

# T

Listed in Alphanumeric Order

## Part Numbers in Alphanumeric Order

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Part Number	Page	Description
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○-○○/○○- (○○K-)SET	M313	Cartridge Set (API Ring Groover)
○/○(○)- SHCS-CB	K11	Toolholder (Drilling) Counterbore
02-03	K107	Spare Parts (Cartridge) Coremaster
06IR ○○○○(○)	J17, J19	Insert (Threading)
08IR ○○○○(○)	J17, J19	Insert (Threading)
11IR ○○○○	J19	Insert (Threading)
11IR A○○	J17, J19	Insert (Threading)
11IR ○○BSPT	J13	Insert (Threading)
11IR ○○BSPT-TF	J13	Insert (Threading) / TF Series
11IR ○○BSPT-TQ	J13	Insert (Threading) / TQ Series
11I <sup>PH</sup> ○○○ISO	J7	Insert (Threading)
11IR ○○○ISO-TF	J7	Insert (Threading) / TF Series
11IR ○○○ISO-TQ	J7	Insert (Threading) / TQ Series
16ER ○○○○	J16, J18	Insert (Threading)
16ER ○○BSPT	J12	Insert (Threading)
16ER ○○BSPT-TF	J12	Insert (Threading) / TF Series
16ER ○○BSPT-TQ	J12	Insert (Threading) / TQ Series
16E <sup>PH</sup> ○○○ISO	J6	Insert (Threading)
16ER ○○○ISO-TF	J6	Insert (Threading) / TF Series
16ER ○○○ISO-TQ	J6	Insert (Threading) / TQ Series
16ER ○○(○)NPT	J14	Insert (Threading)
16ER ○○○TR	J20	Insert (Threading)
16ER ○○UN	J8	Insert (Threading)
16ER ○○UN-TF	J8	Insert (Threading) / TF Series
16ER ○○UN-TQ	J8	Insert (Threading) / TQ Series
16ER ○○W	J10	Insert (Threading)
16ER ○○W-TF	J10	Insert (Threading) / TF Series
16ER ○○W-TQ	J10	Insert (Threading) / TQ Series
16ER A○○	J16, J18	Insert (Threading)
16ER A○○-TF	J16, J18	Insert (Threading) / TF Series
16ER A○○-TQ	J16, J18	Insert (Threading) / TQ Series
16ER AG○○	J18	Insert (Threading)
16ER AG○○-TF	J16	Insert (Threading) / TF Series
16ER AG○○-TQ	J16	Insert (Threading) / TQ Series
16ER G○○	J18	Insert (Threading)
16ER G○○-TF	J18	Insert (Threading) / TF Series
16ER G○○-TQ	J18	Insert (Threading) / TQ Series
16IR ○○○○(○)	J17, J19	Insert (Threading)
16IR ○○BSPT	J13	Insert (Threading)
16IR ○○BSPT-TF	J13	Insert (Threading) / TF Series
16IR ○○BSPT-TQ	J13	Insert (Threading) / TQ Series
16I <sup>PH</sup> ○○○ISO	J7	Insert (Threading)
16IR ○○○ISO-TF	J7	Insert (Threading) / TF Series

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16IR ○○○ISO-TQ	J7	Insert (Threading) / TQ Series
16IR ○○(○)NPT	J15	Insert (Threading)
16IR ○○○TR	J21	Insert (Threading)
16IR ○○UN	J9	Insert (Threading)
16IR ○○UN-TF	J9	Insert (Threading) / TF Series
16IR ○○UN-TQ	J9	Insert (Threading) / TQ Series
16IR ○○W	J11	Insert (Threading)
16IR ○○W-TF	J11	Insert (Threading) / TF Series
16IR ○○W-TQ	J11	Insert (Threading) / TQ Series
16IR A○○	J17, J19	Insert (Threading)
16IR AG○○	J17, J19	Insert (Threading)
16IR G○○	J19	Insert (Threading)
22ER ○○○ISO	J6	Insert (Threading)
22ER ○○○TR	J20	Insert (Threading)
22ER ○○UN	J8	Insert (Threading)
22ER N○○	J16	Insert (Threading)
22IR ○○○ISO	J7	Insert (Threading)
22IR ○○○TR	J21	Insert (Threading)
22IR ○○UN	J9	Insert (Threading)
22IR N○○	J17, J19	Insert (Threading)
556C <sup>PH</sup>	P9	Spare Parts (Shim)
<b>A</b>		
A○○□- DCLN <sup>PH</sup> ○	F147	Boring Bars (Double Clamp)
A○○□- DCLN <sup>PH</sup> ○○-○○	F147	Boring Bars (Double Clamp)
A○○□- DDUN <sup>PH</sup> ○	F152	Boring Bars (Double Clamp)
A○○□- DDUN <sup>PH</sup> ○○-○○	F152	Boring Bars (Double Clamp)
A○○□- DSKN <sup>PH</sup> ○○-○○	F158	Boring Bars (Double Clamp)
A○○□- DTFN <sup>PH</sup> ○○-○○	F159	Boring Bars (Double Clamp)
A○○□- DWLN <sup>PH</sup> ○	F164	Boring Bars (Double Clamp)
A○○□- DWLN <sup>PH</sup> ○○-○○	F164	Boring Bars (Double Clamp)
A○○□- KKC <sup>PH</sup> ○	G94, J36	Toolholder (Cera-Notch Grooving / Threading)
A○○□- PCLN <sup>PH</sup> ○	F148	Boring Bars
A○○□- PCLN <sup>PH</sup> ○○-○○	F148	Boring Bars
A○○□- PDUN <sup>PH</sup> 3	F150	Boring Bars
A○○□- PDUN <sup>PH</sup> 11-○○	F150	Boring Bars
A○○□- PTUN <sup>PH</sup> 11-○○	F160	Boring Bars
A○○□- PWLN <sup>PH</sup> 06-○○	F162	Boring Bars
A○○□- SCLCR○	F67	Boring Bars (General Purpose)
A○○□- SCLC <sup>PH</sup> ○AE	F62	Boring Bars (Dynamic Bar)
A○○□- SCLC <sup>PH</sup> ○○-○○AE	F62	Boring Bars (Dynamic Bar)
A○○□- SCLP <sup>PH</sup> ○(○)AE	F70	Boring Bars (Dynamic Bar)
A○○□- SCLP <sup>PH</sup> ○○-○○AE	F70	Boring Bars (Dynamic Bar)
A○○□- SDQC <sup>PH</sup> ○AE	F78	Boring Bars (Dynamic Bar)
A○○□- SDQC <sup>PH</sup> ○○-○○AE	F78	Boring Bars (Dynamic Bar)

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A○○□- SDZC%○○-○○AE	F82	Boring Bars (Dynamic Bar)
A○○□- STLB%○.○AE	F90	Boring Bars (Dynamic Bar)
A○○□- STLC%○○-○○AE	F100	Boring Bars (Dynamic Bar)
A○○□- STLP%○(○)AE	F90	Boring Bars (Dynamic Bar)
A○○□- STLP%○○-○○AE	F90	Boring Bars (Dynamic Bar)
A○○□- SVJB%○AE	F102	Boring Bars (Dynamic Bar)
A○○□- SVJB%○○-○○AE	F102	Boring Bars (Dynamic Bar)
A○○□- SVJC%○○-○○AE	F102	Boring Bars (Dynamic Bar)
A○○□- SVJP%○○-○○AE	F102	Boring Bars (Dynamic Bar)
A○○□- SVPB%○AE	F106	Boring Bars (Dynamic Bar)
A○○□- SVPB%○○-○○AE	F106	Boring Bars (Dynamic Bar)
A○○□- SVPC%○.○AE	F106	Boring Bars (Dynamic Bar)
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A○○□- SVUB%○AE	F108	Boring Bars (Dynamic Bar)
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A○○□- SVUC%○.○AE	F108	Boring Bars (Dynamic Bar)
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A○○□- SVZB%○○-○○AE	F110	Boring Bars (Dynamic Bar)
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A○○□- SVZC%○○-○○AE	F110	Boring Bars (Dynamic Bar)
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A○○□- SWUP%○AE	F116	Boring Bars (Dynamic Bar)
A○○□- SWUP%○○-○○AE	F116	Boring Bars (Dynamic Bar)
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AABSR ○○○□(□)-○○F	E20	Toolholder (Back Turning)
AABWR ○(○)-○○□(□)F	E21, E22	Toolholder (Back Turning)
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ABS ○○R○○○○M	B112	Insert (Back Turning)
ABW ○○R○○○○	B112	Insert (Back Turning)
ABW ○○R○○○○M	B112	Insert (Back Turning)
ACL%○ ○(○)-○JXFF	E26	Toolholder (Turning)
ACL%○○ ○○○JX-○○FF	E26	Toolholder (Turning)
ADJ%○ ○(○)-○JXFF	E30	Toolholder (Turning)
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APET ○○○○○○	M217, M298	Insert (Milling) FM-AL / EM-AL / CM-AL
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API-RG-○ CV○○	M313	Body Part (API Ring Groovers)
API-RG-○ DIN-○○○○○	M313	Body Part (API Ring Groovers)
APMT ○○○○○○EL-NB○	M181	Insert (Milling) MSR
APMT ○○○○○○ER-NB○(P)	M181	Insert (Milling) MSR
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BB-M10X1.5	D13, G49, H60	Piping Banjo Bolt
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BDGT ○○(□)○○○(○)FR-JA	M105	Insert (Milling) MEC
BDGT ○○T○○○FR-LE	G62, M105	Insert (Milling) MEC
BDMT ○○(□)○○○(○)ER-JS	M104, M114, M140	Insert (Milling) MEC / MECX / MECHT
BDMT ○○(□)○○○(○)ER-JT	M104, M114	Insert (Milling) MEC / MECX
BDMT ○○(□)○○○(○)ER-N○	M132	Insert (Milling) MECH
BDMT ○○(□)○○○(○)FR	G62, M105	Insert (Milling) MEC
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○○○○□- SCLCR○○-○○○EZP	F34	Boring Bars (EZ Bar PLUS)
○○○□- SCLP%○○(○)	F73	Boring Bars (General Purpose)
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INSERT GRADES	A
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○○○□- STZB% 00-○○○	F99	Boring Bars
○○○○(○)□- SWUB% 0.0	F121	Boring Bars (General Purpose)
○○○□- SWUB% 00-○○AN	F118	Boring Bars (Dynamic Bar)
○○○○□- SWUBR00-○○○E2P	F38	Boring Bars (EZ Bar PLUS)
C08R	P17	Spare Parts (Clamp)
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CB-12	P19	Spare Parts (Chipbreaker)
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CCET 0000F% -USF	B63	Insert (Turning)
CCET 0000(○)(○)MF% -J	B65	Insert (Turning)
CCET 0000(○)(○)MF% -U	B63	Insert (Turning)
CCET 0000(○)(○)MF% -USF	B63	Insert (Turning)
CCET 0000(○)(○)M% -F	B62	Insert (Turning)
CCET 0000(○)(○)M% -FSF	B61	Insert (Turning)
CCET 0000(○)M% -P	B63	Insert (Turning)
CCET 0000(○)M% -FSF	B61	Insert (Turning)
CCGT 0000(○)	B60	Insert (Turning)
CCGT 0000AH	B66	Insert (Turning)
CCGT 0000(○)AP	B66	Insert (Turning)
CCGT 0000(○)E% -U	B65	Insert (Turning)
CCGT 0000F% -U	B64	Insert (Turning)
CCGT 0000(○)ME% -U	B65	Insert (Turning)
CCGT 0000(○)(○)MF	B61	Insert (Turning)
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CCGT 0000(○)(○)MF% -U	B64	Insert (Turning)
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CCGT 0000(○)MP-CK	B59	Insert (Turning)
CCGT 0000(○)(○)M% -F	B62	Insert (Turning)
CCGT 000(○)(○)% -A3	B66	Insert (Turning)
CCGT 0000(○)(○)% -F	B62	Insert (Turning)
CCGW 0000(○)(○)	B66, C39	Insert (Turning)
CCGW 0000(○)(○)NE	C39	Insert (Turning)
CCGW 0000(○)(○)SE	C39	Insert (Turning)
CCLN% 0000□-○○	D53	Toolholder (Turning)
CCLN% 0000□-○○A	D66	Toolholder (Turning)
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CCMT 000(○)(○)GK	B60	Insert (Turning)
CCMT 0000(○)HQ	B60	Insert (Turning)
CCMT 0000MQ	B61	Insert (Turning)
CCMT 0000(○)NE	C39	Insert (Turning)
CCMT 0000(○)PP	B60	Insert (Turning)
CCMT 0000(○)SE	C39	Insert (Turning)
CCMT 0000(○)WJP	B60	Insert (Turning)
CCMW 0000MEF	C20	Insert (Turning)
CCMW 0000S00000MES	C20	Insert (Turning)
CCMW 0000(○)(○)S00000SET	C20	Insert (Turning)
CCMW 0000(○)T00000ME	C20	Insert (Turning)
CCMW 0000(○)(○)T00000SE	C20	Insert (Turning)
CCMW 0000S00000MET	C20	Insert (Turning)
CCN-5	H60	Coolant Piping
CCRN% 0000□-○○A	D66	Toolholder (Turning)
CD -0000(-C)	K107	Toolholder (Drilling) Coremaster Coredrill (CD)
CD -0000-LC	K108	Toolholder (Drilling) Coremaster Coredrill (CD-LC)
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CGIA-5R	P17	Spare Parts (Clamp)
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CH-20R	P17	Spare Parts (Clamp)
CIN <sup>®</sup> ○○○S-○○	J27	Toolholder (Threading)
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CL100-1	N20~N21	Spare Parts (Coolant Pipe)
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CM ○○○-○○-○○	M296	End Mill (Chamfering)
CM ○○○-○○-AL	M298	End Mill (Chamfering)
CNGA ○○○	B22	Insert (Turning)
CNGA ○○○MEF	C8	Insert (Turning)
CNGA ○○○ME4	C8	Insert (Turning)
CNGA ○○○S○○○○○	B113	Insert (Turning)
CNGA ○○○(○)S○○○○○ME	C8	Insert (Turning)
CNGA ○○○S○○○○○MEH	C8	Insert (Turning)
CNGA ○○○S○○○○○MEP	C8	Insert (Turning)
CNGA ○○○S○○○○○MET	C8	Insert (Turning)
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CNGG ○○○FP-TK	B19	Insert (Turning)
CNGG ○○○FR	B23	Insert (Turning)
CNGG ○○○L	B23	Insert (Turning)
CNGG ○○○L-25R	B23	Insert (Turning)
CNGG ○○○L-A3	B23	Insert (Turning)
CNGG ○○○(○)L-S	B23	Insert (Turning)
CNGG ○○○(○)MFP-SK	B19	Insert (Turning)
CNGG ○○○R	B23	Insert (Turning)
CNGG ○○○R-25R	B23	Insert (Turning)
CNGG ○○○R-A3	B23	Insert (Turning)

Part Number	Page	Description
CNGG ○○○(○)R-S	B23	Insert (Turning)
CNGG ○○○TK	B20	Insert (Turning)
CNGG ○○○Z	B23	Insert (Turning)
CNGM ○○○ME-HD	C9	Insert (Turning)
CNGM ○○○ME-HH	C9	Insert (Turning)
CNGM ○○○ME-HL	C9	Insert (Turning)
CNG ○○○T○○○○○AA	B113	Insert (Turning)
CNG ○○○T○○○○○	B113	Insert (Turning)
CNGU ○○○(○)(○)MFR-F	B55	Insert (Turning)
CNGU ○○○(○)(○)MFR-U	B55	Insert (Turning)
CNGU ○○○○MFP-SK	B55	Insert (Turning)
CNM ○○○	C16	Insert (Turning)
CNM ○○○T○○○○○	B113	Insert (Turning)
CNMA ○○○	B22	Insert (Turning)
CNMA ○○○T○○○○○	B113	Insert (Turning)
CNMA ○○○T○○○○○AA	B113	Insert (Turning)
CNMG ○○○	B18	Insert (Turning)
CNMG ○○○AH	B23	Insert (Turning)
CNMG ○○○C	B22	Insert (Turning)
CNMG ○○○CJ	B17	Insert (Turning)
CNMG ○○○CQ	B17	Insert (Turning)
CNMG ○○○GC	B22	Insert (Turning)
CNMG ○○○(○)GP	B16	Insert (Turning)
CNMG ○○○GS	B17	Insert (Turning)
CNMG ○○○GT	B18	Insert (Turning)
CNMG ○○○HQ	B17	Insert (Turning)
CNMG ○○○HS	B18	Insert (Turning)
CNMG ○○○HX	B19	Insert (Turning)
CNMG ○○○KG	B21	Insert (Turning)
CNMG ○○○KH	B21	Insert (Turning)
CNMG ○○○KQ	B21	Insert (Turning)
CNMG ○○○MQ	B20	Insert (Turning)
CNMG ○○○MS	B20	Insert (Turning)
CNMG ○○○MU	B20	Insert (Turning)
CNMG ○○○PG	B17	Insert (Turning)
CNMG ○○○PH	B18	Insert (Turning)
CNMG ○○○PMG	B17	Insert (Turning)
CNMG ○○○(○)PP	B16	Insert (Turning)
CNMG ○○○PQ	B16	Insert (Turning)
CNMG ○○○PS	B18	Insert (Turning)
CNMG ○○○PT	B18	Insert (Turning)
CNMG ○○○SG	B21	Insert (Turning)
CNMG ○○○SQ	B20	Insert (Turning)
CNMG ○○○TK	B20	Insert (Turning)
CNMG ○○○TN-V	B17	Insert (Turning)

INSERT GRADES	A
TURNING INSERTS	B
CBN/PCD INSERTS	C
TURNING HOLDERS	D
SMALL TOOLS	E
BORING	F
GROOVING	G
CUT-OFF	H
THREADING	J
DRILLING	K
MILLING	M
QUICK CHANGE TOOLING	N
SPARE PARTS	P
TECHNICAL	R
INDEX	T

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## Part Numbers in Alphanumeric Order

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Part Number	Page	Description
CNMG ○○○WE	B16	Insert (Turning)
CNMG ○○○WF	B16	Insert (Turning)
CNMG ○○○WP	B16	Insert (Turning)
CNMG ○○○WQ	B16	Insert (Turning)
CNMG ○○○XF	B19	Insert (Turning)
CNMG ○○○XP	B19	Insert (Turning)
CNMG ○○○XQ	B19	Insert (Turning)
CNMG ○○○XS	B19	Insert (Turning)
CNMG ○○○ZS	B22	Insert (Turning)
CNMM ○○○HX	B19	Insert (Turning)
CNMM ○○○(○)M	C34	Insert (Turning)
CNMM ○○○(○)M-NE	C34	Insert (Turning)
CNMM ○○○(○)M-SE	C34	Insert (Turning)
CNMM ○○○PX	B19	Insert (Turning)
CNMM ○○XL-SX	B21	Insert (Turning)
CNMM ○○XR-SX	B21	Insert (Turning)
CNMM ○○○(○)E-GK	B55	Insert (Turning)
CP-2D	P18	Spare Parts (Clamp)
CP-2D- <sup>®</sup> /L-JCT	P18	Spare Parts (Clamp)
CP-3D	P18	Spare Parts (Clamp)
CP-3D- <sup>®</sup> /L-JCT	P18	Spare Parts (Clamp)
CP-4D- <sup>®</sup> /L-JCT	P18	Spare Parts (Clamp)
CP-5D	P18	Spare Parts (Clamp)
CP-5D-JCT	P18	Spare Parts (Clamp)
CP-8TE	P18	Spare Parts (Clamp)
CP-8W	P18	Spare Parts (Clamp)
CP8X23TL	P2	Spare Parts (Screw)
CP-CH10	K37	Spare Parts (Clamp)
CP-CH12	K37	Spare Parts (Clamp)
CP-CH14	K37	Spare Parts (Clamp)
CP-CH16	K37	Spare Parts (Clamp)
CP-CH18	K37	Spare Parts (Clamp)
CP-CH20	K37	Spare Parts (Clamp)
CPGB ○○○S○○○○○MES	C21	Insert (Turning)
CPGB ○○○(○)(○)S○○○○○MET	C21	Insert (Turning)
CPGB ○○○(○)(○)T○○○○○OME	C21	Insert (Turning)
CPGB ○○○(○)(○)(○)T○○○○○OSE	C21	Insert (Turning)
CPGT ○○○○(○)	B66	Insert (Turning)
CPMB ○○○(○)(○)(○)	B67	Insert (Turning)
CPMH ○○○(○)(○)(○)	B67, C41	Insert (Turning)
CPMH ○○○(○)(○)HQ	B67	Insert (Turning)
CPMH ○○○(○)(○)(○)NE	C41	Insert (Turning)
CPMH ○○○(○)(○) <sup>®</sup> /L-Y	B67	Insert (Turning)
CPMH ○○○(○)SE	C41	Insert (Turning)

Part Number	Page	Description
CPMT ○○○(○)(○)GP	B67	Insert (Turning)
CPMT ○○○(○)(○)(○)PP	B67	Insert (Turning)
CPMT ○○○(○)(○)XP	B67	Insert (Turning)
CPMT ○○○XQ	B67	Insert (Turning)
CP-RC <sup>®</sup> /L	P15	Spare Parts (Clamp Set)
CPS-1	P16	Spare Parts (Clamp Set)
CPS-2	P16	Spare Parts (Clamp Set)
CPS-2P	P16	Spare Parts (Clamp Set)
CPS-2S	P16	Spare Parts (Clamp Set)
CPS-2TR	P16	Spare Parts (Clamp Set)
CPS-3	P16	Spare Parts (Clamp Set)
CPS-4V	P16	Spare Parts (Clamp Set)
CPS-5E	P16	Spare Parts (Clamp Set)
CPS-5F	P16	Spare Parts (Clamp Set)
CPS-5 <sup>®</sup> /L	P16	Spare Parts (Clamp Set)
CPS-5S	P16	Spare Parts (Clamp Set)
CPS-5V	P16	Spare Parts (Clamp Set)
CPS-6F	P16	Spare Parts (Clamp Set)
CPS-6M	P16	Spare Parts (Clamp Set)
CPS-6S	P16	Spare Parts (Clamp Set)
CPS-6V	P16	Spare Parts (Clamp Set)
CPS-8V	P16	Spare Parts (Clamp Set)
CP-ST-R1/8	H17	Coolant Coupler
CRDCN ○○-○	D64	Toolholder (Turning)
CRDNN ○○-○□	D64	Toolholder (Turning)
CRDNN ○○○○□-○○	D64	Toolholder (Turning)
CRDNN ○○○○□-○○A	D67	Toolholder (Turning)
CRSN <sup>®</sup> /L ○○○○□-○○	D63	Toolholder (Turning)
CRSN <sup>®</sup> /L ○○○○□-○○A	D67	Toolholder (Turning)
CS ○○-○○○	K113	Toolholder (Drilling) Countersink (CS)
CS-2D	P2	Spare Parts (Screw)
CS-3D	P2	Spare Parts (Screw)
CS-5D	P2	Spare Parts (Screw)
CS-3D-TR	P2	Spare Parts (Screw)
CSDNN ○○○○□-○○	D60	Toolholder (Turning)
CSDNN ○○○○□-○○A	D70	Toolholder (Turning)
CSKN <sup>®</sup> /L ○○○○□-○○	D58	Toolholder (Turning)
CSKNR ○○○○□-○○A	D69	Toolholder (Turning)
CS-N <sup>®</sup> /L ○○○○□-○○	D58	Toolholder (Turning)
CSRN <sup>®</sup> /L ○○-○□	D56	Toolholder (Turning)
CSRN <sup>®</sup> /L ○○○○□-○○	D56	Toolholder (Turning)
CSRN <sup>®</sup> /L ○○○○□-○○A	D69	Toolholder (Turning)
CSSN <sup>®</sup> /L ○○-○□	D59	Toolholder (Turning)
CSSN <sup>®</sup> /L ○○○○□-○○	D59	Toolholder (Turning)

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Part Number	Page	Description
CSSN% 〇〇〇〇□-〇〇A	D70	Toolholder (Turning)
CSYN% 〇〇〇〇□-〇〇	D59	Toolholder (Turning)
CT12T3-45DA	K36	Chamfer Insert (Drilling) DRA
CTJN% 〇〇-〇□	D62	Toolholder (Turning)
CTJN% 〇〇〇〇□-〇〇	D62	Toolholder (Turning)
CTJN% 〇〇〇〇□-〇〇A	D72	Toolholder (Turning)
CTUN% 〇〇〇〇□-〇〇	D62	Toolholder (Turning)
<b>D</b>		
DA 〇〇〇〇M-FTP	K10	Insert (Drilling) DRA Magic Drill
DA 〇〇〇〇M-FTP-H	K11	Insert (Drilling) DRA Magic Drill
DA 〇〇〇〇M-GM	K6~K9	Insert (Drilling) DRA Magic Drill
DA 〇〇〇〇M-HQP	K13~K15	Insert (Drilling) DRA Magic Drill
DA 〇〇〇〇M-HQS	K16~K17	Insert (Drilling) DRA Magic Drill
DB 〇〇〇R〇〇	G71	Insert (Grooving)
DB 〇〇〇□(□□)T00420	G71	Insert (Grooving)
DC 〇-〇.〇〇	M316	End Mill (DC Dovetail)
DC-42	P9	Spare Parts (Shim)
DC-44	P9	Spare Parts (Shim)
DC-44-C	P9	Spare Parts (Shim)
DCET 〇〇〇〇F% -JSF	B76	Insert (Turning)
DCET 〇〇〇〇F% -USF	B74	Insert (Turning)
DCET 〇〇〇〇(〇)MF% -J	B77	Insert (Turning)
DCET 〇〇〇〇MF% -JSF	B76	Insert (Turning)
DCET 〇〇〇〇FR-U	B74	Insert (Turning)
DCET 〇〇〇〇(〇)MF% -U	B74	Insert (Turning)
DCET 〇〇〇〇(〇)MF% -USF	B74	Insert (Turning)
DCET 〇〇〇〇(〇)M% -F	B72	Insert (Turning)
DCET 〇〇〇〇(〇)M% -FSF	B72	Insert (Turning)
DCET 〇〇〇〇(〇)% -FSF	B72	Insert (Turning)
DCGT 〇〇〇〇(〇)	B70	Insert (Turning)
DCGT 〇〇〇〇AH	B78	Insert (Turning)
DCGT 〇〇〇〇(〇)AP	B78	Insert (Turning)
DCGT 〇〇〇〇〇CF	B68	Insert (Turning)
DCGT 〇〇〇〇〇CK	B68	Insert (Turning)
DCGT 〇〇〇〇(〇)E% -J	B77	Insert (Turning)
DCGT 〇〇〇〇(〇)E% -U	B76	Insert (Turning)
DCGT 〇〇〇〇(〇)F% -J	B77	Insert (Turning)
DCGT 〇〇〇〇〇F% -U	B75	Insert (Turning)
DCGT 〇〇〇〇(〇)FN-Z	B70	Insert (Turning)
DCGT 〇〇〇〇(〇)M	B70	Insert (Turning)
DCGT 〇〇〇〇(〇)ME% -J	B77	Insert (Turning)
DCGT 〇〇〇〇(〇)ME% -U	B76	Insert (Turning)
DCGT 〇〇〇〇(〇)MF	B70	Insert (Turning)
DCGT 〇〇〇〇(〇)MFP-GF	B68	Insert (Turning)

Part Number	Page	Description
DCGT 〇〇〇〇(〇)MFP-GQ	B69	Insert (Turning)
DCGT 〇〇〇〇(〇)MFP-SK	B68	Insert (Turning)
DCGT 〇〇〇〇(〇)(〇)MFP-SKS	B68	Insert (Turning)
DCGT 〇〇〇〇(〇)(〇)MF% -J	B77	Insert (Turning)
DCGT 〇〇〇〇(〇)(〇)MF% -U	B75	Insert (Turning)
DCGT 〇〇〇〇〇MP-CF	B68	Insert (Turning)
DCGT 〇〇〇〇〇MP-CK	B68	Insert (Turning)
DCGT 〇〇〇〇(〇)(〇)M% -F	B73	Insert (Turning)
DCGT 〇〇〇〇(〇)% -A3	B78	Insert (Turning)
DCGT 〇〇〇〇(〇)% -F	B73	Insert (Turning)
DCGT 〇〇〇〇(〇)% -FS	B73	Insert (Turning)
DCGW 〇〇〇〇(〇)	B78	Insert (Turning)
DCLN% 〇〇-〇□	D8	Toolholder (Turning)
DCLN% 〇〇-〇□JCT	D9	Toolholder (Turning)
DCLN% 〇〇〇〇□-〇〇	D8	Toolholder (Turning)
DCLN% 〇〇〇〇□-〇〇JCT	D9	Toolholder (Turning)
DCMT 〇〇〇〇(〇)	B70, C42	Insert (Turning/Milling)
DCMT 〇〇〇〇(〇)APD	C42	Insert (Turning)
DCMT 〇〇〇〇〇Q	M314	Insert (Milling) / API Insert (Ring Grooving)
DCMT 〇〇〇〇(〇)GK	B70	Insert (Turning)
DCMT 〇〇〇〇(〇)GP	B69	Insert (Turning)
DCMT 〇〇〇〇(〇)HQ	B70, M314, M317	Insert (Turning/Milling) / API Insert (Ring Grooving, Dovetail)
DCMT 〇〇〇〇(〇)MQ	B71	Insert (Turning)
DCMT 〇〇〇〇(〇)NE	C42	Insert (Turning)
DCMT 〇〇〇〇(〇)PP	B69	Insert (Turning)
DCMT 〇〇〇〇(〇)% -NE	C42	Insert (Turning)
DCMT 〇〇〇〇(〇)SE	C42	Insert (Turning)
DCMT 〇〇〇〇(〇)XP	B71	Insert (Turning)
DCMT 〇〇〇〇〇XQ	B71	Insert (Turning)
DCMW 〇〇〇〇MEF	C22	Insert (Turning)
DCMW 〇〇〇〇(〇)S〇〇〇〇〇MES	C22	Insert (Turning)
DCMW 〇〇〇〇(〇)S〇〇〇〇〇MET	C22	Insert (Turning)
DCMW 〇〇〇〇S〇〇〇〇〇〇SET	C22	Insert (Turning)
DCMW 〇〇〇〇(〇)T〇〇〇〇〇ME	C22	Insert (Turning)
DCMW 〇〇〇〇(〇)T〇〇〇〇〇SE	C22	Insert (Turning)
DCMX 〇〇〇〇(〇)WP	B69	Insert (Turning)
DCMX 〇〇〇〇% -WP	B69	Insert (Turning)
DD-42	P9	Spare Parts (Shim)
DD-42-16	P9	Spare Parts (Shim)
DD-43	P9	Spare Parts (Shim)
DD-44	P9	Spare Parts (Shim)
DDJN% 〇〇-〇□	D14	Toolholder (Turning)
DDJN% 〇〇-〇□JCT	D15	Toolholder (Turning)
DDJN% 〇〇〇〇□-〇〇〇〇	D14	Toolholder (Turning)

INSERT GRADES  
TURNING INSERTS  
CBN/PCD INSERTS  
TURNING HOLDERS  
SMALL TOOLS  
BORING  
GROOVING  
CUT-OFF  
THREADING  
DRILLING  
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# Part Number Index

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Part Number	Page	Description
DDJN%L ○○○○□-○○JCT	D15	Toolholder (Turning)
DDHN%L ○○○○□-○○○○	D16	Toolholder (Turning)
DMC ○○○H	M187	End Mill (DMC-H)
DMC ○○○SX	M186	End Mill (DMC-SX)
DMC ○○○SXT	M186	End Mill (DMC-SX)
DMC ○○○SX-○○○	M186	End Mill (DMC-SX)
DN10	P23	Spare Parts (Nozzle)
DN20	P23	Spare Parts (Nozzle)
DNG ○○○T○○○○○	B114	Insert (Turning)
DNG ○○○T○○○○○AA	B114	Insert (Turning)
DNGA ○○○MEF	C10	Insert (Turning)
DNGA ○○○ME4	C10	Insert (Turning)
DNGA ○○○S○○○○○	B114	Insert (Turning)
DNGA ○○○(○)S○○○○○ME	C10	Insert (Turning)
DNGA ○○○S○○○○○MEH	C10	Insert (Turning)
DNGA ○○○S○○○○○MEP	C10	Insert (Turning)
DNGA ○○○S○○○○○MET	C10	Insert (Turning)
DNGA ○○○T○○○○○	B114	Insert (Turning)
DNGA ○○○T○○○○○AA	B114	Insert (Turning)
DNGG ○○○AH	B31	Insert (Turning)
DNGG ○○○FP-TK	B28	Insert (Turning)
DNGG ○○○L	B32	Insert (Turning)
DNGG ○○○L-A3	B31	Insert (Turning)
DNGG ○○○(○)L-S	B32	Insert (Turning)
DNGG ○○○(○)MFP-SK	B28	Insert (Turning)
DNGG ○○○R	B32	Insert (Turning)
DNGG ○○○R-A3	B31	Insert (Turning)
DNGG ○○○(○)R-S	B32	Insert (Turning)
DNGG ○○○TK	B28	Insert (Turning)
DNGM ○○○ME-HD	C11	Insert (Turning)
DNGM ○○○ME-HH	C11	Insert (Turning)
DNGM ○○○ME-HL	C11	Insert (Turning)
DNGU ○○○○(○)MER-U	B56	Insert (Turning)
DNGU ○○○○(○)MFP-SK	B56	Insert (Turning)
DNGU ○○○○(○)(○)MFR-F	B56	Insert (Turning)
DNGU ○○○○(○)(○)MFR-U	B56	Insert (Turning)
DNMA ○○○	B31	Insert (Turning)
DNMG ○○○	B27	Insert (Turning)
DNMG ○○○AH	B31	Insert (Turning)
DNMG ○○○C	B30	Insert (Turning)
DNMG ○○○J	B25	Insert (Turning)
DNMG ○○○Q	B25	Insert (Turning)
DNMG ○○○GC	B30	Insert (Turning)
DNMG ○○○(○)GP	B24	Insert (Turning)
DNMG ○○○GS	B25	Insert (Turning)

Part Number	Page	Description
DNMG ○○○GT	B26	Insert (Turning)
DNMG ○○○(○)HQ	B25	Insert (Turning)
DNMG ○○○KG	B30	Insert (Turning)
DNMG ○○○KH	B30	Insert (Turning)
DNMG ○○○KQ	B30	Insert (Turning)
DNMG ○○○MQ	B28	Insert (Turning)
DNMG ○○○MS	B29	Insert (Turning)
DNMG ○○○MU	B29	Insert (Turning)
DNMG ○○○PG	B26	Insert (Turning)
DNMG ○○○PH	B27	Insert (Turning)
DNMG ○○○PMG	B25	Insert (Turning)
DNMG ○○○(○)PP	B24	Insert (Turning)
DNMG ○○○PQ	B24	Insert (Turning)
DNMG ○○○PS	B26	Insert (Turning)
DNMG ○○○PT	B26	Insert (Turning)
DNMG ○○○(○)R-LD	B28	Insert (Turning)
DNMG ○○○%L-ST	B29	Insert (Turning)
DNMG ○○○SG	B29	Insert (Turning)
DNMG ○○○SQ	B29	Insert (Turning)
DNMG ○○○TK	B28	Insert (Turning)
DNMG ○○○TN-V	B25	Insert (Turning)
DNMG ○○○XF	B27	Insert (Turning)
DNMG ○○○XP	B27	Insert (Turning)
DNMG ○○○XQ	B27	Insert (Turning)
DNMG ○○○XS	B27	Insert (Turning)
DNMG ○○○ZS	B30	Insert (Turning)
DNMM ○○○(○)M	C35	Insert (Turning)
DNMM ○○○(○)M-NE	C35	Insert (Turning)
DNMM ○○○(○)M-SE	C35	Insert (Turning)
DNMM ○○○PX	B27	Insert (Turning)
DNMP ○○○TK	B28	Insert (Turning)
DNMU ○○○○(○)E-GK	B56	Insert (Turning)
DNMX ○○○WF	B24	Insert (Turning)
DPET ○○○○F%L-USF	B79	Insert (Turning)
DPET ○○○○MF%L-USF	B79	Insert (Turning)
DPET ○○○○M%L-FSF	B79	Insert (Turning)
DPET ○○○○%L-FSF	B79	Insert (Turning)
DR- ○○-○○(□)	M267	Spare Parts (Drive Ring)
DR- ○○○○-○○○○(□)	M266	Spare Parts (Drive Ring)
DR- ○○○○	K100~K103	Toolholder (Drilling) HOLESOT Drill (DR)
DR- ○○○○-X1	K102~K103	Toolholder (Drilling) HOLESOT Drill (DR)
DR- ○○○○-X3N	K100~K103	Toolholder (Drilling) HOLESOT Drill (DR)
DRV -CH○○	K68	Chamfering Attachment DRV

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DS-44	P9	Spare Parts (Shim)
DSBN <sup>®</sup> ○○○○□-○○	D21	Toolholder (Turning)
DT-8	P20	Spare Parts (Torx Wrench / Screwdriver Type)
DT-10	P20	Spare Parts (Torx Wrench / Screwdriver Type)
DT-15	P20	Spare Parts (Torx Wrench / Screwdriver Type)
DT-20	P20	Spare Parts (Torx Wrench / Screwdriver Type)
DT-25	P20	Spare Parts (Torx Wrench / Screwdriver Type)
DT-32	P9	Spare Parts (Shim)
DT-42	P9	Spare Parts (Shim)
DTD500	P22	Electric Wrench (Insert Torque Driver)
DTGN <sup>®</sup> ○○○○□-○○	D25	Toolholder (Turning)
DTGN <sup>®</sup> ○○○○□-○○JCT	D26	Toolholder (Turning)
DTM-6	P20	Spare Parts (Torx Wrench / Screwdriver Type)
DTM-7	P20	Spare Parts (Torx Wrench / Screwdriver Type)
DTM-8	P20	Spare Parts (Torx Wrench / Screwdriver Type)
DTM-10	P20	Spare Parts (Torx Wrench / Screwdriver Type)
DTM-15	P20	Spare Parts (Torx Wrench / Screwdriver Type)
DTP-6	P20	Spare Parts (Torx Plus Wrench / Screwdriver Type)
DTP-7	P20	Spare Parts (Torx Plus Wrench / Screwdriver Type)
DTP-9	P20	Spare Parts (Torx Plus Wrench / Screwdriver Type)
DTP-15	P20	Spare Parts (Torx Plus Wrench / Screwdriver Type)
DTP-20	P20	Spare Parts (Torx Plus Wrench / Screwdriver Type)
DTPM-8	P20	Spare Parts (Torx Plus Wrench / Screwdriver Type)
DTPM-10	P20	Spare Parts (Torx Plus Wrench / Screwdriver Type)
DTPM-15	P20	Spare Parts (Torx Plus Wrench / Screwdriver Type)
DV-33	P9	Spare Parts (Shim)
DVJN <sup>®</sup> ○○-○□	D34	Toolholder (Turning)
DVLN <sup>®</sup> ○○○○□-○○	D34	Toolholder (Turning)
DVLN <sup>®</sup> ○○-○□JCT	D35	Toolholder (Turning)
DVLN <sup>®</sup> ○○○○□-○○JCT	D35	Toolholder (Turning)
DVPN <sup>®</sup> ○○-○□	D36	Toolholder (Turning)
DVPN <sup>®</sup> ○○○○□-○○	D36	Toolholder (Turning)
DVPN <sup>®</sup> ○○○○□-○○JCT	D37	Toolholder (Turning)
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DWLN <sup>®</sup> ○○-○□JCT	D49	Toolholder (Turning)
DWLN <sup>®</sup> ○○○○□-○○JCT	D49	Toolholder (Turning)
DVVNN ○○-○□	D38	Toolholder (Turning)
DVVNN ○○○○□-○○	D38	Toolholder (Turning)
DVVNN ○○○○□-○○JCT	D39	Toolholder (Turning)
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E○○□- SCLC <sup>®</sup> ○A	F64	Boring Bars (Dynamic Bar)
E○○□- SCLC <sup>®</sup> ○A-○/○	F64	Boring Bars (Dynamic Bar)
E○○□- SCLC <sup>®</sup> ○○-○○A	F64	Boring Bars (Dynamic Bar)
E○○□- SCLC <sup>®</sup> ○○-○○A-○/○	F64	Boring Bars (Dynamic Bar)
E○○□- SCLC <sup>®</sup> ○○-○○AN	F64	Boring Bars (Dynamic Bar)
E○○□- SCLC <sup>®</sup> ○○-○○AN-○/○	F64	Boring Bars (Dynamic Bar)
E○○□- SCLP <sup>®</sup> ○○-○○A	F71	Boring Bars (Dynamic Bar)
E○○□- SCLP <sup>®</sup> ○○-○○A-○/○	F71	Boring Bars (Dynamic Bar)
E○○□- SCLP <sup>®</sup> ○○-○○AN	F71	Boring Bars (Dynamic Bar)
E○○□- SCLP <sup>®</sup> ○○-○○AN-○/○	F71	Boring Bars (Dynamic Bar)
E○○□- SDQC <sup>®</sup> ○A	F80	Boring Bars (Dynamic Bar)
E○○□- SDQC <sup>®</sup> ○A-○/○	F80	Boring Bars (Dynamic Bar)
E○○□- SDQC <sup>®</sup> ○○-○○A	F80	Boring Bars (Dynamic Bar)
E○○□- SDQC <sup>®</sup> ○○-○○A-○/○	F80	Boring Bars (Dynamic Bar)
E○○□- SDUC <sup>®</sup> ○A	F76	Boring Bars (Dynamic Bar)
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E○○□- SDUC <sup>®</sup> ○○-○○A	F76	Boring Bars (Dynamic Bar)
E○○□- SDUC <sup>®</sup> ○○-○○A-○/○	F76	Boring Bars (Dynamic Bar)
E○○□- SDZC <sup>®</sup> ○○-○○A	F84	Boring Bars (Dynamic Bar)
E○○□- STLP <sup>®</sup> ○○-○○A	F92	Boring Bars (Dynamic Bar)
E○○□- STLP <sup>®</sup> ○○-○○A-○/○	F92	Boring Bars (Dynamic Bar)
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E○○□- STLP <sup>®</sup> ○○-○○AN-○/○	F92	Boring Bars (Dynamic Bar)
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E○○□- SVPC <sup>®</sup> ○○-○○A	F107	Boring Bars (Dynamic Bar)
E○○□- SVUB <sup>®</sup> ○○-○○A	F109	Boring Bars (Dynamic Bar)
E○○□- SVUC <sup>®</sup> ○○-○○A	F109	Boring Bars (Dynamic Bar)
E○○□- SWUB <sup>®</sup> ○○-○○AN	F118	Boring Bars (Dynamic Bar)
E○○□- SWUB <sup>®</sup> ○○-○○AN-○/○	F118	Boring Bars (Dynamic Bar)
E○○□- SWUP <sup>®</sup> ○○-○○A	F118	Boring Bars (Dynamic Bar)
E○○□- SWUP <sup>®</sup> ○○-○○A-○/○	F118	Boring Bars (Dynamic Bar)
EGTR 16-1	G70	Toolholder (External Grooving)
EM ○○○○	M190	End Mill
EM ○○○○-○○	M190	End Mill
EM ○○○○-○○-3F	M190	End Mill
EM ○○○○-○○○S	M190	End Mill

INSERT GRADES	<b>A</b>
TURNING INSERTS	<b>B</b>
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BORING	<b>F</b>
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EM ○○○○-○	M190	End Mill (Extended Length)
EM ○○○○-AL	M216	End Mill (for Aluminum Machining)
EM ○○○○-○.○○(○)-AL	M216	End Mill (for Aluminum Machining)
EM ○○○○-3F	M190	End Mill
EM ○○○○-○○○○-LE	M191	End Mill (Long Edge)
ENG ○○○T○○○○○	B115	Insert (Turning)
ENG ○○○T○○○○○AA	B115	Insert (Turning)
ENET ○○○○PAER-□	M205	Insert (Milling) MFAH
EZBCR ○○○○○-○○-○○	F29	EZ Bars (Chamfering)
EZBFR ○○○○○-○○○	F26	EZ Bars (Boring)
EZBPR ○○○○○-○○○(-○○)	F28	EZ Bars (Internal Profiling)
EZBR ○○○○○-○○○NB	C32, C58, F24	EZ Bars (Boring)
EZB%L ○○○○○HP-○○○F	F21	EZ Bars (Boring)
EZBR ○○○○○HP-○○○G	F20	EZ Bars (Boring)
EZB%L ○○○○○HP-○○○H	F18	EZ Bars (Boring)
EZBR ○○○○○HP-○○○H-LT	F19	EZ Bars (Boring)
EZBR ○○○○○ST-○○○F	F23	EZ Bars (Boring)
EZBR ○○○○○ST-○○○H	F22	EZ Bars (Boring)
EZBTR ○○○○○-○○○	F32	EZ Bars (Back Boring)
EZFG%L ○○○○○-○○○	G99	EZ Bars (Internal Face Grooving)
EZG%L ○○○○○-○○○	G75	EZ Bars (Internal Grooving)
EZG%L ○○○○○-○○○S	G75	EZ Bars (Internal Grooving)
EZH ○○○○○(○)CT-○○○	F40~F41	Sleeve
EZH ○○○○○(○)HP-○○○	F42~F43	Sleeve
EZH ○○○○○(○)ST-○○○	F44~F45	Sleeve
EZTR ○○○○○-○○-○○○	J44	EZ Bars (Internal Threading)
EZVBR ○○○○○-○○○	F30	EZ Bars (Boring / Internal Facing / Internal Profiling)
<b>F</b>		
FH-2	P20	Spare Parts (Hexagon Wrench / Flag Type)
FM ○○○○-90RH	M192	Face Mill (Fixed Pocket)
FM ○○○○-90AL-(125)	M216	Face Mill (Fixed Pocket)
FM AL-○○○○-90-○	M216	Face Mill (Fixed Pocket)
FMM ○○-○○	G148	Insert (Grooving)
FMN ○	G148	Insert (Grooving)
FT-6	P20	Spare Parts (Torx Wrench / Flag Type)
FT-7	P20	Spare Parts (Torx Wrench / Flag Type)
FT-8	P20	Spare Parts (Torx Wrench / Flag Type)
FT-10	P20	Spare Parts (Torx Wrench / Flag Type)
FT-15	P20	Spare Parts (Torx Wrench / Flag Type)
FTK ○	G151	Insert (Face Grooving)
FTP-5	P20	Spare Parts (Torx Plus Wrench / Flag Type)
FTP-6	P20	Spare Parts (Torx Plus Wrench / Flag Type)

Part Number	Page	Description
<b>G</b>		
GBA ○○%L○○○-(○○○)	C29, C52, G6~G9, G12	Insert (Grooving)
GBA ○○%L○○○-○○○F	G7, G10	Insert (Grooving)
GBA ○○%L○○○-○○○GM	G11	Insert (Grooving)
GBA ○○%L○○○-○○○R	G7, G12	Insert (Grooving)
GBA ○○%L○○○-○○○RF	G12	Insert (Grooving)
GBF ○○%L○○○-○○○	G19~G20	Insert (Grooving)
GBF ○○%L○○○-○○○F	G18	Insert (Grooving)
GBF ○○%L○○○-○○○GL	G18	Insert (Grooving)
GC ○○%L○○○-○○○	G79	Insert (Grooving)
GC ○○R○○○-○○○R	G79	Insert (Grooving)
GDFG ○○○○N-○○○GS	G107	Insert (Face Grooving)
GDFM ○○○○N-○○○DM	G107	Insert (Face Grooving)
GDFM ○○○○N-○○○GH	G107	Insert (Face Grooving)
GDFM ○○○○N-○○○GM	G107	Insert (Face Grooving)
GDFM ○○○○N-○○○R-CM	G107	Insert (Face Grooving)
GDFMS ○○○○N-○○○DM	G107	Insert (Face Grooving)
GDG ○○○○N-○○○AM	G41	Insert (Grooving)
GDG ○○○○N-○○○GS	G41, G90	Insert (Grooving)
GDG ○○○○N-○○○PG	H32	Insert (Cut-Off)
GDG ○○○○%L-○○○PG-○○○D	H32	Insert (Cut-Off)
GDGS ○○○○N-○○○NB	C30, C54, G43	Insert (Grooving)
GDM ○○○○N-○○○GL	G41	Insert (Grooving)
GDM ○○○○N-○○○GM	G40	Insert (Grooving)
GDM ○○○○N-○○○GMI	G90	Insert (Grooving)
GDM ○○○○N-○○○PF	H32	Insert (Cut-Off)
GDM ○○○○N-○○○PH	G42, H33	Insert (Grooving / Cut-Off)
GDM ○○○○N-○○○PM	H33	Insert (Cut-Off)
GDM ○○○○N-○○○PQ	H32	Insert (Cut-Off)
GDM ○○○○N-○○○R-CM	G42, G90	Insert (Grooving)
GDM ○○○○%L-○○○PF-○○○D	H32	Insert (Cut-Off)
GDM ○○○○%L-○○○PM-○○○D	H33	Insert (Cut-Off)
GDM ○○○○%L-○○○PQ-○○○D	H32	Insert (Cut-Off)
GDMS ○○○○N-○○○GM	G40	Insert (Grooving)
GDMS ○○○○N-○○○PH	G42, H33	Insert (Grooving / Cut-Off)
GDMS ○○○○N-○○○PM	H33	Insert (Cut-Off)
GDMS ○○○○%L-○○○PM-○○○D	H33	Insert (Cut-Off)
GE%L ○○○-○○○A	G82	Insert (Grooving)
GER ○○○-○○○AR	G82	Insert (Grooving)
GE%L ○○○-○○○B	G82	Insert (Grooving)
GER ○○○-○○○BR	G82	Insert (Grooving)
GE%L ○○○-○○○C	G84	Insert (Grooving)
GER ○○○-○○○CM	G83	Insert (Grooving)
GER ○○○-○○○CR	G84	Insert (Grooving)

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GE%L ○○○-○○○D	G84	Insert (Grooving)
GER ○○○-○○○DM	G83	Insert (Grooving)
GER ○○○-○○○DR	G84	Insert (Grooving)
GE%L ○○○-○○○E	G85	Insert (Grooving)
GE%L ○○○-○○○EM	G85	Insert (Grooving)
GFV%L ○○○○□-○○○(○)□	G137	Toolholder (Face Grooving)
GFVS%L ○○-H□	G143	Toolholder (Face Grooving)
GFVS%L ○○○○□-H□	G143	Toolholder (Face Grooving)
GFVS%L ○○○○□-○○AA	G135	Toolholder (Face Grooving)
GFVS%L ○○-○○○(○)□	G139	Toolholder (Face Grooving)
GFVS%L ○○○○□-○○○(○)□	G140	Toolholder (Face Grooving)
GFVT%L ○○-H□	G143	Toolholder (Face Grooving)
GFVT%L ○○○○□-H□	G143	Toolholder (Face Grooving)
GFVT%L ○○○○□-○○AA	G135	Toolholder (Face Grooving)
GFVT%L ○○-○○○(○)□	G141	Toolholder (Face Grooving)
GFVT%L ○○○○□-○○○(○)□	G142	Toolholder (Face Grooving)
GG ○○○-○○T00320	G70	Insert (Grooving)
GH ○○○○(○)-○○	B124, G66, G92	Insert (Grooving)
GHU ○○-○○	G66, G92	Insert (Grooving)
GIFV%L ○○○○B-○○○□	G145	Toolholder (Face Grooving)
GMGW ○○○○-○○R	C56, G72	Insert (Grooving)
GMGW ○○○○-○○R-HR	C56, G72	Insert (Grooving)
GMN ○	C31, G55	Insert (Grooving)
GOMT ○○(□)○○○ER-D	M262	Insert (Milling) MEY
GP-1	P23	Spare Parts (Plug)
GP-2	P23	Spare Parts (Plug)
G5-50	P2	Spare Parts (Screw)
GV%L ○○○□R	M309	Insert (Grooving / Previous Description)
GV%L ○○○□(□)	M309	Insert (Grooving / Previous Description)
GV%L ○○○-○○○□(□)	M309	Insert (Grooving)
GVF%L ○○○□	M310	Insert (Grooving / Previous Description)
GVF%L ○○○-○○○AA	G134	Insert (Grooving)
GVF%L ○○○-○○○□	C53, G136, M310	Insert (Grooving)
GVF%L ○○○-○○○□R	G136	Insert (Grooving)
GZG ○○○○N-○○○GS	G28	Insert (Grooving)
GZG ○○○○N-○○○PG	H22	Insert (Cut-Off)
GZG ○○○○%L-○○○PG-15D	H22	Insert (Cut-Off)
GZM ○○○○N-○○○CM	G28	Insert (Grooving)
GZM ○○○○N-○○○GL	G28	Insert (Grooving)
GZM ○○○○N-○○○GM	G28	Insert (Grooving)
GZM ○○○○N-○○○PF	H22	Insert (Cut-Off)
GZM ○○○○N-○○○PH	G28, H23	Insert (Grooving / Cut-Off)
GZM ○○○○N-○○○PM	H23	Insert (Cut-Off)

Part Number	Page	Description
GZM ○○○○%L-○○○PF-15D	H22	Insert (Cut-Off)
GZM ○○○○%L-○○○PM-6D	H23	Insert (Cut-Off)
GZGS ○○○○N-○○○NB	G28	Insert (Grooving)
GZMS ○○○○N-○○○GM	G28	Insert (Grooving)
GZMS ○○○○N-○○○PH	G28	Insert (Grooving)
GZMS ○○○○N-○○○PM	H23	Insert (Cut-Off)
<b>H</b>		
HF0500X35HC	P2	Spare Parts (Screw with Coolant Hole)
HF0625X44HC	P2	Spare Parts (Screw with Coolant Hole)
HF0625X48HC	P2	Spare Parts (Screw with Coolant Hole)
HF16X48HC	P2	Spare Parts (Screw with Coolant Hole)
HF20X53H	M102	Spare Parts (Screw)
HF20X53HA	P2	Spare Parts (Screw with Coolant Hole)
HF24X60H	P2	Spare Parts (Screw)
HF24X60HA	M202	Spare Parts (Screw with Coolant Hole)
HH1/2-1.25	P3	Spare Parts (Arbor / Mounting Bolt)
HH1/2-1.25H	P3	Spare Parts (Arbor / Mounting Bolt)
HH1/4-0.75	P3	Spare Parts (Arbor / Mounting Bolt)
HH3/4-2.3H	P3	Spare Parts (Arbor / Mounting Bolt)
HH3/8-1.25	P3	Spare Parts (Arbor / Mounting Bolt)
HH3/8-1.25H	P3	Spare Parts (Arbor / Mounting Bolt)
HH3X6	P3	Spare Parts (Screw)
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JCET 〇〇〇〇(〇)M % -FSF	B80	Insert (Turning)
JCET 〇〇〇〇(〇) % -FSF	B80	Insert (Turning)
JCGT 〇〇〇〇(〇) % -F	B80	Insert (Turning)
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J-G1/8-UNF3/8	D13, G49, H60	Piping Joint

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J-ST-R1/4-RC1/8	H17	Coolant Joint
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J-ST-R1/8-RC1/8	H17	Coolant Joint
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KAVH 〇〇-PDUN % 〇〇	F140	Anti-Vibration Boring Bar Head
KAVH 〇〇-PTFN % 〇〇	F142	Anti-Vibration Boring Bar Head
KAVH 〇〇-SCLC % 〇〇	F134	Anti-Vibration Boring Bar Head
KAVH 〇〇-SDUC % 〇〇	F135	Anti-Vibration Boring Bar Head
KAVH 〇〇-STLP % 〇〇	F136	Anti-Vibration Boring Bar Head
KAVH 〇〇-SVUB % 〇〇	F137	Anti-Vibration Boring Bar Head
KAV- D〇〇-〇(〇)D	F144	Anti-Vibration Boring Bar Shank
KAV- G〇〇-〇〇D	F144	Anti-Vibration Boring Bar Shank
KCFP 〇〇〇〇 %	G146	Insert (Cera-Notch Face Grooving)
KCG 〇〇〇〇 %	G64	Insert (Cera-Notch Grooving)
KCGDP 〇〇〇〇 %	G64	Insert (Cera-Notch Grooving)
KCGP 〇〇〇〇L	G63	Insert (Cera-Notch Grooving)
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KCGT 〇〇〇〇〇〇ER-AM	M213	Insert (Milling) MEAS
KCGT 〇〇〇〇〇〇FR-AL	M213	Insert (Milling) MEAS
KCRP 〇〇〇〇 %	G64	Insert (Cera-Notch Grooving)
KCT 〇 %	J34	Insert (Cera-Notch Threading)
KCTP 〇 %	J34	Insert (Cera-Notch Threading)
KCTK 〇 %	J34	Insert (Cera-Notch Threading)
KDBR 16-1	G71	Toolholder (External Grooving)
KFMS % 〇〇-〇-〇〇〇〇(〇)(〇)	G149~G150	Toolholder (Face Grooving)
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KFTB % 〇〇〇〇〇(〇)-〇S	G152	Blade (Face Grooving)
KGBA % 〇〇-〇	G13	Toolholder (Grooving)
KGBA % 〇〇-〇-〇〇	G13	Toolholder (Grooving)
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KGBAS <sup>PK</sup> ○○○○□22-○○	G14	Toolholder (Grooving)
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KGBFR ○(○).○(○)-○○FJCTM	G22	Toolholder (Grooving)
KGBFR ○○○○JX-○○FJCTM	G22	Toolholder (Grooving)
KGBF5 <sup>PK</sup> ○○○○JX-16	G23	Toolholder (Grooving)
KGD <sup>PK</sup> ○○-C	G52, G56, G110~G114, H43	Toolholder Body (Grooving / Cut-Off)
KGD <sup>PK</sup> ○T○○-C	G52~G56, H43~H44	Blade (Grooving / Cut-Off)
KGD <sup>PK</sup> ○○○○-C	G53, G56, G115~G119, H44	Toolholder Body (Grooving / Cut-Off)
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KGD <sup>PK</sup> ○○○○□-○T○○JCT	G48, H46	Toolholder (Grooving / Cut-Off)
KGD <sup>PK</sup> ○○○○□(□)-○(○)T○○	G45, H42	Toolholder (Grooving / Cut-Off)
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KGDF <sup>PK</sup> -○○(○)-○□-C	G131	Blade (Face Grooving)
KGDF <sup>PK</sup> ○○○○○○(○)-○B-Z	G120	Toolholder (Face Grooving)
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KGMWR ○○○○□-○	G72	Toolholder (Grooving)
KGZ <sup>PK</sup> ○(○).○(○)-○(D○○)JX	G32, H26	Toolholder (Grooving / Cut-Off)
KGZ <sup>PK</sup> ○○○○□(□)-○(○)(D○○)	G33, H27	Toolholder (Grooving / Cut-Off)
KGZ <sup>PK</sup> ○(○).○(○)-○(○)JCTM	G30, H24	Toolholder (Grooving / Cut-Off)
KGZ <sup>PK</sup> ○○○○JX-○(○)JCTM	G31, H25	Toolholder (Grooving / Cut-Off)
KGZ <sup>PK</sup> ○○○○JX-○(○)D26JCTM	G31, H25	Toolholder (Grooving / Cut-Off)
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KIGBA <sup>PK</sup> ○○-○	G89	Toolholder (Grooving)
KIGBA <sup>PK</sup> ○○○○-○○	G89	Toolholder (Grooving)
KIGHR ○○○○B-○	G93	Toolholder (Grooving)

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KKC <sup>PK</sup> ○○○○□-○-○○○F	G65, J35	Toolholder (Cera-Notch Grooving / Threading)
KKCE <sup>PK</sup> ○○-○□	G147	Toolholder (Cera-Notch Face Grooving)
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KPC○-DDHN <sup>PK</sup> ○○○○○○-○○□	N6	Polygon Shank Holder (Turning)
KPC○-DDJN <sup>PK</sup> ○○○○○○-○○□	N6	Polygon Shank Holder (Turning)
KPC○-DTGN <sup>PK</sup> ○○○○○○-○○□	N8	Polygon Shank Holder (Turning)
KPC○-DVLN <sup>PK</sup> ○○○○○○-○○□	N10	Polygon Shank Holder (Turning)
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KPC○-KGBA <sup>PK</sup> ○○○○○○-○○(○○)	N15	Polygon Shank Holder (Shallow Grooving)
KPC○-KGD <sup>PK</sup> ○○○○○○-○○T○	N16	Polygon Shank Holder (Grooving / Cut-Off)
KPC○-KTN <sup>PK</sup> ○○○○○○-○○□	N17	Polygon Shank Holder (Threading)
KPC○-SVJB <sup>PK</sup> ○○○○○○-○○□	N13	Polygon Shank Holder (Turning)
KPC○-SVVB <sup>PK</sup> N○○○○○-○○□	N14	Polygon Shank Holder (Turning)
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KPKB ○○-○JCT	H54	Blade (Cut-Off)
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KPKH ○○○○□-○	H62	Toolholder (Cut-Off)
KPKH ○○○○□-○D○○	H62	Toolholder (Cut-Off)
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KSTB SR○○□CCET○○○	E72	Sub-Spindle Tools
KSTB SR○○/○○DCET○○○	E72	Sub-Spindle Tools
KSTB SR○○□DCET○○○	E72	Sub-Spindle Tools
KSTB SR○○/○○VBET○○○	E72	Sub-Spindle Tools
KSTB SR○○□VBET○○○	E72	Sub-Spindle Tools
KSTB SR○○/○○TT○○	E73	Sub-Spindle Tools
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KTKB ○○-○OSS	H66	Blade (Cut-Off)
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KTKFL ○○○○□□-○○	E16, H10, J30	Goose-neck Toolholder (Back Turning / Cut-Off / Threading)

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KTKF%L ○○○□(□)-○○	E15, H9, J29	Toolholder (Back Turning / Cut-Off / Threading)
KTKF%L ○○○□(□)-○○SA/B	H18	Toolholder (Cut-Off / Sub-spindle)
KTKF%L ○○○JX-○○-Y	E16, H12, J31	Toolholder (Back Turning / Cut-Off / Threading)
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KTNR ○○○□-○○JCT	J23	Toolholder (Threading)
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KTT%L ○○○□-○○	J41	Toolholder (Threading)
KTTXR ○(○)-○○□F	J39	Toolholder (Threading)
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LC-32N	P9	Spare Parts (Shim)
LC-42N	P9	Spare Parts (Shim)
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LC-42N%L	P10	Spare Parts (Shim)
LC-53N	P9	Spare Parts (Shim)
LC-53N-C	P10	Spare Parts (Shim)
LC-63	P9	Spare Parts (Shim)
LC-63-C	P10	Spare Parts (Shim)
LCMT ○○○○○-GH-E	K46	Insert (Drilling) DRV Magic Drill
LCMT ○○○○○-GH-I	K48	Insert (Drilling) DRV Magic Drill
LCMT ○○○○○-GM-E	K46	Insert (Drilling) DRV Magic Drill
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LCMT ○○○○○-SM-E	K46	Insert (Drilling) DRV Magic Drill
LCMT ○○○○○-SM-I	K48	Insert (Drilling) DRV Magic Drill
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LL-1K	P8	Spare Parts (Lock Pin)
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LL-6	P8	Spare Parts (Lock Pin)
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LNGX ○○○○○R-TT	M42, M222	Insert (Milling) MFSE45 / MFF
LNGX ○○○○PDRF-G	M198	Insert (Milling) MD90
LNGX ○○○○PDRF-L	M198	Insert (Milling) MD90
LNGX ○○○○○PDRF-RR	M198	Insert (Milling) MD90
LNU 6688T08015625A	B123	Insert (Turning)
LOGU ○○○○○ER-GH	M78, M251	Insert (Milling) MA90 / MFH
LOGU ○○○○○ER-GM	M48, M78, M167, M251	Insert (Milling) MFLN / MA90 / MFH
LOGU ○○○○○ER-SM	M78	Insert (Milling) MA90
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LOGT ○○○○○ER-GM	M78	Insert (Milling) MA90
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MVJN%L ○○-○□	D40	Toolholder (Turning)
MVLN%L ○○○○□-○○	D41	Toolholder (Turning)
MVN-32	P11	Spare Parts (Shim)
MVVNN ○○-○□	D42	Toolholder (Turning)
MVVNN ○○○○□-○○	D42	Toolholder (Turning)
MWLN%L ○○-○□	D50	Toolholder (Turning)
<b>N</b>		
NDCT ○○○TRX	M188	Insert (Milling) DMC-SX / DMC-H
NDCT ○○○FR	M188	Insert (Milling) DMC / DMC-SX, CEM
NDCW ○○○FRX	G62, M188, M322	Insert (Milling) DMC-H
NDCW ○○○FRX-NE	G62, M188, M322	Insert (Milling) DMC-H
NDCW ○○○(○)TR	M188	Insert (Milling) DMC-SX
NDCW ○○○FRX	M188	Insert (Milling) DMC-SX / DMC-H / CEM
NDCW ○○○TRX	M188	Insert (Milling) DMC-SX / DMC-H / CEM
<b>O</b>		
<b>P</b>		
P-03	P8	Spare Parts (Shim Pin)
P-03S	P8	Spare Parts (Shim Pin)
PC-1	P23	Spare Parts (Punch)
PC-2	P23	Spare Parts (Punch)
PCLN%L ○○-○□	D11	Toolholder (Turning)
PCLN%L ○○○○□-○○	D11	Toolholder (Turning)
PCLNR ○○○○JX-○○FF	E67	Toolholder (Double Sided Tooling)
PD-42	P11	Spare Parts (Shim)
PDHN%L ○○○○□-○○	D19	Toolholder (Turning)
PDJN%L ○○-○□	D18	Toolholder (Turning)
PDJN%L ○○○○□-○○	D18	Toolholder (Turning)
PDJN%L ○○○○□-○○U	D18	Toolholder (Turning)
PKM ○○N-○○PH	H52	Insert (Cut-Off)
PKM ○○N-○○PM	H52	Insert (Cut-Off)
PKM ○○%L-○○PM-6D	H52	Insert (Cut-Off)
PNEA ○○○○XNTN-T01020	M58	Insert (Milling) MFK
PNEG ○○○○XNEN-GL	M58	Insert (Milling) MFK
PNEG ○○○○XNER-W	M58	Insert (Milling) MFK
PNEG ○○○○XNTR-T00515(W)	M58	Insert (Milling) MFK
PNEU ○○○○ANEL-GL	M28	Insert (Milling) MFPN45
PNEU ○○○○ANER-GL	M28	Insert (Milling) MFPN45
PNEU ○○○○ANER-W	M28	Insert (Milling) MFPN45
PNMG ○○○○XNEN-GH	M58	Insert (Milling) MFK
PNMG ○○○○XNEN-GM	M58	Insert (Milling) MFK
PNMU ○○○○ANER-GH	M28	Insert (Milling) MFPN45
PNMU ○○○○ANEL-GM	M28	Insert (Milling) MFPN45

Part Number	Page	Description
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PNMU ○○○○ANER-SM	M28	Insert (Milling) MFPN45
PNMU ○○○○XNER-GH	M36	Insert (Milling) MFPN66
PNMU ○○○○XNER-GM	M36	Insert (Milling) MFPN66
PNMU ○○○○XNER-SM	M36	Insert (Milling) MFPN66
PP-4	P8	Spare Parts (Lock Pin)
PR07-ST-UNF3/8	F145	Resin Join (with O-Ring)
PRGC%L ○○-○○□□	D45	Toolholder (Turning)
PRGC%L ○○○○□-○○	D45	Toolholder (Turning)
PRGC%L ○○○○□-○○BE	D73	Toolholder (Turning)
PRGN%L ○○○○□-○○	D47	Toolholder (Turning)
PRXC%L ○○-○○□□	D46	Toolholder (Turning)
PRXC%L ○○○○□-○○	D46	Toolholder (Turning)
PSBN%L ○○○○□-○○	D21	Toolholder (Turning)
PSDNN ○○○○□-○○	D22	Toolholder (Turning)
PSKN%L ○○○○□-○○	D23	Toolholder (Turning)
PSSN%L ○○○○□-○○	D23	Toolholder (Turning)
P-ST-RC1/8	H17	Coolant Coupler
PTFN%L ○○-○□	D29	Toolholder (Turning)
PTFN%L ○○○○□-○○	D29	Toolholder (Turning)
PTGN%L ○○-○□	D28	Toolholder (Turning)
PTGN%L ○○○○□-○○	D28	Toolholder (Turning)
PTLNR ○○○○JX-○○FF	E68	Toolholder (for Small Double-Sided Tools)
PVLN%L ○○○○□-○○Q	D43	Toolholder (Turning)
PVPN%L ○○○○□-○○Q	D43	Toolholder (Turning)
PVVNN ○○○○□-○○Q	D44	Toolholder (Turning)
PWLN%L ○○-○□	D50	Toolholder (Turning)
PWLN%L ○○○○□-○○	D50	Toolholder (Turning)
<b>Q</b>		
<b>R</b>		
R ○○-(R)(-SET)	M313	Cartridge Set (API Ring Groover)
R ○○-SET	M313	Cartridge Set (API Ring Groover)
RBG ○○K○○○○○	B123	Insert (Turning)
RCGX ○○○○M0-AQ	B81	Insert (Turning)
RCGX ○○○○○○	B123	Insert (Turning)
RCGX ○○○H○○○T○○○○○	B123	Insert (Turning)
RCGX ○○(○)S○○○○○	B123	Insert (Turning)
RCGX ○○(○)T○○○○○	B123	Insert (Turning)
RCGX ○○○T○○○○○○○○○AA	B123	Insert (Turning)
RCMA ○○(○)T○○○○○○○○○AA	B123	Insert (Turning)
RCMT ○○○○M0-BB	B109	Insert (Turning)
RCMT ○○○SR	B81	Insert (Turning)
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RDGT ○○○MOER-SM	M291	Insert (Milling) MRX
RDHX ○○(□)○(○)MOT	M323	Insert (Milling)
RDMT ○○TOMO-H	M323	Insert (Milling)
RDMT ○○○MOEN-GH	M291	Insert (Milling) MRX
RDMT ○○○MOER-GM	M291	Insert (Milling) MRX
RNG ○○E○○○	B116	Insert (Turning)
RNG ○○K○○○○○	B116	Insert (Turning)
RNG ○○S○○○○○	B116	Insert (Turning)
RNG ○○T○○○○○	B116	Insert (Turning)
RNG ○○T○○○○○AA	B116	Insert (Turning)
RNM ○○	C17	Insert (Turning)
RNMG ○○	B33	Insert (Turning)
ROMU ○○○MOER-GH	M281	Insert (Milling) MRW
ROMU ○○○MOER-GM	M281	Insert (Milling) MRW
ROMU ○○○MOER-SM	M281	Insert (Milling) MRW
RPG ○○E○○○	B120	Insert (Turning)
RPG ○○T○○○○○	B120	Insert (Turning)
RPGT ○○(□)○(○)MOER-GM	M291	Insert (Milling) MRX
RPGT ○○(□)○(○)MOER-SM	M291	Insert (Milling) MRX
RPGX ○○E○○○	B123	Insert (Turning)
RPGX ○○T○○○○○	B123	Insert (Turning)
RPMT ○○(□)○(○)M0	M313	Insert (Milling)
RPMT ○○(○)○(○)M0-BB	B109	Insert (Turning)
RPMT ○○(□)○(○)MOEN-GH	M291	Insert (Milling) MRX
RPMT ○○(□)○(○)MOER-GM	M291	Insert (Milling) MRX
RPMT ○○○M0-H	M323	Insert (Milling)
RPMW ○○○M0TN	M291	Insert (Milling) MRX
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S○○○- DRV○○○○○-○○	K50~K54	Toolholder (Drilling) DRV Magic Drill
S○○- DRV○○○M-○-○○	K56~K64	Toolholder (Drilling) DRV Magic Drill
S○○- DRZ○○○○○(○)○-○○	K86~K92	Toolholder (Drilling) DRZ Magic Drill
S○○(○)- DRZ○○○○○(○)○(○)○-○○	K80~K85	Toolholder (Drilling) DRZ Magic Drill
S○○□- CELN○○-○○	F167	Boring Bars
S○○□- CSKPR○○-○○	F130	Boring Bars
S○○□- CTUN%○○-○○A	F168	Boring Bars
S○○□- CTUP%○	F131	Boring Bars
S○○□- CTUP%○○-○○	F131	Boring Bars
S○○(○)□- KGBFL16	G24	Sleeve Holder (Grooving)
S○○(○)□- KTNL16	J25	Sleeve Holder (Threading)
S○○(○)□- KITXL16	J39	Sleeve Holder (Threading)
S○○□- PCLN%○	F148	Boring Bars

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S○○□- PDQN%15-○○	F155	Boring Bars
S○○□- PDUN%11-○○	F150	Boring Bars
S○○□- PDUN%15-○○	F154	Boring Bars
S○○□- PDZN%15-○○	F156	Boring Bars
S○○□- PTUN%○○-○○	F160	Boring Bars
S○○□- PWLN%○○-○○	F162	Boring Bars
S○○(○)□- SCLC○○	E58	Sleeve Holder (Turning)
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S○○□- SCLC%○	F67	Boring Bars (General Purpose)
S○○□- SCLC%○.○E	F66	Boring Bars (General Purpose)
S○○□- SCLC%○○-○○AE	F62	Boring Bars (Dynamic Bar)
S○○○□- SCLC○○-○○ECP	F33	Boring Bars (EZ Bar PLUS)
S○○□- SCLP%○(○)	F72	Boring Bars (General Purpose)
S○○□- SCLP%○○-○○A	F70	Boring Bars (Dynamic Bar)
S○○(○)□- SDLC○○	E60	Sleeve Holder (Turning)
S○○□- SDQC%○○-○○A	F79	Boring Bars (Dynamic Bar)
S○○(○)□- SDUC○○	E59	Sleeve Holder (Turning)
S○○□- SDUC%○	F86	Boring Bars (General Purpose)
S○○□- SDUC%○○-○○A	F75	Boring Bars (Dynamic Bar)
S○○□- SDZC%○	F87	Boring Bars (General Purpose)
S○○□- SDZC%○○-○○A	F83	Boring Bars (Dynamic Bar)
S○○□- SINR-○	J26	Toolholder (Threading)
S○○□- SSKPR○○-○○	F129	Boring Bars (General Purpose)
S○○□- STLB%○.○AE	F90	Boring Bars (Dynamic Bar)
S○○□- STLB%○○-○○A	F91	Boring Bars (Dynamic Bar)
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S○○○□- STLB○○-○○ECP	F35	Boring Bars (EZ Bar PLUS)
S○○□- STLC%○○-○○A	F101	Boring Bars (Dynamic Bar)
S○○□- STLP%○○-○○A	F91	Boring Bars (Dynamic Bar)
S○○○□- STLPR○○-○○ECP	F35	Boring Bars (EZ Bar PLUS)
S○○□- STUB%○.○	F94	Boring Bars (General Purpose)
S○○□- STUP%○(○)	F94	Boring Bars (General Purpose)
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S○○□- STWP%○	F97, J51	Toolholder (Boring / Threading)
S○○□- STWP%○○-○○	F97, J51	Toolholder (Boring / Threading)
S○○□- STWP%○○-○○E	F97, J51	Toolholder (Boring / Threading)
S○○(○)□- STWR15	F59	Toolholder (for Twin Bars)
S○○□- SVJB%○	F112	Boring Bars (General Purpose)
S○○□- SVJB%○○-○○A	F103	Boring Bars (Dynamic Bar)
S○○□- SVJC%○○-○○A	F103	Boring Bars (Dynamic Bar)
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SO○□- SVPB%○OE	F113	Boring Bars (General Purpose)
SO○□- SVPC%○○-○OA	F106	Boring Bars (Dynamic Bar)
SO○(○)□- SVUBLO○	E62	Sleeve Holder (Turning)
SO○□- SVUB%○○-○OA	F108	Boring Bars (Dynamic Bar)
SO○□- SVUB%○OE	F113	Boring Bars (General Purpose)
SO○(○)□- SVUCL○	E63	Sleeve Holder (Turning)
SO○□- SVUC%○○-○OE	F113	Boring Bars (General Purpose)
SO○□- SVUC%○○-○OA	F108	Boring Bars (Dynamic Bar)
SO○□- SVZB%○OE	F114	Boring Bars (General Purpose)
SO○□- SVZB%○○-○OA	F111	Boring Bars (Dynamic Bar)
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SO○□- SWUB%○○-○	F120	Boring Bars (General Purpose)
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SCLC%  ○○○○□-○○	E29	Toolholder (Turning)
SCLC%  ○○-○JXFF	E27	Toolholder (Turning)
SCLC%  ○○○○□(□)-○○FF	E27	Toolholder (Turning)
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SCMT  ○○○○HQ	B82	Insert (Turning)
SCMT  ○○○○○-GH-E	K47	Insert (Drilling) DRV Magic Drill
SCMT  ○○○○○-GH-I	K49	Insert (Drilling) DRV Magic Drill
SCMT  ○○○○○-GM-E	K47	Insert (Drilling) DRV Magic Drill
SCMT  ○○○○○-GM-I	K49	Insert (Drilling) DRV Magic Drill
SCMT  ○○○○○-SM-E	K47	Insert (Drilling) DRV Magic Drill
SCMT  ○○○○○-SM-I	K49	Insert (Drilling) DRV Magic Drill
SCMT  ○○○○○-XM-E	K47	Insert (Drilling) DRV Magic Drill
SCMT  ○○○○○-XM-I	K49	Insert (Drilling) DRV Magic Drill
SCR-01	P7	Spare Parts (Screw)
SCR-03	P7	Spare Parts (Screw)
SCR-04	P7	Spare Parts (Screw)

Part Number	Page	Description
SCR-05	P7	Spare Parts (Screw)
SCR-16	P7	Spare Parts (Screw)
SCR-30	P7	Spare Parts (Screw)
SDJC%  ○(○)-○□(□)	E33	Toolholder (Turning)
SDJC%  ○○○○□-○○	E33	Toolholder (Turning)
SDJCR  ○○(○)-○JX-FO	E23	Toolholder (Goose-neck Holder)
SDJCR  ○○○○JX-○○-FO○	E23	Toolholder (Goose-neck Holder)
SDJC%  ○(○)-○JXFF	E31	Toolholder (Turning)
SDJC%  ○○○○□(□)-○○FF	E31	Toolholder (Turning)
SDJCR  ○○(○)-○□□JCTM	E32	Toolholder (Turning)
SDJCR  ○○○○JX-○○FFJCTM	E32	Toolholder (Turning)
SDJCR  ○○○○JX-○○-FO○JCTM	E32	Toolholder (Turning)
SDJCR  ○○○○□□-○○FF-Y	E34	Toolholder (Turning)
SDKN  ○○AUFN	C62, M318, M322	Insert (Milling)
SDKN  ○○AUTN	M318	Insert (Milling)
SDKR  ○○AUEN-S	M318	Insert (Milling)
SDKW  ○○○○AESN	M323	Insert (Milling)
SDKW  ○○○○AETN	M323	Insert (Milling)
SDKW  ○○(□)○○○○FN	M300	Insert (Milling) MCSE
SDKW  ○○(□)○○○○TN	M300	Insert (Milling) MCSE
SDLC%  ○(○)-○JXFF	E36	Toolholder (Turning)
SDLC%  ○○○○□(□)-○○FF	E36	Toolholder (Turning)
SDLNR  ○(○)-○.○□F	E65	Toolholder (for Small Double-Sided Tools)
SDLNR  ○○○○□-○○FF	E65	Toolholder (for Small Double-Sided Tools)
SDLP%  ○○○○□(□)-○○FF	E39	Toolholder (Turning)
SDMR  ○○AUER-H	M318	Insert (Milling)
SDMT  ○○.○○C	M290	Insert (Milling) MCSE
SDMT  ○○○○AESR-H	M323	Insert (Milling)
SDMT  ○○○○(○)(○)E-K	M306	Insert (Milling) METS
SDMT  ○○○E-K	M306	Insert (Milling) METS
SDNCN  ○(○)-○JX	E37	Toolholder (Turning)
SDNCN  ○○○○□(□)-○○	E37	Toolholder (Turning)
SDXC%  ○○○○JX-○○	E36	Toolholder (Turning)
SE-3070TRP	P7	Spare Parts (Screw)
SE-40050TRN	P7	Spare Parts (Screw)
SE-40055TR	P7	Spare Parts (Screw)
SE-40068TR	P7	Spare Parts (Screw)
SE-40080TR	P7	Spare Parts (Screw)
SE-40090TR	P7	Spare Parts (Screw)
SE-40100TR	P7	Spare Parts (Screw)
SE-40120TR	P7	Spare Parts (Screw)
SE-50125TR	P7	Spare Parts (Screw)
SEC  ○○○	M318	Insert (Milling)
SEEN  ○○AFFN	C62, M322	Insert (Milling)

INSERT GRADES	A
TURNING INSERTS	B
CBN/PCD INSERTS	C
TURNING HOLDERS	D
SMALL TOOLS	E
BORING	F
GROOVING	G
CUT-OFF	H
THREADING	J
DRILLING	K
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SPARE PARTS	P
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Part Number	Page	Description
SEEN ○○AFRR-W	M318	Insert (Milling)
SEEN ○○AFTN	M318	Insert (Milling)
SEEN ○○AFTR-W	M318	Insert (Milling)
SEET ○○TOAGFN-AL	M42	Insert (Milling) MFSE45
SEET ○○TOAGSN-GL	M42	Insert (Milling) MFSE45
SEET ○○TOAGSN-SL	M42	Insert (Milling) MFSE45
SEKN ○○AFFN	M318	Insert (Milling)
SEKN ○○AFTN	M318	Insert (Milling)
SEKN ○○EFTR	M318	Insert (Milling)
SEKR ○○AFEN-S	M318	Insert (Milling)
SEKT ○○AFEN-S	M323	Insert (Milling)
SEKW ○○AFTN	M323	Insert (Milling)
SEKW ○○○FN	M300	Insert (Milling) MCSE
SEKW ○○○TN	M300	Insert (Milling) MCSE
SEMR ○○AFER-H	M318	Insert (Milling)
SEMT ○○○C	M300	Insert (Milling) MCSE
SFO○- DRA○○○M-○(○)	K26-K30	Toolholder (Drilling) DRA Magic Drill
SFO○○- DRA○○○M-○(○)	K18-K21	Toolholder (Drilling) DRA Magic Drill
SF%L- ○○○(○)□	G144	Blade (Face Grooving)
SF22F- SH20-○□(-HA)	E71	Sub-Spindle Holders
SH ○○○○-○○○	F172	Sleeve (for Boring Bar)
SHA ○○○○(○)-○○○	F171	Sleeve
SHC ○○○○-○○	F172	Coolant Sleeve (for Boring Bar)
SHE ○○○○-○○	K74	Adjustable Sleeve (Drilling) for Magic Drill (DRV / DRZ)
SHEM ○○○○-○○	F144	Anti-Vibration Boring Bar Sleeve
SHS ○○○○N-○○	F144	Anti-Vibration Boring Bar Sleeve
SHS ○○○○-○○	F144	Anti-Vibration Boring Bar Sleeve
SIGC%L ○○○○-EH	G80	Toolholder (Grooving)
SIGC%L ○○○○-WH	G81	Toolholder (Grooving)
SIGC%L ○○○○-WH-L○○(○)	G81	Toolholder (Grooving)
SIGE%L ○○EH	G86	Toolholder (Grooving)
SIGE%L ○○○○□-EH	G86	Toolholder (Grooving)
SIGE%L ○○○○□-WH	G87	Toolholder (Grooving)
SIGER ○○○○□-WH-90	G88	Toolholder (Grooving / for Small Tools)
SIN%L ○○○○S-○○	J26	Toolholder (Threading)
SIN%L ○○○○S-○○E	J26	Toolholder (Threading)
SJS- ○	F173	Coolant Joint
SL- ○(○-○○)	F172	Sleeve (for Boring Bar)
SLT ○○-○○KB	M268	Insert (Slot Milling) MSTA
SLT ○○-○○KD	M268	Insert (Slot Milling) MSTA
SNCN ○○XNTN	M320	Insert (Milling)
SNEU ○○○○ANEN-W	M18	Insert (Milling) MB45
SNEU ○○○○ANER-GM	M18	Insert (Milling) MB45
SNEU ○○○○ANER-SM	M18	Insert (Milling) MB45

Part Number	Page	Description
SNEU ○○○○ANFR-AM	M18	Insert (Milling) MB45
SNG ○○○○S○○○○○	B117	Insert (Turning)
SNG ○○○TO○○○○○	B117	Insert (Turning)
SNG ○○○TO○○○○○AA	B117	Insert (Turning)
SNGA ○○○	B37	Insert (Turning)
SNGA ○○○MEF	C12	Insert (Turning)
SNGA ○○○S○○○○○	B117	Insert (Turning)
SNGA ○○○S○○○○○ME	C12	Insert (Turning)
SNGA ○○○S○○○○○MEH	C12	Insert (Turning)
SNGA ○○○S○○○○○MEP	C12	Insert (Turning)
SNGA ○○○S○○○○○MET	C12	Insert (Turning)
SNGA ○○○TO○○○○○	B117	Insert (Turning)
SNGA ○○○TO○○○○○AA	B117	Insert (Turning)
SNGG ○○○L-25R	B37	Insert (Turning)
SNGG ○○○L-B/C	B37	Insert (Turning)
SNGG ○○○R-25R	B37	Insert (Turning)
SNGG ○○○R-B/C	B37	Insert (Turning)
SNKN ○○XNTN	M320	Insert (Milling)
SNM ○○○	B38, C18, M320	Insert (Turning / Milling)
SNM ○○○TO○○○○○	B117	Insert (Turning)
SNMA ○○○	B37	Insert (Turning)
SNMA ○○○TO○○○○○AA	B117	Insert (Turning)
SNMF ○○○○○○-21	B109	Insert (Turning)
SNMF ○○XNTN	M320	Insert (Milling)
SNMG ○○○	B34	Insert (Turning)
SNMG ○○○C	B36	Insert (Turning)
SNMG ○○○(○)GC	B37	Insert (Turning)
SNMG ○○○HQ	B34	Insert (Turning)
SNMG ○○○KG	B36	Insert (Turning)
SNMG ○○○KH	B36	Insert (Turning)
SNMG ○○○L-C	B37	Insert (Turning)
SNMG ○○○MQ	B36	Insert (Turning)
SNMG ○○○MS	B36	Insert (Turning)
SNMG ○○○MU	B36	Insert (Turning)
SNMG ○○○PMG	B34	Insert (Turning)
SNMG ○○○PG	B34	Insert (Turning)
SNMG ○○○PH	B35	Insert (Turning)
SNMG ○○○PQ	B34	Insert (Turning)
SNMG ○○○PS	B34	Insert (Turning)
SNMG ○○○PT	B34	Insert (Turning)
SNMG ○○○R-C	B37	Insert (Turning)
SNMG ○○○SG	B36	Insert (Turning)
SNMG ○○○XP	B35	Insert (Turning)
SNMG ○○○XQ	B35	Insert (Turning)
SNMG ○○○XS	B35	Insert (Turning)

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SNMG ○○○ZS	B37	Insert (Turning)
SNMM ○○○PX	B35	Insert (Turning)
SNMU ○○○○○EN-GH	M162	Insert (Milling) MFSN88
SNMU ○○○○○EN-GM	M162	Insert (Milling) MFSN88
SNMU ○○○○○EN-SM	M162	Insert (Milling) MFSN88
SNMU ○○○ANER-GH	M18	Insert (Milling) MB45
SNMU ○○○ANER-GM	M18	Insert (Milling) MB45
SOMT ○○○○○ER-FL	M233	Insert (Milling) MFH
SOMT ○○○○○ER-GH	M233	Insert (Milling) MFH
SOMT ○○○○○ER-GM	M233	Insert (Milling) MFH
SOMT ○○○○○ER-LD	M233	Insert (Milling) MFH
SP-2D	P23	Spare Parts (Spring)
SP-3D	P23	Spare Parts (Spring)
SP-5	P23	Spare Parts (Spring)
SP-5D	P23	Spare Parts (Spring)
SP-6	P23	Spare Parts (Spring)
SP3X6	P7	Spare Parts (Screw)
SP3X8	P7	Spare Parts (Screw)
SP3X10	P7	Spare Parts (Screw)
SP4X9	P7	Spare Parts (Screw)
SP8X35	P7	Spare Parts (Screw)
SP-129	P11	Spare Parts (Shim)
SP-130A	P12	Spare Parts (Shim)
SP-141	P11	Spare Parts (Shim)
SP-141P	P12	Spare Parts (Shim)
SP-143	P11	Spare Parts (Shim)
SP-143P	P12	Spare Parts (Shim)
SP-148	P11	Spare Parts (Shim)
SP-162	P11	Spare Parts (Shim)
SP-210A	P12	Spare Parts (Shim)
SP-219	P11	Spare Parts (Shim)
SP-221	P11	Spare Parts (Shim)
SP-223	P11	Spare Parts (Shim)
SP-230P	P12	Spare Parts (Shim)
SP-341P	P12	Spare Parts (Shim)
SP-342	P11	Spare Parts (Shim)
SP-420A	P12	Spare Parts (Shim)
SP-429	P12	Spare Parts (Shim)
SP-441	P11	Spare Parts (Shim)
SP-441P	P12	Spare Parts (Shim)
SP-443	P11	Spare Parts (Shim)
SP-454	P11	Spare Parts (Shim)
SP-521	P12	Spare Parts (Shim)
SP-521P	P12	Spare Parts (Shim)
SP-826	P12	Spare Parts (Shim)

Part Number	Page	Description
SP-829	P12	Spare Parts (Shim)
SP-841	P12	Spare Parts (Shim)
SP-843	P12	Spare Parts (Shim)
SP-849	P12	Spare Parts (Shim)
SP-861	P12	Spare Parts (Shim)
SPCN ○○EDTR	M319	Insert (Milling)
SPCN ○○EETR1	M319	Insert (Milling)
SPCN ○○XPTR	M319	Insert (Milling)
SPEN ○○EER	M319	Insert (Milling)
SPEN ○○EESR	M319	Insert (Milling)
SPG ○○○	B83, C43, M319	Insert (Turning / Milling)
SPG ○○○NE	C43	Insert (Turning / Milling)
SPG ○○○T○○○○○AA	B121	Insert (Turning)
SPG ○○○T○○○○○	B121	Insert (Turning)
SPGH ○○○L	B82	Insert (Turning)
SPGR ○○○%L	B83	Insert (Turning)
SPKN ○○EDER	M319	Insert (Milling)
SPKN ○○EDFR	M319	Insert (Milling)
SPKN ○○EDT%L	M319	Insert (Milling)
SPKN ○○XETR	M319	Insert (Milling)
SPKN ○○XPFR	M319	Insert (Milling)
SPKN ○○XPTR	M319	Insert (Milling)
SPKR ○○EDER-S	M319	Insert (Milling)
SPM ○○○	B83, M319	Insert (Turning / Milling)
SPMR ○○○	B83	Insert (Turning / Milling)
SPMR ○○○G	B83	Insert (Turning / Milling)
SPMR ○○EDER-H	M319	Insert (Milling)
SPMT ○○○○EDER-NB○	M66	Insert (Milling) MSRS15
SPMT ○○○○EDER-NB○P	M66	Insert (Milling) MSRS15
SPMT ○○○○EDER-V	M66	Insert (Milling) MSRS15
SPMT ○○○○EDSR-NB○T	M66	Insert (Milling) MSRS15
SPMT ○○○○○EN-GM	M303	Insert (Milling) MEF
SPMT ○○○○○EN-NB○	M174	Insert (Milling) MSRS90
SPMT ○○○○○EN-NB○P	M174	Insert (Milling) MSRS90
SPMT ○○○○○EN-V	M174	Insert (Milling) MSRS90
SPMT ○○○○○E-Z	M303	Insert (Milling) MEF
SP-RC	P13	Spare Parts (Shim)
SPW-5035	P7	Spare Parts (Screw)
SPW-6045	P7	Spare Parts (Screw)
SPW-7050	P7	Spare Parts (Screw)
SRCP%L ○○○○B-○○-A○○	F132	Boring Bar (for Bearing Machining)
SS-4N	P7	Spare Parts (Shim Screw)
SS○○- DRA○○○M-○(,○)	K31~K34	Toolholder (Drilling) DRA Magic Drill
SS○○○○- DRA○○○M-○(,○)	K22~K25	Toolholder (Drilling) DRA Magic Drill
STGC%L ○○○○□-○○	E40	Toolholder (Turning)

INSERT GRADES	A
TURNING INSERTS	B
CBN/PCD INSERTS	C
TURNING HOLDERS	D
SMALL TOOLS	E
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GROOVING	G
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TCGT	○○○(○)℥-A3	B87 Insert (Turning)
TCGW	○○○(○)(○)(○)	B87 Insert (Turning)
TCGW	○○○(○)NE	C45 Insert (Turning)
TCGW	○○○(○)SE	C45 Insert (Turning)
TCMT	○○○○(○)(○)	C45 Insert (Turning)
TCMT	○○○○○HP	K110 Insert (Drilling) Counterbore
TCMT	○○○○(○)(○)HQ	B85, K110, K112 Insert (Turning/Drilling) Counterbore/Countersink
TCMT	○○○(○)(○)(○)NE	C45 Insert (Turning)
TCMT	○○○(○)SE	C45 Insert (Turning)
TCMX	○○○○(○)WP	B85 Insert (Turning)
TEEN	○OPTFR	C62, M322 Insert (Milling)
TEEN	○OPTFR-NE	C62, M322 Insert (Milling)
TEEN	○PTTR	M321 Insert (Milling)
TEKN	○OPTFR	C62, M321 Insert (Milling)
TEKN	○OPTFR-NE	C62, M322 Insert (Milling)
TEKN	○PTTR	M321 Insert (Milling)
TEKR	○PTFR-S	M321 Insert (Milling)
TEMR	○PTFR-H	M321 Insert (Milling)
TH-4		P21 Spare Parts (Hexagon Wrench / T-shaped Type)
TH8X15		P7 Spare Parts (Screw)
TKN	○(○)	H64 Insert (Cut-Off)
TKN	○(○)-P	H64 Insert (Cut-Off)
TK℥	○(○)	H64 Insert (Cut-Off)
TK℥	○(○)-P	H64 Insert (Cut-Off)
TKF	○○R○○-AGT	C57, E14 Insert (Grooving / Turning)
TKF	○○℥○○-AS	C57, E14 Insert (Grooving / Turning)
TKF	○○℥○○-GTP	B111, E12 Insert (Grooving / Turning)
TKF	○○℥○○-NB	C57, E14, H6, H8 Insert (Grooving / Turning)
TKF	○○℥○○-NB-○○DR	H7, H8 Insert (Cut-Off)
TKF	○○℥○○-S	H6, H8 Insert (Cut-Off)
TKF	○○℥○○-S-○○DR	H6, H8 Insert (Cut-Off)
TKF	○○℥○○-T	H6, H8 Insert (Cut-Off)
TKF	○○℥○○-T-○○DR	H6, H8 Insert (Cut-Off)
TKFB	○○L○○○○MR	B110, E12 Insert (Back Turning)
TKFB	○○R○○○○-GQ	B110, E12 Insert (Back Turning)
TKFB	○○R○○○○P-GQ	B110, E12 Insert (Back Turning)
TKFB	○○R○○○○M	B110, E12 Insert (Back Turning)
TKFT	12℥○○○○(○)	J28 Insert (Threading)
TN-32		P13 Spare Parts (Shim)
TN-43		P13 Spare Parts (Shim)
TNEG	○○○(○)℥-SSF	B45 Insert (Turning)
TNG	○○○S○○○○○	B118 Insert (Turning)
TNG	○○○T○○○○○	B118 Insert (Turning)
TNG	○○○T○○○○○AA	B118 Insert (Turning)

Part Number	Page	Description
TNGA	○○○	B44 Insert (Turning)
TNGA	○○○MEF	C13 Insert (Turning)
TNGA	○○○ME6	C13 Insert (Turning)
TNGA	○○○S○○○○○	B118 Insert (Turning)
TNGA	○○○(○)S○○○○○ME	C13 Insert (Turning)
TNGA	○○○S○○○○○MEH	C13 Insert (Turning)
TNGA	○○○S○○○○○MEP	C13 Insert (Turning)
TNGA	○○○S○○○○○MET	C13 Insert (Turning)
TNGA	○○○T○○○○○	B118 Insert (Turning)
TNGA	○○○T○○○○○AA	B118 Insert (Turning)
TNGG	○○○AH	B44 Insert (Turning)
TNGG	○○○FP-TK	B42 Insert (Turning)
TNGG	○○○(○)L	B46 Insert (Turning)
TNGG	○○○L-25R	B46 Insert (Turning)
TNGG	○○○L-A3	B44 Insert (Turning)
TNGG	○○○(○)L-B	B45 Insert (Turning)
TNGG	○○○(○)L-C	B46 Insert (Turning)
TNGG	○○○(○)L-S	B45 Insert (Turning)
TNGG	○○○(○)M-SK	B42 Insert (Turning)
TNGG	○○○(○)MFP-SK	B42 Insert (Turning)
TNGG	○○○TK	B42 Insert (Turning)
TNGG	○○○(○)R	B46 Insert (Turning)
TNGG	○○○R-25R	B46 Insert (Turning)
TNGG	○○○R-A3	B44 Insert (Turning)
TNGG	○○○(○)R-B	B45 Insert (Turning)
TNGG	○○○(○)R-C	B46 Insert (Turning)
TNGG	○○○(○)R-S	B45 Insert (Turning)
TNGU	○○○○(○)MER-U	B57 Insert (Turning)
TNGU	○○○○(○)(○)MFR-F	B57 Insert (Turning)
TNGU	○○○○(○)(○)MFR-U	B57 Insert (Turning)
TNM	○○○	C19 Insert (Turning)
TNMA	○○○	B44 Insert (Turning)
TNMG	○○○	B40 Insert (Turning)
TNMG	○○○AH	B44 Insert (Turning)
TNMG	○○○C	B43 Insert (Turning)
TNMG	○○○CQ	B39 Insert (Turning)
TNMG	○○○GC	B43 Insert (Turning)
TNMG	○○○(○)GP	B39 Insert (Turning)
TNMG	○○○GS	B40 Insert (Turning)
TNMG	○○○GT	B40 Insert (Turning)
TNMG	○○○HQ	B39 Insert (Turning)
TNMG	○○○KG	B43 Insert (Turning)
TNMG	○○○KH	B43 Insert (Turning)
TNMG	○○○KQ	B43 Insert (Turning)

INSERT GRADES	A
TURNING INSERTS	B
CBN/PCD INSERTS	C
TURNING HOLDERS	D
SMALL TOOLS	E
BORING	F
GROOVING	G
CUT-OFF	H
THREADING	J
DRILLING	K
MILLING	M
QUICK CHANGE TOOLING	N
SPARE PARTS	P
TECHNICAL	R
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# Part Number Index

## Part Numbers in Alphanumeric Order

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Part Number	Page	Description
TNMG ○○○L-ST	B43	Insert (Turning)
TNMG ○○○MQ	B42	Insert (Turning)
TNMG ○○○MS	B42	Insert (Turning)
TNMG ○○○MU	B42	Insert (Turning)
TNMG ○○○PG	B40	Insert (Turning)
TNMG ○○○PH	B41	Insert (Turning)
TNMG ○○○PMG	B40	Insert (Turning)
TNMG ○○○(○)PP	B39	Insert (Turning)
TNMG ○○○PQ	B39	Insert (Turning)
TNMG ○○○PS	B40	Insert (Turning)
TNMG ○○○PT	B40	Insert (Turning)
TNMG ○○○(○)R-LD	B42	Insert (Turning)
TNMG ○○○R-ST	B43	Insert (Turning)
TNMG ○○○SG	B43	Insert (Turning)
TNMG ○○○TK	B42	Insert (Turning)
TNMG ○○○XF	B41	Insert (Turning)
TNMG ○○○XP	B41	Insert (Turning)
TNMG ○○○XQ	B41	Insert (Turning)
TNMG ○○○XS	B41	Insert (Turning)
TNMG ○○○ZS	B43	Insert (Turning)
TNMM ○○○(○)JM	C36	Insert (Turning)
TNMM ○○○(○)JM-NE	C36	Insert (Turning)
TNMM ○○○(○)JM-SE	C36	Insert (Turning)
TNMM ○○○PX	B41	Insert (Turning)
TNMX ○○○WF	B39	Insert (Turning)
TNW-32	P13	Spare Parts (Shim)
TOMT ○○○○○ER-GM	M123	Insert (Milling) MEV
TOMT ○○○○○ER-SM	M123	Insert (Milling) MEV
TP ○○○	B92	Insert (Turning)
TPB- T(○)IPx65	P22	Wrench Bit Set (DTD500)
TPB- T(○)IPx110	P22	Wrench Bit Set (DTD500)
TPC 32P4R	M321	Insert (Milling)
TPEH ○○○(○)(○)(○)M%L -P	B92	Insert (Turning)
TPET ○○○(○)(○)F%L -USF	B94	Insert (Turning)
TPET ○○○(○)(○)M%L -USF	B94	Insert (Turning)
TPET ○○○(○)(○)M%L -FSF	B92	Insert (Turning)
TPET ○○○(○)(○)%L -FSF	B92	Insert (Turning)
TPG ○○○(○)(○)(○)	B96, C48, M185, M321, M322	Insert (Turning / Milling)
TPG ○○○NE	C48	Insert (Turning / Milling)
TPG ○○○(○)SE	C48	Insert (Turning / Milling)
TPG ○○○S○○○○○SET	C25	Insert (Turning)
TPG ○○○(○)(○)T○○○○○	B122	Insert (Turning)
TPG ○○○(○)(○)T○○○○○AA	B122	Insert (Turning)
TPG ○○○(○)T○○○○○ME	C25	Insert (Turning)

Part Number	Page	Description
TPG ○○○(○)T○○○○○SE	C25	Insert (Turning)
TPGB ○○○(○)(○)(○)	B94, C46, J50	Insert (Turning / Threading)
TPGB ○○○MEF	C23	Insert (Turning)
TPGB ○○○(○)(○)(○)NE	C46	Insert (Turning)
TPGB ○○○(○)(○)(○)SE	C46	Insert (Turning)
TPGB ○○○S○○○○○MES	C23	Insert (Turning)
TPGB ○○○(○)S○○○○○MET	C23	Insert (Turning)
TPGB ○○○(○)(○)(○)S○○○○○SET	C23	Insert (Turning)
TPGB ○○○(○)T○○○○○ME	C23	Insert (Turning)
TPGB ○○○(○)(○)(○)T○○○○○SE	C23	Insert (Turning)
TPGH ○○○(○)(○)(○)M%L	B91	Insert (Turning)
TPGH ○○○(○)ML-H	B93	Insert (Turning)
TPGH ○○○(○)(○)(○)%L	B90	Insert (Turning)
TPGH ○○○(○)(○)(○)%L -H	B93	Insert (Turning)
TPGR ○○○(○)%L -A/B/C	B96	Insert (Turning)
TPGR ○○○○○(○)%L -F	B96	Insert (Turning)
TPGT ○○○(○)(○)AP	B94	Insert (Turning)
TPGT ○○○○○CF	B88	Insert (Turning)
TPGT ○○○(○)L-H	B93	Insert (Turning)
TPGT ○○○○○(○)MFP-PF	B88	Insert (Turning)
TPGT ○○○○○MP-CF	B88	Insert (Turning)
TPGW ○○○S○○○○○MET	C24	Insert (Turning)
TPGW ○○○T○○○○○ME	C24	Insert (Turning)
TPGW ○○○T○○○○○SE	C24	Insert (Turning)
TPK ○○PDR	M185, M321	Insert (Milling) MTP90
TPK ○○PDTR	M185, M321	Insert (Milling) MTP90
TPKR ○○PDER-S	M185, M321	Insert (Milling) MTP90
TPM ○○○	B96, M185, M321	Insert (Turning / Milling)
TPMH ○○○(○)(○)(○)	C47	Insert (Turning)
TPMH ○○○(○)(○)(○)NE	C47	Insert (Turning)
TPMH ○○○(○)(○)(○)SE	C47	Insert (Turning)
TPMR ○○○	B95	Insert (Turning)
TPMR ○○○DP	B95	Insert (Turning)
TPMR ○○○(○)(○)(○)G	B95	Insert (Turning)
TPMR ○○○GP	B95	Insert (Turning)
TPMR ○○○HQ	B95	Insert (Turning)
TPMR ○○PDER-H	M185, M321	Insert (Milling) MTP90
TPMT ○○○(○)APD	C47	Insert (Turning)
TPMT ○○○(○)(○)(○)GP	B89	Insert (Turning)
TPMT ○○○(○)(○)(○)HQ	B89	Insert (Turning)
TPMT ○○○(○)(○)(○)PP	B88	Insert (Turning)
TPMT ○○○(○)(○)XP	B89	Insert (Turning)
TPMT ○○○XQ	B89	Insert (Turning)
TPMX ○○○(○)(○)(○)WP	B88	Insert (Turning)

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Part Number	Page	Description
TPMX ○○○%L-WP	B88	Insert (Turning)
TS-3S	P8	Spare Parts (Lock Pin)
TT-15	P21	Spare Parts (Torx Wrench / T-shaped Type)
TT-25	P21	Spare Parts (Torx Wrench / T-shaped Type)
TT-25L	P21	Spare Parts (Torx Wrench / T-shaped Type)
TT-30	P21	Spare Parts (Torx Wrench / T-shaped Type)
TT 43ER○○○M	J40	Insert (Threading)
TT ○○%L○○○○	J40, J42	Insert (Threading)
TTC-20	P21	Spare Parts (Torx Wrench / T-shaped Type)
TTC-25	P21	Spare Parts (Torx Wrench / T-shaped Type)
TTP-20	P21	Spare Parts (Torx Plus Wrench / T-shaped Type)
TTW-15	P21	Spare Parts (Torx Wrench / T-shaped Type)
TTX 32R○○○○○(○)	J38	Insert (Threading)
TTX 32R○○○○○(○)S	J38	Insert (Threading)
TWBR ○○○○-○○○	F58	Twin Bars (Boring)
TWBTR ○○○○-○○○	F60	Twin Bars (Boring)
TWFG L ○○○	G102	Twin Bars (Face Grooving)
TWFGTR ○○○	G104	Twin Bars (Face Grooving)
<b>U</b>		
<b>V</b>		
VBET ○○○○(○)M%L-F	B98	Insert (Turning)
VBET ○○○○(○)M%L-FSF	B98	Insert (Turning)
VBET ○○○○(○)M%L-FSF	B98	Insert (Turning)
VBET ○○○○(○)M%L-Y	B99	Insert (Turning)
VBGT ○○○○(○)FN-Z	B98	Insert (Turning)
VBGT ○○○○(○)M%L-F	B98	Insert (Turning)
VBGT ○○○○(○)M%L-Y	B99	Insert (Turning)
VBGT ○○○○%L-F	B98	Insert (Turning)
VBGT ○○○○%L-Y	B99	Insert (Turning)
VBGW ○○○MEF	C26	Insert (Turning)
VBGW ○○○S○○○○○MES	C26	Insert (Turning)
VBGW ○○○○(○)S○○○○○MET	C26	Insert (Turning)
VBGW ○○○S○○○○○SET	C26	Insert (Turning)
VBGW ○○○○(○)T○○○○○ME	C26	Insert (Turning)
VBGW ○○○○(○)T○○○○○SE	C26	Insert (Turning)
VBMT ○○○○(○)○	C49	Insert (Turning)
VBMT ○○○GP	B97	Insert (Turning)
VBMT ○○○HQ	B97	Insert (Turning)
VBMT ○○○○(○)NE	C49	Insert (Turning)
VBMT ○○○○(○)PP	B97	Insert (Turning)

Part Number	Page	Description
VBMT ○○○○(○)SE	C49	Insert (Turning)
VBMT ○○○○(○)VF	B97	Insert (Turning)
VCET ○○○○(○)M%L-F	B101	Insert (Turning)
VCET ○○○○(○)M%L-Y	B101	Insert (Turning)
VCGT ○○○	B101	Insert (Turning)
VCGT ○○○AH	B101	Insert (Turning)
VCGT ○○○AP	B101	Insert (Turning)
VCGT ○○○%L-A3	B101	Insert (Turning)
VCGT ○○○○(○)FN-Z	B101	Insert (Turning)
VCGT ○○○○MFP-GF	B100	Insert (Turning)
VCGT ○○○○MP-CF	B100	Insert (Turning)
VCGT ○○○○(○)MFP-SKS	B100	Insert (Turning)
VCGW ○○○○○○(○)S○○○○○MET	C27	Insert (Turning)
VCGW ○○○○○○S○○○○○SET	C27	Insert (Turning)
VCGW ○○○○○○(○)T○○○○○ME	C27	Insert (Turning)
VCGW ○○○○○○(○)T○○○○○SE	C27	Insert (Turning)
VCMT ○○○○○○(○)	C50	Insert (Turning)
VCMT ○○○○(○)○(○)HQ	B100, M314	Insert (Turning/Milling) / API Insert (Ring Grooving)
VCMT ○○○○○○(○)NE	C50	Insert (Turning)
VCMT ○○○○(○)○(○)PP	B100	Insert (Turning)
VCMT ○○○○○○(○)SE	C50	Insert (Turning)
VCMT ○○○○○○(○)VF	B100	Insert (Turning)
VNBR ○○○○-○○(○)	F47	Swiss IQ Bars (Boring)
VNBR ○○○○-○○(○)NB	C59, F48	Swiss IQ Bars (Boring)
VNBR ○○○○(○○)-○○(○)S	F46	Swiss IQ Bars (Boring)
VNBTR ○○○○-○○(○)	F49	Swiss IQ Bars (Boring)
VNBXR ○○○○(○)-○○(○)S	F54	Swiss IQ Bars (Boring)
VNFRGR ○○○○-○○	G101	Swiss IQ Bars (Face Grooving)
VNFRGR ○○○○-○○NB	C61, G101	Swiss IQ Bars (Face Grooving)
VNGA ○○○	B49	Insert (Turning)
VNGA ○○○MEF	C14	Insert (Turning)
VNGA ○○○ME4	C14	Insert (Turning)
VNGA ○○○S○○○○○	B119	Insert (Turning)
VNGA ○○○○(○)S○○○○○ME	C14	Insert (Turning)
VNGA ○○○S○○○○○MEH	C14	Insert (Turning)
VNGA ○○○S○○○○○MEP	C14	Insert (Turning)
VNGA ○○○S○○○○○MET	C14	Insert (Turning)
VNGA ○○○T○○○○○	B119	Insert (Turning)
VNGA ○○○T○○○○○AA	B119	Insert (Turning)
VNGG ○○○○(○)L	B49	Insert (Turning)
VNGG ○○○○(○)L-S	B49	Insert (Turning)
VNGG ○○○○(○)MFP-SK	B48	Insert (Turning)
VNGG ○○○○(○)M-SK	B48	Insert (Turning)
VNGG ○○○○(○)R	B49	Insert (Turning)

INSERT GRADES	A
TURNING INSERTS	B
CBN / PCD INSERTS	C
TURNING HOLDERS	D
SMALL TOOLS	E
BORING	F
GROOVING	G
CUT-OFF	H
THREADING	J
DRILLING	K
MILLING	M
QUICK CHANGE TOOLING	N
SPARE PARTS	P
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## Part Numbers in Alphanumeric Order

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Part Number	Page	Description
VNGG ○○○(○)R-5	B49	Insert (Turning)
VNGR ○○○○-○○	G77	Swiss IQ Bars (Grooving)
VNGR ○○○○-○○NB	C60, G77	Swiss IQ Bars (Grooving)
VNMA ○○○T○○○○○AA	B119	Insert (Turning)
VNMG ○○○	B47	Insert (Turning)
VNMG ○○○(○)GP	B47	Insert (Turning)
VNMG ○○○HQ	B47	Insert (Turning)
VNMG ○○○KG	B48	Insert (Turning)
VNMG ○○○KH	B48	Insert (Turning)
VNMG ○○○L-VC	B47	Insert (Turning)
VNMG ○○○MQ	B48	Insert (Turning)
VNMG ○○○MS	B48	Insert (Turning)
VNMG ○○○MU	B48	Insert (Turning)
VNMG ○○○(○)PP	B47	Insert (Turning)
VNMG ○○○PQ	B47	Insert (Turning)
VNMG ○○○R-VC	B47	Insert (Turning)
VNMG ○○○SG	B48	Insert (Turning)
VNMG ○○○TN-V	B47	Insert (Turning)
VNMG ○○○VF	B47	Insert (Turning)
VNMM ○○○(○)M	C37	Insert (Turning)
VNMM ○○○(○)M-NE	C37	Insert (Turning)
VNMM ○○○(○)M-SE	C37	Insert (Turning)
VNTR ○○○-○○	J48	Swiss IQ Bars (Threading)
VPET ○○○○(○)(○)F%L-USF	B104	Insert (Turning)
VPET ○○○○(○)(○)M%L-F	B103	Insert (Turning)
VPET ○○○○(○)(○)M%L-FSF	B103	Insert (Turning)
VPET ○○○○(○)MF%L-J	B104	Insert (Turning)
VPET ○○○○(○)(○)MF%L-U	B104	Insert (Turning)
VPET ○○○○(○)(○)MF%L-USF	B104	Insert (Turning)
VPET ○○○○(○)(○)%L-FSF	B103	Insert (Turning)
VPGT ○○○○CF	B102	Insert (Turning)
VPGT ○○○○(○)(○)CK	B102	Insert (Turning)
VPGT ○○○○MFP-GF	B102	Insert (Turning)
VPGT ○○○(○)MFP-SKS	B102	Insert (Turning)
VPGT ○○○○MP-CF	B102	Insert (Turning)
VPGT ○○○○(○)(○)MP-CK	B102	Insert (Turning)
<b>W</b>		
W-6	P23	Spare Parts (Washer)
W6-14	P23	Spare Parts (Washer)
W6X20	P7	Spare Parts (Screw)
W8X18	P7	Spare Parts (Screw)
W10X31	P7	Spare Parts (Screw)
WB-5	P23	Spare Parts (Washer)
WB-6	P23	Spare Parts (Washer)

Part Number	Page	Description
WB-8	P23	Spare Parts (Washer)
WBET ○○○○(○)(○)M%L-F	B105	Insert (Turning)
WBET ○○○○(○)(○)M%L-P	B106	Insert (Turning)
WBGT ○○○○(○)(○)MFP%L-PF	B105	Insert (Turning)
WBGT ○○○○MP%L-CF	B105	Insert (Turning)
WBGT ○○○○(○)(○)%L-F	B106	Insert (Turning)
WBGW ○○○○(○)(○)%L	B106	Insert (Turning)
WBGW ○○○○(○)(○)S○○○○○%L-SET	C28	Insert (Turning)
WBGW ○○○○(○)T○○○○○%L-SE	C28	Insert (Turning)
WBMT ○○○○(○)(○)L	C51	Insert (Turning)
WBMT ○○○○L-NE	C51	Insert (Turning)
WBMT ○○○○(○)L-SE	C51	Insert (Turning)
WBMT ○○○○(○)(○)%L-DP	B105	Insert (Turning)
WCMX ○○○○○-M1(A)	K99, K106	Insert (Drilling) HOLESHOT Drill (DR) / Coremaster Coredrill
WCMX ○○T○○○-M1(A)	K99, K106	Insert (Drilling) HOLESHOT Drill (DR) / Coremaster Coredrill
WCS-1N	P16	Spare Parts (Clamp Set)
WCS-8	P16	Spare Parts (Clamp Set)
WN-1	P23	Spare Parts (Shim Nut)
WNEU ○○○○○EN-GL	M149	Insert (Milling) MFWN
WNGA ○○○MEF	C15	Insert (Turning)
WNGA ○○○S○○○○○ME	C15	Insert (Turning)
WNGA ○○○S○○○○○MET	C15	Insert (Turning)
WNGA ○○○T○○○○○ME	C15	Insert (Turning)
WNGA ○○○T○○○○○AA	B119	Insert (Turning)
WNGA ○○○T○○○○○	B119	Insert (Turning)
WNGG ○○○AH	B54	Insert (Turning)
WNGG ○○○L	B54	Insert (Turning)
WNGG ○○○(○)L-S	B54	Insert (Turning)
WNGG ○○○R	B54	Insert (Turning)
WNGG ○○○(○)R-S	B54	Insert (Turning)
WNGG ○○○TK	B52	Insert (Turning)
WNGT ○○○○○FN-AM	M149	Insert (Milling) MFWN
WNMA ○○○	B54	Insert (Turning)
WNMG ○○○	B52	Insert (Turning)
WNMG ○○○C	B54	Insert (Turning)
WNMG ○○○CJ	B51	Insert (Turning)
WNMG ○○○CQ	B51	Insert (Turning)
WNMG ○○○GC	B54	Insert (Turning)
WNMG ○○○GP	B50	Insert (Turning)
WNMG ○○○GS	B51	Insert (Turning)
WNMG ○○○GT	B52	Insert (Turning)
WNMG ○○○(○)HQ	B51	Insert (Turning)
WNMG ○○○KG	B53	Insert (Turning)

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Part Number	Page	Description
WNMG ○○○KH	B53	Insert (Turning)
WNMG ○○○KQ	B53	Insert (Turning)
WNMG ○○○MQ	B53	Insert (Turning)
WNMG ○○○MS	B53	Insert (Turning)
WNMG ○○○MU	B53	Insert (Turning)
WNMG ○○○PG	B51	Insert (Turning)
WNMG ○○○PH	B52	Insert (Turning)
WNMG ○○○PMG	B51	Insert (Turning)
WNMG ○○○(○)PP	B50	Insert (Turning)
WNMG ○○○PQ	B50	Insert (Turning)
WNMG ○○○PS	B51	Insert (Turning)
WNMG ○○○PT	B51	Insert (Turning)
WNMG ○○○SG	B53	Insert (Turning)
WNMG ○○○TK	B52	Insert (Turning)
WNMG ○○○WE	B50	Insert (Turning)
WNMG ○○○WF	B50	Insert (Turning)
WNMG ○○○WP	B50	Insert (Turning)
WNMG ○○○WQ	B50	Insert (Turning)
WNMG ○○○XP	B52	Insert (Turning)
WNMG ○○○XQ	B52	Insert (Turning)
WNMG ○○○XS	B52	Insert (Turning)
WNMG ○○○ZS	B54	Insert (Turning)
WNMM ○○○(○)M-NE	C38	Insert (Turning)
WNMM ○○○(○)M-SE	C38	Insert (Turning)
WNMU ○○○○○EN-GH	M149, M155	Insert (Milling) MFWN / MFWN-Mini
WNMU ○○○○○EN-GM	M149, M155	Insert (Milling) MFWN / MFWN-Mini
WNMU ○○○○○EN-SM	M149, M155	Insert (Milling) MFWN / MFWN-Mini
WNMX ○○○EL	B50	Insert (Turning)
WNMX ○○○ER	B50	Insert (Turning)
WP-15	P8	Spare Parts (Shim Pin)
WPSX11	P8	Spare Parts (Shim Pin)
WPSX15	P8	Spare Parts (Shim Pin)
WPGT ○○○(○)M%L-Y	B107	Insert (Turning)
WPGT ○○○(○)(○)%L-Y	B107	Insert (Turning)
WPGW ○○○(○)(○)	B107	Insert (Turning)
WPMT ○○○○○	C51	Insert (Turning)
WPMT ○○○(○)GP	B107	Insert (Turning)
WPMT ○○○(○)(○)HQ	B107	Insert (Turning)
WPMT ○○○○○NE	C51	Insert (Turning)
WPMT ○○○○○SE	C51	Insert (Turning)
WS-10	D13, G49, H60	Spare Parts (Washer)
WSP-1	P23	Spare Parts (Spacer)
WTENN ○○○□-○○N	D32	Toolholder (Turning)
WTJN%L ○○-○□	D31	Toolholder (Turning)

Part Number	Page	Description
WTJN%L ○○○□-○○N	D31	Toolholder (Turning)
WTKN%L ○○-○□	D31	Toolholder (Turning)
WTKN%L ○○○□-○○N	D31	Toolholder (Turning)
WTN-33	P13	Spare Parts (Shim)
WTN-33-20	P13	Spare Parts (Shim)
WWLN%L ○○○□-○○	D51	Toolholder (Turning)
WWN-42	P13	Spare Parts (Shim)
WWP-42	P13	Spare Parts (Shim)
WWP-42-16	P13	Spare Parts (Shim)
<b>X</b>		
XNS610	P7	Spare Parts (Mounting Screw)
XPMT ○○○○○○	M193, M297	Insert (Milling) EM / CM
XPMT ○○T○○○	M193, M297	Insert (Milling) EM / FM90 / CM
<b>Y</b>		
<b>Z</b>		
ZBMT ○○T○○○GF	B108	Insert (Turning / Boring)
ZBMT ○○T○○○R-GF-15D	B108	Insert (Turning / Boring)
ZCMT ○○○○○○	K78	Insert (Drilling) DRZ Magic Drill
ZCMT ○○○○○○SP	K78	Insert (Drilling) DRZ Magic Drill
ZCMT ○○○○○○SU	K78	Insert (Drilling) DRZ Magic Drill

INSERT GRADES	<b>A</b>
TURNING INSERTS	<b>B</b>
CBN / PCD INSERTS	<b>C</b>
TURNING HOLDERS	<b>D</b>
SMALL TOOLS	<b>E</b>
BORING	<b>F</b>
GROOVING	<b>G</b>
CUT-OFF	<b>H</b>
THREADING	<b>J</b>
DRILLING	<b>K</b>
MILLING	<b>M</b>
QUICK CHANGE TOOLING	<b>N</b>
SPARE PARTS	<b>P</b>
TECHNICAL	<b>R</b>
INDEX	<b>T</b>

