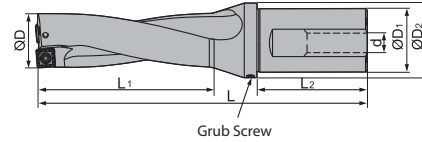


Indexable drills series

ZTD03



Grub Screw

Article	*	Stock	Dimensions [mm]								kg	Inserts
			ØD	ØD1	ØD2	L1	L2	L	d			
ZTD03-130-XP20-SP05-02	*	•	13	20	25	44	50	111	M13×1	0.179	SPGT0502**	
ZTD03-140-XP20-SP05-02	*	•	14	20	25	47	50	114	M13×1	0.186	SPGT0502**	
ZTD03-150-XP20-SP05-02	*	•	15	20	25	50	50	117	M13×1	0.195	SPGT0502**	
ZTD03-160-XP20-SP05-02	*	•	16	20	25	53	50	120	M13×1	0.214	SPGT0502**	
ZTD03-170-XP25-SP06-02	*	•	17	25	32	56	56	134	M16×1,5	0.32	SPGT0602**	
ZTD03-180-XP25-SP06-02	*	•	18	25	32	59	56	137	M16×1,5	0.331	SPGT0602**	
ZTD03-190-XP25-SP06-02	*	•	19	25	32	62	56	140	M16×1,5	0.342	SPGT0602**	
ZTD03-200-XP25-SP06-02	*	•	20	25	32	65	56	143	M16×1,5	0.356	SPGT0602**	
ZTD03-210-XP25-SP06-02	*	•	21	25	32	68	56	146	M16×1,5	0.391	SPGT0602**	
ZTD03-220-XP25-SP07-02	*	•	22	25	32	71	56	149	M16×1,5	0.391	SPGT07T3**	
ZTD03-230-XP25-SP07-02	*	•	23	25	32	74	56	152	M16×1,5	0.442	SPGT07T3**	
ZTD03-240-XP25-SP07-02	*	•	24	25	32	77	56	155	M16×1,5	0.485	SPGT07T3**	
ZTD03-250-XP25-SP07-02	*	•	25	25	32	80	56	158	M16×1,5	0.492	SPGT07T3**	
ZTD03-260-XP25-SP07-02	*	•	26	25	32	83	56	161	M16×1,5	0.497	SPGT07T3**	
ZTD03-270-XP25-SP07-02	*	•	27	25	32	86	56	164	M16×1,5	0.521	SPGT07T3**	
ZTD03-280-XP32-SP09-02	*	•	28	32	37	89	60	174	M22×2	0.75	SPGT0904**	
ZTD03-285-XP32-SP09-02	*	○	28.5	32	37	91	60	171	M22×2	0.699	SPGT0904**	
ZTD03-290-XP32-SP09-02	*	•	29	32	37	92	60	177	M22×2	0.777	SPGT0904**	
ZTD03-300-XP32-SP09-02	*	•	30	32	37	95	60	180	M22×2	0.81	SPGT0904**	
ZTD03-310-XP32-SP09-02	*	•	31	32	37	98	60	183	M22×2	0.831	SPGT0904**	
ZTD03-320-XP32-SP09-02	*	•	32	32	37	101	60	186	M22×2	0.867	SPGT0904**	
ZTD03-330-XP32-SP09-02	*	•	33	32	37	104	60	189	M22×2	0.928	SPGT0904**	
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**	

• Ex stock ○ On demand


* Internal cooling

System code > C9

Grade selection > C8




Technical info > C201

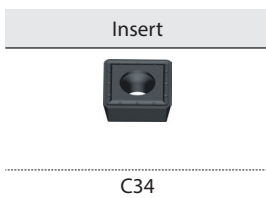
Cutting data > C36

Article	*	Stock	Dimensions [mm]								kg	Inserts 
			ØD	ØD1	ØD2	L1	L2	L	d			
ZTD03-450-XP40-SP14-02	*	•	45	40	52	140	70	250	(BSPT)RC1/4	2.12	SPGT1405**	
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**	
ZTD03-508-XP40-SP14-02	*	○	50.8	40	57	157	70	267	(BSPT)RC1/4	2.484	SPGT1405**	
ZTD03-510-XP50-SP07-04	*	○	51	50	62	158	80	278	(BSPT)RC1/4	3.128	SPGT07T3**	
ZTD03-530-XP50-SP07-04	*	○	53	50	62	164	80	284	(BSPT)RC1/4	3.426	SPGT07T3**	
ZTD03-540-XP50-SP09-04	*	○	54	50	57	167	80	287	(BSPT)RC1/4	3.292	SPGT0904**	
ZTD03-550-XP50-SP09-04	*	○	55	50	57	170	80	290	(BSPT)RC1/4	3.29	SPGT0904**	
ZTD03-570-XP50-SP09-04	*	○	57	50	67	176	80	296	(BSPT)RC1/4	3.853	SPGT0904**	
ZTD03-580-XP50-SP09-04	*	○	58	50	62	179	80	299	(BSPT)RC1/4	3.851	SPGT0904**	
ZTD03-590-XP50-SP09-04	*	○	59	50	62	182	80	302	(BSPT)RC1/4	3.814	SPGT0904**	
ZTD03-600-XP50-SP09-04	*	○	60	50	67	185	80	305	(BSPT)RC1/4	4.217	SPGT0904**	
ZTD03-620-XP50-SP09-04	*	○	62	50	67	191	80	311	(BSPT)RC1/4	4.454	SPGT0904**	
ZTD03-630-XP50-SP09-04	*	○	63	50	67	194	80	314	(BSPT)RC1/4	4.6	SPGT0904**	
ZTD03-640-XP50-SP09-04	*	○	64	50	67	197	80	317	(BSPT)RC1/4	4.574	SPGT0904**	
ZTD03-650-XP50-SP09-04	*	○	65	50	67	200	80	320	(BSPT)RC1/4	4.882	SPGT0904**	
ZTD03-660-XP50-SP09-04	*	○	66	50	67	203	80	323	(BSPT)RC1/4	5.024	SPGT0904**	
ZTD03-670-XP50-SP11-04	*	○	67	50	82	206	80	326	(BSPT)RC1/4	5.181	SPGT1104**	
ZTD03-730-XP50-SP11-04	*	○	73	50	85	224	80	344	(BSPT)RC1/4	6.71	SPGT1104**	

• Ex stock ○ On demand

* Internal cooling

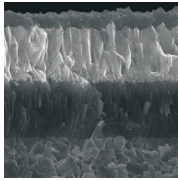

Spare parts							
Insert	SPGT0502**	SPGT0602**	SPGT07T3**	SPGT0904**	SPGT1104**	SPGT1405**	
 Grub screw					M6×6 (7.0Nm)	M8×8 (10.2Nm)	
 Screw	I60M2×4.3 (0.5Nm)	I60M2.2×5.5 (0.8Nm)	I60M2.5×6.5 (1.0Nm)	I60M3.5×8 (2.7Nm)	I60M4×10 (3.4Nm)	I60M5×13 (6.7Nm)	
 Wrench	WT06IP	WT07IP	WT07IP	WT15IP	WT15IP	WT20IP	



A

Turning

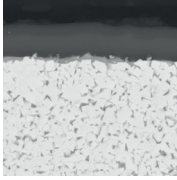
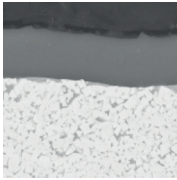
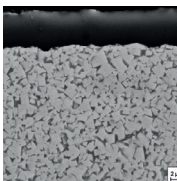
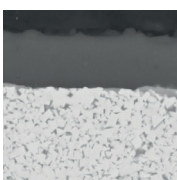
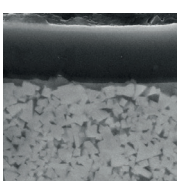
Coated cemented carbide CVD

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.
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.

B

Milling

Coated cemented carbide PVD

Grade	ISO	Micro structure	Grade description
YBG105	S05 - S20		PVD multilayer coated S05–S20 carbide substrate for finishing to medium application of super alloy material but also stainless steel. Good wear resistance and thermal stability in a wide application field.
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.
YBS203	S15 - S25		For processing heat-resistant materials. A special carbon substrate and the latest PVD coating technology enable a very good wear behaviour, high fracture toughness and high thermal stability.
YBG205	P10 - P30 M20 - M40 S15-S25		PVD multilayer coated P10–P30/M20–M40/S15–S25 carbide substrate for finishing to medium machining of stainless steel, super alloys and steel (milling). Excellent wear resistance and thermal stability in a wide range of applications.
YB9320	P10 - P30 M10 - M25		PVD multilayer coated P10–P30/M10–M25 carbide substrate for finishing to medium machining of stainless steel, super alloys and steel (grooving/milling). Optimised coating stability for higher wear resistance and thermal stability in a wide range of applic

C

Drilling

D

Technical Information

E

Index

Application fields of grades – indexable drills

	ISO	HC ¹ (CVD)	HC ¹ (PVD)	HT	HW	PCBN & PCD
A Turning	P01					
	P10					
	P20	YBD252	YBG202			
	P30	YB6338	YBG205			
	P40		YBG212			
B Milling	M01					
	M10		YBG202			
	M20		YB9320			
	M30		YBG205			
	M40		YBS203			
C Drilling	K01					
	K10	YBD252	YBG202			
	K20	YB6338	YBG205			
	K30					
	K40					YBG212
D Technical Information	N01					
	N10					
	N20				YD201	
	N30					
E Index	S01		YBG202			
	S10		YB9320			
	S20		YBG205			
	S30		YBS203			YBG212
F Index	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

ZSD – 03 300 – XP – 32 S P 09 – 02

1 2 3 4 5 6 7 8 9

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

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

9

A

Turning

B

Milling

C

Drilling

D

Technical Information

E

Index