ2200	●														
22.5	TLZ2250	●														
23	TLZ2300	●	16.7	7.5	22.5	23.5	TLZD2300-M10	●	38.5	22	M10	9	14	DSW-307H	A-10	MSN-M10-***S-20C
23.5	TLZ2350	●														
24	TLZ2400	●														
24.5	TLZ2450	●														
25	TLZ2500	●														
25.5	TLZ2550	●	17.4	8.0	23.5	24.5	TLZD2400-M12	●	43	23	M12	11	19	DSW-307H	A-10	MSN-M12-***S-23C
26	TLZ2600	●														
26.5	TLZ2650	●														
27	TLZ2700	●														
27.5	TLZ2750	●														
28	TLZ2800	●	18.3	8.0	24.5	25.5	TLZD2500-M12	●	43	24	M12	11	19	DSW-309H	A-10	MSN-M12-**-S25C
28.5	TLZ2850	●														
29	TLZ2900	●														
29.5	TLZ2950	●														
30	TLZ3000	●														
30.5	TLZ3050	●	18.8	8.5	25.5	26.5	TLZD2600-M12	●	43	25	M12	11	19	DSW-309H	A-10	MSN-M12-***S-25C
31	TLZ3100	●														
31.5	TLZ3150	●														
32	TLZ3200	●														
32.5	TLZ3250	●														
33	TLZ3300	●	19.5	8.5	26.5	27.5	TLZD2700-M12	●	43	26	M12	11	19	DSW-309H	A-10	MSN-M12-***S-25C
34	TLZ3400	●														
34.5	TLZ3450	●														
35	TLZ3500	●														
35.5	TLZ3550	●														
36	TLZ3600	●	20.3	9.0	27.5	28.5	TLZD2800-M12	●	43	27	M12	11	19	TSW-3510H	A-15	MSN-M12-***S-25C
37	TLZ3700	●														
37.5	TLZ3750	●														
38	TLZ3800	●														
38.5	TLZ3850	●														
39	TLZ3900	●	21.1	9.0	28.5	29.5	TLZD2900-M16	●	51	28	M16	12	22	TSW-3510H	A-15	MSN-M16-***S-28C
39.5	TLZ3950	●														
40	TLZ4000	●														
40.5	TLZ4050	●														
41	TLZ4100	●														
41.5	TLZ4150	●	21.5	9.5	29.5	30.5	TLZD3000-M16	●	51	29	M16	12	22	TSW-3510H	A-15	MSN-M16-**-S32C
42	TLZ4200	●														
42.5	TLZ4250	●														
43	TLZ4300	●														
43.5	TLZ4350	●														
44	TLZ4400	●	22.3	10.0	30.5	31.5	TLZD3100-M16	●	51	30	M16	12	22	TSW-3512H	A-15	MSN-M16-***S-32C
44.5	TLZ4450	●														
45	TLZ4500	●														
45.5	TLZ4550	●														
46	TLZ4600	●														
46.5	TLZ4650	●	23.1	10.0	31.5	32.5	TLZD3200-M16	●	51	31	M16	14	26	TSW-3512H	A-15	MSN-M16-**-S32C
47	TLZ4700	●														
47.5	TLZ4750	●														
48	TLZ4800	●														
48.5	TLZ4850	●														

1 insert per case ● : Standard stock items

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

Recommended cutting conditions ↓





## HEADQUARTER

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