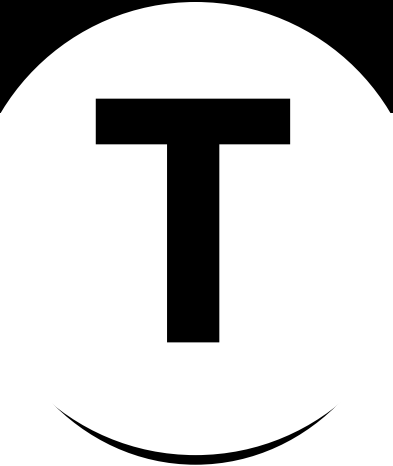


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| 16ER AG○○-TQ    | J16       | Insert (Threading) / TQ Series        |
| 16ER G○○-TF     | J16       | Insert (Threading) / TF Series        |
| 16ER G○○-TQ     | J16       | Insert (Threading) / TQ Series        |
| 16I% ○○BSPT     | J13       | Insert (Threading)                    |
| 16I% ○○BSPT-TF  | J13       | Insert (Threading) / TF Series        |
| 16I% ○○BSPT-TQ  | J13       | Insert (Threading) / TQ Series        |
| 16I% ○○(○)NPT   | J15, J35  | Insert (Threading)                    |
| 16I% ○○UN       | J9        | Insert (Threading)                    |

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| 16I% ○○W            | J11               | Insert (Threading)                                  |
| 16I% ○○W-TF         | J11               | Insert (Threading) / TF Series                      |
| 16I% ○○W-TQ         | J11               | Insert (Threading) / TQ Series                      |
| 16I% ○○○ISO         | J7                | Insert (Threading)                                  |
| 16IR ○○○ISO-TF      | J7                | Insert (Threading) / TF Series                      |
| 16IR ○○○ISO-TQ      | J7                | Insert (Threading) / TQ Series                      |
| 16IR ○○○TR          | J19               | Insert (Threading)                                  |
| 16IR ○○○○(○)        | J17, J19          | Insert (Threading)                                  |
| 16IR A○○            | J17, J19          | Insert (Threading)                                  |
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| 16IR G○○            | J17, J19          | Insert (Threading)                                  |
| 16RB ○○○○U-○(○)     | L145              | 16 RB High Performance Ball Nose End Mill (2 Flute) |
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| 226L -○○○○L○○○(○)   | L39-L45           | Left Hand Micro Drill                               |
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| 22IR ○○UN           | J9                | Insert (Threading)                                  |
| 22IR ○○○ISO         | J7                | Insert (Threading)                                  |
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| A63-WH- KGBA%-22-○○ | N19               | Grooving (HSK Tooling / Previous Description)       |
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| CB-51                 | D29, P18          | Spare Parts (Chipbreaker)                             |
| CB-S3220              | E44, P18          | Spare Parts (Chipbreaker)                             |
| CB-S4220              | E44, P18          | Spare Parts (Chipbreaker)                             |
| CBSN% ○○○○□-○○        | D42               | Toolholder (Turning)                                  |
| CBSN% ○○○○B-12-A20    | F78               | Boring Bar (for Bearing Machining)                    |
| CB-T2212              | E45, P18          | Spare Parts (Chipbreaker)                             |
| CB-T3220              | E45, P18          | Spare Parts (Chipbreaker)                             |
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| CC-200-MFAH             | M214     | Spare Parts (Coolant Cover)       |
| CC-250-MFAH             | M214     | Spare Parts (Coolant Cover)       |
| CC-315-MFAH             | M214     | Spare Parts (Coolant Cover)       |
| CCET ○○○○F%L-USF        | B57      | Insert (Turning)                  |
| CCET ○○○○(○)(○)MF%L-J   | B59      | Insert (Turning)                  |
| CCET ○○○○(○)(○)MF%L-U   | B57      | Insert (Turning)                  |
| CCET ○○○○(○)(○)MF%L-USF | B57      | Insert (Turning)                  |
| CCET ○○○○(○)(○)M%L-F    | B56      | Insert (Turning)                  |
| CCET ○○○○(○)(○)M%L-FSF  | B55      | Insert (Turning)                  |
| CCET ○○○○(○)M%L-P       | B57      | Insert (Turning)                  |
| CCET ○○○○(○)M%L-FSF     | B55      | Insert (Turning)                  |
| CCGT ○○○○(○)            | B54      | Insert (Turning)                  |
| CCGT ○○○○AH             | B60      | Insert (Turning)                  |
| CCGT ○○○○(○)AP          | B60      | Insert (Turning)                  |
| CCGT ○○○○(○)E%L-U       | B59      | Insert (Turning)                  |
| CCGT ○○○○F%L-U          | B58      | Insert (Turning)                  |
| CCGT ○○○○(○)M           | B54      | Insert (Turning)                  |
| CCGT ○○○○(○)M-CF        | B53      | Insert (Turning)                  |
| CCGT ○○○○(○)ME%L-U      | B59      | Insert (Turning)                  |
| CCGT ○○○○(○)(○)MF       | B55      | Insert (Turning)                  |
| CCGT ○○○○(○)MF-GF       | B53      | Insert (Turning)                  |
| CCGT ○○○○(○)MF-GQ       | B53      | Insert (Turning)                  |
| CCGT ○○○○(○)MFP-GF      | B53      | Insert (Turning)                  |
| CCGT ○○○○(○)MFP-GQ      | B54      | Insert (Turning)                  |
| CCGT ○○○○(○)(○)MFP-PF   | B53      | Insert (Turning)                  |
| CCGT ○○○○(○)MFP-SK      | B53      | Insert (Turning)                  |
| CCGT ○○○○(○)(○)MF%L-U   | B58      | Insert (Turning)                  |
| CCGT ○○○○(○)MP-CF       | B53      | Insert (Turning)                  |
| CCGT ○○○○(○)MP-CK       | B53      | Insert (Turning)                  |
| CCGT ○○○○(○)(○)M%L-F    | B56      | Insert (Turning)                  |
| CCGT ○○○(○)(○)M%L-A3    | B60      | Insert (Turning)                  |
| CCGT ○○○○(○)(○)M%L-F    | B56      | Insert (Turning)                  |
| CCGW ○○○○(○)(○)         | B60, C24 | Insert (Turning)                  |
| CCGW ○○○○(○)(○)NE       | C24      | Insert (Turning)                  |
| CCGW ○○○○(○)(○)SE       | C24      | Insert (Turning)                  |
| CCLN%L ○○○○□-○○         | D26      | Toolholder (Turning)              |
| CCLN%L ○○○○□-○○A        | D36      | Toolholder (Turning)              |
| CCLN%L ○○○○B-○○A        | F97      | Boring Bar (Previous Description) |
| CCLN%L ○○○○□-○○GX       | D32      | Toolholder (Turning)              |
| CCMT ○○○○(○)            | B54, C24 | Insert (Turning)                  |
| CCMT ○○○(○)(○)GK        | B54      | Insert (Turning)                  |
| CCMT ○○○○(○)HQ          | B54      | Insert (Turning)                  |
| CCMT ○○○○MQ             | B55      | Insert (Turning)                  |
| CCMT ○○○○(○)NE          | C24      | Insert (Turning)                  |
| CCMT ○○○○(○)PP          | B54      | Insert (Turning)                  |
| CCMT ○○○○(○)SE          | C24      | Insert (Turning)                  |
| CCMT ○○○○(○)WP          | B54      | Insert (Turning)                  |
| CCMW ○○○○MEF            | C14      | Insert (Turning)                  |

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| CCMW ○○○○S○○○○○MES       | C14                     | Insert (Turning)                                   |
| CCMW ○○○○(○)(○)S○○○○○SET | C14                     | Insert (Turning)                                   |
| CCMW ○○○○(○)T○○○○○ME     | C14                     | Insert (Turning)                                   |
| CCMW ○○○○(○)(○)T○○○○○SE  | C14                     | Insert (Turning)                                   |
| CCMW ○○○○S○○○○○MET       | C14                     | Insert (Turning)                                   |
| CCRN%L ○○○○□-○○A         | D36                     | Toolholder (Turning)                               |
| CD -○○○○(-C)             | K104                    | Toolholder (Drilling) Coremaster Coredrill (CD)    |
| CD -○○○○-LC              | K105                    | Toolholder (Drilling) Coremaster Coredrill (CD-LC) |
| CD -○○○○-XL              | K105                    | Toolholder (Drilling) Coremaster Coredrill (CD-XL) |
| CDHN%L ○○○○□-○○GX        | D33                     | Toolholder (Turning)                               |
| CDJN%L ○○○○□-○○          | D27                     | Toolholder (Turning)                               |
| CDJN%L ○○○○□-○○GX        | D33                     | Toolholder (Turning)                               |
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| CE-020                   | D29-D30, D38-D39, P15   | Spare Parts (Clamp Set)                            |
| CE-030                   | D31, P15                | Spare Parts (Clamp Set)                            |
| CE-030A                  | D29, D31, D36-D40       | Spare Parts (Clamp Set)                            |
| CE-040                   | D29, D31, D39, P15      | Spare Parts (Clamp Set)                            |
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| CE-121                   | P17                     | Spare Parts (Clamp)                                |
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| CE-430                   | D33, P15                | Spare Parts (Clamp Set)                            |
| CELNR ○○○○B-○○           | F95                     | Boring Bar (Previous Description)                  |
| CELN%L ○○○○□-○○          | D27                     | Toolholder (Turning)                               |
| CEM ○○○○-OW(-7.5)        | M123                    | End Mill   |
| CGA-3%L                  | G51, P17                | Spare Parts (Clamp)                                |
| CGA-4%L                  | G51, P17                | Spare Parts (Clamp)                                |
| CGA-5%L                  | G51, P17                | Spare Parts (Clamp)                                |
| CGB%L                    | P17                     | Spare Parts (Clamp)                                |
| CGH-1%L                  | G50, G76, P17           | Spare Parts (Clamp)                                |
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| CGH-3%L                  | G50, P17                | Spare Parts (Clamp)                                |
| CGIA-3R                  | G78, P17                | Spare Parts (Clamp)                                |
| CGIA-4R                  | G78, P17                | Spare Parts (Clamp)                                |
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| CH0503-45                | K54-K55                 | Insert (Drilling) DRV MAGIC DRILL                  |
| CH-20R                   | M44, P17                | Spare Parts (Clamp)                                |
| CIN%L ○○○○S-○○           | J22                     | Toolholder (Threading)                             |
| CKC-2%L                  | G41, G81, J24-J25       | Spare Parts (Clamp)                                |
| CKC-3%L                  | G41, G81, G129, J24-J25 | Spare Parts (Clamp)                                |
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| CL-12                    | D8, D21                 | Spare Parts (Clamp)                                |
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| CM ○○○○-○○-○○        | M205               | End Mill (Chamfering)         |
| CM ○○○○-○○-AL        | M205               | End Mill (Chamfering)         |
| CM -○○○.○○○          | L162               | Chamfer Mill (30° - 120°)     |
| CM -○○○L○○○          | L162               | Chamfer Mill (30° - 120°)     |
| CMM -○○○○.○○○        | L163               | Chamfer Mill (60°, 90°, 120°) |
| CMM -○○○○L○○○        | L163               | Chamfer Mill (60°, 90°, 120°) |
| CNGA ○○○             | B21                | Insert (Turning)              |
| CNGA ○○○MEF          | C6                 | Insert (Turning)              |
| CNGA ○○○ME4          | C6                 | Insert (Turning)              |
| CNGA ○○○S○○○○○       | B106               | Insert (Turning)              |
| CNGA ○○○(○)S○○○○○OME | C6                 | Insert (Turning)              |
| CNGA ○○○S○○○○○OMEH   | C6                 | Insert (Turning)              |
| CNGA ○○○S○○○○○OMEP   | C6                 | Insert (Turning)              |
| CNGA ○○○S○○○○○OMET   | C6                 | Insert (Turning)              |
| CNGA ○○○S○○○○○OMEW   | C6                 | Insert (Turning)              |
| CNGA ○○○S○○○○○OSE    | C7                 | Insert (Turning)              |
| CNGA ○○○S○○○○○OSET   | C7                 | Insert (Turning)              |
| CNGA ○○○T○○○○○       | B106               | Insert (Turning)              |
| CNGA ○○○T○○○○○OAA    | B106               | Insert (Turning)              |
| CNGA ○○○T○○○○○OME    | C6                 | Insert (Turning)              |
| CNGG ○○○AH           | B22                | Insert (Turning)              |
| CNGG ○○○FP-TK        | B19                | Insert (Turning)              |
| CNGG ○○○HQ           | B16                | Insert (Turning)              |
| CNGG ○○○(○)MFP-SK    | B19                | Insert (Turning)              |
| CNGG ○○○(○)MU        | B20                | Insert (Turning)              |
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| CNGG ○○○%-25R        | B22                | Insert (Turning)              |
| CNGG ○○○%-A3         | B22                | Insert (Turning)              |
| CNGG ○○○(○)%-S       | B22                | Insert (Turning)              |
| CNGG ○○○TK           | B19                | Insert (Turning)              |
| CNGG ○○○Z            | B22                | Insert (Turning)              |
| CNGM ○○○ME-HH        | C7                 | Insert (Turning)              |
| CNGM ○○○ME-HL        | C7                 | Insert (Turning)              |
| CNGM ○○○S○○○○○BBO    | C7                 | Insert (Turning)              |
| CNG ○○○T○○○○○OAA     | B106               | Insert (Turning)              |
| CNG ○○○T○○○○○        | B106               | Insert (Turning)              |
| CNGU ○○○(○)MFR-U     | B50                | Insert (Turning)              |
| CNGU ○○○(○)(○)MFR-F  | B50                | Insert (Turning)              |
| CNGU ○○○(○)(○)MFR-U  | B50                | Insert (Turning)              |
| CNGU ○○○○○MFR-SK     | B50                | Insert (Turning)              |
| CNGU ○○○○○MFR-SK     | B50                | Insert (Turning)              |
| CNGX ○○○T○○○○○       | B106               | Insert (Turning)              |
| CNMA ○○○             | B21                | Insert (Turning)              |
| CNMA ○○○T○○○○○OAA    | B106               | Insert (Turning)              |
| CNMG ○○○             | B18                | Insert (Turning)              |

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| CNMG ○○○AH      | B22   | Insert (Turning)    |
| CNMG ○○○C       | B21   | Insert (Turning)    |
| CNMG ○○○CJ      | B17   | Insert (Turning)    |
| CNMG ○○○CQ      | B17   | Insert (Turning)    |
| CNMG ○○○GC      | B21   | Insert (Turning)    |
| CNMG ○○○(○)GP   | B16   | Insert (Turning)    |
| CNMG ○○○GS      | B17   | Insert (Turning)    |
| CNMG ○○○GT      | B18   | Insert (Turning)    |
| CNMG ○○○HQ      | B16   | Insert (Turning)    |
| CNMG ○○○HS      | B17   | Insert (Turning)    |
| CNMG ○○○HT      | B18   | Insert (Turning)    |
| CNMG ○○○KG      | B21   | Insert (Turning)    |
| CNMG ○○○KH      | B21   | Insert (Turning)    |
| CNMG ○○○KQ      | B21   | Insert (Turning)    |
| CNMG ○○○MQ      | B20   | Insert (Turning)    |
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| CNMG ○○○PH      | B18   | Insert (Turning)    |
| CNMG ○○○(○)PP   | B16   | Insert (Turning)    |
| CNMG ○○○PQ      | B16   | Insert (Turning)    |
| CNMG ○○○PS      | B17   | Insert (Turning)    |
| CNMG ○○○PT      | B18   | Insert (Turning)    |
| CNMG ○○○SG      | B20   | Insert (Turning)    |
| CNMG ○○○SQ      | B20   | Insert (Turning)    |
| CNMG ○○○TK      | B19   | Insert (Turning)    |
| CNMG ○○○TN-V    | B17   | Insert (Turning)    |
| CNMG ○○○WE      | B16   | Insert (Turning)    |
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| CNMG ○○○WP      | B16   | Insert (Turning)    |
| CNMG ○○○WQ      | B16   | Insert (Turning)    |
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| CNMG ○○○XP      | B19   | Insert (Turning)    |
| CNMG ○○○XQ      | B19   | Insert (Turning)    |
| CNMG ○○○XS      | B19   | Insert (Turning)    |
| CNMG ○○○ZS      | B21   | Insert (Turning)    |
| CNMM ○○○(○)M    | C23   | Insert (Turning)    |
| CNMM ○○○(○)M-NE | C23   | Insert (Turning)    |
| CNMM ○○○(○)M-SE | C23   | Insert (Turning)    |
| CNMM ○○○PX      | B19   | Insert (Turning)    |
| CNMM ○○○%-SX    | B21   | Insert (Turning)    |
| CNM ○○○         | C19   | Insert (Turning)    |
| CNM ○○○T○○○○○   | B106  | Insert (Turning)    |
| CNMU ○○○(○)E-GK | B50   | Insert (Turning)    |
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| CPGB ○○○○○○○○○MES         | C14                                   | Insert (Turning)        |
| CPGB ○○○(○)(○)○○○○○MET    | C14                                   | Insert (Turning)        |
| CPGB ○○○(○)(○)○○○○○SET    | C14                                   | Insert (Turning)        |
| CPGB ○○○(○)(○)○○○○○OME    | C14                                   | Insert (Turning)        |
| CPGB ○○○(○)(○)(○)○○○○○OSE | C14                                   | Insert (Turning)        |
| CPGT ○○○○(○)              | B60                                   | Insert (Turning)        |
| CPMB ○○○(○)(○)(○)         | B61                                   | Insert (Turning)        |
| CPMH ○○○(○)(○)(○)         | B61, C25                              | Insert (Turning)        |
| CPMH ○○○(○)(○)HQ          | B61                                   | Insert (Turning)        |
| CPMH ○○○(○)(○)(○)NE       | C25                                   | Insert (Turning)        |
| CPMH ○○○(○)(○)%-Y         | B61                                   | Insert (Turning)        |
| CPMH ○○○(○)SE             | C25                                   | Insert (Turning)        |
| CPMT ○○○(○)(○)GP          | B61                                   | Insert (Turning)        |
| CPMT ○○○(○)(○)(○)PP       | B61                                   | Insert (Turning)        |
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| CPS-6F                    | M218, P16                             | Spare Parts (Clamp Set) |
| CPS-6M                    | P16                                   | Spare Parts (Clamp Set) |
| CPS-6S                    | J20, J22, N19, P16                    | Spare Parts (Clamp Set) |
| CPS-6V                    | G71, G122, G125-G126, G134, M220, P16 | Spare Parts (Clamp Set) |
| CPS-8V                    | G122, G125-G126, G134, P16            | Spare Parts (Clamp Set) |
| CP-ST-R1/8                | H14, H15                              | Coolant Coupler         |
| CRDCN ○○-○                | D31                                   | Toolholder (Turning)    |
| CRDNN ○○-○□               | D31                                   | Toolholder (Turning)    |
| CRDNN ○○○○□-○○            | D31                                   | Toolholder (Turning)    |
| CRDNN ○○○○□-○OA           | D37                                   | Toolholder (Turning)    |
| CR-MFK70R                 | M40                                   | Spare Parts (Cartridge) |
| CRSN% ○○○○□-○○            | D31                                   | Toolholder (Turning)    |

| Part Number      | Page   | Description                            |
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| CRSN% ○○○○□-○OA  | D37  | Toolholder (Turning)                   |
| CS ○○-○○○        | K111   | Toolholder (Drilling) Countersink (CS) |
| CS-2D            | D16, D24, F90, N5, P2                          | Spare Parts (Screw)                    |
| CS-3D            | D8, D12, D14, D24, F83, F86, F89, F90, F93, P2 | Spare Parts (Screw)                    |
| CS-3D-TR         | D8, D12, N3-N7                                 | Spare Parts (Screw)                    |
| CS-5D            | D20, P2  | Spare Parts (Screw)                    |
| CS126            | E45  | Spare Parts (Screw)                    |
| CSBPR ○○○○□-○ON  | E44  | Toolholder (Turning)                   |
| CSDNN ○○○○□-○○   | D29  | Toolholder (Turning)                   |
| CSDNN ○○○○□-○OA  | D39  | Toolholder (Turning)                   |
| CSDNN ○○○○□-○○GX | D34  | Toolholder (Turning)                   |
| CSDPN ○○○○□-○ON  | E44  | Toolholder (Turning)                   |
| CSKN% ○○○○□-○○   | D29  | Toolholder (Turning)                   |
| CSKNR ○○○○□-○OA  | D38  | Toolholder (Turning)                   |
| CSKN% ○○○○B-○○   | F95  | Boring Bar (Previous Description)      |
| CSKN% ○○○○□-○○GX | D35  | Toolholder (Turning)                   |
| CSKPR ○○○○B-○○   | F76  | Boring Bar (Previous Description)      |
| CSKPR ○○○○□-○ON  | E44  | Toolholder (Turning)                   |
| CS-N% ○○○○□-○○   | D29  | Toolholder (Turning)                   |
| CS-N% ○○○○□-○○GX | D35  | Toolholder (Turning)                   |
| CSRN% ○○-○□      | D29  | Toolholder (Turning)                   |
| CSRN% ○○○○□-○○   | D29  | Toolholder (Turning)                   |
| CSRN% ○○○○□-○OA  | D38  | Toolholder (Turning)                   |
| CSRN% ○○○○□-○○GX | D34  | Toolholder (Turning)                   |
| CSSN% ○○-○□      | D29  | Toolholder (Turning)                   |
| CSSN% ○○○○□-○○   | D29  | Toolholder (Turning)                   |
| CSSN% ○○○○□-○OA  | D39  | Toolholder (Turning)                   |
| CSSN% ○○○○□-○○GX | D34  | Toolholder (Turning)                   |
| CSSP% ○○○○□-○ON  | E44  | Toolholder (Turning)                   |
| CSYN% ○○○○□-○○   | D29  | Toolholder (Turning)                   |
| CSYN% ○○○○□-○OA  | D38  | Toolholder (Turning)                   |
| CSYN% ○○○○□-○○GX | D35  | Toolholder (Turning)                   |
| CT○○○TO -45A     | K25-K29  | Insert (Drilling) DRC MAGIC DRILL      |
| CTDPR ○○CA○○     | N25  | Toolholder (Cartridge)                 |
| CTEPR ○○CA○○     | N25  | Toolholder (Cartridge)                 |
| CTFP% ○○○○□-○ON  | E45  | Toolholder (Turning)                   |
| CTFPR ○○CA○○     | N25  | Toolholder (Cartridge)                 |
| CTGP% ○○-○□      | E45  | Toolholder (Turning)                   |
| CTGP% ○○○○□-○ON  | E45  | Toolholder (Turning)                   |
| CTJN% ○○-○□      | D30  | Toolholder (Turning)                   |
| CTJN% ○○○○□-○○   | D30  | Toolholder (Turning)                   |
| CTJN% ○○○○□-○OA  | D40  | Toolholder (Turning)                   |
| CTTP% ○○○○□-○ON  | E45  | Toolholder (Turning)                   |
| CTUN% ○○○○B-○OA  | F97  | Boring Bar (Previous Description)      |
| CTUN% ○○○○□-○○   | D30  | Toolholder (Turning)                   |
| CTUN% ○○○○□-○OA  | D40  | Toolholder (Turning)                   |
| CTUP% ○○○○B-○○   | F77  | Boring Bar (Previous Description)      |

|                      |          |
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| INSERT GRADES        | <b>A</b> |
| TURNING INSERTS      | <b>B</b> |
| GEN/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> |
| SOLID TOOLS          | <b>L</b> |
| MILLING              | <b>M</b> |
| QUICK CHANGE TOOLING | <b>N</b> |
| SPARE PARTS          | <b>P</b> |
| TECHNICAL            | <b>R</b> |
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Part Numbers in Alphanumeric Order

○ : NUMBER □ : LETTER

| Part Number           | Page         | Description                       |
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| <b>D</b>              |              |                                   |
| DA ○○○○M-FTP          | K10          | Insert (Drilling)                 |
| DA ○○○○M-GM           | K8           | Insert (Drilling)                 |
| DA ○○○○M-KM           | K9           | Insert (Drilling)                 |
| DB ○○○○R○○            | G53          | Insert (Grooving)                 |
| DB ○○○○(□□)T00420     | G53          | Insert (Grooving)                 |
| DC ○○○○M-SC           | K22-K24      | Insert (Drilling) DRC MAGIC DRILL |
| DC-42                 | F83, F93, P9 | Spare Parts (Shim)                |
| DC-44                 | D8, N3, P9   | Spare Parts (Shim)                |
| DC-44-C               | D8, N3, P9   | Spare Parts (Shim)                |
| DCET ○○○○○F% -JSF     | B70          | Insert (Turning)                  |
| DCET ○○○○○F% -USF     | B68          | Insert (Turning)                  |
| DCET ○○○○(○)MF% -J    | B70          | Insert (Turning)                  |
| DCET ○○○○○MF% -JSF    | B70          | Insert (Turning)                  |
| DCET ○○○○(○)MF% -U    | B68          | Insert (Turning)                  |
| DCET ○○○○○(○)MF% -USF | B68          | Insert (Turning)                  |
| DCET ○○○○(○)M% -F     | B66          | Insert (Turning)                  |
| DCET ○○○○(○)M% -FSF   | B66          | Insert (Turning)                  |
| DCET ○○○○(○)% -FSF    | B66          | Insert (Turning)                  |
| DCGT ○○○○(○)          | B64          | Insert (Turning)                  |
| DCGT ○○○○AH           | B71          | Insert (Turning)                  |
| DCGT ○○○○(○)AP        | B71          | Insert (Turning)                  |
| DCGT ○○○○○CF          | B62          | Insert (Turning)                  |
| DCGT ○○○○○CK          | B62          | Insert (Turning)                  |
| DCGT ○○○○(○)E% -J     | B71          | Insert (Turning)                  |
| DCGT ○○○○(○)E% -U     | B69          | Insert (Turning)                  |
| DCGT ○○○○(○)F% -J     | B70          | Insert (Turning)                  |
| DCGT ○○○○○F% -U       | B68          | Insert (Turning)                  |
| DCGT ○○○○(○)FN-Z      | B64          | Insert (Turning)                  |
| DCGT ○○○○(○)M         | B64          | Insert (Turning)                  |
| DCGT ○○○○○M-CF        | B62          | Insert (Turning)                  |
| DCGT ○○○○○M-CK        | B62          | Insert (Turning)                  |
| DCGT ○○○○(○)ME% -J    | B71          | Insert (Turning)                  |
| DCGT ○○○○(○)ME% -U    | B69          | Insert (Turning)                  |
| DCGT ○○○○(○)MF        | B64          | Insert (Turning)                  |
| DCGT ○○○○(○)MF-GF     | B62          | Insert (Turning)                  |
| DCGT ○○○○(○)MF-GQ     | B63          | Insert (Turning)                  |
| DCGT ○○○○(○)MFP-GF    | B62          | Insert (Turning)                  |
| DCGT ○○○○(○)MFP-GQ    | B63          | Insert (Turning)                  |
| DCGT ○○○○(○)MFP-SK    | B62          | Insert (Turning)                  |
| DCGT ○○○○(○)MF% -J    | B70          | Insert (Turning)                  |
| DCGT ○○○○(○)MF% -U    | B69          | Insert (Turning)                  |
| DCGT ○○○○○MP-CF       | B62          | Insert (Turning)                  |
| DCGT ○○○○○MP-CK       | B63          | Insert (Turning)                  |
| DCGT ○○○○(○)M% -F     | B67          | Insert (Turning)                  |
| DCGT ○○○○(○)% -A3     | B71          | Insert (Turning)                  |
| DCGT ○○○○(○)% -F      | B67          | Insert (Turning)                  |
| DCGT ○○○○(○)% -FS     | B67          | Insert (Turning)                  |
| DCGW ○○○○(○)          | B71          | Insert (Turning)                  |

| Part Number           | Page                        | Description   |
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| DCLN% ○○-○□           | D8                          | Toolholder (Turning)                                  |
| DCLN% ○○○○□-○○        | D8                          | Toolholder (Turning)                                  |
| DCLN% ○○○○M-○○JCT     | D8                          | Toolholder (Turning)                                  |
| DCMT ○○○○(○)          | B64, C25                    | Insert (Turning)                                      |
| DCMT ○○○○CQ           | M25                         | Insert (Milling) / API Insert (Ring Grooving)         |
| DCMT ○○○○(○)GK        | B64                         | Insert (Turning)                                      |
| DCMT ○○○○(○)GP        | B63                         | Insert (Turning)                                      |
| DCMT ○○○○(○)HQ        | B64, M25                    | Insert (Turning/Milling) / API Insert (Ring Grooving) |
| DCMT ○○○○(○)MQ        | B65                         | Insert (Turning)                                      |
| DCMT ○○○○(○)NE        | C25                         | Insert (Turning)                                      |
| DCMT ○○○○(○)PP        | B63                         | Insert (Turning)                                      |
| DCMT ○○○○(○)% -NE     | C25                         | Insert (Turning)                                      |
| DCMT ○○○○(○)SE        | C25                         | Insert (Turning)                                      |
| DCMT ○○○○(○)XP        | B65                         | Insert (Turning)                                      |
| DCMT ○○○○XQ           | B65                         | Insert (Turning)                                      |
| DCMW ○○○○MEF          | C15                         | Insert (Turning)                                      |
| DCMW ○○○○(○)S○○○○○MES | C15                         | Insert (Turning)                                      |
| DCMW ○○○○(○)S○○○○○MET | C15                         | Insert (Turning)                                      |
| DCMW ○○○○S○○○○○SET    | C15                         | Insert (Turning)                                      |
| DCMW ○○○○(○)T○○○○○OME | C15                         | Insert (Turning)                                      |
| DCMW ○○○○(○)T○○○○○OSE | C15                         | Insert (Turning)                                      |
| DCMX ○○○○(○)WP        | B63                         | Insert (Turning)                                      |
| DD-42                 | F86, P9                     | Spare Parts (Shim)                                    |
| DD-42-16              | F86, P9                     | Spare Parts (Shim)                                    |
| DD-43                 | D12, N4, P9                 | Spare Parts (Shim)                                    |
| DD-44                 | D12, N4, P9                 | Spare Parts (Shim)                                    |
| DDJN% ○○-○□           | D12                         | Toolholder (Turning)                                  |
| DDJN% ○○○○□-○○○○      | D12                         | Toolholder (Turning)                                  |
| DDJN% ○○○○M-○○JCT     | D12                         | Toolholder (Turning)                                  |
| DDHN% ○○○○□-○○○○      | D12                         | Toolholder (Turning)                                  |
| DMC ○○○               | M114                        | End Mill  |
| DMC ○○○H              | M116                        | End Mill  |
| DMC ○○○SX             | M115                        | End Mill  |
| DMC ○○○SXT            | M115                        | End Mill  |
| DMC ○○○SX-○○○         | M115                        | End Mill  |
| DMC ○○○-S○○           | M114                        | End Mill  |
| DN10                  | F83, F86, F89-F90, F93, P20 | Spare Parts (Nozzle)                                  |
| DN20                  | F83, F86, F89-F90, F93, P20 | Spare Parts (Nozzle)                                  |
| DNGA ○○○MEF           | C8                          | Insert (Turning)                                      |
| DNGA ○○○ME4           | C8                          | Insert (Turning)                                      |
| DNGA ○○○S○○○○○        | B107                        | Insert (Turning)                                      |
| DNGA ○○○(○)S○○○○○OME  | C8                          | Insert (Turning)                                      |
| DNGA ○○○S○○○○○OMEH    | C8                          | Insert (Turning)                                      |
| DNGA ○○○S○○○○○MEP     | C8                          | Insert (Turning)                                      |
| DNGA ○○○S○○○○○MET     | C8                          | Insert (Turning)                                      |
| DNGA ○○○(○)S○○○○○OSE  | C9                          | Insert (Turning)                                      |
| DNGA ○○○T○○○○○        | B107                        | Insert (Turning)                                      |

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Part Numbers in Alphanumeric Order

○ : NUMBER □ : LETTER

| Part Number          | Page | Description      |
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| DNGA ○○○○○○○○AA      | B107 | Insert (Turning) |
| DNGA ○○○○○○○○ME      | C8   | Insert (Turning) |
| DNGG ○○○AH           | B30  | Insert (Turning) |
| DNGG ○○○FP-TK        | B27  | Insert (Turning) |
| DNGG ○○○(○)MFP-SK    | B27  | Insert (Turning) |
| DNGG ○○○%L           | B30  | Insert (Turning) |
| DNGG ○○○%L-A3        | B30  | Insert (Turning) |
| DNGG ○○○(○)%L-S      | B30  | Insert (Turning) |
| DNGG ○○○TK           | B27  | Insert (Turning) |
| DNGM ○○○ME-HH        | C9   | Insert (Turning) |
| DNGM ○○○ME-HL        | C9   | Insert (Turning) |
| DNGM ○○○S○○○○○BBO    | C9   | Insert (Turning) |
| DNG ○○○S○○○○○        | B107 | Insert (Turning) |
| DNG ○○○T○○○○○        | B107 | Insert (Turning) |
| DNG ○○○T○○○○○AA      | B107 | Insert (Turning) |
| DNGU ○○○○(○)MER-U    | B51  | Insert (Turning) |
| DNGU ○○○○(○)MFP-SK   | B51  | Insert (Turning) |
| DNGU ○○○○(○)(○)MFR-F | B51  | Insert (Turning) |
| DNGU ○○○○(○)(○)MFR-U | B51  | Insert (Turning) |
| DNGU ○○○○(○)MF-SK    | B51  | Insert (Turning) |
| DNGX ○○○T○○○○○       | B107 | Insert (Turning) |
| DNMA ○○○             | B30  | Insert (Turning) |
| DNMG ○○○             | B26  | Insert (Turning) |
| DNMG ○○○AH           | B30  | Insert (Turning) |
| DNMG ○○○C            | B29  | Insert (Turning) |
| DNMG ○○○CJ           | B24  | Insert (Turning) |
| DNMG ○○○CQ           | B24  | Insert (Turning) |
| DNMG ○○○GC           | B29  | Insert (Turning) |
| DNMG ○○○(○)GP        | B23  | Insert (Turning) |
| DNMG ○○○GS           | B24  | Insert (Turning) |
| DNMG ○○○GT           | B25  | Insert (Turning) |
| DNMG ○○○(○)HQ        | B24  | Insert (Turning) |
| DNMG ○○○HS           | B25  | Insert (Turning) |
| DNMG ○○○KG           | B29  | Insert (Turning) |
| DNMG ○○○KH           | B29  | Insert (Turning) |
| DNMG ○○○KQ           | B29  | Insert (Turning) |
| DNMG ○○○MQ           | B27  | Insert (Turning) |
| DNMG ○○○MS           | B28  | Insert (Turning) |
| DNMG ○○○MU           | B28  | Insert (Turning) |
| DNMG ○○○PG           | B25  | Insert (Turning) |
| DNMG ○○○PH           | B26  | Insert (Turning) |
| DNMG ○○○(○)PP        | B23  | Insert (Turning) |
| DNMG ○○○PQ           | B23  | Insert (Turning) |
| DNMG ○○○PS           | B25  | Insert (Turning) |
| DNMG ○○○PT           | B25  | Insert (Turning) |
| DNMG ○○○(○)R-LD      | B27  | Insert (Turning) |
| DNMG ○○○SG           | B28  | Insert (Turning) |
| DNMG ○○○SQ           | B28  | Insert (Turning) |
| DNMG ○○○TK           | B27  | Insert (Turning) |

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| DNMG ○○○TN-V     | B24   | Insert (Turning)                             |
| DNMG ○○○XF       | B26   | Insert (Turning)                             |
| DNMG ○○○XP       | B26   | Insert (Turning)                             |
| DNMG ○○○XQ       | B26   | Insert (Turning)                             |
| DNMG ○○○XS       | B26   | Insert (Turning)                             |
| DNMG ○○○ZS       | B29   | Insert (Turning)                             |
| DNMM ○○○(○)M     | C23   | Insert (Turning)                             |
| DNMM ○○○(○)M-NE  | C23   | Insert (Turning)                             |
| DNMM ○○○(○)M-SE  | C23   | Insert (Turning)                             |
| DNMM ○○○PX       | B26   | Insert (Turning)                             |
| DNMP ○○○TK       | B24   | Insert (Turning)                             |
| DNMU ○○○○(○)E-GK | B51   | Insert (Turning)                             |
| DNMX ○○○WF       | B23   | Insert (Turning)                             |
| DPET ○○○○F%L-USF | B72   | Insert (Turning)                             |
| DPET ○○○○M%L-USF | B72   | Insert (Turning)                             |
| DPET ○○○○M%L-FSF | B72   | Insert (Turning)                             |
| DPET ○○○○%L-FSF  | B72   | Insert (Turning)                             |
| DR ○○-○○(□)      | M157  | Spare Parts (Drive-Ring)                     |
| DR ○○○○-○○○○(□)  | M156  | Spare Parts (Drive-Ring)                     |
| DR -○○○○(-X3N)   | K97-K101  | Toolholder (Drilling) HOLESHOT Drill (DR)    |
| DS ○○○           | K60   | Insert (Drilling) DRS & DRZ MAGIC DRILL      |
| DRV CH○○         | K54-K55   | Chamfering Attachment DRV MAGIC DRILL        |
| DS-42            | F89, P9   | Spare Parts (Shim)                           |
| DS-44            | D14, P9   | Spare Parts (Shim)                           |
| DSBN%L ○○○○□-○○  | D14   | Toolholder (Turning)                         |
| DT-7             | G65-G66, K61-K64, K66, K68, K70, K72, M208, P19   | Spare Parts (Torx Wrench / Screwdriver Type) |
| DT-8             | K62-K64, K66, K68, K70, K72, M122-M123, M150, M152, M180, M210, P19                           | Spare Parts (Torx Wrench / Screwdriver Type) |
| DT-9             | K29   | Spare Parts (Torx Wrench / Screwdriver Type) |
| DT-10            | M123, M150, M152, M180, M206, M208, M210  | Spare Parts (Torx Wrench / Screwdriver Type) |
| DT-15            | K29, K62-K65, K67-K68, K71, K73-K74, M47, M104, M107, M109, M122-M123, M150, M152, M180, M210 | Spare Parts (Torx Wrench / Screwdriver Type) |
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| EM ○○○○-○○            | M118                        | End Mill (Extended Length)                              |
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| EM ○○○○-○○○S          | M118                        | End Mill (Extended Length)                              |
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| EM ○○○○-○.○○(○)-AL    | M121                        | End Mill (Extended Length)                              |
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| EZH ○○○○○(○)HP-○○○    | F28-F29, F98, G59, G87, J33 | Sleeve  |
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| GMM ○○○○-○○○V        | G79   | Insert (Grooving)                        |
| GMM ○○○○-○○○VR       | G79   | Insert (Grooving)                        |
| GMN ○(○)             | C20, C30, G44-G45, H30  | Insert (Grooving)                        |
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| GM%L ○-TK-8D         | G44, H30  | Insert (Grooving)                        |
| GM%L ○(○)-○○(○)D     | G44, H30  | Insert (Grooving)                        |
| GOMT ○○(□)○○○(○)ER-D | M19   | Insert (Milling)                         |
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| GP-2(N)              | K62-K65, K67-K69, K71, K73-K74, P20                           | Spare Parts (Plug)                       |
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| GS-50S               | P2  | Spare Parts (Screw)                      |
| GS-4090T%LW          | P2  | Spare Parts (Screw)                      |
| GV%L ○○-○○○          | G69   | Insert (Grooving / Previous Description) |
| GV%L ○○○□R           | G69   | Insert (Grooving / Previous Description) |
| GV%L ○○○□(□)         | G69, M219   | Insert (Grooving / Previous Description) |
| GV%L ○○○-○○○□(□)     | C30, G69, M219  | Insert (Grooving)                        |

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| GVF%L ○○○AA       | G121   | Insert (Grooving / Previous Description) |
| GVF%L ○○○□R       | G128   | Insert (Grooving / Previous Description) |
| GVF%L ○○○-○○AA    | G121   | Insert (Grooving)                        |
| GVF%L ○○○-○○□     | C30, G128, M220                                | Insert (Grooving)                        |
| GVF%L ○○○-○○□R    | G128   | Insert (Grooving)                        |
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| HA○○ PDUN%L 15-○○ | F80, F82                                       | Boring Bar (AD Bar Interchangeable Head) |
| HA○○ PTFN%L 16-○○ | F80, F82                                       | Boring Bar (AD Bar Interchangeable Head) |
| HA○○ SCLC%L 09-○○ | F81, F82                                       | Boring Bar (AD Bar Interchangeable Head) |
| HA○○ SDUC%L 11-○○ | F81, F82                                       | Boring Bar (AD Bar Interchangeable Head) |
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| HCL-001           | D29, D31                                       | Spare Parts (Clamp Set)                  |
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| HCL-009           | G52-G53  | Spare Parts (Clamp Set)                  |
| HCL-011           | G52-G53  | Spare Parts (Clamp Set)                  |
| HCL-013           | D31  | Spare Parts (Clamp Set)                  |
| HCL-016           | D31  | Spare Parts (Clamp Set)                  |
| HCL-017C          | D31  | Spare Parts (Clamp Set)                  |
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| HF16X44HC         | M214   | Spare Parts (Screw with Coolant Hole)    |
| HF16X48HC         | M214   | Spare Parts (Screw with Coolant Hole)    |
| HF20X53H          | P2   | Spare Parts (Screw)                      |
| HF20X53HA         | M214, P2                                       | Spare Parts (Screw with Coolant Hole)    |
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| KGD%        | ○○-○D○○□□        | G27, H20 Toolholder (Grooving / Cut-Off)                     |
| KGD%        | ○○○○□(□)-○(○)    | G27, H20 Toolholder (Grooving / Cut-Off)                     |
| KGD%        | ○○○○□(□)-○(○)D○○ | G27, H20 Toolholder (Grooving / Cut-Off)                     |
| KGD%        | ○○-○T○○          | G28, H22 Toolholder (Grooving / Cut-Off)                     |
| KGD%        | ○○○○□(□)-○(○)T○○ | G29, H23 Toolholder (Grooving / Cut-Off)                     |
| KGD%        | ○○○○□-○T○○JCT    | G30, H25 Toolholder (Grooving / Cut-Off)                     |
| KGD%        | ○○X-○T○○S        | G32, H26 Toolholder (Grooving / Cut-Off)                     |
| KGD%        | ○○○○X-○T○○S      | G33, H27 Toolholder (Grooving / Cut-Off)                     |
| KGDIR       | ○○B-○            | G75 Toolholder (Internal Grooving)                           |
| KGDI%       | ○○○○B-○          | G75 Toolholder (Internal Grooving)                           |
| KGDS%       | ○○-C             | G34-G35, G107-G111 Toolholder (Grooving)                     |
| KGDS%       | ○○○○-C           | G34-G35, G112-G116 Toolholder (Grooving)                     |
| KGDS%       | ○○○○JX-○(○)B     | H21 Toolholder (Cut-Off)                                     |
| KGDS%       | ○○○○X-○T○○S      | G34 Toolholder (Grooving)                                    |
| KGH%        | ○○○○□-○(○)       | G50 Toolholder (Grooving)                                    |
| KGHS%       | ○○○○□-○          | G50 Toolholder (Grooving)                                    |
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| KGIAR       | ○○○○B-○          | G78 Toolholder (Grooving)                                    |
| KGM%        | ○-○-○            | G45-G46, H32, H34 Toolholder (Grooving / Cut-Off)            |
| KGM%        | ○○-○             | G46, H32 Toolholder (Grooving / Cut-Off)                     |
| KGM%        | ○○○○□(□)-○(○)    | G45-G46, G144, H32, H41 Toolholder (Grooving / Cut-Off)      |
| KGM%        | ○○○○□-○(○)-○○(○) | G45-G46, G144, H32, H34, H41 Toolholder (Grooving / Cut-Off) |
| KGM%        | ○○-○T            | G45, G47, H33-H34 Toolholder (Grooving / Cut-Off)            |
| KGM%        | ○○○○□-○T○○       | G45, G47, H33-H34 Toolholder (Grooving / Cut-Off)            |
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| KGMS%       | ○○○○□-○          | G48 Toolholder (Grooving)                                    |
| KGMU%       | ○○○○□            | G49 Toolholder (Grooving)                                    |
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| KIGBA%      | ○○-○             | G72 Toolholder (Grooving)                                    |
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| KIGM%       | ○○○○B-○V        | G79 Toolholder (Grooving)                                |
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| KKC%        | ○(○)-○□(□)      | G41, J24 Toolholder (Cera-Notch Grooving / Threading)    |
| KKC%        | ○○○○□-○-○○OF    | G41, J24 Toolholder (Cera-Notch Grooving / Threading)    |
| KKCE%       | ○○-○□           | G129 Toolholder (Cera-Notch Face Grooving)               |
| KN91%       | 44-○            | P27 Toolholder (Grooving / Discontinued Description)     |
| KNMX        | ○○○○○○%(-□)     | B31 Insert (Turning)                                     |
| KPCO-DCLN   | %○○○○○-○○□      | N3 Polygon Shank Holder (Turning)                        |
| KPCO-DDHN   | %○○○○○-○○□      | N4 Polygon Shank Holder (Turning)                        |
| KPCO-DDJN   | %○○○○○-○○□      | N4 Polygon Shank Holder (Turning)                        |
| KPCO-DTGN   | %○○○○○-○○□      | N5 Polygon Shank Holder (Turning)                        |
| KPCO-DVLN   | %○○○○○-○○□      | N5 Polygon Shank Holder (Turning)                        |
| KPCO-DVPN   | %○○○○○-○○□      | N6 Polygon Shank Holder (Turning)                        |
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| KPCO-DWLN   | %○○○○○-○○□      | N7 Polygon Shank Holder (Turning)                        |
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| KPCO-KGD    | %○○○○○-○○T○     | N9 Polygon Shank Holder (Grooving / Cut-Off)             |
| KPCO-KTN    | %○○○○○-○○□      | N11 Polygon Shank Holder (Threading)                     |
| KPCO-SVJB   | %○○○○○-○○□      | N8 Polygon Shank Holder (Turning)                        |
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| KSTB        | S○○○□ CCET○○○   | E46 Sub-Spindle Tools                                    |
| KSTB        | S○○○/○○ DCET○○○ | E46 Sub-Spindle Tools                                    |
| KSTB        | S○○○□ DCET○○○   | E46 Sub-Spindle Tools                                    |
| KSTB        | S○○○/○○ VBET○○○ | E46 Sub-Spindle Tools                                    |
| KSTB        | S○○○□ VBET○○○   | E46 Sub-Spindle Tools                                    |
| KSTB        | S○○○/○○ TGFO○   | E47 Sub-Spindle Tools                                    |
| KSTB        | S○○○□ TGFO○     | E47 Sub-Spindle Tools                                    |
| KSTB        | S○○○/○○ TTO○    | E47 Sub-Spindle Tools                                    |
| KSTB        | S○○○□ TTO○      | E47 Sub-Spindle Tools                                    |
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| KTG%        | ○○○○□22-○○      | G22 Toolholder (Grooving)                                |
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| MSRS 90○○○○(○)R-○-○(○)T  | M102             | Face Mill                                   |
| MSRS 90○○○○R-○-○(○)T     | M103             | Face Mill                                   |
| MSRS 90○○○○R-○-○(○)T-M   | M103             | Face Mill                                   |
| MSSN% ○○-○□              | D14              | Toolholder (Turning)                        |
| MSTA ○○(○)□○○-○(○)T      | M156             | Slot Mill                                   |
| MSTA ○○□○○○-○(○)T        | M157             | Slot Mill                                   |
| MSTB ○○(○)□□○○○○-○T      | M160, M161       | Slot Mill                                   |
| MSTB ○○○○□□○○○○-○T       | M160             | Slot Mill                                   |
| MSTC ○○○□□○○○-○○○-○○     | M166, M168, M170 | Slot Mill                                   |
| MSTC ○○○□□○○○○-○○-○(○)T  | M166-M171        | Slot Mill                                   |
| MT- ○                    | K29              | Spare Parts (Screw / Insert Mounting Screw) |
| MTE-42                   | P11              | Spare Parts (Shim)                          |
| MTGN% ○○-○□              | D16              | Toolholder (Turning)                        |
| MTP 90○○                 | M113             | Face Mill (with Shank)                      |
| MTP 90-○○○-○○(○)W        | M113             | Face Mill (with Shank)                      |
| MTP 90-○○○-R○            | M113             | Face Mill (with Shank)                      |
| MTPS ○○○                 | P31              | End Mill                                    |
| MVG ○○○○                 | M220             | End Mill (Ring Grooving for M/C)            |
| MVJN% ○○-○□              | D21              | Toolholder (Turning)                        |
| MVLN% ○○○○□-○○           | D21              | Toolholder (Turning)                        |
| MVN-32                   | D21, P11         | Spare Parts (Shim)                          |
| MVNN ○○-○□               | D21              | Toolholder (Turning)                        |
| MVNN ○○○○□-○○            | D21              | Toolholder (Turning)                        |
| MWLN% ○○-○□              | D24              | Toolholder (Turning)                        |
| <b>N</b>                 |                  |   |
| NDCT ○○○TRX              | M20              | Insert (Milling)                            |
| NDCT ○○○□□               | M20              | Insert (Milling)                            |
| NDCT ○○○(□)(□)-B         | M20              | Insert (Milling)                            |
| NDCW ○○○FRX              | M20, M26         | Insert (Milling)                            |
| NDCW ○○○FRX-NE           | M26              | Insert (Milling)                            |
| NDCW ○○○(□)RX            | M20              | Insert (Milling)                            |
| NDCW ○○○(○)TR            | M20              | Insert (Milling)                            |
| NDMM ○○(□)○○○ER-N○       | M20              | Insert (Milling)                            |
| NDMM ○○(□)○○○ER-T        | M20              | Insert (Milling)                            |
| NDMM ○○○ER-SP            | M20              | Insert (Milling)                            |
| NDMT ○○(□)○○○(○)ER-D     | M20              | Insert (Milling)                            |

| Part Number             | Page   | Description                                    |
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| NDMT ○○(□)○○○(○)ER-DH   | M20  | Insert (Milling)                               |
| NEMT ○○(□)○○○(○)ER-D    | M20  | Insert (Milling)                               |
| NEMT ○○(□)○○○(○)ER-DH   | M20  | Insert (Milling)                               |
| NL34L                   | D16, D21   | Spare Parts (Lock Pin)                         |
| NL46                    | D8, D13, D14, D16, D24   | Spare Parts (Lock Pin)                         |
| NL46L                   | D26, D29, D31  | Spare Parts (Lock Pin)                         |
| NL58                    | D8   | Spare Parts (Lock Pin)                         |
| NL68                    | D8   | Spare Parts (Lock Pin)                         |
| <b>O</b>                |  |  |
| OFMR ○○○○○○EN-GT        | M21  | Insert (Milling)                               |
| OFMR ○○○○○○EN-SH        | M21  | Insert (Milling)                               |
| OFMT ○○○○○○EN-GT        | M21  | Insert (Milling)                               |
| OFMT ○○○○○○E-SH         | M21  | Insert (Milling)                               |
| <b>P</b>                |  |  |
| P-03                    | D17, N24, P8   | Spare Parts (Shim Pin)                         |
| P-03S                   | D17, F84, F91-F92, P8  | Spare Parts (Shim Pin)                         |
| P-37                    | M27, M29, M33-M34, M47, M54-M56, M77, M78, M80-M81, M83, M92-M93, M97, M98, M104, M107, M109, M126, M128-M132, M138-M141, M146-M147, M150, M161, M172-M173, M180, M184-M187, M191-M192, M195, M215 | Spare Parts (Anti-seize Compound)              |
| PC-1                    | D9, D13, D15, D17, D23, D25, D41, E43, F84-F85, F91-F92, N16, P21  | Spare Parts (Punch)                            |
| PC-2                    | D9, D13, D15, D17, D23, D25, D41, E42, F84, F87, F94, N15-N17, N24, P21  | Spare Parts (Punch)                            |
| PC-2K                   | F79, F80   | Spare Parts (Punch)                            |
| PCLN% ○○○○B-○○          | F84  | Boring Bar (Previous Description)              |
| PCLN% ○○○○B-○○H         | F84  | Boring Bar (Previous Description)              |
| PCLN% ○○-○□             | D9   | Toolholder (Turning)                           |
| PCLN% ○○○○□-○○          | D9   | Toolholder (Turning)                           |
| PCLNR ○○○○□□-○○FF       | E42  | Toolholder (Double Sided Tooling)              |
| PD-42                   | F87, P12   | Spare Parts (Shim)                             |
| PDHN% ○○○○□-○○          | D13  | Toolholder (Turning)                           |
| PDJN% ○○-○□             | D13  | Toolholder (Turning)                           |
| PDJN% ○○○○□-○○          | D13  | Toolholder (Turning)                           |
| PDJN% ○○○○-○○U          | D13  | Toolholder (Turning)                           |
| PDUN% ○○○○B-○○          | F85  | Boring Bar (Previous Description)              |
| PDUN% ○○○○B-○○H         | F85  | Boring Bar (Previous Description)              |
| PH ○○○○                 | F100   | Sleeve (for Micro-Bars / Previous Description) |
| PH ○○-○□□               | F100   | Sleeve (for Micro-Bars)                        |
| PH ○○○○-○○              | F100   | Sleeve (for Micro-Bars)                        |
| PNEA ○○○○XNTN-T01020    | M14  | Insert (Milling)                               |
| PNEG ○○○○XNEN-GL        | M14  | Insert (Milling)                               |
| PNEG ○○○○XNER-W         | M14  | Insert (Milling)                               |
| PNEG ○○○○XNTR-T00515(W) | M14  | Insert (Milling)                               |
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| PNMG ○○○○XNEN-GH  | M14           | Insert (Milling)   |
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| PNMU ○○○○ANER-GH  | M15           | Insert (Milling)   |
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| PNMU ○○○○XNER-GM  | M15           | Insert (Milling)   |
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| PRGC% ○○○□-○○BF   | D41           | Toolholder (Turning)   |
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| PSKN% ○○○□-○○     | D15           | Toolholder (Turning)   |
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| PTFNR ○○CA○○      | N24           | Toolholder (Cartridge)                                       |
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| PTFN% ○○○□-○○     | D17           | Toolholder (Turning)   |
| PTGNR ○○CA○○      | N24           | Toolholder (Cartridge)                                       |
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| R ○○-(R)-(-SET)         | M203      | Cartridge Set (API Ring Groover)        |
| R ○○-SET                | M203      | Cartridge Set (API Ring Groover)        |
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| RCMT ○○SR               | B74       | Insert (Turning)                        |
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| RDFG ○○FR               | M21       | Insert (Milling)                        |
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| RPMT ○○(□)○(○)M0ER-GM   | M16       | Insert (Milling)                        |
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| S00□- CCLN%00-00GX            | F96            | Boring Bars   |
| S00□- CDUN%00-00GX            | F96            | Boring Bars   |
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| S00(○)□- SCLCLO0              | E37            | Sleeve Holder (Turning)                                     |
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| S00□- SDUC%00-00A     | F51, F104-F105 | Boring Bars (Dynamic Bar)                                 |
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| S00□- SSKPRO0-00      | F76            | Boring Bars   |
| S00□- STLB%0.0AE      | F59, F104      | Boring Bars (Dynamic Bar)                                 |
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| S000□- STLBRO0-000EZP | F22            | Boring Bars (EZ Bar PLUS)                                 |
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| S000□- STLPRO0-000EZP | F22            | Boring Bars (EZ Bar PLUS)                                 |
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| S00□- STUP%00-00E     | F104           | Boring Bars (Discontinued Description)                    |
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| SDMT ○○○(○)(○)(○)E-K | M22   | Insert (Milling)                                |
| SDMT ○○○E-K          | M22   | Insert (Milling)                                |
| SDNCN ○(○)-○□(□)     | E27, E53                                    | Toolholder (Turning)                            |
| SDNCN ○○○□(□)-○○     | E27, E51                                    | Toolholder (Turning)                            |
| SDNC% ○-○□□F         | E27   | Toolholder (Turning)                            |
| SDNC% ○○○□(□)-○○F    | E27, E53                                    | Toolholder (Turning)                            |
| SDR -○○○○            | K108  | Toolholder (Drilling) Stinger Drill (SDR)       |
| SDXC% ○○○□□-○○       | E26, E53                                    | Toolholder (Turning)                            |
| SE-3070TRP           | M172-M173, P6                               | Spare Parts (Screw)                             |
| SE-3590TRP           | M172-M173, P6                               | Spare Parts (Screw)                             |
| SE-40050TRN          | M161-M162, P6                               | Spare Parts (Screw)                             |
| SE-40055TR           | M161-M162, P6                               | Spare Parts (Screw)                             |
| SE-40068TR           | M161-M162, P6                               | Spare Parts (Screw)                             |
| SE-40080TR           | M162, P6                                    | Spare Parts (Screw)                             |
| SE-40090TR           | M161-M162, P6                               | Spare Parts (Screw)                             |
| SE-40100TR           | M162, P6                                    | Spare Parts (Screw)                             |
| SE-40120TR           | G46, G144, H32, H41, P6                     | Spare Parts (Screw)                             |
| SE-50125TR           | G27, G29, G46, G144, H20, H23, H32, H41, P6 | Spare Parts (Screw)                             |
| SEEN ○○AFFN          | M26   | Insert (Milling)                                |
| SEEN ○○AFFR-W        | M26   | Insert (Milling)                                |
| SEEN ○○AFTN          | M10   | Insert (Milling)                                |
| SEEN ○○AFTR-W        | M10   | Insert (Milling)                                |
| SEKN ○○AFFN          | M10   | Insert (Milling)                                |
| SEKN ○○AFTN          | M10   | Insert (Milling)                                |
| SEKN ○○EFTR          | M10   | Insert (Milling)                                |

| Part Number           | Page                    | Description  |
|-----------------------|-------------------------|--|
| SEKR ○○AFEN-S         | M10                     | Insert (Milling)   |
| SEKT ○○AFEN-S         | M22                     | Insert (Milling)   |
| SEKW ○○AFTN           | M22                     | Insert (Milling)   |
| SEKW ○○○FN            | M22                     | Insert (Milling)   |
| SEKW ○○○OTN           | M22                     | Insert (Milling)   |
| SEMM ○○(□)○○○(○)PESR  | M22                     | Insert (Milling)   |
| SEMR ○○AFER-H         | M10                     | Insert (Milling)   |
| SEMT ○○○C             | M22                     | Insert (Milling)   |
| SFO○(○○)-DRA○○○M-○(○) | K11-K12, K15-K16        | Toolholder (Drilling) DRA MAGIC DRILL                          |
| SFO○-DR○○○M-○         | K30-K32                 | Toolholder (Drilling) DRC MAGIC DRILL                          |
| SF% - ○○○(○)□         | G124-G127               | Blade (Face Grooving)  |
| SF22F- KTGFL16-40P    | E48                     | Sub-Spindle Tools  |
| SF22F- KTTXL16-40P    | E48                     | Sub-Spindle Tools  |
| SF22F- SCLCL09-40P    | E48                     | Sub-Spindle Tools  |
| SF22F- SDUCL11-40P    | E48                     | Sub-Spindle Tools  |
| SF22F- SVUBL11-40P    | E48                     | Sub-Spindle Tools  |
| SH-50150TR            | P7                      | Spare Parts (Screw)  |
| SH- ○○○○              | F101                    | Sleeve (for Boring Bar / Previous Description)                 |
| SH ○○○○-○○○           | F101, F103              | Sleeve (for Boring Bar)  |
| SH3X6                 | M113                    | Spare Parts (Screw)  |
| SHA ○○○○(○)-○○○       | F100, G67               | Sleeve (for Small Tools SIGE)                                  |
| SHC ○○○○-○○           | F101                    | Coolant Sleeve (for Boring Bar)                                |
| SHC- ○○○○○○           | F101                    | Coolant Sleeve (for Boring Bar / Previous Description)         |
| SHE ○○○○-○○           | K90                     | Adjustable Sleeve (Drilling) for MAGIC DRILL (DRV / DRZ / DRX) |
| SHEM ○○○○-○○          | K91                     | Adjustable Sleeve (Drilling) for MAGIC DRILL (DRS Mini)        |
| SHL- ○                | F101                    | Spare Parts (Back Cover)                                       |
| SIGE% ○○EH            | G65-G66                 | Toolholder (Grooving)  |
| SIGE% ○○○□-EH         | G65-G66                 | Toolholder (Grooving)  |
| SIGE% ○○○○-WH         | G66                     | Toolholder (Grooving)  |
| SIGER ○○○○-WH-90      | G66-G67                 | Toolholder (Grooving / for Small Tools)                        |
| SI-GIV% ○○-○○         | G70-G71                 | Toolholder (Grooving)  |
| SIN% ○○○○S-○○         | J22, J35                | Toolholder (Threading)   |
| SIN% ○○○○S-○○E        | J22                     | Toolholder (Threading)   |
| SIT% ○○○○-○○          | F62, J37                | Toolholder (Boring / Threading)                                |
| SJLC% ○○○○○B-○○W      | F56                     | Boring Bar (Previous Description)                              |
| SJS- ○                | F84-F85, F91-F92, F102  | Coolant Joint  |
| SJZC% ○○○○○B-○○W      | F56                     | Boring Bar (Previous Description)                              |
| SKC-2                 | G41, G81, J24-J25       | Spare Parts (Clamp Screw)                                      |
| SKC-3                 | G41, G81, G129, J24-J25 | Spare Parts (Clamp Screw)                                      |
| SL- ○(○-○○)           | F101                    | Sleeve (for Boring Bar)  |
| SLS-1                 | F100-F101               | Sleeve (for Boring Bar)  |
| SLS-2                 | F101                    | Sleeve (for Boring Bar)  |
| SLT ○○-○○□□           | M158                    | Insert (Slot Mill MSTA)  |
| SM○○○○○A              | N24-N26                 | Spare Parts (Plate)  |
| SM○○○○○B              | N24-N26                 | Spare Parts (Plate)  |

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

## Part Numbers in Alphanumeric Order

○ : NUMBER □ : LETTER

| Part Number      | Page      | Description                |
|------------------|-----------|----------------------------|
| SNCN ○○XNTN      | M11       | Insert (Milling)           |
| SNGA ○○○         | B35       | Insert (Turning)           |
| SNGA ○○○MEF      | C10       | Insert (Turning)           |
| SNGA ○○○○○○○○    | B109      | Insert (Turning)           |
| SNGA ○○○○○○○○ME  | C10       | Insert (Turning)           |
| SNGA ○○○○○○○○MEH | C10       | Insert (Turning)           |
| SNGA ○○○○○○○○MEP | C10       | Insert (Turning)           |
| SNGA ○○○○○○○○MET | C10       | Insert (Turning)           |
| SNGA ○○○○○○○○    | B109      | Insert (Turning)           |
| SNGA ○○○○○○○○AA  | B109      | Insert (Turning)           |
| SNGA ○○○○○○○○ME  | C10       | Insert (Turning)           |
| SNGG ○○○%L-25R   | B35       | Insert (Turning)           |
| SNGG ○○○%L-B/C   | B35       | Insert (Turning)           |
| SNG ○○○○○○○○     | B109      | Insert (Turning)           |
| SNG ○○○○○○○○     | B109-B110 | Insert (Turning)           |
| SNG ○○○○○○○○AA   | B109      | Insert (Turning)           |
| SNGX ○○○○○○○○    | B110      | Insert (Turning)           |
| SNKN ○○XNTN      | M11       | Insert (Milling)           |
| SNM ○○○          | B35, C19  | Insert (Turning / Milling) |
| SNM ○○○○○○○○     | B110      | Insert (Turning)           |
| SNMA ○○○         | B35       | Insert (Turning)           |
| SNMA ○○○○○○○○AA  | B109      | Insert (Turning)           |
| SNMF ○○○○○○-21   | B103, F78 | Insert (Turning)           |
| SNMF ○○XNTN      | M11       | Insert (Milling)           |
| SNMG ○○○         | B32       | Insert (Turning)           |
| SNMG ○○○C        | B34       | Insert (Turning)           |
| SNMG ○○○(O)GC    | B34       | Insert (Turning)           |
| SNMG ○○○HQ       | B32       | Insert (Turning)           |
| SNMG ○○○HS       | B32       | Insert (Turning)           |
| SNMG ○○○KG       | B34       | Insert (Turning)           |
| SNMG ○○○KH       | B34       | Insert (Turning)           |
| SNMG ○○○MQ       | B34       | Insert (Turning)           |
| SNMG ○○○MS       | B34       | Insert (Turning)           |
| SNMG ○○○MU       | B34       | Insert (Turning)           |
| SNMG ○○○PG       | B32       | Insert (Turning)           |
| SNMG ○○○PH       | B33       | Insert (Turning)           |
| SNMG ○○○PQ       | B32       | Insert (Turning)           |
| SNMG ○○○PS       | B32       | Insert (Turning)           |
| SNMG ○○○PT       | B32       | Insert (Turning)           |
| SNMG ○○○%L-C     | B35       | Insert (Turning)           |
| SNMG ○○○SG       | B34       | Insert (Turning)           |
| SNMG ○○○XP       | B33       | Insert (Turning)           |
| SNMG ○○○XQ       | B33       | Insert (Turning)           |
| SNMG ○○○XS       | B33       | Insert (Turning)           |
| SNMG ○○○ZS       | B34       | Insert (Turning)           |
| SNMM ○○○PX       | B33       | Insert (Turning)           |
| SNMU ○○○○○○EN-GH | M16, M98  | Insert (Milling)           |
| SNMU ○○○○○○EN-GM | M16, M98  | Insert (Milling)           |
| SNMU ○○○○○○EN-SM | M16, M98  | Insert (Milling)           |

| Part Number      | Page  | Description          |
|------------------|---|----------------------|
| SOKN 13T3AXFN    | M26   | Insert (Milling)     |
| SOKN 13T3AXTN    | M10   | Insert (Milling)     |
| SOKR 13T3AXEN-J  | M10   | Insert (Milling)     |
| SOMT ○○○○AXEN-J  | M22   | Insert (Milling)     |
| SOMT ○○○○○○ER-FL | M17   | Insert (Milling)     |
| SOMT ○○○○○○ER-GM | M17   | Insert (Milling)     |
| SOMT ○○○○○○ER-LD | M17   | Insert (Milling)     |
| SOMW ○○○○AXFN    | M22   | Insert (Milling)     |
| SOMW ○○○○AXTN    | M22   | Insert (Milling)     |
| SP-2D            | D16, D24, N5, P20   | Spare Parts (Spring) |
| SP-3D            | D8, D12, D14, D24, F83, F86, F89-F90, F93, N3, N5-N7, P20 | Spare Parts (Spring) |
| SP-5             | G78, P20  | Spare Parts (Spring) |
| SP-5D            | D20, P20  | Spare Parts (Spring) |
| SP-6             | G50-G51, G76, P20   | Spare Parts (Spring) |
| SP-8             | P20   | Spare Parts (Spring) |
| SP3X4            | F34-F35, F37, P7  | Spare Parts (Screw)  |
| SP3X6            | M44, P7   | Spare Parts (Screw)  |
| SP3X8            | D42, E44-E45, J20-J22, M113, N11, N19, P7                 | Spare Parts (Screw)  |
| SP3X10           | F77, P7   | Spare Parts (Screw)  |
| SP4X9            | P7  | Spare Parts (Screw)  |
| SP8X35           | P7  | Spare Parts (Screw)  |
| SP-129           | D38-D39, P12  | Spare Parts (Shim)   |
| SP-130A          | F95, P12  | Spare Parts (Shim)   |
| SP-141           | D29, D34-D35, D38-D39, P12                                | Spare Parts (Shim)   |
| SP-141P          | F95-F96, P13  | Spare Parts (Shim)   |
| SP-143           | D29, D38-D39, P12   | Spare Parts (Shim)   |
| SP-143P          | F95, P13  | Spare Parts (Shim)   |
| SP-148           | D38-D39, P12  | Spare Parts (Shim)   |
| SP-162           | D29, D34-D35, P12   | Spare Parts (Shim)   |
| SP-210A          | F97, P13  | Spare Parts (Shim)   |
| SP-219           | D40, P12  | Spare Parts (Shim)   |
| SP-221           | D30, P12  | Spare Parts (Shim)   |
| SP-223           | D30, P12  | Spare Parts (Shim)   |
| SP-230P          | P13   | Spare Parts (Shim)   |
| SP-341P          | F95   | Spare Parts (Shim)   |
| SP-342           | D27, P12  | Spare Parts (Shim)   |
| SP-420A          | F97, P13  | Spare Parts (Shim)   |
| SP-429           | D36   | Spare Parts (Shim)   |
| SP-441           | D26, D32, N3, P12   | Spare Parts (Shim)   |
| SP-441P          | F96, N3   | Spare Parts (Shim)   |
| SP-443           | D26, P12  | Spare Parts (Shim)   |
| SP-443P          | P13   | Spare Parts (Shim)   |
| SP-454           | D26, P12  | Spare Parts (Shim)   |
| SP-521           | D33, P12  | Spare Parts (Shim)   |
| SP-521P          | F96, P13  | Spare Parts (Shim)   |
| SP-523           | P12   | Spare Parts (Shim)   |
| SP-523P          | P13   | Spare Parts (Shim)   |

Part Numbers in Alphanumeric Order

○ : NUMBER □ : LETTER

| Part Number        | Page                                   | Description                             |
|--------------------|--|---|
| SP-541             | D33, P12                               | Spare Parts (Shim)                      |
| SP-543             | P12                                    | Spare Parts (Shim)                      |
| SP-826             | D37, P12                               | Spare Parts (Shim)                      |
| SP-829             | D37, P12                               | Spare Parts (Shim)                      |
| SP-841             | D31, D37, P12                          | Spare Parts (Shim)                      |
| SP-843             | D31, D37, P12                          | Spare Parts (Shim)                      |
| SP-849             | D37, P12                               | Spare Parts (Shim)                      |
| SP-861             | D31, P12                               | Spare Parts (Shim)                      |
| SPCN ○○EDTR        | M11                                    | Insert (Milling)                        |
| SPCN ○○EETR1       | M11                                    | Insert (Milling)                        |
| SPCN ○○XPTR        | M11                                    | Insert (Milling)                        |
| SPCT ○○T○○○□□-□□   | M174                                   | Insert (Milling)                        |
| SPCT ○○T○○○□□%-□□  | M174                                   | Insert (Milling)                        |
| SPD ○○○○-○○○       | L172                                   | Spotting or Chamfering Engraver (Spade) |
| SPEN ○○EEER        | M11                                    | Insert (Milling)                        |
| SPEN ○○EESR        | M11                                    | Insert (Milling)                        |
| SPET ○○T○○○□□%-□□  | M174                                   | Insert (Milling)                        |
| SPG ○○○            | B75, C29                               | Insert (Turning / Milling)              |
| SPG ○○ONE          | C29                                    | Insert (Turning / Milling)              |
| SPG ○○○T○○○○○AA    | B113                                   | Insert (Turning)                        |
| SPG ○○○T○○○○○      | B113                                   | Insert (Turning)                        |
| SPGH ○○○%          | B75                                    | Insert (Turning)                        |
| SPGR ○○○%          | B75                                    | Insert (Turning)                        |
| SPKN ○○EDER        | M11                                    | Insert (Milling)                        |
| SPKN ○○EDFR        | M11                                    | Insert (Milling)                        |
| SPKN ○○EDT%        | M11                                    | Insert (Milling)                        |
| SPKN ○○XETR        | M11                                    | Insert (Milling)                        |
| SPKN ○○XPFR        | M11                                    | Insert (Milling)                        |
| SPKN ○○XPTR        | M11                                    | Insert (Milling)                        |
| SPKR ○○EDER-S      | M11                                    | Insert (Milling)                        |
| SPM ○○○            | B75                                    | Insert (Turning / Milling)              |
| SPMR ○○○           | B75                                    | Insert (Turning / Milling)              |
| SPMR ○○○G          | B75                                    | Insert (Turning / Milling)              |
| SPMR ○○EDER-H      | M11                                    | Insert (Milling)                        |
| SPMT ○○○○EDER-NBO  | M23                                    | Insert (Milling)                        |
| SPMT ○○○○EDER-NBOP | M23                                    | Insert (Milling)                        |
| SPMT ○○○○EDER-V    | M23                                    | Insert (Milling)                        |
| SPMT ○○○○EDS%-NBOT | M23                                    | Insert (Milling)                        |
| SPMT ○○○○○EN-NBO   | M24                                    | Insert (Milling)                        |
| SPMT ○○○○○EN-NBOP  | M24                                    | Insert (Milling)                        |
| SPMT ○○○○○EN-V     | M24                                    | Insert (Milling)                        |
| SPMT ○○○○○E-Z      | M24                                    | Insert (Milling)                        |
| SP-RC              | D42                                    | Spare Parts (Shim)                      |
| SPW-6045           | P7                                     | Spare Parts (Screw)                     |
| SPW-7050           | M27, M92, P7                           | Spare Parts (Screw)                     |
| SRCP% ○○○○B-○○-A○○ | F78                                    | Boring Bar (for Bearing Machining)      |
| SS-4N              | E31-E32, F64, F67, F69, N7-N8, N18, P7 | Spare Parts (Shim Screw)                |

| Part Number             | Page                               | Description   |
|-------------------------|------------------------------------|---|
| SS○○(○○)-DRA○○○○M-○(,○) | K13-K14, K17-K18                   | Toolholder (Drilling) DRA MAGIC DRILL                     |
| SS○○-DR○○○○M-○          | K25-K27                            | Toolholder (Drilling) DRC MAGIC DRILL                     |
| SSKPR ○○○○B-○○          | F76                                | Boring Bar (Previous Description)                         |
| STDER ○○○A○○            | N26                                | Toolholder (Cartridge)                                    |
| STDPR ○○○A○○            | N26                                | Toolholder (Cartridge)                                    |
| STEER ○○○A○○            | N26                                | Toolholder (Cartridge)                                    |
| STEPR ○○○A○○            | N26                                | Toolholder (Cartridge)                                    |
| STFER ○○○A○○            | N26                                | Toolholder (Cartridge)                                    |
| STFPR ○○○A○○            | N26                                | Toolholder (Cartridge)                                    |
| STGC% ○-○(,○)□          | E29                                | Toolholder (Turning)                                      |
| STGC% ○○○○□-○○          | E29                                | Toolholder (Turning)                                      |
| STGP% ○○○○□-○○          | E29                                | Toolholder (Turning)                                      |
| STLNR ○(○)-○.○○□F       | E41                                | Toolholder (for Small Double-Sided Tools)                 |
| STLNR ○○○○□-○○FF        | E41                                | Toolholder (for Small Double-Sided Tools)                 |
| STVP% ○○-○              | J23                                | Toolholder (Threading)                                    |
| STW% ○○○○□-15           | F39, G90                           | Toolholder (for Twin Bars)                                |
| STWSR ○○○○□(□)-15T      | F40, G91                           | Toolholder (for Twin Bars)                                |
| STXB% ○○○○B-○○W         | F63                                | Boring Bar (Previous Description)                         |
| STXP% ○○○○B-○○W         | F63                                | Boring Bar (Previous Description)                         |
| STZB% ○○○○B-○○W         | F63                                | Boring Bar (Previous Description)                         |
| SV-60136R               | P7                                 | Spare Parts (Screw)                                       |
| SV-60136TR              | P7                                 | Spare Parts (Screw)                                       |
| SVJB% ○(○)-○□(□)        | E30-E31, E53                       | Toolholder (Turning)                                      |
| SVJB% ○○○○□-○○          | E31, E53                           | Toolholder (Turning)                                      |
| SVJB% ○○○○□-○○F         | E53                                | Toolholder (Turning / Discontinued Description)           |
| SVJB% ○(○)-○□□FF        | E30, E53                           | Toolholder (Turning)                                      |
| SVJB% ○○○○□□-○○FF       | E30, E53                           | Toolholder (Turning)                                      |
| SVJB% ○○○○□-○○(N)       | E31                                | Toolholder (Turning)                                      |
| SVJBR ○○○○□-○○FFJCT     | E30                                | Toolholder (Turning)                                      |
| SVJC% ○○○○□(□)-○○FF     | E33                                | Toolholder (Turning)                                      |
| SVJP% ○(○)-○□□FF        | E35, E54                           | Toolholder (Turning)                                      |
| SVJP% ○○○○□(□)-○○FF     | E35, E54                           | Toolholder (Turning)                                      |
| SVJPR ○○○○□-○○FFJCT     | E35                                | Toolholder (Turning)                                      |
| SVLP% ○○○○-○○F          | E54                                | Toolholder (Turning / Discontinued Description)           |
| SVLP% ○(○)-○(○)□□FF     | E35, E54                           | Toolholder (Turning)                                      |
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| SVLPR ○○○○□□-○○-FOO     | E21                                | Toolholder (Goose-neck Holder)                            |
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| T ○○○○○○○○ER        | L147                                 | TITAN-AX High Performance Square End Mill (Extended Reach)                       |
| T ○○○○○○○○CR        | L148-L149                            | TITAN-AX High Performance Inch Corner Radius End Mill (Stub & Standard Length)   |
| T ○○○○○○○○CRO       | L148-L149                            | TITAN-AX High Performance Metric Corner Radius End Mill (Stub & Standard Length) |
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| T33AH               | E45                                  | Spare Parts (Chipbreaker)  |
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| TBG ○○○○F                 | C18            | Insert (Turning)                                  |
| TBG ○○○○(○)T○○○○○AA       | B113           | Insert (Turning)                                  |
| TBG ○○○○(○)T○○○○○         | C18            | Insert (Turning)                                  |
| TBGT ○○○○○CF              | B76            | Insert (Turning)                                  |
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| TBGT ○○○○○M-CF            | B76            | Insert (Turning)                                  |
| TBGT ○○○○(○)MFP-PF        | B76            | Insert (Turning)                                  |
| TBGT ○○○○○MP-CF           | B76            | Insert (Turning)                                  |
| TBGT ○○○○(○)%             | B76            | Insert (Turning)                                  |
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| TCG ○○○(○)(○)T○○○○○       | B113           | Insert (Turning)                                  |
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| TCGT ○○○(○)(○)(○)E%-U     | B78            | Insert (Turning)                                  |
| TCGT ○○○○(○)(○)F%-U       | B78            | Insert (Turning)                                  |
| TCGT ○○○(○)(○)(○)ME%-U    | B78            | Insert (Turning)                                  |
| TCGT ○○○(○)(○)(○)(○)MF%-U | B78            | Insert (Turning)                                  |
| TCGT ○○○○(○)%             | B79            | Insert (Turning)                                  |
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| TCGW ○○○(○)(○)(○)         | B79, C26       | Insert (Turning)                                  |
| TCGW ○○○(○)NE             | C26            | Insert (Turning)                                  |
| TCGW ○○○(○)SE             | C26            | Insert (Turning)                                  |
| TCMT ○○○○(○)(○)           | C26            | Insert (Turning)                                  |
| TCMT ○○○○○HP              | K107, K110     | Insert (Drilling) Counterbore                     |
| TCMT ○○○○(○)(○)HQ         | B77, K110-K111 | Insert (Turning/Drilling) Counterbore/Countersink |
| TCMT ○○○(○)(○)(○)NE       | C26            | Insert (Turning)                                  |
| TCMT ○○○(○)SE             | C26            | Insert (Turning)                                  |
| TCMX ○○○○(○)WP            | B77            | Insert (Turning)                                  |
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| TEEN ○OPTTR               | M12            | Insert (Milling)                                  |
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| TEMT ○○○○○○-AQ      | M24                     | Insert (Milling)                             |
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| TGF ○○%○○○-○○○      | C30, G21                | Insert (Grooving)                            |
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| TKFB ○○R○○○○○OM     | B100, E12               | Insert (Back Turning)                        |
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| TNEG ○○○(○)%-SSF    | B42                     | Insert (Turning)                             |
| TNGA ○○○            | B40                     | Insert (Turning)                             |
| TNGA ○○○MEF         | C10                     | Insert (Turning)                             |
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| TNGA ○○○S○○○○○      | B111                    | Insert (Turning)                             |
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| TNGA ○○○T○○○○○AA    | B111                    | Insert (Turning)                             |
| TNGA ○○○T○○○○○OME   | C11                     | Insert (Turning)                             |
| TNGA ○○○T○○○○○OSE   | C11                     | Insert (Turning)                             |
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| TNGG ○○○FP-TK       | B39                     | Insert (Turning)                             |
| TNGG ○○○(○)MFP-SK   | B38                     | Insert (Turning)                             |
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| TNGG ○○○(○)%-S       | B42  | Insert (Turning)   |
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| TNG ○○○T○○○○○        | B111 | Insert (Turning)   |
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| TNGU ○○○○(○)(○)MFR-F | B52  | Insert (Turning)   |
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| TNMG ○○○CQ           | B36  | Insert (Turning)   |
| TNMG ○○○GC           | B40  | Insert (Turning)   |
| TNMG ○○○(○)GP        | B36  | Insert (Turning)   |
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| TNMG ○○○PH           | B37  | Insert (Turning)   |
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| TNMM ○○○(○)M-NE            | C23                | Insert (Turning)                          |
| TNMM ○○○(○)M-SE            | C23                | Insert (Turning)                          |
| TNMM ○○○PX                 | B38                | Insert (Turning)                          |
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| TNN ○○E%○○(○)NPT           | J14                | Insert (Threading / Previous description) |
| TNN ○○EROOPT               | J12                | Insert (Threading / Previous description) |
| TNN ○○EROOUN               | J8                 | Insert (Threading / Previous description) |
| TNN ○○EROOW                | J10                | Insert (Threading / Previous description) |
| TNN ○○E%○○OM               | J6                 | Insert (Threading / Previous description) |
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| TNN ○○I%○○OUN              | J9                 | Insert (Threading / Previous description) |
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| TNN ○○IRO○○○(○)            | J17, J19, J44      | Insert (Threading / Previous description) |
| TNW-32                     | P14                | Spare Parts (Shim)                        |
| TPEH ○○○(○)(○)M%-P         | B85                | Insert (Turning)                          |
| TPET ○○○○(○)(○)F%-USF      | B86                | Insert (Turning)                          |
| TPET ○○○○(○)(○)MF%-USF     | B86                | Insert (Turning)                          |
| TPET ○○○○(○)(○)M%-FSF      | B85                | Insert (Turning)                          |
| TPET ○○○○(○)(○)%-FSF       | B85                | Insert (Turning)                          |
| TPGB ○○○(○)(○)(○)          | B86, C27, J37, J47 | Insert (Turning / Threading)              |
| TPGB ○○○MEF                | C16                | Insert (Turning)                          |
| TPGB ○○○(○)(○)(○)NE        | C27                | Insert (Turning)                          |
| TPGB ○○○(○)(○)(○)SE        | C26                | Insert (Turning)                          |
| TPGB ○○○S○○○○OMES          | C16                | Insert (Turning)                          |
| TPGB ○○○(○)S○○○○OMET       | C16                | Insert (Turning)                          |
| TPGB ○○○(○)(○)(○)S○○○○OSET | C16                | Insert (Turning)                          |
| TPGB ○○○(○)T○○○○○OME       | C16                | Insert (Turning)                          |
| TPGB ○○○(○)(○)(○)T○○○○○OSE | C16                | Insert (Turning)                          |
| TPGH ○○○(○)(○)(○)M%        | B83                | Insert (Turning)                          |
| TPGH ○○○(○)M%-H            | B84                | Insert (Turning)                          |
| TPGH ○○○(○)(○)(○)%         | B82                | Insert (Turning)                          |
| TPGH ○○○(○)(○)(○)%-H       | B84                | Insert (Turning)                          |
| TPG ○○○(○)(○)(○)           | B88, C29, M12, M26 | Insert (Turning / Milling)                |
| TPG ○○○ONE                 | C29                | Insert (Turning / Milling)                |
| TPG ○○○(○)SE               | C29                | Insert (Turning / Milling)                |
| TPG ○○○S○○○○OSET           | C18                | Insert (Turning)                          |
| TPG ○○○(○)(○)T○○○○○        | B113               | Insert (Turning)                          |
| TPG ○○○(○)(○)T○○○○○AA      | B113               | Insert (Turning)                          |

| Part Number         | Page                       | Description                               |
|---------------------|----------------------------|---|
| TPG ○○○(○)T○○○○○OME | C18                        | Insert (Turning)                          |
| TPG ○○○(○)T○○○○○OSE | C18                        | Insert (Turning)                          |
| TPGR ○○○(○)%-A/B/C  | B88                        | Insert (Turning)                          |
| TPGR ○○○○(○)%-F     | B87                        | Insert (Turning)                          |
| TPGT ○○○(○)AP       | B86                        | Insert (Turning)                          |
| TPGT ○○○○○OCF       | B80                        | Insert (Turning)                          |
| TPGT ○○○○○OM-CF     | B80                        | Insert (Turning)                          |
| TPGT ○○○○(○)MFP-PF  | B80                        | Insert (Turning)                          |
| TPGT ○○○○○OMP-CF    | B80                        | Insert (Turning)                          |
| TPGT ○○○(○)%-H      | B84                        | Insert (Turning)                          |
| TPGW ○○○S○○○○OMET   | C16                        | Insert (Turning)                          |
| TPGW ○○○S○○○○OSET   | C16                        | Insert (Turning)                          |
| TPGW ○○○T○○○○○OME   | C16                        | Insert (Turning)                          |
| TPGW ○○○T○○○○○OSE   | C16                        | Insert (Turning)                          |
| TPK ○○PDR           | M12                        | Insert (Milling)                          |
| TPK ○○PDTR          | M12                        | Insert (Milling)                          |
| TPKR ○○PDER-S       | M12                        | Insert (Milling)                          |
| TPM ○○○             | B88, M12                   | Insert (Turning / Milling)                |
| TPMC ○○NV○○○○○      | J23                        | Insert (Threading)                        |
| TPMH ○○○(○)(○)(○)   | C27                        | Insert (Turning)                          |
| TPMH ○○○(○)(○)(○)NE | C27                        | Insert (Turning)                          |
| TPMH ○○○(○)%-NE     | C28                        | Insert (Turning)                          |
| TPMH ○○○(○)(○)(○)SE | C27                        | Insert (Turning)                          |
| TPMR ○○○            | B87                        | Insert (Turning)                          |
| TPMR ○○○DP          | B87                        | Insert (Turning)                          |
| TPMR ○○○(○)(○)(○)G  | B87                        | Insert (Turning)                          |
| TPMR ○○○GP          | B87                        | Insert (Turning)                          |
| TPMR ○○○HQ          | B87                        | Insert (Turning)                          |
| TPMR ○○PDER-H       | M12                        | Insert (Milling)                          |
| TPMT ○○○(○)(○)(○)GP | B81                        | Insert (Turning)                          |
| TPMT ○○○(○)(○)(○)HQ | B81                        | Insert (Turning)                          |
| TPMT ○○○(○)(○)(○)PP | B80                        | Insert (Turning)                          |
| TPMT ○○○(○)(○)XP    | B81                        | Insert (Turning)                          |
| TPMT ○○○XQ          | B81                        | Insert (Turning)                          |
| TPMX ○○○(○)(○)(○)WP | B80                        | Insert (Turning)                          |
| TS-3S               | D21, P8                    | Spare Parts (Lock Pin)                    |
| TTW-15              | M27, M29, M92-M93, M215    | Spare Parts (Torx Wrench / T-Shape Type)  |
| TT-15               | M38-M40, P20               | Spare Parts (Torx Wrench / T-shaped Type) |
| TT-15L              | M161, M163                 | Spare Parts (Torx Wrench / T-Shape Type)  |
| TT-25               | M180, P20                  | Spare Parts (Torx Wrench / T-shaped Type) |
| TT-25L              | M47, M104, M107, M109, P20 | Spare Parts (Torx Wrench / T-shaped Type) |
| TT-30               | M180, P20                  | Spare Parts (Torx Wrench / T-shaped Type) |
| TT 43E%○○○○         | J30                        | Insert (Threading)                        |
| TT ○○%○○○○          | J30-J31, J45-J46           | Insert (Threading)                        |
| TTC-20              | P20                        | Spare Parts (Torx Wrench / T-shaped Type) |
| TTC-25              | P20                        | Spare Parts (Torx Wrench / T-shaped Type) |

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○ : NUMBER □ : LETTER

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| TTP-20                 | M126, M128, M131, M184-M187, M191-M192, M195, P20 | Spare Parts (Torx Plus Wrench / T-shaped Type)        |
| TTX 32R○○○○(○)         | J29, J46  | Insert (Threading)                                    |
| TTX 32R○○○○(○)S        | J29, J46  | Insert (Threading)                                    |
| TWBR ○○○○-○○○          | F39   | Twin Bars (Boring)                                    |
| TWBTR ○○○○-○○○         | F40   | Twin Bars (Boring)                                    |
| TWFG L ○○○             | G90   | Twin Bars (Face Grooving)                             |
| TWFGTR ○○○             | G91   | Twin Bars (Face Grooving)                             |
| <b>V</b>               |   |   |
| VBET ○○○(○)M% -F       | B90   | Insert (Turning)                                      |
| VBET ○○○(○)M% -FSF     | B89   | Insert (Turning)                                      |
| VBET ○○○(○)% -FSF      | B89   | Insert (Turning)                                      |
| VBET ○○○(○)(○)M% -Y    | B90   | Insert (Turning)                                      |
| VBGT ○○○(○)FN-Z        | B90   | Insert (Turning)                                      |
| VBGT ○○○(○)M% -F       | B90   | Insert (Turning)                                      |
| VBGT ○○○(○)(○)M% -Y    | B91   | Insert (Turning)                                      |
| VBGT ○○○% -F           | B90   | Insert (Turning)                                      |
| VBGT ○○○(○)% -Y        | B91   | Insert (Turning)                                      |
| VBGW ○○○MEF            | C17   | Insert (Turning)                                      |
| VBGW ○○○S○○○○○MES      | C17   | Insert (Turning)                                      |
| VBGW ○○○(○)S○○○○○MET   | C17   | Insert (Turning)                                      |
| VBGW ○○○S○○○○○SET      | C17   | Insert (Turning)                                      |
| VBGW ○○○(○)T○○○○○OME   | C17   | Insert (Turning)                                      |
| VBGW ○○○(○)T○○○○○OSE   | C17   | Insert (Turning)                                      |
| VBMT ○○○(○)(○)         | C28   | Insert (Turning)                                      |
| VBMT ○○○GP             | B89   | Insert (Turning)                                      |
| VBMT ○○○HQ             | B89   | Insert (Turning)                                      |
| VBMT ○○○(○)NE          | C28   | Insert (Turning)                                      |
| VBMT ○○○(○)PP          | B89   | Insert (Turning)                                      |
| VBMT ○○○(○)SE          | C28   | Insert (Turning)                                      |
| VBMT ○○○(○)VF          | B89   | Insert (Turning)                                      |
| VCET ○○○(○)M% -F       | B93   | Insert (Turning)                                      |
| VCET ○○○(○)(○)M% -Y    | B93   | Insert (Turning)                                      |
| VCGT ○○○               | B93   | Insert (Turning)                                      |
| VCGT ○○○AH             | B93   | Insert (Turning)                                      |
| VCGT ○○○AP             | B93   | Insert (Turning)                                      |
| VCGT ○○○% -A3          | B93   | Insert (Turning)                                      |
| VCGT ○○○(○)FN-Z        | B93   | Insert (Turning)                                      |
| VCGT ○○○MFP-GF         | B92   | Insert (Turning)                                      |
| VCGT ○○○MP-CF          | B92   | Insert (Turning)                                      |
| VCGW ○○○○○(○)S○○○○○MET | C17   | Insert (Turning)                                      |
| VCGW ○○○○○S○○○○○SET    | C17   | Insert (Turning)                                      |
| VCGW ○○○○○(○)T○○○○○OME | C17   | Insert (Turning)                                      |
| VCGW ○○○○○(○)T○○○○○OSE | C17   | Insert (Turning)                                      |
| VCMT ○○○○○(○)          | C28   | Insert (Turning)                                      |
| VCMT ○○○(○)(○)(○)HQ    | B92, M25  | Insert (Turning/Milling) / API Insert (Ring Grooving) |
| VCMT ○○○○○(○)NE        | C28   | Insert (Turning)                                      |
| VCMT ○○○(○)(○)(○)PP    | B92   | Insert (Turning)                                      |
| VCMT ○○○○○(○)SE        | C28   | Insert (Turning)                                      |

| Part Number             | Page     | Description                   |
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| VCMT ○○○○○(○)VF         | B92      | Insert (Turning)              |
| VNBR ○○○○-○○(○)         | F33      | Swiss IQ Bars (Boring)        |
| VNBR ○○○○-○○(○)NB       | C34, F33 | Swiss IQ Bars (Boring)        |
| VNBR ○○○○(○○)-○○(○)S    | F32      | Swiss IQ Bars (Boring)        |
| VNBTR ○○○○-○○(○)        | F33      | Swiss IQ Bars (Boring)        |
| VNBXR ○○○○(○)-○○(○)S    | F36      | Swiss IQ Bars (Boring)        |
| VNFG R ○○○○-○○          | G88      | Swiss IQ Bars (Face Grooving) |
| VNFG R ○○○○-○○NB        | C34, G88 | Swiss IQ Bars (Face Grooving) |
| VNGA ○○○                | B45      | Insert (Turning)              |
| VNGA ○○○MEF             | C12      | Insert (Turning)              |
| VNGA ○○○ME4             | C12      | Insert (Turning)              |
| VNGA ○○○S○○○○○          | B112     | Insert (Turning)              |
| VNGA ○○○(○)S○○○○○OME    | C12      | Insert (Turning)              |
| VNGA ○○○S○○○○○OMEH      | C12      | Insert (Turning)              |
| VNGA ○○○S○○○○○OME P     | C12      | Insert (Turning)              |
| VNGA ○○○S○○○○○OMET      | C12      | Insert (Turning)              |
| VNGA ○○○(○)S○○○○○OSE    | C12      | Insert (Turning)              |
| VNGA ○○○S○○○○○SET       | C12      | Insert (Turning)              |
| VNGA ○○○T○○○○○          | B112     | Insert (Turning)              |
| VNGA ○○○T○○○○○AA        | B112     | Insert (Turning)              |
| VNGA ○○○T○○○○○OME       | C12      | Insert (Turning)              |
| VNGG ○○○MFP-SK          | B44      | Insert (Turning)              |
| VNGG ○○○○MU             | B45      | Insert (Turning)              |
| VNGG ○○○(○)M-SK         | B44      | Insert (Turning)              |
| VNGG ○○○(○)%            | B45      | Insert (Turning)              |
| VNGR ○○○○-○○            | G60      | Swiss IQ Bars (Grooving)      |
| VNGR ○○○○-○○NB          | C34, G60 | Swiss IQ Bars (Grooving)      |
| VNMA ○○○T○○○○○AA        | B112     | Insert (Turning)              |
| VNMG ○○○                | B44      | Insert (Turning)              |
| VNMG ○○○(○)GP           | B44      | Insert (Turning)              |
| VNMG ○○○HQ              | B44      | Insert (Turning)              |
| VNMG ○○○KG              | B45      | Insert (Turning)              |
| VNMG ○○○KH              | B45      | Insert (Turning)              |
| VNMG ○○○MQ              | B45      | Insert (Turning)              |
| VNMG ○○○MS              | B45      | Insert (Turning)              |
| VNMG ○○○MU              | B45      | Insert (Turning)              |
| VNMG ○○○(○)PP           | B44      | Insert (Turning)              |
| VNMG ○○○PQ              | B44      | Insert (Turning)              |
| VNMG ○○○% VC            | B44      | Insert (Turning)              |
| VNMG ○○○SG              | B45      | Insert (Turning)              |
| VNMG ○○○TN-V            | B44      | Insert (Turning)              |
| VNMG ○○○VF              | B44      | Insert (Turning)              |
| VNMM ○○○(○)M            | C23      | Insert (Turning)              |
| VNMM ○○○(○)M-NE         | C23      | Insert (Turning)              |
| VNMM ○○○(○)M-SE         | C23      | Insert (Turning)              |
| VNTR ○○○-○○             | J36      | Swiss IQ Bars (Threading)     |
| VPET ○○○○○(○)(○)F% -USF | B96      | Insert (Turning)              |
| VPET ○○○○○(○)(○)M% -F   | B95      | Insert (Turning)              |
| VPET ○○○○○(○)(○)M% -FSF | B95      | Insert (Turning)              |

|                      |          |
|----------------------|----------|
| INSERT GRADES        | <b>A</b> |
| TURNING INSERTS      | <b>B</b> |
| GEN/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> |
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| MILLING              | <b>M</b> |
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| VPET ○○○○(○)MF%L-J         | B96                     | Insert (Turning)   |
| VPET ○○○○(○)(○)MF%L-U      | B96                     | Insert (Turning)   |
| VPET ○○○○(○)(○)MF%L-USF    | B96                     | Insert (Turning)   |
| VPET ○○○○(○)(○)%L-FSF      | B95                     | Insert (Turning)   |
| VPGT ○○○○CF                | B94                     | Insert (Turning)   |
| VPGT ○○○○(○)(○)CK          | B94                     | Insert (Turning)   |
| VPGT ○○○○M-CF              | B94                     | Insert (Turning)   |
| VPGT ○○○○(○)(○)M-CK        | B94                     | Insert (Turning)   |
| VPGT ○○○○MF-GF             | B94                     | Insert (Turning)   |
| VPGT ○○○○MFP-GF            | B94                     | Insert (Turning)   |
| VPGT ○○○○MP-CF             | B94                     | Insert (Turning)   |
| VPGT ○○○○(○)(○)MP-CK       | B94                     | Insert (Turning)   |
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| W-6                        | G50, G76, P20           | Spare Parts (Washer)   |
| W-8                        | P20                     | Spare Parts (Washer)   |
| W5X13L                     | M215                    | Spare Parts (Screw)  |
| W6-14                      | P20                     | Spare Parts (Washer)   |
| W6X17                      | P7                      | Spare Parts (Screw)  |
| W6X18                      | M172, P7                | Spare Parts (Screw)  |
| W6X18N                     | M38-M40, P7             | Spare Parts (Screw)  |
| W6X20                      | M172-M173, P7           | Spare Parts (Screw)  |
| W8X16                      | P7                      | Spare Parts (Screw)  |
| W8X18                      | M113, P7                | Spare Parts (Screw)  |
| W8X21                      | P7                      | Spare Parts (Screw)  |
| W10X31                     | P7                      | Spare Parts (Screw)  |
| WB-5                       | F102                    | Spare Parts (Washer)   |
| WB-6                       | F102                    | Spare Parts (Washer)   |
| WB-8                       | F102                    | Spare Parts (Washer)   |
| WBET ○○○○(○)(○)M%L-F       | B97                     | Insert (Turning)   |
| WBET ○○○○(○)(○)M%L-P       | B98                     | Insert (Turning)   |
| WBGH ○○○○(○)(○)MFP%L-PF    | B97                     | Insert (Turning)   |
| WBGH ○○○○M%L-CF            | B97                     | Insert (Turning)   |
| WBGH ○○○○MP%L-CF           | B97                     | Insert (Turning)   |
| WBGH ○○○○(○)(○)M%L-F       | B98                     | Insert (Turning)   |
| WBGH ○○○○(○)(○)%L-F        | B98                     | Insert (Turning)   |
| WBGW ○○○○(○)(○)%L          | B98                     | Insert (Turning)   |
| WBGW ○○○○(○)(○)S○○○○%L-SET | C18                     | Insert (Turning)   |
| WBGW ○○○○(○)T○○○○%L-SE     | C18                     | Insert (Turning)   |
| WBMT ○○○○(○)(○)L           | C29                     | Insert (Turning)   |
| WBMT ○○○○(○)(○)L-SE        | C29                     | Insert (Turning)   |
| WBMT ○○○○(○)(○)%L-DP       | B97                     | Insert (Turning)   |
| WC- ○○                     | M172-M173               | Spare Parts (Wedge)  |
| WCMX (S)○○○○○(○)-M1(A)     | K97, K103               | Insert (Drilling) HOLESLOT Drill (DR) / Coremaster Coredrill |
| WCMX ○○(□)○○○-M1(A)        | K97, K103               | Insert (Drilling) HOLESLOT Drill (DR) / Coremaster Coredrill |
| WCS-1N                     | D18, N16, P16           | Spare Parts (Clamp Set)                                      |
| WCS-8                      | D25, F94, N17, P16      | Spare Parts (Clamp Set)                                      |
| WDRCO(○)                   | K25-K27, K30-K33        | Spare Parts (Wrench)   |
| WN-1                       | D18, D25, N16, N17, P21 | Spare Parts (Shim Nut)                                       |

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| WNEU ○○○○○○EN-GL   | M17  | Insert (Milling) |
| WNGA ○○○MEF        | C13  | Insert (Turning) |
| WNGA ○○○S○○○○○OME  | C13  | Insert (Turning) |
| WNGA ○○○S○○○○○OMET | C13  | Insert (Turning) |
| WNGA ○○○S○○○○○OSE  | C13  | Insert (Turning) |
| WNGA ○○○S○○○○○OSET | C13  | Insert (Turning) |
| WNGA ○○○T○○○○○OME  | C13  | Insert (Turning) |
| WNGA ○○○T○○○○○AA   | B112 | Insert (Turning) |
| WNGA ○○○T○○○○○     | B112 | Insert (Turning) |
| WNGG ○○○AH         | B49  | Insert (Turning) |
| WNGG ○○○TK         | B48  | Insert (Turning) |
| WNGG ○○○%L         | B49  | Insert (Turning) |
| WNGG ○○○(○)%L-S    | B49  | Insert (Turning) |
| WNGT ○○○○○○FN-AM   | M17  | Insert (Milling) |
| WNMA ○○○           | B49  | Insert (Turning) |
| WNMG ○○○           | B47  | Insert (Turning) |
| WNMG ○○○C          | B49  | Insert (Turning) |
| WNMG ○○○CJ         | B47  | Insert (Turning) |
| WNMG ○○○CQ         | B47  | Insert (Turning) |
| WNMG ○○○GC         | B49  | Insert (Turning) |
| WNMG ○○○GP         | B46  | Insert (Turning) |
| WNMG ○○○GS         | B47  | Insert (Turning) |
| WNMG ○○○GT         | B47  | Insert (Turning) |
| WNMG ○○○(○)HQ      | B46  | Insert (Turning) |
| WNMG ○○○HS         | B47  | Insert (Turning) |
| WNMG ○○○HT         | B47  | Insert (Turning) |
| WNMG ○○○KG         | B49  | Insert (Turning) |
| WNMG ○○○KH         | B49  | Insert (Turning) |
| WNMG ○○○KQ         | B49  | Insert (Turning) |
| WNMG ○○○MQ         | B48  | Insert (Turning) |
| WNMG ○○○MS         | B48  | Insert (Turning) |
| WNMG ○○○MU         | B48  | Insert (Turning) |
| WNMG ○○○PG         | B47  | Insert (Turning) |
| WNMG ○○○PH         | B48  | Insert (Turning) |
| WNMG ○○○(○)PP      | B46  | Insert (Turning) |
| WNMG ○○○PQ         | B46  | Insert (Turning) |
| WNMG ○○○PS         | B47  | Insert (Turning) |
| WNMG ○○○PT         | B47  | Insert (Turning) |
| WNMG ○○○SG         | B48  | Insert (Turning) |
| WNMG ○○○TK         | B48  | Insert (Turning) |
| WNMG ○○○WE         | B46  | Insert (Turning) |
| WNMG ○○○WF         | B46  | Insert (Turning) |
| WNMG ○○○WP         | B46  | Insert (Turning) |
| WNMG ○○○WQ         | B46  | Insert (Turning) |
| WNMG ○○○XP         | B48  | Insert (Turning) |
| WNMG ○○○XQ         | B48  | Insert (Turning) |
| WNMG ○○○XS         | B48  | Insert (Turning) |
| WNMG ○○○ZS         | B49  | Insert (Turning) |
| WNMM ○○○(○)M       | C23  | Insert (Turning) |

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Part Numbers in Alphanumeric Order

○ : NUMBER □ : LETTER

| Part Number        | Page                   | Description                             |
|--------------------|------------------------|---|
| WNMM ○○○(○)M-NE    | C23                    | Insert (Turning)                        |
| WNMM ○○○(○)M-SE    | C23                    | Insert (Turning)                        |
| WNMU ○○○○○○EN-GH   | M17                    | Insert (Milling)                        |
| WNMU ○○○○○○EN-GM   | M17                    | Insert (Milling)                        |
| WNMU ○○○○○○EN-SM   | M17                    | Insert (Milling)                        |
| WOF07R             | P28                    | Spare Parts (Wedge)                     |
| WP-1S              | D18, P8                | Spare Parts (Shim Pin)                  |
| WP5X11             | F94, P8                | Spare Parts (Shim Pin)                  |
| WP5X15             | D25, N17, P8           | Spare Parts (Shim Pin)                  |
| WPGT ○○○(○)M%L-Y   | B99                    | Insert (Turning)                        |
| WPGT ○○○(○)(○)%L-Y | B99                    | Insert (Turning)                        |
| WPGW ○○○(○)(○)     | B99                    | Insert (Turning)                        |
| WPMT ○○○○○         | C29                    | Insert (Turning)                        |
| WPMT ○○○(○)GP      | B99                    | Insert (Turning)                        |
| WPMT ○○○(○)(○)HQ   | B99                    | Insert (Turning)                        |
| WPMT ○○○○○ONE      | C29                    | Insert (Turning)                        |
| WPMT ○○○○○SE       | C29                    | Insert (Turning)                        |
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| WSP-1              | D18, P20               | Spare Parts (Spacer)                    |
| WTENN ○○○○□-OON    | D18                    | Toolholder (Turning)                    |
| WTJN%L ○○-○□       | D18                    | Toolholder (Turning)                    |
| WTJN%L ○○○○□-OON   | D18                    | Toolholder (Turning)                    |
| WTKN%L ○○-○□       | D18                    | Toolholder (Turning)                    |
| WTKN%L ○○○○□-OON   | D18                    | Toolholder (Turning)                    |
| WTN-33             | D18, N16               | Spare Parts (Shim)                      |
| WTN-33-20          | D18                    | Spare Parts (Shim)                      |
| WWLN%L ○○○○□-○○    | D25                    | Toolholder (Turning)                    |
| WWLN%L ○○○○B-○○E   | F94                    | Boring Bar (Previous Description)       |
| WWN-42             | D25, N17, P14          | Spare Parts (Shim)                      |
| WWP-42             | F94, P14               | Spare Parts (Shim)                      |
| WWP-42-16          | F94, P14               | Spare Parts (Shim)                      |
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| XNS-36             | D16                    | Spare Parts (Clamp Screw)               |
| XNS-48             | D8, D13, D16, D21, D24 | Spare Parts (Clamp Screw)               |
| XNS-59             | D14                    | Spare Parts (Clamp Screw)               |
| XNS-510            | D8                     | Spare Parts (Clamp Screw)               |
| XNS610             | M27, M126, P7          | Spare Parts (Mounting Screw)            |
| XPMT ○○(□)○○○(○)   | M25                    | Insert (Milling)                        |
| XPMT ○○T○○○        | M25                    | Insert (Milling)                        |
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| ZCMT ○○○○○○        | K60                    | Insert (Drilling) DRS & DRZ MAGIC DRILL |
| ZCMT ○○○○○○SP      | K60                    | Insert (Drilling) DRS & DRZ MAGIC DRILL |
| ZCMT ○○○○○○SU      | K60                    | Insert (Drilling) DRS & DRZ MAGIC DRILL |
| ZXMT ○○○○○○GH      | K77                    | Insert (Drilling) DRX MAGIC DRILL       |
| ZXMT ○○○○○○GH-E    | K77                    | Insert (Drilling) DRX MAGIC DRILL       |
| ZXMT ○○○○○○GM      | K77                    | Insert (Drilling) DRX MAGIC DRILL       |
| ZXMT ○○○○○○GM-E    | K77                    | Insert (Drilling) DRX MAGIC DRILL       |

| Part Number     | Page | Description                       |
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| ZXMT ○○○○○○GM-I | K77  | Insert (Drilling) DRX MAGIC DRILL |
| ZXMT ○○○○○○SM   | K77  | Insert (Drilling) DRX MAGIC DRILL |
| ZXMT ○○○○○○SM-E | K77  | Insert (Drilling) DRX MAGIC DRILL |

|                      |          |
|----------------------|----------|
| INSERT GRADES        | <b>A</b> |
| TURNING INSERTS      | <b>B</b> |
| GEN/PCD INSERTS      | <b>C</b> |
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| CUT-OFF              | <b>H</b> |
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