



Catalogue

Version 2019

2019 EN



ZCC Cutting Tools Europe GmbH

your Partner | your Value

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Indexable drills

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A

Turning

Indexable insert drill

					
ZD03	ZTD02	ZTD03	ZTD04	ZTD05	
16-58	13-50	13-50	13-50	17-50	Diameter
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Milling

Drilling inserts

					
SPGT-EM	SPGT-PM	WCMX-53	WCMX-D	WCMX-PG	
05 06 07 09 11 14	05 06 07 09 11 14	03 04 05 06 08	05 06 08	03 04 05 06 08	Edge length
C19	C19	C20	C20	C20	Page

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Drilling

PM

P M K



For machining of steel, stainless steel and cast iron.

EM

P M S



For machining of steel, stainless steel and heat-resistant alloys.

PG

P K



For machining of steel and cast iron.

D

P M K



For machining of steel, stainless steel and cast iron.

53

P M K N



For machining of steel, stainless steel, cast iron and non-ferrous metals.

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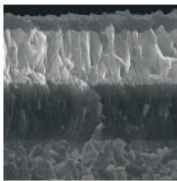
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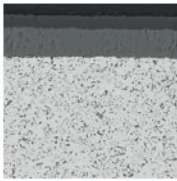
Turning

Coated cemented carbide CVD

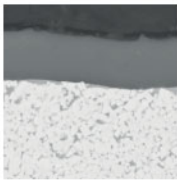
Grade	ISO	Micro structure	Grade description
YB6338	P20 - P40 K20 - K40		CVD coated P20–P40/K20–K40 carbide substrate for operation with higher cutting speed and feed rate in steel and cast iron.

B

Milling

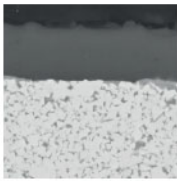
YBD252	K20 - K35		CVD coated K20–K35 carbide substrate. Optimized for medium to roughing operation of cast iron and Steel. Good wear resistance and toughness at higher cutting speed.
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Coated cemented carbide PVD

Grade	ISO	Micro structure	Grade description
YBG202	P10 - P30 M10 - M25		PVD coated M10–M25/P10–P30 carbide substrate for finishing to medium application of stainless steel and steel (milling). Good wear resistance in a wide application field.

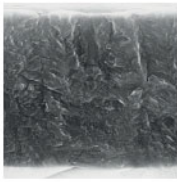
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Drilling

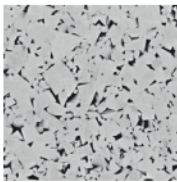
YBG205	P10 - P30 M20 - M40 S15-S25		PVD multilayer coated P10–P30/M20–M40/S15–S25 carbide substrate for finishing to medium application of stainless steel, super alloy and steel (milling). Good wear resistance and thermal stability in a wide application field.
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Technical Information

YBG212	P25 - P35 M25-M40		PVD coated M25–M40/P25–P35 carbide substrate for steel and stainless steel. Especially for inner insert at drilling operation.
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Uncoated cemented carbide

Grade	ISO	Micro structure	Grade description
YD201	K10 - K30 N10 - N30		Uncoated N10–N30/K10–K30 carbide substrate for medium application in aluminum and other material.

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Application fields of grades – Indexable drills

	ISO	HC ¹ (CVD)	HC ¹ (PVD)	HT	HW	PCBN & PCD
P	P01					
	P10					
	P20	YBD252	YBG202			
	P30	YBG338	YBG205			
	P40		YBG212			
M	M01					
	M10					
	M20		YBG202			
	M30		YBG205			
	M40		YBG212			
K	K01					
	K10	YBD252	YBG202			
	K20	YBG338	YBG205			
	K30					
	K40		YBG212			
N	N01					
	N10					
	N20				YD201	
	N30					
S	S01					
	S10		YBG202			
	S20		YBG205			
	S30		YBG212			
H	H01					
	H10					
	H20					
	H30					

P	Steel
M	Stainless steel
K	Cast iron

N	Non-ferrous alloys
S	Heat-resistant alloys
H	Hardened materials

HC¹ Coated cemented carbide
HT Uncoated cermet
HW Uncoated cemented carbide

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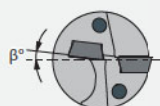
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ZTD series

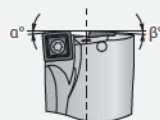
Indexable drills ZTD02/03/04/05

- For machining of steel, stainless steel, cast iron and heat-resistant alloys.
- Drilling bodies with PVD coated surfaces.
- Big chip pocket for better chip removal.
- Optional adapter for inner cooling in conventional machines.
- Diameter range 13.0–50.0 mm

ZTD02



Precise insert seat and stable insert clamping



Big chip pocket



Adapter for inner cooling

Insert grades

YB6338

CVD
P15–P35

YBG205

PVD
P10–P30
M20–M30
S15–S35

YBG212

PVD
M10–M25

Chip breakers

-PM



- Steel and cast iron

-EM



- Stainless steel and heat-resistant alloys

ZD – 03 300 – XP – 32 W C 05 – 02**1****2****3****4****5****6****7****8****9**

Type	
Code	Description
ZD	Indexable drill (WCMX*)
ZTD	Indexable drill (SPGT*)

1

L/D relation	
Code	Description
02	2xD
03	3xD
04	4xD
05	5xD

2

Diameter [mm]	
Code	Description
130	13
...	

3

Shank type	
Code	Description
XP	Weldon shank

4

Coupling size [mm]

5

Insert shape
W  S 

6

Clearance angle	
Code	Description
C	7°
P	11°

7

Cutting edge length [mm]		
Code	Insert shape	
	 W	 S
03	3,8	
04	4,3	
05	5,4	5
06	6,5	6
08	8,7	7,94
09		9,8
11		11,5
12		12,7
14		14,3

8

Number of teeth

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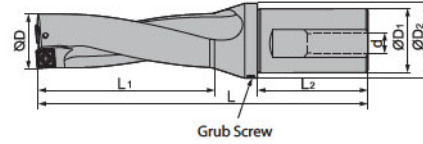
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Indexable drills series

ZTD02



Article	*	Stock	Dimensions [mm]								Inserts	Adapter
			ØD	ØD1	ØD2	L1	L2	L	d	kg		
ZTD02-130-XP20-SP05-02	*	•	13	20	25	31	50	98	M13x1	0.165	SPGT0502**	ZTD-XP20-Thin
ZTD02-140-XP20-SP05-02	*	•	14	20	25	33	50	100	M13x1	0.171	SPGT0502**	ZTD-XP20-Thin
ZTD02-150-XP20-SP05-02	*	•	15	20	25	35	50	102	M13x1	0.176	SPGT0502**	ZTD-XP20-Thin
ZTD02-160-XP20-SP05-02	*	•	16	20	25	37	50	104	M13x1	0.184	SPGT0502**	ZTD-XP20-Thin
ZTD02-170-XP25-SP06-02	*	•	17	25	32	39	56	117	M16x1,5	0.325	SPGT0602**	ZTD-XP20-Thin
ZTD02-180-XP25-SP06-02	*	•	18	25	32	41	56	119	M16x1,5	0.332	SPGT0602**	ZTD-XP25-Thin
ZTD02-190-XP25-SP06-02	*	•	19	25	32	43	56	121	M16x1,5	0.342	SPGT0602**	ZTD-XP25-Thin
ZTD02-200-XP25-SP06-02	*	•	20	25	32	45	56	123	M16x1,5	0.353	SPGT0602**	ZTD-XP25-Thin
ZTD02-210-XP25-SP06-02	*	•	21	25	32	47	56	125	M16x1,5	0.35	SPGT0602**	ZTD-XP25-Thin
ZTD02-220-XP25-SP07-02	*	•	22	25	32	49	56	127	M16x1,5	0.367	SPGT07T3**	ZTD-XP25-Thin
ZTD02-230-XP25-SP07-02	*	•	23	25	32	51	56	129	M16x1,5	0.38	SPGT07T3**	ZTD-XP25-Thin
ZTD02-240-XP25-SP07-02	*	•	24	25	32	53	56	131	M16x1,5	0.443	SPGT07T3**	ZTD-XP25-Thin
ZTD02-250-XP25-SP07-02	*	•	25	25	32	55	56	133	M16x1,5	0.41	SPGT07T3**	ZTD-XP25-Thin
ZTD02-260-XP25-SP07-02	*	•	26	25	32	57	56	135	M16x1,5	0.454	SPGT07T3**	ZTD-XP25-Thin
ZTD02-270-XP25-SP07-02	*	•	27	25	32	59	56	137	M16x1,5	0.445	SPGT07T3**	ZTD-XP25-Thin
ZTD02-280-XP32-SP09-02	*	•	28	32	37	61	60	146	M22x2	0.661	SPGT0904**	ZTD-XP32-Thin
ZTD02-290-XP32-SP09-02	*	•	29	32	37	63	60	148	M22x2	0.682	SPGT0904**	ZTD-XP32-Thin
ZTD02-300-XP32-SP09-02	*	•	30	32	37	65	60	150	M22x2	0.702	SPGT0904**	ZTD-XP32-Thin
ZTD02-310-XP32-SP09-02	*	•	31	32	37	67	60	152	M22x2	0.759	SPGT0904**	ZTD-XP32-Thin
ZTD02-320-XP32-SP09-02	*	•	32	32	37	69	60	154	M22x2	0.742	SPGT0904**	ZTD-XP32-Thin
ZTD02-330-XP32-SP09-02	*	•	33	32	37	71	60	156	M22x2	0.774	SPGT0904**	ZTD-XP32-Thin
ZTD02-340-XP40-SP11-02	*	•	34	40	47	73	70	173	(BSPT)RC1/4	1.2	SPGT1104**	
ZTD02-350-XP40-SP11-02	*	•	35	40	47	75	70	175	(BSPT)RC1/4	1.23	SPGT1104**	
ZTD02-360-XP40-SP11-02	*	•	36	40	47	77	70	177	(BSPT)RC1/4	1.26	SPGT1104**	
ZTD02-370-XP40-SP11-02	*	•	37	40	47	79	70	179	(BSPT)RC1/4	1.29	SPGT1104**	
ZTD02-380-XP40-SP11-02	*	•	38	40	47	81	70	181	(BSPT)RC1/4	1.33	SPGT1104**	
ZTD02-390-XP40-SP11-02	*	•	39	40	47	83	70	183	(BSPT)RC1/4	1.39	SPGT1104**	
ZTD02-400-XP40-SP11-02	*	•	40	40	47	85	70	185	(BSPT)RC1/4	1.43	SPGT1104**	
ZTD02-410-XP40-SP11-02	*	•	41	40	47	87	70	187	(BSPT)RC1/4	1.44	SPGT1104**	
ZTD02-420-XP40-SP14-02	*	•	42	40	52	89	70	199	(BSPT)RC1/4	1.62	SPGT1405**	
ZTD02-430-XP40-SP14-02	*	•	43	40	52	91	70	201	(BSPT)RC1/4	1.67	SPGT1405**	
ZTD02-440-XP40-SP14-02	*	•	44	40	52	93	70	203	(BSPT)RC1/4	1.71	SPGT1405**	
ZTD02-450-XP40-SP14-02	*	•	45	40	52	95	70	205	(BSPT)RC1/4	1.76	SPGT1405**	

• Ex stock ○ On demand

* Internal cooling

System code > C7

Grade selection > C5

Technical info > C165

Cutting data > C22

Article	*	Stock	Dimensions [mm]								Inserts 	Adapter 
			ØD	ØD1	ØD2	L1	L2	L	d			
ZTD02-460-XP40-SP14-02	*	•	46	40	52	97	70	207	(BSPT)RC1/4	1.81	SPGT1405**	
ZTD02-470-XP40-SP14-02	*	•	47	40	52	99	70	209	(BSPT)RC1/4	1.87	SPGT1405**	
ZTD02-480-XP40-SP14-02	*	•	48	40	52	101	70	211	(BSPT)RC1/4	1.92	SPGT1405**	
ZTD02-490-XP40-SP14-02	*	•	49	40	52	103	70	213	(BSPT)RC1/4	1.98	SPGT1405**	
ZTD02-500-XP40-SP14-02	*	•	50	40	52	105	70	215	(BSPT)RC1/4	2.05	SPGT1405**	

• Ex stock ○ On demand

* Internal cooling

Spare parts							
	Insert	SPGT0502**	SPGT0602**	SPGT07T3**	SPGT0904**	SPGT1104**	SPGT1405**
	Grub screw					M6x6 (7.0Nm)	M8x8 (10.2Nm)
	Screw	I60M2x4,3 (0.5Nm)	I60M2,2x5,5 (0.8Nm)	I60M2.5*6,5 (1.0Nm)	I60M3,5x8 (2.7Nm)	I60M4x10 (3.4Nm)	I60M5x13 (6.7Nm)
	Wrench	WT06IP	WT07IP	WT07IP	WT15IP	WT15IP	WT20IP

Insert

C19

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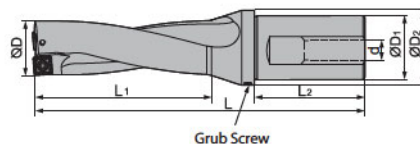
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ZTD03



Article	*	Stock	Dimensions [mm]								Inserts	Adapter
			ØD	ØD1	ØD2	L1	L2	L	d	kg		
ZTD03-130-XP20-SP05-02	*	•	13	20	25	44	50	111	M13x1	0.179	SPGT0502**	ZTD-XP20-Thin
ZTD03-140-XP20-SP05-02	*	•	14	20	25	47	50	114	M13x1	0.186	SPGT0502**	ZTD-XP20-Thin
ZTD03-150-XP20-SP05-02	*	•	15	20	25	50	50	117	M13x1	0.195	SPGT0502**	ZTD-XP20-Thin
ZTD03-160-XP20-SP05-02	*	•	16	20	25	53	50	120	M13x1	0.214	SPGT0502**	ZTD-XP20-Thin
ZTD03-170-XP25-SP06-02	*	•	17	25	32	56	56	134	M16x1,5	0.32	SPGT0602**	ZTD-XP25-Thin
ZTD03-180-XP25-SP06-02	*	•	18	25	32	59	56	137	M16x1,5	0.331	SPGT0602**	ZTD-XP25-Thin
ZTD03-190-XP25-SP06-02	*	•	19	25	32	62	56	140	M16x1,5	0.342	SPGT0602**	ZTD-XP25-Thin
ZTD03-200-XP25-SP06-02	*	•	20	25	32	65	56	143	M16x1,5	0.356	SPGT0602**	ZTD-XP25-Thin
ZTD03-210-XP25-SP06-02	*	•	21	25	32	68	56	146	M16x1,5	0.391	SPGT0602**	ZTD-XP25-Thin
ZTD03-220-XP25-SP07-02	*	•	22	25	32	71	56	149	M16x1,5	0.391	SPGT07T3**	ZTD-XP25-Thin
ZTD03-230-XP25-SP07-02	*	•	23	25	32	74	56	152	M16x1,5	0.442	SPGT07T3**	ZTD-XP25-Thin
ZTD03-240-XP25-SP07-02	*	•	24	25	32	77	56	155	M16x1,5	0.485	SPGT07T3**	ZTD-XP25-Thin
ZTD03-250-XP25-SP07-02	*	•	25	25	32	80	56	158	M16x1,5	0.492	SPGT07T3**	ZTD-XP25-Thin
ZTD03-260-XP25-SP07-02	*	•	26	25	32	83	56	161	M16x1,5	0.497	SPGT07T3**	ZTD-XP25-Thin
ZTD03-270-XP25-SP07-02	*	•	27	25	32	86	56	164	M16x1,5	0.521	SPGT07T3**	ZTD-XP25-Thin
ZTD03-280-XP32-SP09-02	*	•	28	32	37	89	60	174	M22x2	0.75	SPGT0904**	ZTD-XP32-Thin
ZTD03-290-XP32-SP09-02	*	•	29	32	37	92	60	177	M22x2	0.777	SPGT0904**	ZTD-XP32-Thin
ZTD03-300-XP32-SP09-02	*	•	30	32	37	95	60	180	M22x2	0.81	SPGT0904**	ZTD-XP32-Thin
ZTD03-310-XP32-SP09-02	*	•	31	32	37	98	60	183	M22x2	0.831	SPGT0904**	ZTD-XP32-Thin
ZTD03-320-XP32-SP09-02	*	•	32	32	37	101	60	186	M22x2	0.867	SPGT0904**	ZTD-XP32-Thin
ZTD03-330-XP32-SP09-02	*	•	33	32	37	104	60	189	M22x2	0.928	SPGT0904**	ZTD-XP32-Thin
ZTD03-340-XP40-SP11-02	*	•	34	40	47	107	70	207	(BSPT)RC1/4	1.33	SPGT1104**	
ZTD03-350-XP40-SP11-02	*	•	35	40	47	110	70	210	(BSPT)RC1/4	1.371	SPGT1104**	
ZTD03-360-XP40-SP11-02	*	•	36	40	47	113	70	213	(BSPT)RC1/4	1.414	SPGT1104**	
ZTD03-370-XP40-SP11-02	*	•	37	40	47	116	70	216	(BSPT)RC1/4	1.448	SPGT1104**	
ZTD03-380-XP40-SP11-02	*	•	38	40	47	119	70	219	(BSPT)RC1/4	1.498	SPGT1104**	
ZTD03-390-XP40-SP11-02	*	•	39	40	47	122	70	222	(BSPT)RC1/4	1.554	SPGT1104**	
ZTD03-400-XP40-SP11-02	*	•	40	40	47	125	70	225	(BSPT)RC1/4	1.667	SPGT1104**	
ZTD03-410-XP40-SP11-02	*	•	41	40	47	128	70	228	(BSPT)RC1/4	1.653	SPGT1104**	
ZTD03-420-XP40-SP14-02	*	•	42	40	52	131	70	241	(BSPT)RC1/4	1.903	SPGT1405**	
ZTD03-430-XP40-SP14-02	*	•	43	40	52	134	70	244	(BSPT)RC1/4	1.951	SPGT1405**	
ZTD03-440-XP40-SP14-02	*	•	44	40	52	137	70	247	(BSPT)RC1/4	2.039	SPGT1405**	
ZTD03-450-XP40-SP14-02	*	•	45	40	52	140	70	250	(BSPT)RC1/4	2.12	SPGT1405**	

• Ex stock ○ On demand

* Internal cooling

System code > C7

Grade selection > C5

Technical info > C165

Cutting data > C22

Article	*	Stock	Dimensions [mm]								Inserts 	Adapter 
			ØD	ØD1	ØD2	L1	L2	L	d			
ZTD03-460-XP40-SP14-02	*	•	46	40	52	143	70	253	(BSPT)RC1/4	2.186	SPGT1405**	
ZTD03-470-XP40-SP14-02	*	•	47	40	52	146	70	256	(BSPT)RC1/4	2.264	SPGT1405**	
ZTD03-480-XP40-SP14-02	*	•	48	40	52	149	70	259	(BSPT)RC1/4	2.341	SPGT1405**	
ZTD03-490-XP40-SP14-02	*	•	49	40	52	152	70	262	(BSPT)RC1/4	2.43	SPGT1405**	
ZTD03-500-XP40-SP14-02	*	•	50	40	52	155	70	265	(BSPT)RC1/4	2.52	SPGT1405**	

• Ex stock ○ On demand

* Internal cooling

Spare parts							
	Insert	SPGT0502**	SPGT0602**	SPGT07T3**	SPGT0904**	SPGT1104**	SPGT1405**
	Grub screw					M6x6 (7.0Nm)	M8x8 (10.2Nm)
	Screw	I60M2x4,3 (0.5Nm)	I60M2,2x5,5 (0.8Nm)	I60M2.5*6.5 (1.0Nm)	I60M3,5x8 (2.7Nm)	I60M4x10 (3.4Nm)	I60M5x13 (6.7Nm)
	Wrench	WT06IP	WT07IP	WT07IP	WT15IP	WT15IP	WT20IP

Insert

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System code > C7

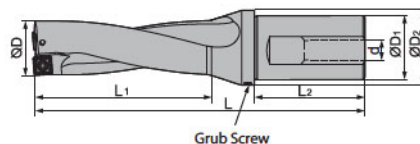
Grade selection > C5

Technical info > C165

Cutting data > C22

Indexable drills series

ZTD04



Article	*	Stock	Dimensions [mm]								Inserts	Adapter
			ØD	ØD1	ØD2	L1	L2	L	d	kg		
ZTD04-130-XP20-SP05-02	*	●	13	20	25	57	50	124	M13×1	0.185	SPGT0502**	ZTD-XP20-Thin
ZTD04-140-XP20-SP05-02	*	○	14	20	25	61	50	128	M13×1	0.195	SPGT0502**	ZTD-XP20-Thin
ZTD04-150-XP20-SP05-02	*	○	15	20	25	65	50	132	M13×1	0.205	SPGT0502**	ZTD-XP20-Thin
ZTD04-160-XP20-SP05-02	*	●	16	20	25	69	50	136	M13×1	0.216	SPGT0502**	ZTD-XP20-Thin
ZTD04-170-XP25-SP06-02	*	●	17	25	32	73	56	151	M16×1,5	0.333	SPGT0602**	ZTD-XP25-Thin
ZTD04-180-XP25-SP06-02	*	●	18	25	32	77	56	155	M16×1,5	0.347	SPGT0602**	ZTD-XP25-Thin
ZTD04-190-XP25-SP06-02	*	●	19	25	32	81	56	159	M16×1,5	0.362	SPGT0602**	ZTD-XP25-Thin
ZTD04-200-XP25-SP06-02	*	●	20	25	32	85	56	163	M16×1,5	0.381	SPGT0602**	ZTD-XP25-Thin
ZTD04-210-XP25-SP06-02	*	●	21	25	32	89	56	167	M16×1,5	0.4	SPGT0602**	ZTD-XP25-Thin
ZTD04-220-XP25-SP07-02	*	●	22	25	32	93	56	171	M16×1,5	0.391	SPGT07T3**	ZTD-XP25-Thin
ZTD04-230-XP25-SP07-02	*	●	23	25	32	97	56	175	M16×1,5	0.484	SPGT07T3**	ZTD-XP25-Thin
ZTD04-240-XP25-SP07-02	*	●	24	25	32	101	56	179	M16×1,5	0.513	SPGT07T3**	ZTD-XP25-Thin
ZTD04-250-XP25-SP07-02	*	●	25	25	32	105	56	183	M16×1,5	0.494	SPGT07T3**	ZTD-XP25-Thin
ZTD04-260-XP25-SP07-02	*	●	26	25	32	109	56	187	M16×1,5	0.535	SPGT07T3**	ZTD-XP25-Thin
ZTD04-270-XP25-SP07-02	*	●	27	25	32	113	56	191	M16×1,5	0.582	SPGT07T3**	ZTD-XP25-Thin
ZTD04-280-XP32-SP09-02	*	●	28	32	37	117	60	202	M22×2	0.653	SPGT0904**	ZTD-XP32-Thin
ZTD04-290-XP32-SP09-02	*	●	29	32	37	121	60	206	M22×2	0.846	SPGT0904**	ZTD-XP32-Thin
ZTD04-300-XP32-SP09-02	*	●	30	32	37	125	60	210	M22×2	0.893	SPGT0904**	ZTD-XP32-Thin
ZTD04-310-XP32-SP09-02	*	●	31	32	37	129	60	214	M22×2	0.914	SPGT0904**	ZTD-XP32-Thin
ZTD04-320-XP32-SP09-02	*	●	32	32	37	133	60	218	M22×2	0.966	SPGT0904**	ZTD-XP32-Thin
ZTD04-330-XP32-SP09-02	*	●	33	32	37	137	60	222	M22×2	1.016	SPGT0904**	ZTD-XP32-Thin
ZTD04-340-XP40-SP11-02	*	●	34	40	47	141	70	241	(BSPT)RC1/4	1.46	SPGT1104**	
ZTD04-350-XP40-SP11-02	*	●	35	40	47	145	70	245	(BSPT)RC1/4	1.52	SPGT1104**	
ZTD04-360-XP40-SP11-02	*	●	36	40	47	149	70	249	(BSPT)RC1/4	1.579	SPGT1104**	
ZTD04-370-XP40-SP11-02	*	●	37	40	47	153	70	253	(BSPT)RC1/4	1.592	SPGT1104**	
ZTD04-380-XP40-SP11-02	*	●	38	40	47	157	70	257	(BSPT)RC1/4	1.801	SPGT1104**	
ZTD04-390-XP40-SP11-02	*	●	39	40	47	161	70	261	(BSPT)RC1/4	1.801	SPGT1104**	
ZTD04-400-XP40-SP11-02	*	●	40	40	47	165	70	265	(BSPT)RC1/4	1.874	SPGT1104**	
ZTD04-410-XP40-SP11-02	*	●	41	40	47	169	70	269	(BSPT)RC1/4	1.861	SPGT1104**	
ZTD04-420-XP40-SP14-02	*	●	42	40	52	173	70	283	(BSPT)RC1/4	2.168	SPGT1405**	
ZTD04-430-XP40-SP14-02	*	●	43	40	52	177	70	287	(BSPT)RC1/4	2.17	SPGT1405**	
ZTD04-440-XP40-SP14-02	*	●	44	40	52	181	70	291	(BSPT)RC1/4	2.31	SPGT1405**	
ZTD04-450-XP40-SP14-02	*	●	45	40	52	185	70	295	(BSPT)RC1/4	2.421	SPGT1405**	

● Ex stock ○ On demand

* Internal cooling

System code > C7

Grade selection > C5

Technical info > C165

Cutting data > C22

Article	*	Stock	Dimensions [mm]								Inserts 	Adapter 
			ØD	ØD1	ØD2	L1	L2	L	d			
ZTD04-460-XP40-SP14-02	*	•	46	40	52	189	70	299	(BSPT)RC1/4	2.507	SPGT1405**	
ZTD04-470-XP40-SP14-02	*	•	47	40	52	193	70	303	(BSPT)RC1/4	2.612	SPGT1405**	
ZTD04-480-XP40-SP14-02	*	•	48	40	52	197	70	307	(BSPT)RC1/4	2.66	SPGT1405**	
ZTD04-490-XP40-SP14-02	*	•	49	40	52	201	70	311	(BSPT)RC1/4	2.836	SPGT1405**	
ZTD04-500-XP40-SP14-02	*	•	50	40	52	205	70	315	(BSPT)RC1/4	2.954	SPGT1405**	

• Ex stock ○ On demand

* Internal cooling

Spare parts							
	Insert	SPGT0502**	SPGT0602**	SPGT07T3**	SPGT0904**	SPGT1104**	SPGT1405**
	Grub screw					M6x6 (7.0Nm)	M8x8 (10.2Nm)
	Screw	I60M2x4,3 (0.5Nm)	I60M2.5x6.5 (1.0Nm)	I60M2.5x6.5 (1.0Nm)	I60M3,5x8 (2.7Nm)	I60M4x10 (3.4Nm)	I60M5x13 (6.7Nm)
	Wrench	WT06IP	WT07IP	WT07IP	WT15IP	WT15IP	WT20IP

Insert

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Milling

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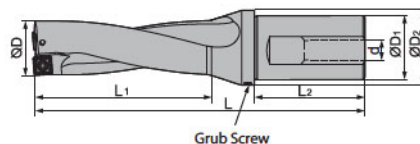
Drilling

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Indexable drills series

ZTD05



Article	*	Stock	Dimensions [mm]								Inserts	Adapter
			ØD	ØD1	ØD2	L1	L2	L	d	kg		
ZTD05-170-XP25-SP06-02	*	•	17	25	32	90	56	168	M13x1	0.374	SPGT0602**	ZTD-XP25-Thin
ZTD05-180-XP25-SP06-02	*	•	18	25	32	95	56	173	M13x1	0.394	SPGT0602**	ZTD-XP25-Thin
ZTD05-190-XP25-SP06-02	*	•	19	25	32	100	56	178	M13x1	0.415	SPGT0602**	ZTD-XP25-Thin
ZTD05-200-XP25-SP06-02	*	•	20	25	32	105	56	183	M13x1	0.44	SPGT0602**	ZTD-XP25-Thin
ZTD05-210-XP25-SP06-02	*	•	21	25	32	110	56	188	M16x1,5	0.466	SPGT0602**	ZTD-XP25-Thin
ZTD05-220-XP25-SP07-02	*	•	22	25	32	115	56	193	M16x1,5	0.476	SPGT07T3**	ZTD-XP25-Thin
ZTD05-230-XP25-SP07-02	*	○	23	25	32	120	56	198	M16x1,5	0.507	SPGT07T3**	ZTD-XP25-Thin
ZTD05-240-XP25-SP07-02	*	•	24	25	32	125	56	203	M16x1,5	0.542	SPGT07T3**	ZTD-XP25-Thin
ZTD05-250-XP25-SP07-02	*	•	25	25	32	130	56	208	M16x1,5	0.561	SPGT07T3**	ZTD-XP25-Thin
ZTD05-260-XP25-SP07-02	*	•	26	25	32	135	56	213	M16x1,5	0.613	SPGT07T3**	ZTD-XP25-Thin
ZTD05-270-XP25-SP07-02	*	•	27	25	32	140	56	218	M16x1,5	0.665	SPGT07T3**	ZTD-XP25-Thin
ZTD05-280-XP32-SP09-02	*	•	28	32	37	145	60	230	M16x1,5	0.891	SPGT0904**	ZTD-XP32-Thin
ZTD05-290-XP32-SP09-02	*	•	29	32	37	150	60	235	M16x1,5	0.965	SPGT0904**	ZTD-XP32-Thin
ZTD05-300-XP32-SP09-02	*	•	30	32	37	155	60	240	M16x1,5	0.959	SPGT0904**	ZTD-XP32-Thin
ZTD05-310-XP32-SP09-02	*	•	31	32	37	160	60	245	M16x1,5	1.042	SPGT0904**	ZTD-XP32-Thin
ZTD05-320-XP32-SP09-02	*	•	32	32	37	165	60	250	M22x2	1.11	SPGT0904**	ZTD-XP32-Thin
ZTD05-330-XP32-SP09-02	*	•	33	32	37	170	60	255	M22x2	1.117	SPGT0904**	ZTD-XP32-Thin
ZTD05-340-XP40-SP11-02	*	•	34	40	47	175	70	275	M22x2	1.57	SPGT1104**	
ZTD05-350-XP40-SP11-02	*	•	35	40	47	180	70	280	M22x2	1.65	SPGT1104**	
ZTD05-360-XP40-SP11-02	*	•	36	40	47	185	70	285	M22x2	1.712	SPGT1104**	
ZTD05-370-XP40-SP11-02	*	•	37	40	47	190	70	290	M22x2	1.802	SPGT1104**	
ZTD05-380-XP40-SP11-02	*	•	38	40	47	195	70	295	(BSPT)RC1/4	1.873	SPGT1104**	
ZTD05-390-XP40-SP11-02	*	•	39	40	47	200	70	300	(BSPT)RC1/4	1.962	SPGT1104**	
ZTD05-400-XP40-SP11-02	*	•	40	40	47	205	70	305	(BSPT)RC1/4	2.068	SPGT1104**	
ZTD05-410-XP40-SP11-02	*	•	41	40	47	210	70	310	(BSPT)RC1/4	2.167	SPGT1104**	
ZTD05-420-XP40-SP14-02	*	•	42	40	52	215	70	325	(BSPT)RC1/4	2.39	SPGT1405**	
ZTD05-430-XP40-SP14-02	*	•	43	40	52	220	70	330	(BSPT)RC1/4	2.502	SPGT1405**	
ZTD05-440-XP40-SP14-02	*	•	44	40	52	225	70	335	(BSPT)RC1/4	2.612	SPGT1405**	
ZTD05-450-XP40-SP14-02	*	•	45	40	52	230	70	340	(BSPT)RC1/4	2.733	SPGT1405**	
ZTD05-460-XP40-SP14-02	*	•	46	40	52	235	70	345	(BSPT)RC1/4	2.854	SPGT1405**	
ZTD05-470-XP40-SP14-02	*	•	47	40	52	240	70	350	(BSPT)RC1/4	2.894	SPGT1405**	
ZTD05-480-XP40-SP14-02	*	•	48	40	52	245	70	355	(BSPT)RC1/4	3.109	SPGT1405**	
ZTD05-490-XP40-SP14-02	*	•	49	40	52	250	70	360	(BSPT)RC1/4	3.271	SPGT1405**	
ZTD05-500-XP40-SP14-02	*	•	50	40	52	255	70	365	(BSPT)RC1/4	3.425	SPGT1405**	

• Ex stock ○ On demand

* Internal cooling

System code > C7

Grade selection > C5

Technical info > C165

Cutting data > C22

Spare parts						
	Insert	SPGT0602**	SPGT07T3**	SPGT0904**	SPGT1104**	SPGT1405**
	Grub screw				M6x6 (7.0Nm)	M8x8 (10.2Nm)
	Screw	I60M2.5x6.5 (1.0Nm)	I60M2.5x6.5 (1.0Nm)	I60M3,5x8 (2.7Nm)	I60M4x10 (3.4Nm)	I60M5x13 (6.7Nm)
	Wrench	WT07IP	WT06IP	WT15IP	WT15IP	WT20IP

Insert

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System code > C7

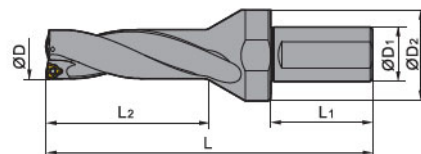
Grade selection > C5

Technical info > C165

Cutting data > C22

Indexable drills series

ZD03



Article	*	Stock	Dimensions [mm]							Inserts
			ØD	ØD1	ØD2	L1	L2	L	kg	
ZD03-160-XP25-WC03-02	*	•	16	25	32	56	52	129	0.33	WCMX0302**
ZD03-170-XP25-WC03-02	*	•	17	25	32	56	55	133	0.33	WCMX0302**
ZD03-180-XP25-WC03-02	*	•	18	25	32	56	58	137	0.35	WCMX0302**
ZD03-190-XP25-WC03-02	*	•	19	25	32	56	61	140	0.36	WCMX0302**
ZD03-200-XP25-WC03-02	*	•	20	25	32	56	64	143	0.37	WCMX0302**
ZD03-210-XP25-WC04-02	*	•	21	25	45	56	67	153	0.51	WCMX0402**
ZD03-220-XP25-WC04-02	*	•	22	25	45	56	70	156	0.54	WCMX0402**
ZD03-230-XP25-WC04-02	*	•	23	25	45	56	73	159	0.55	WCMX0402**
ZD03-240-XP25-WC04-02	*	•	24	25	45	56	76	162	0.57	WCMX0402**
ZD03-250-XP25-WC04-02	*	•	25	25	45	56	79	165	0.6	WCMX0402**
ZD03-260-XP32-WC05-02	*	•	26	32	55	60	83	176	0.93	WCMX0503**
ZD03-270-XP32-WC05-02	*	•	27	32	55	60	86	180	0.97	WCMX0503**
ZD03-280-XP32-WC05-02	*	•	28	32	55	60	89	184	1.01	WCMX0503**
ZD03-290-XP32-WC05-02	*	•	29	32	55	60	92	188	1.05	WCMX0503**
ZD03-300-XP32-WC05-02	*	•	30	32	55	60	95	192	1.08	WCMX0503**
ZD03-310-XP40-WC06-02	*	•	31	40	60	70	98	203	1.44	WCMX06T3**
ZD03-320-XP40-WC06-02	*	•	32	40	60	70	101	206	1.48	WCMX06T3**
ZD03-330-XP40-WC06-02	*	•	33	40	60	70	104	209	1.52	WCMX06T3**
ZD03-340-XP40-WC06-02	*	•	34	40	60	70	107	212	1.55	WCMX06T3**
ZD03-350-XP40-WC06-02	*	•	35	40	60	70	110	215	1.61	WCMX06T3**
ZD03-360-XP40-WC06-02	*	•	36	40	60	70	113	218	1.66	WCMX06T3**
ZD03-370-XP40-WC06-02	*	•	37	40	60	70	116	221	1.71	WCMX06T3**
ZD03-380-XP40-WC06-02	*	•	38	40	60	70	119	225	1.76	WCMX06T3**
ZD03-390-XP40-WC06-02	*	•	39	40	60	70	122	228	1.82	WCMX06T3**
ZD03-400-XP40-WC06-02	*	•	40	40	60	70	125	231	1.93	WCMX06T3**
ZD03-410-XP40-WC06-02	*	•	41	40	60	70	128	234	1.94	WCMX06T3**
ZD03-420-XP40-WC08-02	*	•	42	40	60	70	131	239	2.18	WCMX0804**
ZD03-430-XP40-WC08-02	*	•	43	40	60	70	134	242	2.245	WCMX0804**
ZD03-440-XP40-WC08-02	*	•	44	40	60	70	137	245	2.34	WCMX0804**
ZD03-450-XP40-WC08-02	*	•	45	40	60	70	140	248	2.34	WCMX0804**
ZD03-460-XP40-WC08-02	*	•	46	40	60	70	143	251	2.49	WCMX0804**
ZD03-470-XP40-WC08-02	*	•	47	40	60	70	146	253	2.88	WCMX0804**
ZD03-480-XP40-WC08-02	*	•	48	40	70	70	149	255	2.55	WCMX0804**

• Ex stock ○ On demand

* Internal cooling

System code > C7

Grade selection > C5

Technical info > C165

Cutting data > C22

Article	*	Stock	Dimensions [mm]							Inserts
			ØD	ØD1	ØD2	L1	L2	L		
ZD03-490-XP40-WC08-02	*	○	49	40	70	70	152	257	2.619	WCMX0804**
ZD03-500-XP40-WC08-02	*	●	50	40	70	70	155	259	2.62	WCMX0804**
ZD03-510-XP40-WC08-02	*	○	51	40	70	70	158	261	2.62	WCMX0804**
ZD03-520-XP40-WC08-02	*	○	52	40	70	70	161	263	2.808	WCMX0804**
ZD03-530-XP40-WC08-02	*	○	53	40	70	70	164	265	2.906	WCMX0804**
ZD03-540-XP40-WC08-02	*	●	54	40	70	70	167	267	2.983	WCMX0804**
ZD03-550-XP40-WC08-02	*	○	55	40	70	70	170	269	3.126	WCMX0804**
ZD03-560-XP40-WC08-02	*	○	56	40	70	70	173	271	3.157	WCMX0804**
ZD03-580-XP40-WC08-02	*	●	58	40	70	70	179	275	3.501	WCMX0804**

● Ex stock ○ On demand

* Internal cooling

Spare parts						
	Insert	WCMX0302**	WCMX0402**	WCMX0503**	WCMX06T3**	WCMX0804**
	Screw	I60M2.5x6.5 (1.0Nm)	I60M2.5x6.5T (1.0Nm)	I60M3x7 (1.8Nm)	I60M3x7 (1.8Nm)	I60M3.5x10.4 (2.7Nm)
	Wrench	WT06IP	WT07IP	WT15IP	WT15IP	WT20IP

Insert



Medium Cut

C20

W C M X 08 04 12 R – PG

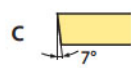
1 2 3 4 5 6 7 8 9

Insert shape



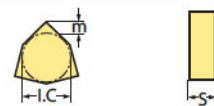
1

Clearance angle



2

Tolerance class



Code	I.C [mm]	m [mm]	S [mm]
G	±0,025	±0,025	±0,130
M	±0,05–0,13	±0,08–0,18	±0,130

3

Fastening features (metric)

Insert shape



X Special

4

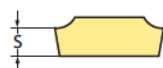
Cutting edge length l [mm]

Insert shape

I.C [mm]	Insert shape	
	S	W
3,8		03
4,3		04
5,4		05
6,35	06	
6,5		06
8,0		08
8,7	08	
9,252	09	
12,7	12	

5

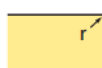
Insert thickness S [mm]



Code	S	Code	S
00	0,79	05	5,56
T0	0,99	T5	5,95
01	1,59	06	6,35
T1	1,98	T6	6,75
02	2,38	07	7,94
T2	2,58	09	9,52
03	3,18	T9	9,72
T3	3,97	11	11,11
04	4,76	12	12,70
T4	4,96		

6

Nose radius r [mm]



Code	r
04	0,4
08	0,8
12	1,2

7

Rotation direction

Code	Description
R	Right
L	Left

8

Chip breaker overview (on page C3)

9

SPGT	L	I.C	S	d
05 02	5	5	2.38	2.2
06 02	6	6	2.38	2.6
07 T3	7.94	7.94	3.97	2.8
09 04	9.8	9.8	4.76	4.2
11 04	11.5	11.5	4.76	4.4
14 05	14.3	14.3	5.2	5.75

Drilling inserts

- Ideal machining conditions
- Normal machining conditions
- Unfavourable machining conditions

SP** drilling insert		HC ¹ (CVD)		HC ¹ (PVD)		HW	
	P	●	●	●	●		
	M	●		●	●		
	K	●					
	N					●	
	S			●	●		
	H						
ISO		r	YB6338 YBD252	YBG202 YBG205 YBG212		YD201	
PM	SPGT050204-PM	0.4	●	●	●		
	SPGT060204-PM	0.4	●	●	●		
	SPGT07T308-PM	0.8	●	●	●		
	SPGT090408-PM	0.8	●	●	●		
	SPGT110408-PM	0.8	●	●	●		
	SPGT140512-PM	1.2	●	●	●		
EM	SPGT050204-EM	0.4		●	●		
	SPGT060204-EM	0.4		●	●		
	SPGT07T308-EM	0.8		●	●		
	SPGT090408-EM	0.8		●	●		
	SPGT110408-EM	0.8		●	●		
	SPGT140512-EM	1.2		●	●		

● Ex stock

○ On demand

HC¹ Coated carbide
HW Uncoated carbide

Tool holder			
ZTD02	ZTD03	ZTD04	ZTD05
C8	C10	C12	C14

System code > C18

Grade selection > C5

Technical info > C165

Cutting data > C22

A

Turning

B

Milling

C

Drilling

D

Technical
Information

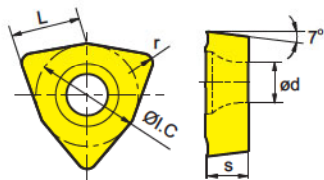
E

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WCMX	L	I.C	S	d
03 02	3.8	5.56	2.38	2.8
04 02	4.3	6.35	2.38	3.1
05 03	5.4	7.94	3.18	3.2
06 T3	6.5	9.525	3.97	3.7
08 04	8.7	12.7	4.76	4.3

- Ideal machining conditions
- Normal machining conditions
- Unfavourable machining conditions

Drilling inserts

WC** drilling insert		HC ¹ (CVD)			HC ¹ (PVD)			HW		
	P	●	●		●	●	●			
	M	●			●	●	●			
	K	●								
	N							●		
	S				●	●				
	H									
ISO		r	YB6338 YBD252		YBG202 YBG205 YBG212			YD201		
	WCMX030208R-53	0.8	●		●					
	WCMX040208R-53	0.8	●		●			○		
	WCMX050308R-53	0.8	●		●					
	WCMX06T308R-53	0.8	●		●			○		
	WCMX080412R-53	1.2	●		●					
	WCMX050308-D	0.8	○							
	WCMX06T308-D	0.8	○							
	WCMX080412-D	1.2	●							
	WCMX030208R-PG	0.8			●					
	WCMX040208R-PG	0.8			●					
	WCMX050308R-PG	0.8	○		●	○				
	WCMX06T308R-PG	0.8			●					
	WCMX080412R-PG	1.2			●					

● Ex stock ○ On demand

HC¹ Coated carbide
HW Uncoated carbide

Tool holder

ZD03



C16

System code > C18

Grade selection > C5

Technical info > C165

Cutting data > C22

Notes

Turning

Milling

Drilling

Technical Information

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Indexable drills

Material group		Composition / structure / heat treatment		HB	Machining group	ZTD*		ZTD*		
						SPGT05/06		SPGT07/09		
						v _c [m/min]	f [mm]	v _c [m/min]	f [mm]	
P	Unalloyed steel	approx. 0,15 % C	annealed	125	1	200-300	0,05-0,08	200-300	0,06-0,11	
		approx. 0,45 % C	annealed	190	2	200-300	0,05-0,08	200-300	0,06-0,11	
		approx. 0,45 % C	tempered	250	3	200-300	0,05-0,08	200-300	0,06-0,11	
		approx. 0,75 % C	annealed	270	4	200-300	0,05-0,08	200-300	0,06-0,11	
		approx. 0,75 % C	tempered	300	5	200-300	0,05-0,08	200-300	0,06-0,11	
	Low-alloyed steel		annealed	180	6	140-220	0,05-0,08	140-220	0,07-0,12	
			tempered	275	7	140-220	0,05-0,08	140-220	0,07-0,12	
			tempered	300	8	140-220	0,05-0,08	140-220	0,07-0,12	
			tempered	350	9	140-220	0,05-0,08	140-220	0,07-0,12	
	High-alloyed steel and high-alloyed tool steel		annealed	200	10	120-180	0,05-0,08	120-180	0,07-0,12	
		hardened and tempered	325	11	120-180	0,05-0,08	120-180	0,07-0,12		
M	Stainless steel	ferritic/martensitic	annealed	200	12	110-230	0,05-0,08	110-230	0,06-0,11	
		martensitic	tempered	240	13	110-230	0,05-0,08	110-230	0,06-0,11	
		austenitic	quench hardened	180	14	110-230	0,05-0,08	110-230	0,06-0,11	
		austenitic-ferritic		230	15	110-230	0,05-0,08	110-230	0,06-0,11	
K	Grey cast iron	perlitic/ferritic		180	16	170-240	0,05-0,08	170-240	0,08-0,14	
		perlitic (martensitic)		260	17	170-240	0,05-0,08	170-240	0,08-0,14	
	Cast iron with spheroidal graphite	ferritic		160	18	130-200	0,05-0,08	130-200	0,08-0,14	
		perlitic		250	19	130-200	0,05-0,08	130-200	0,08-0,14	
	Malleable cast iron	ferritic		130	20	120-220	0,05-0,08	120-220	0,08-0,14	
		perlitic		230	21	120-220	0,05-0,08	120-220	0,08-0,14	
N	Aluminium wrought alloys	cannot be hardened		60	22					
		hardenable	hardened	100	23					
	Cast aluminium alloys	≤ 12 % Si, cannot be hardened		75	24					
		≤ 12 % Si, hardenable	hardened	90	25					
		> 12 % Si, cannot be hardened		130	26					
	Copper and copper alloys (bronze/brass)	machining steel, PB> 1%		110	27					
		CuZn, CuSnZn		90	28					
CuSn, Pb-free copper, electrolytic copper		100	29							
S	Heat-resistant alloys	Fe-based alloys	annealed	200	30					
			hardened	280	31					
		Ni or Co bass	annealed	250	32					
			hardened	350	33					
			cast	320	34					
	Titanium alloys	pure titanium		R _m 400	35					
		α and β alloys	hardened	R _m 1050	36					
H	Hardened steel		hardened and tempered	55 HRC	37					
			hardened and tempered	60 HRC	38					
	Hard cast iron		cast	400	39					
	Hardened cast iron		hardened and tempered	55 HRC	40					
X	Non-metallic materials	Thermoplasts			41					
		Thermosetting plastics			42					
		Plastic, glass-fibre reinforced GFRP			43					
		Plastic, carbon fibre reinforced CFRP			44					
		Graphite			45					
		Wood			46					

Note: The given cutting values are guide values, which were determined under ideal conditions.

The values have to be adapted in individual cases.

With hole depths of 5xD adjust the cutting data accordingly to the application.

For examples of material for cutting tool groups view page D22.

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Turning

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Milling

C

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Notes

ZSD – 03 300 – XP – 32 S P 09 – 02

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A

Turning

Type	
Code	Description
ZSD	Indexable drill (SPMX*)
ZTD	Indexable drill (SPGT*)
ZD	Indexable drill (WCMX*)

L/D relation	
Code	Description
02	2 x D
03	3 x D
04	4 x D
05	5 x D

1

2

B

Milling

Diameter [mm]	
Code	Description
130	13
...	

Shank type	
Code	Description
XP	Weldon shank

3

4

C

Drilling

Coupling size [mm]

Insert shape	
W	
S	

Clearance angle	
Code	Description
C	7°
P	11°

5

6

7

D

Technical Information

Cutting edge length [mm]		
Code	Insert shape	
	W	S
03	3,8	
04	4,3	
05	5,4	5
06	6,5	6
08	8,7	7,94
09		9,8
11		11,5
12		12,7
14		14,3

Number of teeth

8

9

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ZSD series

Indexable drills ZSD02/03/04/05

Inserts

- For machining of steel, stainless steel, cast iron and hard-to-cut materials
- Four-edge SPMX inserts with three chip breakers and four different types
- Wiper geometry for improved surface quality
- Wave form geometry provides optimum chip breaking and removal of short chips
- Chip breakers for soft cut produce lower cutting forces

Drilling bodies

- Specially designed drill body with high rigidity
- Large drilling depths up to 5xD with high precision and process reliability
- Diameter ranges 12–63 mm as well as available in common intermediate sizes

ZSD02

Insert grades

YB9320	YBG212	YBS203	YB6338
PVD	PVD	PVD	CVD
P10 – P30	P20 – P35	M15 – M35	P20 – P30
M10 – M25	M10 – M25	S10 – S30	K20 – K30

Chip breakers

- Marking of the cutting edges for optimal positioning
- **Wiper technology:** excellent surface finish and drilling precision

-XM



- All-rounder geometry with good chip control for steel and cast iron

-EM



- Optimised geometry with very good chip control for stainless steel and super alloys

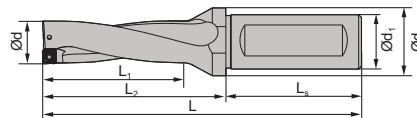
-LM



- Light cutting geometry with very good chip control for soft steels

Indexable drills series

ZSD02



Article	*	Stock	Dimensions [mm]							kg	Inserts
			ØD	ØD1	ØD2	L1	L2	L3	L		
ZSD02-120-XP20-SP04-02	*	•	12.0	20	25	27	44	50	94		SPMX040203**
ZSD02-125-XP20-SP04-02	*	•	12.5	20	25	28	45	50	95		SPMX040203**
ZSD02-130-XP20-SP04-02	*	•	13.0	20	25	29	46	50	96		SPMX040203**
ZSD02-135-XP20-SP04-02	*	•	13.5	20	25	30	47	50	97		SPMX040203**
ZSD02-140-XP20-SP04-02	*	•	14.0	20	25	31	48	50	98		SPMX040203**
ZSD02-145-XP20-SP04-02	*	•	14.5	20	25	32	49	50	99		SPMX040203**
ZSD02-150-XP20-SP05-02	*	•	15.0	20	25	33	50	50	100		SPMX050204**
ZSD02-155-XP20-SP05-02	*	•	15.5	20	25	34	51	50	101		SPMX050204**
ZSD02-160-XP20-SP05-02	*	•	16.0	20	25	35	52	50	102		SPMX050204**
ZSD02-165-XP20-SP05-02	*	•	16.5	20	25	36	53	50	103		SPMX050204**
ZSD02-170-XP20-SP05-02	*	•	17.0	20	25	37	54	50	104		SPMX050204**
ZSD02-175-XP20-SP05-02	*	•	17.5	20	25	38	55	50	105		SPMX050204**
ZSD02-180-XP25-SP06-02	*	•	18.0	25	32	39	57	56	113		SPMX060204**
ZSD02-185-XP25-SP06-02	*	•	18.5	25	32	40	58	56	114		SPMX060204**
ZSD02-190-XP25-SP06-02	*	•	19.0	25	32	41	59	56	115		SPMX060204**
ZSD02-195-XP25-SP06-02	*	•	19.5	25	32	42	60	56	116		SPMX060204**
ZSD02-200-XP25-SP06-02	*	•	20.0	25	32	43	61	56	117		SPMX060204**
ZSD02-205-XP25-SP06-02	*	•	20.5	25	32	44	62	56	118		SPMX060204**
ZSD02-210-XP25-SP06-02	*	•	21.0	25	32	45	63	56	119		SPMX060204**
ZSD02-215-XP25-SP06-02	*	•	21.5	25	32	46	64	56	120		SPMX060204**
ZSD02-220-XP25-SP06-02	*	•	22.0	25	32	47	65	56	121		SPMX060204**
ZSD02-225-XP25-SP07-02	*	•	22.5	25	32	48	66	56	122		SPMX07T308**
ZSD02-230-XP25-SP07-02	*	•	23.0	25	32	49	67	56	123		SPMX07T308**
ZSD02-235-XP25-SP07-02	*	•	23.5	25	32	50	68	56	124		SPMX07T308**
ZSD02-240-XP25-SP07-02	*	•	24.0	25	32	51	69	56	125		SPMX07T308**
ZSD02-245-XP25-SP07-02	*	•	24.5	25	32	52	70	56	126		SPMX07T308**
ZSD02-250-XP25-SP07-02	*	•	25.0	25	32	53	71	56	127		SPMX07T308**
ZSD02-255-XP25-SP07-02	*	•	25.5	25	32	54	72	56	128		SPMX07T308**
ZSD02-260-XP25-SP07-02	*	•	26.0	25	32	55	73	56	129		SPMX07T308**
ZSD02-265-XP25-SP07-02	*	•	26.5	25	32	56	74	56	130		SPMX07T308**
ZSD02-270-XP25-SP07-02	*	•	27.0	25	32	57	75	56	131		SPMX07T308**
ZSD02-275-XP25-SP07-02	*	•	27.5	25	32	58	76	56	132		SPMX07T308**
ZSD02-280-XP32-SP09-02	*	•	28.0	32	37	59	79	60	139		SPMX090408**

• Ex stock ○ On demand

* With internal cooling

Article	*	Stock	Dimensions [mm]							Inserts 
			ØD	ØD1	ØD2	L1	L2	LS	L	
ZSD02-290-XP32-SP09-02	*	•	29.0	32	37	60	81	60	141	SPMX090408**
ZSD02-300-XP32-SP09-02	*	•	30.0	32	37	61	83	60	143	SPMX090408**
ZSD02-310-XP32-SP09-02	*	•	31.0	32	37	65	85	60	145	SPMX090408**
ZSD02-320-XP32-SP09-02	*	•	32.0	32	37	67	87	60	147	SPMX090408**
ZSD02-330-XP32-SP09-02	*	•	33.0	32	37	69	89	60	149	SPMX090408**
ZSD02-340-XP40-SP11-02	*	•	34.0	40	47	71	96	70	166	SPMX110408**
ZSD02-350-XP40-SP11-02	*	•	35.0	40	47	73	98	70	168	SPMX110408**
ZSD02-360-XP40-SP11-02	*	•	36.0	40	47	75	100	70	170	SPMX110408**
ZSD02-370-XP40-SP11-02	*	•	37.0	40	47	77	102	70	172	SPMX110408**
ZSD02-380-XP40-SP11-02	*	•	38.0	40	47	79	104	70	174	SPMX110408**
ZSD02-390-XP40-SP11-02	*	•	39.0	40	47	81	106	70	176	SPMX110408**
ZSD02-400-XP40-SP11-02	*	•	40.0	40	47	83	108	70	178	SPMX110408**
ZSD02-410-XP40-SP11-02	*	•	41.0	40	47	85	110	70	180	SPMX110408**
ZSD02-420-XP40-SP14-02	*	•	42.0	40	52	87	119	70	189	SPMX140512**
ZSD02-430-XP40-SP14-02	*	•	43.0	40	52	89	121	70	191	SPMX140512**
ZSD02-440-XP40-SP14-02	*	•	44.0	40	52	91	123	70	193	SPMX140512**
ZSD02-450-XP40-SP14-02	*	•	45.0	40	52	93	125	70	195	SPMX140512**
ZSD02-460-XP40-SP14-02	*	•	46.0	40	52	95	127	70	197	SPMX140512**
ZSD02-470-XP40-SP14-02	*	•	47.0	40	52	97	129	70	199	SPMX140512**
ZSD02-480-XP40-SP14-02	*	•	48.0	40	52	99	131	70	201	SPMX140512**
ZSD02-490-XP40-SP14-02	*	•	49.0	40	52	102	133	70	203	SPMX140512**
ZSD02-500-XP40-SP14-02	*	•	50.0	40	52	103	135	70	205	SPMX140512**
ZSD02-510-XP50-SP14-02	*	•	51,0	50	57	105	137	80	217	SPMX110408**
ZSD02-520-XP50-SP14-02	*	•	52,0	50	57	107	139	80	219	SPMX140512**
ZSD02-530-XP50-SP14-02	*	•	53,0	50	57	109	141	80	221	SPMX140512**
ZSD02-540-XP50-SP09-04	*	•	54,0	50	57	111	143	80	223	SPMX090408**
ZSD02-550-XP50-SP09-04	*	•	55,0	50	57	113	145	80	225	SPMX090408**
ZSD02-560-XP50-SP09-04	*	•	56,0	50	57	115	147	80	227	SPMX090408**
ZSD02-570-XP50-SP09-04	*	•	57,0	50	57	117	149	80	229	SPMX090408**
ZSD02-580-XP50-SP09-04	*	•	58,0	50	57	119	151	80	231	SPMX090408**
ZSD02-590-XP50-SP09-04	*	•	59,0	50	57	121	153	80	233	SPMX090408**
ZSD02-600-XP50-SP09-04	*	•	60,0	50	57	123	155	80	235	SPMX090408**
ZSD02-610-XP50-SP09-04	*	•	61,0	50	57	125	157	80	237	SPMX090408**
ZSD02-620-XP50-SP09-04	*	•	62,0	50	57	127	159	80	239	SPMX090408**
ZSD02-630-XP50-SP09-04	*	•	63,0	50	57	129	161	80	241	SPMX090408**

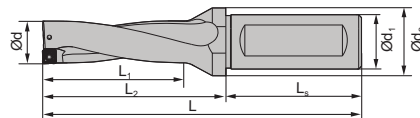
• Ex stock ○ On demand

* With internal cooling

Spare parts		SPMX040204**	SPMX050204**	SPMX060204**	SPMX07T308**	SPMX090408**	SPMX110408**	SPMX140512**
	Insert	I60M2x4.3	I60M2x4.3	I60M2.2x5.5	I60M2.5x6.5	I60M3.5x8	I60M4x10	I60M5x13
	Wrench	WT06IP	WT06IP	WT07IP	WT07IP	WT15IP	WT15IP	WT20IP

Indexable drills series

ZSD03



Article	*	Stock	Dimensions [mm]							kg	Inserts
			ØD	ØD1	ØD2	L1	L2	L3	L		
ZSD03-120-XP20-SP04-02	*	•	12.0	20	25	39	55	50	105		SPMX040203**
ZSD03-125-XP20-SP04-02	*	•	12.5	20	25	41	57	50	107		SPMX040203**
ZSD03-130-XP20-SP04-02	*	•	13.0	20	25	42	58	50	108		SPMX040203**
ZSD03-135-XP20-SP04-02	*	•	13.5	20	25	44	60	50	110		SPMX040203**
ZSD03-140-XP20-SP04-02	*	•	14.0	20	25	45	61	50	111		SPMX040203**
ZSD03-145-XP20-SP04-02	*	•	14.5	20	25	47	63	50	113		SPMX040203**
ZSD03-150-XP20-SP05-02	*	•	15.0	20	25	48	64	50	114		SPMX050204**
ZSD03-155-XP20-SP05-02	*	•	15.5	20	25	50	66	50	116		SPMX050204**
ZSD03-160-XP20-SP05-02	*	•	16.0	20	25	51	67	50	117		SPMX050204**
ZSD03-165-XP20-SP05-02	*	•	16.5	20	25	53	69	50	119		SPMX050204**
ZSD03-170-XP20-SP05-02	*	•	17.0	20	25	54	70	50	120		SPMX050204**
ZSD03-175-XP20-SP05-02	*	•	17.5	20	25	56	72	50	122		SPMX050204**
ZSD03-180-XP25-SP06-02	*	•	18.0	25	32	57	75	56	131		SPMX060204**
ZSD03-185-XP25-SP06-02	*	•	18.5	25	32	59	77	56	133		SPMX060204**
ZSD03-190-XP25-SP06-02	*	•	19.0	25	32	60	78	56	134		SPMX060204**
ZSD03-195-XP25-SP06-02	*	•	19.5	25	32	62	80	56	136		SPMX060204**
ZSD03-200-XP25-SP06-02	*	•	20.0	25	32	63	81	56	137		SPMX060204**
ZSD03-205-XP25-SP06-02	*	•	20.5	25	32	65	83	56	139		SPMX060204**
ZSD03-210-XP25-SP06-02	*	•	21.0	25	32	66	84	56	140		SPMX060204**
ZSD03-215-XP25-SP06-02	*	•	21.5	25	32	68	86	56	142		SPMX060204**
ZSD03-220-XP25-SP06-02	*	•	22.0	25	32	69	87	56	143		SPMX060204**
ZSD03-225-XP25-SP07-02	*	•	22.5	25	32	71	89	56	145		SPMX07T308**
ZSD03-230-XP25-SP07-02	*	•	23.0	25	32	72	91	56	147		SPMX07T308**
ZSD03-235-XP25-SP07-02	*	•	23.5	25	32	74	93	56	149		SPMX07T308**
ZSD03-240-XP25-SP07-02	*	•	24.0	25	32	75	94	56	150		SPMX07T308**
ZSD03-245-XP25-SP07-02	*	•	24.5	25	32	77	96	56	152		SPMX07T308**
ZSD03-250-XP25-SP07-02	*	•	25.0	25	32	78	97	56	153		SPMX07T308**
ZSD03-255-XP25-SP07-02	*	•	25.5	25	32	80	99	56	155		SPMX07T308**
ZSD03-260-XP25-SP07-02	*	•	26.0	25	32	81	100	56	156		SPMX07T308**
ZSD03-265-XP25-SP07-02	*	•	26.5	25	32	83	102	56	158		SPMX07T308**
ZSD03-270-XP25-SP07-02	*	•	27.0	25	32	84	104	56	160		SPMX07T308**
ZSD03-275-XP25-SP07-02	*	•	27.5	25	32	86	106	56	162		SPMX07T308**
ZSD03-280-XP32-SP09-02	*	•	28.0	32	37	87	109	60	169		SPMX090408**

• Ex stock ○ On demand

* With internal cooling

Article	*	Stock	Dimensions [mm]							Inserts 
			ØD	ØD1	ØD2	L1	L2	LS	L	
ZSD03-290-XP32-SP09-02	*	•	29.0	32	37	90	112	60	172	SPMX090408**
ZSD03-300-XP32-SP09-02	*	•	30.0	32	37	93	115	60	175	SPMX090408**
ZSD03-310-XP32-SP09-02	*	•	31.0	32	37	96	118	60	178	SPMX090408**
ZSD03-320-XP32-SP09-02	*	•	32.0	32	37	99	121	60	181	SPMX090408**
ZSD03-330-XP32-SP09-02	*	•	33.0	32	37	102	124	60	184	SPMX090408**
ZSD03-340-XP40-SP11-02	*	•	34.0	40	47	105	130	70	200	SPMX110408**
ZSD03-350-XP40-SP11-02	*	•	35.0	40	47	108	133	70	203	SPMX110408**
ZSD03-360-XP40-SP11-02	*	•	36.0	40	47	111	136	70	206	SPMX110408**
ZSD03-370-XP40-SP11-02	*	•	37.0	40	47	114	139	70	209	SPMX110408**
ZSD03-380-XP40-SP11-02	*	•	38.0	40	47	117	142	70	212	SPMX110408**
ZSD03-390-XP40-SP11-02	*	•	39.0	40	47	120	145	70	215	SPMX110408**
ZSD03-400-XP40-SP11-02	*	•	40.0	40	47	123	148	70	218	SPMX110408**
ZSD03-410-XP40-SP11-02	*	•	41.0	40	47	126	151	70	221	SPMX110408**
ZSD03-420-XP40-SP14-02	*	•	42.0	40	52	129	161	70	231	SPMX140512**
ZSD03-430-XP40-SP14-02	*	•	43.0	40	52	132	164	70	234	SPMX140512**
ZSD03-440-XP40-SP14-02	*	•	44.0	40	52	135	167	70	237	SPMX140512**
ZSD03-450-XP40-SP14-02	*	•	45.0	40	52	138	170	70	240	SPMX140512**
ZSD03-460-XP40-SP14-02	*	•	46.0	40	52	141	173	70	243	SPMX140512**
ZSD03-470-XP40-SP14-02	*	•	47.0	40	52	144	176	70	245	SPMX140512**
ZSD03-480-XP40-SP14-02	*	•	48.0	40	52	147	179	70	249	SPMX140512**
ZSD03-490-XP40-SP14-02	*	•	49.0	40	52	150	182	70	252	SPMX140512**
ZSD03-500-XP40-SP14-02	*	•	50.0	40	52	153	185	70	255	SPMX140512**
ZSD03-510-XP50-SP14-02	*	•	51,0	50	57	156	188	80	268	SPMX110408**
ZSD03-520-XP50-SP14-02	*	•	52,0	50	57	159	191	80	271	SPMX140512**
ZSD03-530-XP50-SP14-02	*	•	53,0	50	57	162	194	80	274	SPMX140512**
ZSD03-540-XP50-SP09-04	*	•	54,0	50	57	165	197	80	277	SPMX090408**
ZSD03-550-XP50-SP09-04	*	•	55,0	50	57	168	200	80	280	SPMX090408**
ZSD03-560-XP50-SP09-04	*	•	56,0	50	57	171	203	80	283	SPMX090408**
ZSD03-570-XP50-SP09-04	*	•	57,0	50	57	174	206	80	286	SPMX090408**
ZSD03-580-XP50-SP09-04	*	•	58,0	50	57	177	209	80	289	SPMX090408**
ZSD03-590-XP50-SP09-04	*	•	59,0	50	57	180	212	80	292	SPMX090408**
ZSD03-600-XP50-SP09-04	*	•	60,0	50	57	183	215	80	295	SPMX090408**
ZSD03-610-XP50-SP09-04	*	•	61,0	50	57	186	218	80	298	SPMX090408**
ZSD03-620-XP50-SP09-04	*	•	62,0	50	57	189	221	80	301	SPMX090408**
ZSD03-630-XP50-SP09-04	*	•	63,0	50	57	192	224	80	304	SPMX090408**

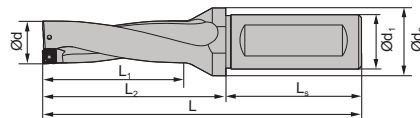
• Ex stock ◯ On demand

* With internal cooling

Spare parts		SPMX040204**	SPMX050204**	SPMX060204**	SPMX07T308**	SPMX090408**	SPMX110408**	SPMX140512**
	Insert	I60M2x4.3	I60M2x4.3	I60M2.2x5.5	I60M2.5x6.5	I60M3.5x8	I60M4x10	I60M5x13
	Wrench	WT06IP	WT06IP	WT07IP	WT07IP	WT15IP	WT15IP	WT20IP

Indexable drills series

ZSD04



Article	*	Stock	Dimensions [mm]							kg	Inserts
			ØD	ØD1	ØD2	L1	L2	L3	L		
ZSD04-120-XP20-SP04-02	*	•	12.0	20	25	51	67	50	117		SPMX040203**
ZSD04-125-XP20-SP04-02	*	•	12.5	20	25	53	69	50	119		SPMX040203**
ZSD04-130-XP20-SP04-02	*	•	13.0	20	25	55	71	50	121		SPMX040203**
ZSD04-135-XP20-SP04-02	*	•	13.5	20	25	57	73	50	123		SPMX040203**
ZSD04-140-XP20-SP04-02	*	•	14.0	20	25	59	75	50	125		SPMX040203**
ZSD04-145-XP20-SP04-02	*	•	14.5	20	25	61	77	50	127		SPMX040203**
ZSD04-150-XP20-SP05-02	*	•	15.0	20	25	63	79	50	129		SPMX050204**
ZSD04-155-XP20-SP05-02	*	•	15.5	20	25	65	81	50	131		SPMX050204**
ZSD04-160-XP20-SP05-02	*	•	16.0	20	25	67	83	50	133		SPMX050204**
ZSD04-165-XP20-SP05-02	*	•	16.5	20	25	69	85	50	135		SPMX050204**
ZSD04-170-XP20-SP05-02	*	•	17.0	20	25	71	87	50	137		SPMX050204**
ZSD04-175-XP20-SP05-02	*	•	17.5	20	25	73	89	50	139		SPMX050204**
ZSD04-180-XP25-SP06-02	*	•	18.0	25	32	75	93	56	149		SPMX060204**
ZSD04-185-XP25-SP06-02	*	•	18.5	25	32	77	95	56	151		SPMX060204**
ZSD04-190-XP25-SP06-02	*	•	19.0	25	32	79	97	56	153		SPMX060204**
ZSD04-195-XP25-SP06-02	*	•	19.5	25	32	81	99	56	155		SPMX060204**
ZSD04-200-XP25-SP06-02	*	•	20.0	25	32	83	101	56	157		SPMX060204**
ZSD04-205-XP25-SP06-02	*	•	20.5	25	32	85	103	56	159		SPMX060204**
ZSD04-210-XP25-SP06-02	*	•	21.0	25	32	87	105	56	161		SPMX060204**
ZSD04-215-XP25-SP06-02	*	•	21.5	25	32	89	107	56	163		SPMX060204**
ZSD04-220-XP25-SP06-02	*	•	22.0	25	32	91	109	56	165		SPMX060204**
ZSD04-225-XP25-SP07-02	*	•	22.5	25	32	93	111	56	167		SPMX07T308**
ZSD04-230-XP25-SP07-02	*	•	23.0	25	32	95	114	56	170		SPMX07T308**
ZSD04-235-XP25-SP07-02	*	•	23.5	25	32	97	116	56	172		SPMX07T308**
ZSD04-240-XP25-SP07-02	*	•	24.0	25	32	99	118	56	174		SPMX07T308**
ZSD04-245-XP25-SP07-02	*	•	24.5	25	32	101	120	56	176		SPMX07T308**
ZSD04-250-XP25-SP07-02	*	•	25.0	25	32	103	122	56	178		SPMX07T308**
ZSD04-255-XP25-SP07-02	*	•	25.5	25	32	105	125	56	181		SPMX07T308**
ZSD04-260-XP25-SP07-02	*	•	26.0	25	32	107	126	56	182		SPMX07T308**
ZSD04-265-XP25-SP07-02	*	•	26.5	25	32	109	128	56	184		SPMX07T308**
ZSD04-270-XP25-SP07-02	*	•	27.0	25	32	111	131	56	187		SPMX07T308**
ZSD04-275-XP25-SP07-02	*	•	27.5	25	32	113	134	56	190		SPMX07T308**
ZSD04-280-XP32-SP09-02	*	•	28.0	32	37	115	139	60	199		SPMX090408**

• Ex stock ○ On demand

* With internal cooling

Article	*	Stock	Dimensions [mm]							Inserts 
			ØD	ØD1	ØD2	L1	L2	LS	L	
ZSD04-290-XP32-SP09-02	*	•	29.0	32	37	119	143	60	203	SPMX090408**
ZSD04-300-XP32-SP09-02	*	•	30.0	32	37	123	147	60	207	SPMX090408**
ZSD04-305-XP32-SP09-02	*	•	30.5	32	37	125	149	60	209	SPMX090408**
ZSD04-310-XP32-SP09-02	*	•	31.0	32	37	127	151	60	211	SPMX090408**
ZSD04-320-XP32-SP09-02	*	•	32.0	32	37	131	155	60	215	SPMX090408**
ZSD04-330-XP32-SP09-02	*	•	33.0	32	37	135	159	60	219	SPMX090408**
ZSD04-340-XP40-SP11-02	*	•	34.0	40	47	139	164	70	234	SPMX110408**
ZSD04-350-XP40-SP11-02	*	•	35.0	40	47	143	168	70	238	SPMX110408**
ZSD04-360-XP40-SP11-02	*	•	36.0	40	47	147	172	70	242	SPMX110408**
ZSD04-370-XP40-SP11-02	*	•	37.0	40	47	151	176	70	246	SPMX110408**
ZSD04-380-XP40-SP11-02	*	•	38.0	40	47	155	180	70	250	SPMX110408**
ZSD04-390-XP40-SP11-02	*	•	39.0	40	47	159	184	70	254	SPMX110408**
ZSD04-400-XP40-SP11-02	*	•	40.0	40	47	163	188	70	258	SPMX110408**
ZSD04-405-XP40-SP11-02	*	•	40.5	40	47	165	190	70	260	SPMX110408**
ZSD04-410-XP40-SP11-02	*	•	41.0	40	47	167	192	70	262	SPMX110408**
ZSD04-420-XP40-SP14-02	*	•	42.0	40	52	171	203	70	273	SPMX140512**
ZSD04-430-XP40-SP14-02	*	•	43.0	40	52	175	207	70	277	SPMX140512**
ZSD04-440-XP40-SP14-02	*	•	44.0	40	52	179	211	70	281	SPMX140512**
ZSD04-450-XP40-SP14-02	*	•	45.0	40	52	183	215	70	285	SPMX140512**
ZSD04-460-XP40-SP14-02	*	•	46.0	40	52	187	219	70	289	SPMX140512**
ZSD04-470-XP40-SP14-02	*	•	47.0	40	52	191	223	70	293	SPMX140512**
ZSD04-480-XP40-SP14-02	*	•	48.0	40	52	195	227	70	297	SPMX140512**
ZSD04-490-XP40-SP14-02	*	•	49.0	40	52	199	231	70	301	SPMX140512**
ZSD04-500-XP40-SP14-02	*	•	50.0	40	52	203	235	70	305	SPMX140512**
ZSD04-510-XP50-SP14-02	*	○	51,0	50	57	207	239	80	319	SPMX110408**
ZSD04-520-XP50-SP14-02	*	○	52,0	50	57	211	243	80	323	SPMX140512**
ZSD04-530-XP50-SP14-02	*	○	53,0	50	57	215	247	80	327	SPMX140512**
ZSD04-540-XP50-SP09-04	*	○	54,0	50	57	219	251	80	331	SPMX090408**
ZSD04-550-XP50-SP09-04	*	○	55,0	50	57	223	255	80	335	SPMX090408**
ZSD04-560-XP50-SP09-04	*	○	56,0	50	57	227	259	80	339	SPMX090408**
ZSD04-570-XP50-SP09-04	*	○	57,0	50	57	231	263	80	343	SPMX090408**
ZSD04-580-XP50-SP09-04	*	○	58,0	50	57	235	267	80	347	SPMX090408**
ZSD04-590-XP50-SP09-04	*	○	59,0	50	57	239	271	80	351	SPMX090408**
ZSD04-600-XP50-SP09-04	*	○	60,0	50	57	243	275	80	355	SPMX090408**
ZSD04-610-XP50-SP09-04	*	○	61,0	50	57	247	279	80	359	SPMX090408**
ZSD04-620-XP50-SP09-04	*	○	62,0	50	57	251	283	80	363	SPMX090408**
ZSD04-630-XP50-SP09-04	*	○	63,0	50	57	255	287	80	367	SPMX090408**

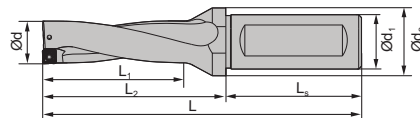
• Ex stock ○ On demand

* With internal cooling

Spare parts		SPMX040204**	SPMX050204**	SPMX060204**	SPMX07T308**	SPMX090408**	SPMX110408**	SPMX140512**
	Screw	I60M2x4.3	I60M2x4.3	I60M2.2x5.5	I60M2.5x6.5	I60M3.5x8	I60M4x10	I60M5x13
	Wrench	WT06IP	WT06IP	WT07IP	WT07IP	WT15IP	WT15IP	WT20IP

Indexable drills series

ZSD05



Article	*	Stock	Dimensions [mm]							kg	Inserts
			ØD	ØD1	ØD2	L1	L2	L3	L		
ZSD05-120-XP20-SP04-02	*	•	12.0	20	25	63	79	50	129		SPMX040203**
ZSD05-125-XP20-SP04-02	*	•	12.5	20	25	66	82	50	132		SPMX040203**
ZSD05-130-XP20-SP04-02	*	•	13.0	20	25	68	84	50	134		SPMX040203**
ZSD05-135-XP20-SP04-02	*	•	13.5	20	25	71	87	50	137		SPMX040203**
ZSD05-140-XP20-SP04-02	*	•	14.0	20	25	73	89	50	139		SPMX040203**
ZSD05-145-XP20-SP04-02	*	•	14.5	20	25	76	91	50	141		SPMX040203**
ZSD05-150-XP20-SP05-02	*	•	15.0	20	25	78	94	50	144		SPMX050204**
ZSD05-155-XP20-SP05-02	*	•	15.5	20	25	81	97	50	147		SPMX050204**
ZSD05-160-XP20-SP05-02	*	•	16.0	20	25	83	99	50	149		SPMX050204**
ZSD05-165-XP20-SP05-02	*	•	16.5	20	25	86	102	50	152		SPMX050204**
ZSD05-170-XP20-SP05-02	*	•	17.0	20	25	88	104	50	154		SPMX050204**
ZSD05-175-XP20-SP05-02	*	•	17.5	20	25	91	107	50	157		SPMX050204**
ZSD05-180-XP25-SP06-02	*	•	18.0	25	32	93	112	56	167		SPMX060204**
ZSD05-185-XP25-SP06-02	*	•	18.5	25	32	96	114	56	170		SPMX060204**
ZSD05-190-XP25-SP06-02	*	•	19.0	25	32	98	116	56	172		SPMX060204**
ZSD05-195-XP25-SP06-02	*	•	19.5	25	32	101	119	56	175		SPMX060204**
ZSD05-200-XP25-SP06-02	*	•	20.0	25	32	103	121	56	177		SPMX060204**
ZSD05-205-XP25-SP06-02	*	•	20.5	25	32	106	124	56	180		SPMX060204**
ZSD05-210-XP25-SP06-02	*	•	21.0	25	32	108	126	56	182		SPMX060204**
ZSD05-215-XP25-SP06-02	*	•	21.5	25	32	111	129	56	185		SPMX060204**
ZSD05-220-XP25-SP06-02	*	•	22.0	25	32	113	131	56	187		SPMX060204**
ZSD05-225-XP25-SP07-02	*	•	22.5	25	32	116	134	56	190		SPMX07T308**
ZSD05-230-XP25-SP07-02	*	•	23.0	25	32	118	138	56	194		SPMX07T308**
ZSD05-235-XP25-SP07-02	*	•	23.5	25	32	121	141	56	197		SPMX07T308**
ZSD05-240-XP25-SP07-02	*	•	24.0	25	32	123	143	56	199		SPMX07T308**
ZSD05-245-XP25-SP07-02	*	•	24.5	25	32	126	146	56	202		SPMX07T308**
ZSD05-250-XP25-SP07-02	*	•	25.0	25	32	128	148	56	204		SPMX07T308**
ZSD05-255-XP25-SP07-02	*	•	25.5	25	32	131	151	56	207		SPMX07T308**
ZSD05-260-XP25-SP07-02	*	•	26.0	25	32	133	153	56	209		SPMX07T308**
ZSD05-265-XP25-SP07-02	*	•	26.5	25	32	136	156	56	212		SPMX07T308**
ZSD05-270-XP25-SP07-02	*	•	27.0	25	32	138	158	56	214		SPMX07T308**
ZSD05-275-XP25-SP07-02	*	•	27.5	25	32	141	161	56	217		SPMX07T308**
ZSD05-280-XP32-SP09-02	*	•	28.0	32	37	143	163	60	223		SPMX090408**

• Ex stock ○ On demand

* With internal cooling

Article	*	Stock	Dimensions [mm]							Inserts 
			ØD	ØD1	ØD2	L1	L2	LS	L	
ZSD05-290-XP32-SP09-02	*	•	29.0	32	37	148	168	60	228	SPMX090408**
ZSD05-300-XP32-SP09-02	*	•	30.0	32	37	153	173	60	233	SPMX090408**
ZSD05-310-XP32-SP09-02	*	•	31.0	32	37	158	178	60	238	SPMX090408**
ZSD05-320-XP32-SP09-02	*	•	32.0	32	37	163	183	60	243	SPMX090408**
ZSD05-330-XP32-SP09-02	*	•	33.0	32	37	168	189	60	249	SPMX090408**
ZSD05-340-XP40-SP11-02	*	•	34.0	40	47	173	198	70	268	SPMX110408**
ZSD05-350-XP40-SP11-02	*	•	35.0	40	47	178	203	70	273	SPMX110408**
ZSD05-360-XP40-SP11-02	*	•	36.0	40	47	183	208	70	278	SPMX110408**
ZSD05-370-XP40-SP11-02	*	•	37.0	40	47	188	213	70	283	SPMX110408**
ZSD05-380-XP40-SP11-02	*	•	38.0	40	47	193	218	70	288	SPMX110408**
ZSD05-390-XP40-SP11-02	*	•	39.0	40	47	198	223	70	293	SPMX110408**
ZSD05-400-XP40-SP11-02	*	•	40.0	40	47	203	228	70	298	SPMX110408**
ZSD05-410-XP40-SP11-02	*	•	41.0	40	47	208	233	70	303	SPMX110408**
ZSD05-420-XP40-SP14-02	*	•	42.0	40	52	213	245	70	315	SPMX140512**
ZSD05-430-XP40-SP14-02	*	•	43.0	40	52	218	250	70	320	SPMX140512**
ZSD05-440-XP40-SP14-02	*	•	44.0	40	52	223	255	70	325	SPMX140512**
ZSD05-450-XP40-SP14-02	*	•	45.0	40	52	228	260	70	330	SPMX140512**
ZSD05-460-XP40-SP14-02	*	•	46.0	40	52	233	265	70	335	SPMX140512**
ZSD05-470-XP40-SP14-02	*	•	47.0	40	52	238	270	70	340	SPMX140512**
ZSD05-480-XP40-SP14-02	*	•	48.0	40	52	243	275	70	345	SPMX140512**
ZSD05-490-XP40-SP14-02	*	•	49.0	40	52	248	280	70	350	SPMX140512**
ZSD05-500-XP40-SP14-02	*	•	50.0	40	52	253	285	70	355	SPMX140512**
ZSD05-510-XP50-SP14-02	*	○	51,0	50	57	258	290	80	370	SPMX110408**
ZSD05-520-XP50-SP14-02	*	○	52,0	50	57	263	295	80	375	SPMX140512**
ZSD05-530-XP50-SP14-02	*	○	53,0	50	57	268	300	80	380	SPMX140512**
ZSD05-540-XP50-SP09-04	*	○	54,0	50	57	273	305	80	385	SPMX090408**
ZSD05-550-XP50-SP09-04	*	○	55,0	50	57	278	310	80	390	SPMX090408**
ZSD05-560-XP50-SP09-04	*	○	56,0	50	57	283	315	80	395	SPMX090408**
ZSD05-570-XP50-SP09-04	*	○	57,0	50	57	288	320	80	400	SPMX090408**
ZSD05-580-XP50-SP09-04	*	○	58,0	50	57	293	325	80	405	SPMX090408**
ZSD05-590-XP50-SP09-04	*	○	59,0	50	57	298	330	80	410	SPMX090408**
ZSD05-600-XP50-SP09-04	*	○	60,0	50	57	303	335	80	415	SPMX090408**
ZSD05-610-XP50-SP09-04	*	○	61,0	50	57	308	340	80	420	SPMX090408**
ZSD05-620-XP50-SP09-04	*	○	62,0	50	57	313	345	80	425	SPMX090408**
ZSD05-630-XP50-SP09-04	*	○	63,0	50	57	318	350	80	430	SPMX090408**

• Ex stock ○ On demand

* With internal cooling

Spare parts								
	Insert	SPMX040204**	SPMX050204**	SPMX060204**	SPMX07T308**	SPMX090408**	SPMX110408**	SPMX140512**
	Screw	I60M2x4.3	I60M2x4.3	I60M2.2x5.5	I60M2.5x6.5	I60M3.5x8	I60M4x10	I60M5x13
	Wrench	WT06IP	WT06IP	WT07IP	WT07IP	WT15IP	WT15IP	WT20IP

A

Turning

B

Milling

C

Drilling

D

Technical Information

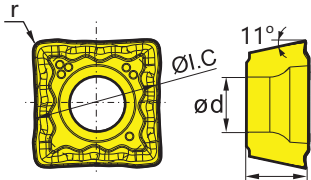
E

Index

SPMX	L	I.C	S	d
04 02	4	4	2,38	2,2
05 02	5	5	2,38	2,2
06 02	6	6	2,38	2,5
07 T3	7,94	7,94	3,97	2,8
09 04	9,8	9,8	4,30	4,1
11 04	11,5	11,5	4,76	4,4
14 05	14,3	14,3	5,20	5,5

-  Ideal machining conditions
-  Normal machining conditions
-  Unfavourable machining conditions

Drilling inserts

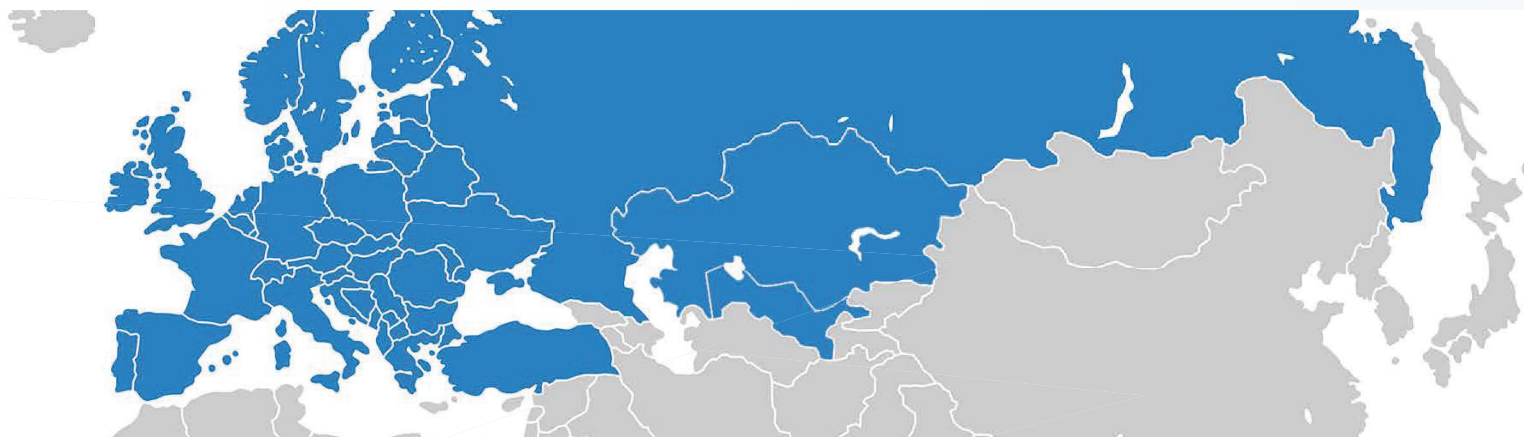
SP** drilling insert				HC ¹ (CVD)					HC ¹ (PVD)					HW				
		P																
		M																
		K																
		N																
		S																
		H																
ISO		r	YB6338						YBG202	YBG205	YBG212	YB9320	YBS203					
 XM	SPMX040203-XM	0,3	●									●						
	SPMX050204-XM	0,4	●								○	●						
	SPMX060204-XM	0,4	●									●						
	SPMX07T308-XM	0,8	●								○	●						
	SPMX090408-XM	0,8	●									●						
	SPMX110408-XM	0,8	●									●						
	SPMX140512-XM	1,2	●									●						
 EM	SPMX040203-EM	0,3									○	○						
	SPMX050204-EM	0,4									○	○						
	SPMX060204-EM	0,4									○	○						
	SPMX07T308-EM	0,8									○	○						
	SPMX090408-EM	0,8									○	○						
	SPMX110408-EM	0,8									○	○						
	SPMX140512-EM	1,2									○	○						
 LM	SPMX040203-LM	0,3									○							
	SPMX050204-LM	0,4									○							
	SPMX060204-LM	0,4									○							
	SPMX07T308-LM	0,8									○							
	SPMX090408-LM	0,8									○							
	SPMX110408-LM	0,8									○							
	SPMX140512-LM	1,2									○							

● Ex stock ○ On demand

HC¹ Coated carbide
HW Uncoated carbide



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