

ZSD series

Indexable drills ZSD02/03/04/05

ZSD02



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

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

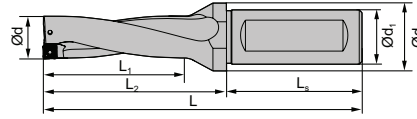
-LM



- 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		SPMX040204**
ZSD02-125-XP20-SP04-02	*	●	12.5	20	25	28	45	50	95		SPMX040204**
ZSD02-130-XP20-SP04-02	*	●	13.0	20	25	29	46	50	96		SPMX040204**
ZSD02-135-XP20-SP04-02	*	●	13.5	20	25	30	47	50	97		SPMX040204**
ZSD02-140-XP20-SP04-02	*	●	14.0	20	25	31	48	50	98		SPMX040204**
ZSD02-145-XP20-SP04-02	*	●	14.5	20	25	32	49	50	99		SPMX040204**
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]							kg	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								
	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

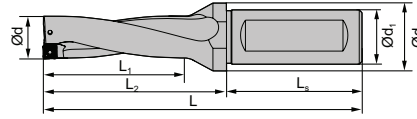
Technical Information

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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		SPMX040204**
ZSD03-125-XP20-SP04-02	*	•	12.5	20	25	41	57	50	107		SPMX040204**
ZSD03-130-XP20-SP04-02	*	•	13.0	20	25	42	58	50	108		SPMX040204**
ZSD03-135-XP20-SP04-02	*	•	13.5	20	25	44	60	50	110		SPMX040204**
ZSD03-140-XP20-SP04-02	*	•	14.0	20	25	45	61	50	111		SPMX040204**
ZSD03-145-XP20-SP04-02	*	•	14.5	20	25	47	63	50	113		SPMX040204**
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]							kg	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								
	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

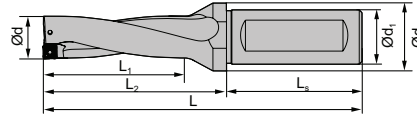
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Drilling

D
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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		SPMX040204**
ZSD04-125-XP20-SP04-02	*	•	12.5	20	25	53	69	50	119		SPMX040204**
ZSD04-130-XP20-SP04-02	*	•	13.0	20	25	55	71	50	121		SPMX040204**
ZSD04-135-XP20-SP04-02	*	•	13.5	20	25	57	73	50	123		SPMX040204**
ZSD04-140-XP20-SP04-02	*	•	14.0	20	25	59	75	50	125		SPMX040204**
ZSD04-145-XP20-SP04-02	*	•	14.5	20	25	61	77	50	127		SPMX040204**
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]							kg	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								
	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

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Drilling

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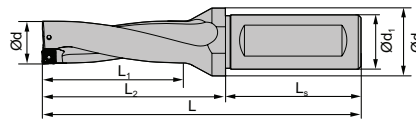
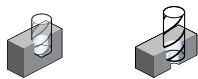
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Indexable drills series


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		SPMX040204**
ZSD05-125-XP20-SP04-02	*	•	12.5	20	25	66	82	50	132		SPMX040204**
ZSD05-130-XP20-SP04-02	*	•	13.0	20	25	68	84	50	134		SPMX040204**
ZSD05-135-XP20-SP04-02	*	•	13.5	20	25	71	87	50	137		SPMX040204**
ZSD05-140-XP20-SP04-02	*	•	14.0	20	25	73	89	50	139		SPMX040204**
ZSD05-145-XP20-SP04-02	*	•	14.5	20	25	76	91	50	141		SPMX040204**
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]							kg	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

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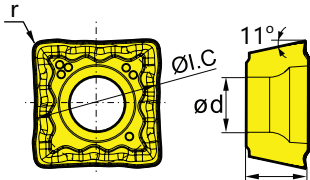
















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SPMX	L	I.C	S	d
04 02	4	4	2,38	2,2
05 02	5	5	2,38	2,2
06 02	6	6	2,38	2,5
07 T3	7,94	7,94	3,97	2,8
09 04	9,8	9,8	4,30	4,1
11 04	11,5	11,5	4,76	4,4
14 05	14,3	14,3	5,20	5,5

-  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	
	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	●		●	
	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			○ ○	
	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