

# DRS DRILLS

High performance universal indexable drilling system with inserts

A - TURNING

B - THREADING

C - GROOVING

D - MILLING

E - DRILLING

F - ACCESSORIES

G - SPARE PARTS

## APPLICATION



## ISO APPLICATION FIELDS

**P M K N**

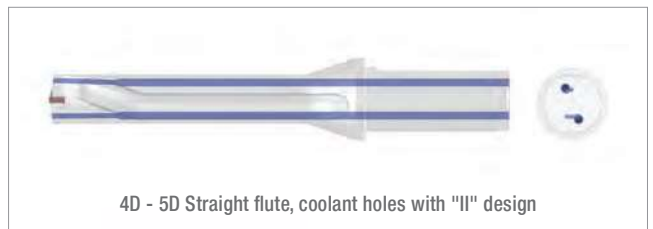
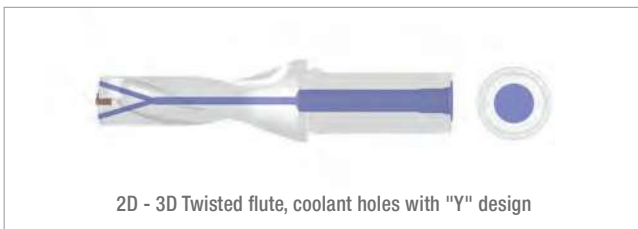
## ADVANTAGES AND CHARACTERISTICS

- Highly universal drilling system suitable for diverse conditions
- Highly cost-efficient system
- Twisted flute style available in 2xD and 3xD, straight flute style in 4xD and 5xD to improve chip evacuation



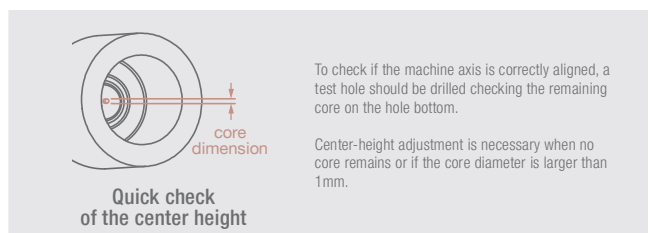
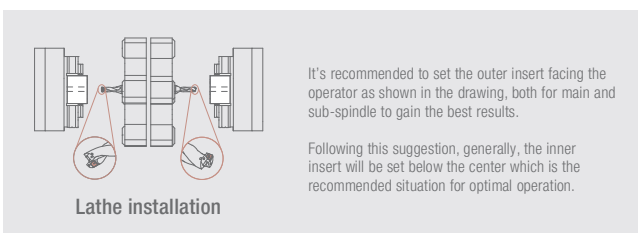
## • Drilling bodies

- Weldon shank with internal coolant
- 2/ 3/ 4/ 5xD available from D13 to D50
- Special length and stepped body available upon request



## • Inserts

- Available sizes 05/06/07/09/11/14
- Cemented carbide grades with PVD coatings or uncoated for N materials
- Geometries: GP, AL



## 2xD

### DRS drill

- 2xD indexable drill body for SP inserts with helical flutes
- All with coolant through
- Please select insert size according to the drill diameter

Designation	Stock	DC	DCON	OAL	LF	LB	PL	ADJLX		MIID
NT-DRS-2D D12.50-S20-05	▽	12.5	20	94	44	26	0.4	0.5		SPoX05
NT-DRS-2D D13.00-S20-05	●	13	20	94	44	26	0.4	0.5		SPoX05
NT-DRS-2D D14.00-S20-05	●	14	20	96	46	28	0.4	0.5		SPoX05
NT-DRS-2D D15.00-S20-05	●	15	20	99	49	30	0.4	0.5		SPoX05
NT-DRS-2D D16.00-S25-06	●	16	25	108	52	32	0.5	0.5		SPoX06
NT-DRS-2D D17.00-S25-06	●	17	25	110	54	34	0.5	0.5		SPoX06
NT-DRS-2D D18.00-S25-06	●	18	25	113	57	36	0.5	0.5		SPoX06
NT-DRS-2D D19.00-S25-06	●	19	25	115	59	38	0.5	0.5		SPoX06
NT-DRS-2D D20.00-S25-06	●	20	25	119	63	40	0.5	0.5		SPoX06
NT-DRS-2D D21.00-S25-06	●	21	25	121	65	42	0.5	0.25		SPoX06
NT-DRS-2D D22.00-S25-07	●	22	25	123	67	44	0.5	0.5		SPoX07
NT-DRS-2D D23.00-S32-07	●	23	32	131	71	46	0.5	0.5		SPoX07
NT-DRS-2D D24.00-S32-07	●	24	32	134	74	48	0.5	0.5		SPoX07
NT-DRS-2D D25.00-S32-07	●	25	32	137	77	50	0.5	0.5		SPoX07
NT-DRS-2D D26.00-S32-07	●	26	32	139	79	52	0.6	0.25		SPoX07
NT-DRS-2D D27.00-S32-07	●	27	32	141	81	54	0.6	0.25		SPoX07
NT-DRS-2D D28.00-S32-09	●	28	32	144	84	56	0.8	0.5		SPoX09
NT-DRS-2D D29.00-S32-09	●	29	32	146	86	58	0.8	0.5		SPoX09
NT-DRS-2D D30.00-S32-09	●	30	32	151	91	60	0.8	0.5		SPoX09
NT-DRS-2D D31.00-S32-09	●	31	32	154	94	62	0.8	0.25		SPoX09
NT-DRS-2D D32.00-S32-09	●	32	32	156	96	64	0.8	0.25		SPoX09
NT-DRS-2D D33.00-S32-09	●	33	32	159	99	66	0.8	0.25		SPoX09
NT-DRS-2D D34.00-S40-11	●	34	40	171	101	68	0.9	0.5		SPoX11
NT-DRS-2D D35.00-S40-11	●	35	40	174	104	70	0.9	0.5		SPoX11
NT-DRS-2D D36.00-S40-11	●	36	40	177	107	72	0.9	0.5		SPoX11
NT-DRS-2D D37.00-S40-11	●	37	40	180	110	74	0.9	0.5		SPoX11
NT-DRS-2D D38.00-S40-11	●	38	40	183	113	76	0.9	0.5		SPoX11
NT-DRS-2D D39.00-S40-11	●	39	40	185	115	78	0.9	0.5		SPoX11
NT-DRS-2D D40.00-S40-11	●	40	40	188	118	80	0.9	0.25		SPoX11
NT-DRS-2D D41.00-S40-11	●	41	40	191	121	82	0.9	0.25		SPoX11
NT-DRS-2D D42.00-S40-14	●	42	40	193	123	84	1	0.5		SPoX14
NT-DRS-2D D43.00-S40-14	●	43	40	196	126	86	1	0.5		SPoX14
NT-DRS-2D D44.00-S40-14	●	44	40	198	128	88	1	0.5		SPoX14
NT-DRS-2D D45.00-S40-14	●	45	40	202	132	90	1	0.5		SPoX14
NT-DRS-2D D46.00-S40-14	●	46	40	205	135	92	1	0.5		SPoX14
NT-DRS-2D D47.00-S40-14	●	47	40	207	137	94	1	0.5		SPoX14
NT-DRS-2D D48.00-S40-14	●	48	40	210	140	96	1	0.25		SPoX14
NT-DRS-2D D49.00-S40-14	●	49	40	212	142	98	1	0.25		SPoX14
NT-DRS-2D D50.00-S40-14	●	50	40	215	145	100	1	0.25		SPoX14

● stock standard, ○ non-standard stock, ▲ upcoming introduction, ▽ stock exhaustion

Spare parts	Insert screws	Flag wrenches	Spare parts	Insert screws	Flag wrenches
NT-DRS-2D D00.00-S00-05	NT-ST20043T06	NT-FTB06	NT-DRS-2D D00.00-S00-09	NT-ST35080T15	NT-FTB15
NT-DRS-2D D00.00-S00-06	NT-ST22055T06	NT-FTB06	NT-DRS-2D D00.00-S00-11	NT-ST40100T15	NT-FTB15
NT-DRS-2D D00.00-S00-07	NT-ST25065T07	NT-FTB07	NT-DRS-2D D00.00-S00-14	NT-ST50108T20	NT-FTB20

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D - MILLING

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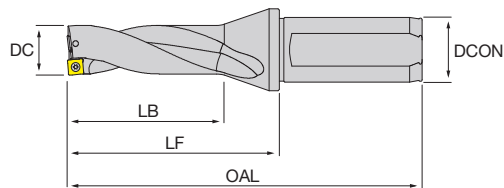
F - ACCESSORIES

G - SPARE PARTS

# 3xD

## DRS drill

- 3xD indexable drill body for SP inserts with helical flutes
- All with coolant through
- Please select insert size according to the drill diameter





Designation	Stock	DC	DCON	OAL	LF	LB	PL	ADJLX		MIID
NT-DRS-3D D12.50-S20-05	●	12.5	20	107	57	39	0.4	0.5		SPoX05
NT-DRS-3D D13.00-S20-05	●	13	20	107	57	39	0.4	0.5		SPoX05
NT-DRS-3D D13.50-S20-05	●	13.5	20	110	60	42	0.4	0.5		SPoX05
NT-DRS-3D D14.00-S20-05	●	14	20	110	60	42	0.4	0.5		SPoX05
NT-DRS-3D D14.50-S20-05	●	14.5	20	114	64	45	0.4	0.5		SPoX05
NT-DRS-3D D15.00-S20-05	●	15	20	114	64	45	0.4	0.5		SPoX05
NT-DRS-3D D15.50-S25-06	●	15.5	25	124	68	48	0.5	0.5		SPoX06
NT-DRS-3D D16.00-S25-06	●	16	25	124	68	48	0.5	0.5		SPoX06
NT-DRS-3D D16.50-S25-06	●	16.5	25	127	71	51	0.5	0.5		SPoX06
NT-DRS-3D D17.00-S25-06	●	17	25	127	71	51	0.5	0.5		SPoX06
NT-DRS-3D D17.50-S25-06	●	17.5	25	131	75	54	0.5	0.5		SPoX06
NT-DRS-3D D18.00-S25-06	●	18	25	131	75	54	0.5	0.5		SPoX06
NT-DRS-3D D18.50-S25-06	●	18.5	25	134	78	57	0.5	0.5		SPoX06
NT-DRS-3D D19.00-S25-06	●	19	25	134	78	57	0.5	0.5		SPoX06
NT-DRS-3D D19.50-S25-06	●	19.5	25	139	83	60	0.5	0.5		SPoX06
NT-DRS-3D D20.00-S25-06	●	20	25	139	83	60	0.5	0.5		SPoX06
NT-DRS-3D D20.50-S25-06	●	20.5	25	142	86	63	0.5	0.25		SPoX06
NT-DRS-3D D21.00-S25-06	●	21	25	142	86	63	0.5	0.25		SPoX06
NT-DRS-3D D21.50-S25-06	●	21.5	25	145	89	66	0.5	0.25		SPoX06
NT-DRS-3D D22.00-S25-07	●	22	25	145	89	66	0.5	0.5		SPoX07
NT-DRS-3D D22.50-S32-07	●	22.5	32	154	94	69	0.5	0.5		SPoX07
NT-DRS-3D D23.00-S32-07	●	23	32	154	94	69	0.5	0.5		SPoX07
NT-DRS-3D D23.50-S32-07	●	23.5	32	158	98	72	0.5	0.5		SPoX07
NT-DRS-3D D24.00-S32-07	●	24	32	158	98	72	0.5	0.5		SPoX07
NT-DRS-3D D24.50-S32-07	●	24.5	32	162	102	75	0.5	0.5		SPoX07
NT-DRS-3D D25.00-S32-07	●	25	32	162	102	75	0.5	0.5		SPoX07
NT-DRS-3D D25.50-S32-07	●	25.5	32	165	105	78	0.6	0.5		SPoX07
NT-DRS-3D D26.00-S32-07	●	26	32	165	105	78	0.6	0.25		SPoX07
NT-DRS-3D D26.50-S32-07	●	26.5	32	168	108	81	0.6	0.25		SPoX07
NT-DRS-3D D27.00-S32-07	●	27	32	168	108	81	0.6	0.25		SPoX07
NT-DRS-3D D27.50-S32-07	●	27.5	32	172	112	84	0.6	0.25		SPoX07
NT-DRS-3D D28.00-S32-09	●	28	32	172	112	84	0.8	0.5		SPoX09
NT-DRS-3D D28.50-S32-09	●	28.5	32	175	115	87	0.8	0.5		SPoX09
NT-DRS-3D D29.00-S32-09	●	29	32	175	115	87	0.8	0.5		SPoX09
NT-DRS-3D D29.50-S32-09	●	29.5	32	181	121	90	0.8	0.5		SPoX09
NT-DRS-3D D30.00-S32-09	●	30	32	181	121	90	0.8	0.5		SPoX09
NT-DRS-3D D31.00-S32-09	●	31	32	185	125	93	0.8	0.25		SPoX09
NT-DRS-3D D32.00-S32-09	●	32	32	188	128	96	0.8	0.25		SPoX09
NT-DRS-3D D33.00-S32-09	●	33	32	192	132	99	0.8	0.25		SPoX09
NT-DRS-3D D34.00-S40-11	●	34	40	205	135	102	0.9	0.5		SPoX11
NT-DRS-3D D35.00-S40-11	●	35	40	209	139	105	0.9	0.5		SPoX11
NT-DRS-3D D36.00-S40-11	●	36	40	213	143	108	0.9	0.5		SPoX11
NT-DRS-3D D37.00-S40-11	●	37	40	217	147	111	0.9	0.5		SPoX11
NT-DRS-3D D38.00-S40-11	●	38	40	221	151	114	0.9	0.5		SPoX11
NT-DRS-3D D39.00-S40-11	●	39	40	224	154	117	0.9	0.25		SPoX11
NT-DRS-3D D40.00-S40-11	●	40	40	228	158	120	0.9	0.25		SPoX11
NT-DRS-3D D41.00-S40-11	●	41	40	232	162	123	0.9	0.5		SPoX11

● stock standard, ○ non-standard stock, ▲ upcoming introduction, ▽ stock exhaustion

Designation	Stock	DC	DCON	OAL	LF	LB	PL	ADJLX			MIID
NT-DRS-3D D42.00-S40-14	●	42	40	235	165	126	1	0.5			SPoX14
NT-DRS-3D D43.00-S40-14	●	43	40	239	169	129	1	0.5			SPoX14
NT-DRS-3D D44.00-S40-14	●	44	40	242	172	132	1	0.5			SPoX14
NT-DRS-3D D45.00-S40-14	●	45	40	247	177	135	1	0.5			SPoX14
NT-DRS-3D D46.00-S40-14	●	46	40	251	181	138	1	0.5			SPoX14
NT-DRS-3D D47.00-S40-14	●	47	40	254	184	141	1	0.5			SPoX14
NT-DRS-3D D48.00-S40-14	●	48	40	258	188	144	1	0.25			SPoX14
NT-DRS-3D D49.00-S40-14	●	49	40	261	191	147	1	0.25			SPoX14
NT-DRS-3D D50.00-S40-14	●	50	40	265	195	150	1	0.25			SPoX14

● stock standard, ○ non-standard stock, ▲ upcoming introduction, ▽ stock exhaustion

Spare parts	Insert screws	Flag wrenches
		
NT-DRS-3D D00.00-S00-05	NT-ST20043T06	NT-FTB06
NT-DRS-3D D00.00-S00-06	NT-ST22055T06	NT-FTB06
NT-DRS-3D D00.00-S00-07	NT-ST25065T07	NT-FTB07
NT-DRS-3D D00.00-S00-09	NT-ST35080T15	NT-FTB15
NT-DRS-3D D00.00-S00-11	NT-ST40100T15	NT-FTB15
NT-DRS-3D D00.00-S00-14	NT-ST50108T20	NT-FTB20

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A - TURNING

B - THREADING

C - GROOVING

D - MILLING

E - DRILLING

F - ACCESSORIES

G - SPARE PARTS

# 4xD

## DRS drill



- 4xD indexable drill body for SP inserts with straight flutes
- All with coolant through
- Please select insert size according to the drill diameter

Designation	Stock	DC	DCON	OAL	LF	LB	PL	ADJLX		MIID
NT-DRS-4D D12.50-S20-05	●	12.5	20	120	70	52	0.4	0.5		SPoX05
NT-DRS-4D D13.00-S20-05	●	13	20	120	70	52	0.4	0.5		SPoX05
NT-DRS-4D D13.50-S20-05	●	13.5	20	124	74	56	0.4	0.5		SPoX05
NT-DRS-4D D14.00-S20-05	●	14	20	124	74	56	0.4	0.5		SPoX05
NT-DRS-4D D14.50-S20-05	●	14.5	20	129	79	60	0.4	0.5		SPoX05
NT-DRS-4D D15.00-S20-05	●	15	20	129	79	60	0.4	0.5		SPoX05
NT-DRS-4D D15.50-S25-06	●	15.5	25	140	84	64	0.5	0.5		SPoX06
NT-DRS-4D D16.00-S25-06	●	16	25	140	84	64	0.5	0.5		SPoX06
NT-DRS-4D D16.50-S25-06	●	16.5	25	144	88	68	0.5	0.5		SPoX06
NT-DRS-4D D17.00-S25-06	●	17	25	144	88	68	0.5	0.5		SPoX06
NT-DRS-4D D17.50-S25-06	●	17.5	25	149	93	72	0.5	0.5		SPoX06
NT-DRS-4D D18.00-S25-06	●	18	25	149	93	72	0.5	0.5		SPoX06
NT-DRS-4D D18.50-S25-06	●	18.5	25	153	97	76	0.5	0.5		SPoX06
NT-DRS-4D D19.00-S25-06	●	19	25	153	97	76	0.5	0.5		SPoX06
NT-DRS-4D D19.50-S25-06	●	19.5	25	159	103	80	0.5	0.5		SPoX06
NT-DRS-4D D20.00-S25-06	●	20	25	159	103	80	0.5	0.5		SPoX06
NT-DRS-4D D20.50-S25-06	●	20.5	25	163	107	84	0.5	0.25		SPoX06
NT-DRS-4D D21.00-S25-06	●	21	25	163	107	84	0.5	0.25		SPoX06
NT-DRS-4D D21.50-S25-06	●	21.5	25	167	111	88	0.5	0.25		SPoX06
NT-DRS-4D D22.00-S25-07	●	22	25	167	111	88	0.5	0.5		SPoX07
NT-DRS-4D D22.50-S32-07	●	22.5	32	177	117	92	0.5	0.5		SPoX07
NT-DRS-4D D23.00-S32-07	●	23	32	177	117	92	0.5	0.5		SPoX07
NT-DRS-4D D23.50-S32-07	●	23.5	32	182	122	96	0.5	0.5		SPoX07
NT-DRS-4D D24.00-S32-07	●	24	32	182	122	96	0.5	0.5		SPoX07
NT-DRS-4D D24.50-S32-07	●	24.5	32	187	127	100	0.5	0.5		SPoX07
NT-DRS-4D D25.00-S32-07	●	25	32	187	127	100	0.5	0.5		SPoX07
NT-DRS-4D D25.50-S32-07	●	25.5	32	191	131	104	0.6	0.5		SPoX07
NT-DRS-4D D26.00-S32-07	●	26	32	191	131	104	0.6	0.25		SPoX07
NT-DRS-4D D26.50-S32-07	●	26.5	32	195	135	108	0.6	0.25		SPoX07
NT-DRS-4D D27.00-S32-07	●	27	32	195	135	108	0.6	0.25		SPoX07
NT-DRS-4D D27.50-S32-07	●	27.5	32	200	140	112	0.6	0.25		SPoX07
NT-DRS-4D D28.00-S32-09	●	28	32	200	140	112	0.8	0.5		SPoX09
NT-DRS-4D D28.50-S32-09	●	28.5	32	204	144	116	0.8	0.5		SPoX09
NT-DRS-4D D29.00-S32-09	●	29	32	204	144	116	0.8	0.5		SPoX09
NT-DRS-4D D29.50-S32-09	●	29.5	32	211	151	120	0.8	0.5		SPoX09
NT-DRS-4D D30.00-S32-09	●	30	32	211	151	120	0.8	0.5		SPoX09
NT-DRS-4D D31.00-S32-09	●	31	32	216	156	124	0.8	0.25		SPoX09
NT-DRS-4D D32.00-S32-09	●	32	32	220	160	128	0.8	0.25		SPoX09
NT-DRS-4D D33.00-S32-09	●	33	32	225	165	132	0.8	0.25		SPoX09
NT-DRS-4D D34.00-S40-11	●	34	40	239	169	136	0.9	0.5		SPoX11
NT-DRS-4D D35.00-S40-11	●	35	40	244	174	140	0.9	0.5		SPoX11
NT-DRS-4D D36.00-S40-11	●	36	40	249	179	144	0.9	0.5		SPoX11
NT-DRS-4D D37.00-S40-11	●	37	40	254	184	148	0.9	0.5		SPoX11
NT-DRS-4D D38.00-S40-11	●	38	40	259	189	152	0.9	0.5		SPoX11
NT-DRS-4D D39.00-S40-11	●	39	40	263	193	156	0.9	0.25		SPoX11
NT-DRS-4D D40.00-S40-11	●	40	40	268	198	160	0.9	0.25		SPoX11
NT-DRS-4D D41.00-S40-11	▲	41	40	273	203	164	0.9	0.5		SPoX11

● stock standard, ○ non-standard stock, ▲ upcoming introduction, ▽ stock exhaustion

Designation	Stock	DC	DCON	OAL	LF	LB	PL	ADJLX		MIID
NT-DRS-4D D42.00-S40-14	●	42	40	277	207	168	1	0.5		SPoX14
NT-DRS-4D D43.00-S40-14	●	43	40	282	212	172	1	0.5		SPoX14
NT-DRS-4D D44.00-S40-14	●	44	40	286	216	176	1	0.5		SPoX14
NT-DRS-4D D45.00-S40-14	●	45	40	292	222	180	1	0.5		SPoX14
NT-DRS-4D D46.00-S40-14	●	46	40	297	227	184	1	0.5		SPoX14
NT-DRS-4D D47.00-S40-14	●	47	40	301	231	188	1	0.5		SPoX14
NT-DRS-4D D48.00-S40-14	●	48	40	306	236	192	1	0.25		SPoX14
NT-DRS-4D D49.00-S40-14	▲	49	40	310	240	196	1	0.25		SPoX14
NT-DRS-4D D50.00-S40-14	●	50	40	315	245	200	1	0.25		SPoX14

● stock standard, ○ non-standard stock, ▲ upcoming introduction, ▽ stock exhaustion

Spare parts	Insert screws	Flag wrenches
		
NT-DRS-4D D00.00-S00-05	NT-ST20043T06	NT-FTB06
NT-DRS-4D D00.00-S00-06	NT-ST22055T06	NT-FTB06
NT-DRS-4D D00.00-S00-07	NT-ST25065T07	NT-FTB07
NT-DRS-4D D00.00-S00-09	NT-ST35080T15	NT-FTB15
NT-DRS-4D D00.00-S00-11	NT-ST40100T15	NT-FTB15
NT-DRS-4D D00.00-S00-14	NT-ST50108T20	NT-FTB20

A - TURNING

B - THREADING

C - GROOVING

D - MILLING

E - DRILLING

F - ACCESSORIES

G - SPARE PARTS

A - TURNING

B - THREADING

C - GROOVING

D - MILLING

E - DRILLING

F - ACCESSORIES

G - SPARE PARTS

# 5xD

## DRS drill

- 5xD indexable drill body for SP inserts with straight flutes
- All with coolant through
- Please select insert size according to the drill diameter

Designation	Stock	DC	DCON	OAL	LF	LB	PL	ADJLX		MIID
NT-DRS-5D D13.00-S20-05	●	13	20	133	83	65	0.4	0.5		SPoX05
NT-DRS-5D D14.00-S20-05	●	14	20	138	88	70	0.4	0.5		SPoX05
NT-DRS-5D D15.00-S20-05	●	15	20	144	94	75	0.4	0.5		SPoX05
NT-DRS-5D D16.00-S25-06	●	16	25	156	100	80	0.5	0.5		SPoX06
NT-DRS-5D D17.00-S25-06	●	17	25	161	105	85	0.5	0.5		SPoX06
NT-DRS-5D D18.00-S25-06	●	18	25	167	111	90	0.5	0.5		SPoX06
NT-DRS-5D D19.00-S25-06	●	19	25	172	116	95	0.5	0.5		SPoX06
NT-DRS-5D D20.00-S25-06	●	20	25	179	123	100	0.5	0.5		SPoX06
NT-DRS-5D D21.00-S25-06	●	21	25	184	128	105	0.5	0.25		SPoX06
NT-DRS-5D D22.00-S25-07	●	22	25	189	133	110	0.5	0.5		SPoX07
NT-DRS-5D D23.00-S32-07	●	23	32	200	140	115	0.5	0.5		SPoX07
NT-DRS-5D D24.00-S32-07	●	24	32	206	146	120	0.5	0.5		SPoX07
NT-DRS-5D D25.00-S32-07	●	25	32	212	152	125	0.5	0.5		SPoX07
NT-DRS-5D D26.00-S32-07	●	26	32	217	157	130	0.6	0.25		SPoX07
NT-DRS-5D D27.00-S32-07	●	27	32	222	162	135	0.6	0.25		SPoX07
NT-DRS-5D D28.00-S32-09	●	28	32	228	168	140	0.8	0.5		SPoX09
NT-DRS-5D D29.00-S32-09	●	29	32	233	173	145	0.8	0.5		SPoX09
NT-DRS-5D D30.00-S32-09	●	30	32	241	181	150	0.8	0.5		SPoX09
NT-DRS-5D D31.00-S32-09	●	31	32	247	187	155	0.8	0.25		SPoX09
NT-DRS-5D D32.00-S32-09	●	32	32	252	192	160	0.8	0.25		SPoX09
NT-DRS-5D D33.00-S32-09	●	33	32	258	198	165	0.8	0.25		SPoX09
NT-DRS-5D D34.00-S40-11	●	34	40	273	203	170	0.9	0.5		SPoX11
NT-DRS-5D D35.00-S40-11	●	35	40	279	209	175	0.9	0.5		SPoX11
NT-DRS-5D D36.00-S40-11	●	36	40	285	215	180	0.9	0.5		SPoX11
NT-DRS-5D D37.00-S40-11	●	37	40	291	221	185	0.9	0.5		SPoX11
NT-DRS-5D D38.00-S40-11	●	38	40	297	227	190	0.9	0.5		SPoX11
NT-DRS-5D D39.00-S40-11	●	39	40	302	232	195	0.9	0.5		SPoX11
NT-DRS-5D D40.00-S40-11	●	40	40	308	238	200	0.9	0.25		SPoX11
NT-DRS-5D D41.00-S40-11	●	41	40	314	244	205	0.9	0.25		SPoX11
NT-DRS-5D D42.00-S40-14	●	42	40	319	249	210	1	0.5		SPoX14
NT-DRS-5D D43.00-S40-14	●	43	40	325	255	215	1	0.5		SPoX14
NT-DRS-5D D44.00-S40-14	●	44	40	330	260	220	1	0.5		SPoX14
NT-DRS-5D D45.00-S40-14	●	45	40	337	267	225	1	0.5		SPoX14
NT-DRS-5D D46.00-S40-14	●	46	40	343	273	230	1	0.5		SPoX14
NT-DRS-5D D47.00-S40-14	●	47	40	348	278	235	1	0.5		SPoX14
NT-DRS-5D D48.00-S40-14	●	48	40	354	284	240	1	0.25		SPoX14
NT-DRS-5D D49.00-S40-14	●	49	40	359	289	245	1	0.25		SPoX14
NT-DRS-5D D50.00-S40-14	●	50	40	365	295	250	1	0.25		SPoX14

● stock standard, ○ non-standard stock, ▲ upcoming introduction, ▽ stock exhaustion

Spare parts	Insert screws	Flag wrenches	Spare parts	Insert screws	Flag wrenches
NT-DRS-5D D00.00-S00-05	NT-ST20043T06	NT-FTB06	NT-DRS-5D D00.00-S00-09	NT-ST35080T15	NT-FTB15
NT-DRS-5D D00.00-S00-06	NT-ST22055T06	NT-FTB06	NT-DRS-5D D00.00-S00-11	NT-ST40100T15	NT-FTB15
NT-DRS-5D D00.00-S00-07	NT-ST25065T07	NT-FTB07	NT-DRS-5D D00.00-S00-14	NT-ST50108T20	NT-FTB20

<h1>SPoX</h1>	HF: Micrograin carbide PVD: Physical vapour deposition					HF PVD	HF PVD	HF PVD	HF PVD	HF
	<h2>DRS drill</h2>					<b>JP5530</b>	<b>JP8725</b>	<b>JP9535</b>	<b>JP9635</b>	<b>JU6520</b>
<ul style="list-style-type: none"> <li>• General purpose type or fine polished sharp geometries for aluminum or non-ferrous materials available</li> <li>• Diverse PVD coated carbide grades available</li> <li>• Inserts could also be mounted on DRS Pilot type and ChamferSquare milling bodies</li> </ul>	Stable machining, light cut	● 1 <sup>st</sup> choice ○ suitable								
	General machining, medium cut	● 1 <sup>st</sup> choice ○ suitable	●	●	●	●	●			
	Unstable machining, heavy cut	⊕ 1 <sup>st</sup> choice ⊖ suitable	⊕	⊕	⊕					
	<b>Dimensions</b>		<b>ISO</b>	<b>Vc(m/min) - suggested cutting speed range (bold: 1<sup>st</sup> choice)</b>						
		<b>P</b>	120 240	120 240						
		<b>M</b>	40 100		80 160	80 160				
		<b>K</b>	120 180							
		<b>N</b>						240 400		
		<b>S</b>								
		<b>H</b>								

	Designation	RE	IC	S	D1	LE	Stock						
							●	●	●	▲	▽		
<b>GENERAL</b>	<b>GP</b> <b>P M K</b> 	SPMX050204-GP	0.4	5	2.38	2.5	4.2	●	●	●			
		SPMX060204-GP	0.4	6	2.38	2.8	5.2	●	●	●			
		SPMX07T308-GP	0.8	7.94	3.97	2.8	6.34	●	●	●			
		SPMX090408-GP	0.8	9.8	4.3	4.2	8.2	●	●	▲	●		
		SPMX110408-GP	0.8	11.5	4.76	4.4	9.9	●	●	●			
		SPMX140512-GP	1.2	14.3	5.2	5.5	11.9	●	●	▲	●		
<b>ALUMINIUM</b>	<b>AL</b> <b>N</b>  periphery ground polished surface	SPGX050204-AL	0.4	5	2.38	2.5	4.2					●	
		SPGX060204-AL	0.4	6	2.38	2.8	5.2					●	
		SPGX07T308-AL	0.8	7.94	3.97	2.8	6.34					●	
		SPGX090408-AL	0.8	9.8	4.3	4.2	8.2					●	
		SPGX110408-AL	0.8	11.5	4.76	4.4	9.9					●	
		SPGX140512-AL	1.2	14.3	5.2	5.5	11.9					●	

● stock standard, ○ non-standard stock, ▲ upcoming introduction, ▽ stock exhaustion

A - TURNING  
B - THREADING  
C - GROOVING  
D - MILLING  
E - DRILLING  
F - ACCESSORIES  
G - SPARE PARTS



	ISO 513	MATERIAL	HARDNESS HB	L/D	DC 12.50 ÷ 15.00			DC 15.50 ÷ 21.50			DC 22.00 ÷ 27.50		
					min	start	max	min	start	max	min	start	max
A - TURNING	P1 - P2	Free cutting steel and low carbon (ex. 1.0715/9 smn 28/avp, 1.0503/c45)	≤ 200	2xD - 3xD	0.05	<b>0.07</b>	0.09	0.05	<b>0.08</b>	0.11	0.05	<b>0.09</b>	0.13
				4xD	0.04	<b>0.06</b>	0.08	0.04	<b>0.07</b>	0.10	0.04	<b>0.08</b>	0.12
				5xD	0.04	<b>0.05</b>	0.06	0.04	<b>0.06</b>	0.08	0.04	<b>0.07</b>	0.10
B - THREADING	P3 - P4	Medium and high alloy steel (ex. 1.7225/42 CrMo 4, 1.3505/100 Cr 6)	200 ÷ 300	2xD - 3xD	0.07	<b>0.10</b>	0.13	0.07	<b>0.11</b>	0.15	0.09	<b>0.13</b>	0.17
				4xD	0.06	<b>0.09</b>	0.12	0.06	<b>0.10</b>	0.14	0.08	<b>0.12</b>	0.16
				5xD	0.06	<b>0.08</b>	0.10	0.06	<b>0.09</b>	0.12	0.08	<b>0.11</b>	0.14
C - GROOVING	P5 - P6	High tensile strength and tool steel (ex. 1.2344/X 40 CrMoV 5 1/ORVAR, Hardox400®)	300 ÷ 400	2xD - 3xD	0.07	<b>0.09</b>	0.11	0.07	<b>0.10</b>	0.13	0.09	<b>0.12</b>	0.15
				4xD	0.06	<b>0.08</b>	0.10	0.06	<b>0.09</b>	0.12	0.08	<b>0.11</b>	0.14
				5xD	0.06	<b>0.07</b>	0.08	0.06	<b>0.08</b>	0.10	0.08	<b>0.10</b>	0.12
D - MILLING	P7	Ferritic and martensitic stainless steel (ex. 1.4021/X 20 Cr 13/AISI420)	≤ 200	2xD - 3xD	0.06	<b>0.09</b>	0.12	0.06	<b>0.10</b>	0.14	0.06	<b>0.11</b>	0.16
				4xD	0.05	<b>0.08</b>	0.11	0.05	<b>0.09</b>	0.13	0.05	<b>0.10</b>	0.15
				5xD	0.05	<b>0.06</b>	0.07	0.05	<b>0.08</b>	0.11	0.05	<b>0.09</b>	0.13
E - DRILLING	P8	Precipitation hardening stainless steel (ex. 1.4548/X 5 CrNiCuNb 17 4/17-4-PH)	≤ 450	2xD - 3xD	0.05	<b>0.08</b>	0.11	0.05	<b>0.09</b>	0.13	0.05	<b>0.10</b>	0.15
				4xD	0.04	<b>0.07</b>	0.10	0.04	<b>0.08</b>	0.12	0.04	<b>0.09</b>	0.14
				5xD	0.04	<b>0.06</b>	0.08	0.04	<b>0.07</b>	0.10	0.04	<b>0.08</b>	0.12
F - ACCESSORIES	M1	Austenitic stainless steel (ex. 1.4305/X 10 CrNiS 18 9/AISI303)	> 200	2xD - 3xD	0.06	<b>0.08</b>	0.10	0.06	<b>0.09</b>	0.12	0.06	<b>0.10</b>	0.14
				4xD	0.05	<b>0.07</b>	0.09	0.05	<b>0.08</b>	0.11	0.05	<b>0.09</b>	0.13
				5xD	0.05	<b>0.06</b>	0.07	0.05	<b>0.06</b>	0.07	0.05	<b>0.08</b>	0.11
G - SPARE PARTS	M2 - M3	Austenitic and Duplex stainless steel (ex. 1.4401/X 5 CrNiMo 17 12 2/AISI316)		2xD - 3xD	0.05	<b>0.07</b>	0.09	0.05	<b>0.08</b>	0.11	0.05	<b>0.09</b>	0.13
				4xD	0.04	<b>0.06</b>	0.08	0.04	<b>0.07</b>	0.10	0.04	<b>0.08</b>	0.12
				5xD	0.04	<b>0.05</b>	0.06	0.04	<b>0.06</b>	0.08	0.04	<b>0.07</b>	0.10
G - SPARE PARTS	K1	Grey cast iron (ex. 0.6025/GG 25/EN-GJL-250)	150 ÷ 250	2xD - 3xD	0.07	<b>0.10</b>	0.13	0.09	<b>0.13</b>	0.17	0.11	<b>0.15</b>	0.19
				4xD	0.06	<b>0.09</b>	0.12	0.08	<b>0.12</b>	0.16	0.10	<b>0.14</b>	0.18
				5xD	0.06	<b>0.08</b>	0.10	0.08	<b>0.11</b>	0.14	0.10	<b>0.13</b>	0.16
G - SPARE PARTS	K2	Nodular cast iron (ex. 0.7050/GGG 50/EN-GJS-500-7)	150 ÷ 350	2xD - 3xD	0.07	<b>0.09</b>	0.11	0.08	<b>0.12</b>	0.16	0.09	<b>0.14</b>	0.19
				4xD	0.06	<b>0.08</b>	0.10	0.07	<b>0.11</b>	0.15	0.08	<b>0.13</b>	0.18
				5xD	0.06	<b>0.07</b>	0.08	0.07	<b>0.10</b>	0.13	0.08	<b>0.12</b>	0.16
G - SPARE PARTS	N1	Aluminium alloys ≤ Si 12% (ex. 3.4365/AlZn5.5MgCu/ERGA)		2xD - 3xD	0.07	<b>0.11</b>	0.15	0.07	<b>0.12</b>	0.17	0.09	<b>0.14</b>	0.19
				4xD	0.06	<b>0.10</b>	0.14	0.06	<b>0.11</b>	0.16	0.08	<b>0.13</b>	0.18
				5xD	0.06	<b>0.09</b>	0.12	0.06	<b>0.10</b>	0.14	0.08	<b>0.12</b>	0.16
G - SPARE PARTS	N2	Aluminium alloys Si > 12% (ex. 3.2382/G-AISI12)		2xD - 3xD	0.07	<b>0.10</b>	0.13	0.07	<b>0.11</b>	0.15	0.09	<b>0.13</b>	0.17
				4xD	0.06	<b>0.09</b>	0.12	0.06	<b>0.10</b>	0.14	0.08	<b>0.12</b>	0.16
				5xD	0.06	<b>0.08</b>	0.10	0.06	<b>0.09</b>	0.12	0.08	<b>0.11</b>	0.14

Complete workpiece materials p. H1.

(fn: mm/rev)

DC 28.00 ÷ 33.00			DC 34.00 ÷ 41.00			DC 42.00 ÷ 50.00					
min	start	max	min	start	max	min	start	max			
0.06	<b>0.10</b>	0.14	0.07	<b>0.11</b>	0.15	0.07	<b>0.12</b>	0.17			
0.05	<b>0.09</b>	0.13	0.06	<b>0.10</b>	0.14	0.06	<b>0.11</b>	0.16			
0.05	<b>0.08</b>	0.11	0.06	<b>0.09</b>	0.12	0.06	<b>0.10</b>	0.14			
0.09	<b>0.14</b>	0.19	0.11	<b>0.16</b>	0.21	0.11	<b>0.17</b>	0.23			
0.08	<b>0.13</b>	0.18	0.10	<b>0.15</b>	0.20	0.10	<b>0.16</b>	0.22			
0.08	<b>0.12</b>	0.16	0.10	<b>0.14</b>	0.18	0.10	<b>0.15</b>	0.20			
0.09	<b>0.13</b>	0.17	0.09	<b>0.14</b>	0.19	0.11	<b>0.16</b>	0.21			
0.08	<b>0.12</b>	0.16	0.08	<b>0.13</b>	0.18	0.10	<b>0.15</b>	0.20			
0.08	<b>0.11</b>	0.14	0.08	<b>0.12</b>	0.16	0.10	<b>0.14</b>	0.18			
0.07	<b>0.12</b>	0.17	0.08	<b>0.12</b>	0.18	0.09	<b>0.14</b>	0.19			
0.06	<b>0.11</b>	0.16	0.07	<b>0.11</b>	0.17	0.08	<b>0.13</b>	0.18			
0.06	<b>0.10</b>	0.14	0.07	<b>0.10</b>	0.13	0.08	<b>0.12</b>	0.16			
0.06	<b>0.11</b>	0.16	0.07	<b>0.12</b>	0.17	0.09	<b>0.13</b>	0.17			
0.05	<b>0.10</b>	0.15	0.06	<b>0.11</b>	0.16	0.08	<b>0.12</b>	0.16			
0.05	<b>0.09</b>	0.13	0.06	<b>0.10</b>	0.14	0.08	<b>0.11</b>	0.14			
0.07	<b>0.11</b>	0.15	0.08	<b>0.12</b>	0.16	0.09	<b>0.13</b>	0.17			
0.06	<b>0.10</b>	0.14	0.07	<b>0.11</b>	0.15	0.08	<b>0.12</b>	0.16			
0.06	<b>0.09</b>	0.12	0.07	<b>0.10</b>	0.13	0.08	<b>0.11</b>	0.14			
0.06	<b>0.10</b>	0.14	0.07	<b>0.11</b>	0.15	0.09	<b>0.12</b>	0.15			
0.05	<b>0.09</b>	0.13	0.06	<b>0.10</b>	0.14	0.08	<b>0.11</b>	0.14			
0.05	<b>0.08</b>	0.11	0.06	<b>0.09</b>	0.12	0.08	<b>0.10</b>	0.12			
0.11	<b>0.17</b>	0.23	0.13	<b>0.19</b>	0.25	0.15	<b>0.21</b>	0.27			
0.10	<b>0.16</b>	0.22	0.12	<b>0.18</b>	0.24	0.14	<b>0.20</b>	0.26			
0.10	<b>0.15</b>	0.20	0.12	<b>0.17</b>	0.22	0.14	<b>0.19</b>	0.24			
0.11	<b>0.16</b>	0.21	0.13	<b>0.17</b>	0.21	0.15	<b>0.19</b>	0.23			
0.10	<b>0.15</b>	0.20	0.12	<b>0.16</b>	0.20	0.14	<b>0.18</b>	0.22			
0.10	<b>0.14</b>	0.18	0.12	<b>0.15</b>	0.18	0.14	<b>0.17</b>	0.20			
0.09	<b>0.15</b>	0.21	0.11	<b>0.17</b>	0.23	0.13	<b>0.18</b>	0.23			
0.08	<b>0.14</b>	0.20	0.10	<b>0.16</b>	0.22	0.12	<b>0.17</b>	0.22			
0.08	<b>0.13</b>	0.18	0.10	<b>0.15</b>	0.20	0.12	<b>0.16</b>	0.20			
0.09	<b>0.14</b>	0.19	0.11	<b>0.16</b>	0.21	0.13	<b>0.17</b>	0.21			
0.08	<b>0.13</b>	0.18	0.10	<b>0.15</b>	0.20	0.12	<b>0.16</b>	0.20			
0.08	<b>0.12</b>	0.16	0.10	<b>0.14</b>	0.18	0.12	<b>0.15</b>	0.18			

Complete workpiece materials p. H1.

(fn: mm/rev)

- A - TURNING
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- F - ACCESSORIES
- G - SPARE PARTS

A - TURNING	ISO 513	MATERIAL	HARDNESS HB	L/D	<b>JP5530</b>			<b>JP8725</b>			
					min	start	max	min	start	max	
	<b>P1 - P2</b>	Free cutting steel and low carbon (ex. 1.0715/9 smn 28/avp, 1.0503/c45)	≤ 200	2XD ÷ 5XD	120	<b>180</b>	240	120	<b>180</b>	240	
	<b>P3 - P4</b>	Medium and high alloy steel (ex. 1.7225/42 CrMo 4, 1.3505/100 Cr 6)	200 ÷ 300	2XD ÷ 5XD	100	<b>150</b>	200	100	<b>150</b>	200	
B - THREADING	<b>P5 - P6</b>	High tensile strength and tool steel (ex. 1.2344/X 40 CrMoV 5 1/ORVAR, Hardox400®)	300 ÷ 400	2XD ÷ 5XD	80	<b>120</b>	160	80	<b>120</b>	160	
	ISO 513	MATERIAL	HARDNESS HB	L/D	<b>JP5530</b>			<b>JP9535</b>			
C - GROOVING					min	start	max	min	start	max	
	<b>P7</b>	Ferritic and martensitic stainless steel (ex. 1.4021/X 20 Cr 13/AISI420)	≤ 200	2XD ÷ 5XD	50	<b>90</b>	130	80	<b>120</b>	160	
	<b>P8</b>	Precipitation hardening stainless steel (ex. 1.4548/X 5 CrNiCuNb 17 4/17-4-PH)	≤ 450	2XD ÷ 5XD		-		60	<b>90</b>	120	
	<b>M1</b>	Austenitic stainless steel (ex. 1.4305/X 10 CrNiS 18 9/AISI303)	> 200	2XD ÷ 5XD	40	<b>70</b>	100	80	<b>120</b>	160	
D - MILLING	<b>M2 - M3</b>	Austenitic and Duplex stainless steel (ex. 1.4401/X 5 CrNiMo 17 12 2/AISI316)		2XD ÷ 5XD		-		60	<b>100</b>	140	
	ISO 513	MATERIAL	HARDNESS HB	L/D	<b>JP5530</b>						
E - DRILLING					min	start	max				
	<b>K1</b>	Grey cast iron (ex. 0.6025/GG 25/EN-GJL-250)	150 ÷ 250	2XD ÷ 5XD	120	<b>150</b>	180				
	<b>K2</b>	Nodular cast iron (ex. 0.7050/GGG 50/EN-GJS-500-7)	150 ÷ 350	2XD ÷ 5XD	100	<b>120</b>	140				
F - ACCESSORIES	ISO 513	MATERIAL	HARDNESS HB	L/D	<b>JU6520</b>						
					min	start	max				
	<b>N1</b>	Aluminium alloys ≤ Si 12% (ex. 3.4365/AlZn5.5MgCu/ERGA)		2XD ÷ 5XD	240	<b>320</b>	400				
G - SPARE PARTS	<b>N2</b>	Aluminium alloys Si > 12% (ex. 3.2382/G-AISI12)		2XD ÷ 5XD	160	<b>230</b>	300				

Complete workpiece materials p. H1.