

## MATRIX TOOLING SERVICES

*the most effective tooling solutions*

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Description of goods	Quantity
<b>Mircona</b>	
MT-6.4 R1 Grooving Insert	20
MT-31 R0.5 Grooving Insert	10
MT-5 Grooving Insert	10
MP-4 Grooving Insert	20
MP-6 Grooving Insert	10
<b>Vardex</b>	
3IR 05 ISO VHX Threading Insert	1
<b>CERATIZIT</b>	
SNMM150612E-TRCTC 1125 Turning Insert	10
<b>METAL REMOVAL</b>	
235-0250-00235 47DRL381551	4
240USA240 -0310-CO	5
240-0260-00/7843240#45DRL	2
235-0200-00 DS1S#55DRSTRFL	5
<b>WIDIA VALENITE</b>	
M4X0.7X1.DSL S104CNX6	9
<b>SAFETY</b>	
VCGT 130302-2M	10
<b>SPHINX</b>	
50830	1
<b>KESTAG</b>	
1156	1
<b>ARMSTRONG</b>	
M4X0.7X1.DSL S104CNX6	9

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<b>FETTE</b>	
1054003	10
1068433	2
<b>DORMER</b>	
HSCO PFX LONG SERIES DRILLS	1
E230 UNF HSCO TAP	2
A002 13/64 IN 10 JOBBER DRILL	5
S044E.M.CARBIDE SUPER "G" E/MILL	1
<b>RENTOOLS</b>	
34050012	1
<b>PRODUCTION PLUS</b>	
B.-NR: 05 22 820	10
<b>NTTOOL CORPORATION</b>	
0711 0000 2520	1
<b>FORMAT</b>	
3757 0025	1
<b>TOOLMEX</b>	
7-36-125 06423853 90 205	1
<b>KOMET</b>	
W29 240 10.0 464 MILLING INSERT	10
<b>BROOKE</b>	
5340-0	1
2MM 5340-0T/SM R/L BALL NOSE END MILL	2
<b>KENNAMETTAL</b>	
VNMP 1604 O8 KK68 Turning Insert	10
ICSN 533 K9 Spare Shim	20
410. 0813 Spare Pin	6
KCGX 110304 R15 K68 Turning Insert	29
SDMT 322 K313 Milling Insert	10

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TPUN 110308 KC850 Turning Insert	10
TPCW1604PPTN KC735M Milling Insert	20
NG30 62R K68 Grooving Insert	5
CNMP 120404 KC850 Turning Insert	20
4.21503 R615 K110M Milling Insert	10
SPMR 090304 KC810 Turning Insert	10
VNGP 3305 KC730 Turning Insert	15
DCMT 2151LF K313 Turning Insert	30
XPMT 253A5R KC710 Milling Insert	19
CCGW 21505 Turning Insert	1
TPG 322 K68 Turning Insert	20
SDCB 0204 KC725M Milling Insert	5
SPMR 090308 KC810 Turning Insert	30
CNMG 120412 K68 Turning Insert	5
NRP 303 IR KC850 Grooving Insert	5
DFT06 T30 8HP Drilling Insert	10
TPGM 2151 KC730 Turning Insert	10
VNMP 331K K68 Turning Insert	5
SDMTOG 0308 KBA3 Milling Insert	4
CCGT 2150 LF Turning Insert	10
TPU 321 KC810 Turning Insert	10
KCUX 110302 L15 K68 Turning Insert	10
BPGF 050304 L16 KC720 Turning Insert	10
6,24101 R001 Grooving Insert	10
DNMG 150 604 Turning Insert	15
VNMP 332 KC9025 Turning Insert	39
MVVNN-2525 M16 Tool Holder	1
NRP 303 IR Grooving Insert	10
SPMR 090304 KC810 Turning Insert	10
KCUX 110302 L15 K68 Turning Insert	4
VNMP 332K KC935 Turning Insert	9
SNMG 1204 08 K68 Turning Insert	10
TPU 321 KC810 Turning Insert	10
<b>TIZIT</b>	
SDJCL 1212FO7 Tool Holder	1
<b>GUHRING</b>	
00292-6,350 HSS Centre Drill	3

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05534-10,000 Carbide E/Mill	1
05556-4,000 L/S Carbide E/mill	1
<b>ARNO</b>	
SPCO 740-0222	8
SDHT 1204 AEFN-ALU AK10 Insert for Ally	4
VCGT 1604 04 FN-ALU AK10 Insert for Ally	4
VCGT 1103 02 FN-AUL AK10 Insert for Ally	3
DCGT 11T3 02 FN-ALU AK10 Insert for Ally	8
CCGT 0602 04 FN-ALU AK10 Insert for Ally	10
VCGT 1103 04 FN-ALU AK10 Insert for Ally	10
<b>OSG</b>	
WX-LN-EDS 3X30 Carbide mini E/mill	1
8537 762 FX-MG-TPMS Carbide E/mill	1
8548 258 FXS-PKEX Carbide E/mill	1
8537 562 FX-MG-TPMS Carbide E/mill	1
8544 680 FXS-EMSS Carbide E/mill	1
<b>FRANKEN</b>	
2310 0055 Franken S/Drill	2
<b>SGS CARBIDETOOL LIMITED</b>	
DIN 6527-B6K54-30-Z3	1
DIN 6528-7,5-Z3 CARBIDE END MILL	1
SER 1MD 8MM END MILL TI NAMITE COATED	1
SER 601 C'SINK 1/4 DIA 90 DEG74207	1
SER 101 MC DRILL 4.1MM	2
SER 5M 3MM END MILL 40521	3
<b>MENLOUSA</b>	
02516: 4MM S.E. END MILL 4 FLUTE	1
04219: 3.20MM TWIST DRILL	3
42105: D8191/4X2.5 SPOTTING DR-120PT	1
32141 :2MM S.E. STUB END MILL 3 FLT	1
02365 : 1/8" DEBN. STUB END MILL 4 FLT	2
02167:5MM S.E. STUB END MILL 4 FLT	1
02324:3.5MM D.E. STUB END MILL 4FLT	3
02323:3MM D.E.STUBEND MILL4FLT	3

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02385:1/8" D.E.STUBEND MILL4FLT	2
02327:5MMD.E.STUBENDMILL4FLT	2
02633:25MMSEB.NEND MILL4FLUTE	3
02325:4MMD.E.STUBENDMILL4FLT	2
02207:3/16" 8.E.B.NSTUB4FLT.E.M	1
02287:3/16"D.E.STUBENDMILL4FLT	2
02321:2MM DESTUBENDMILL4FLT	2
02367:3/16" DEB.N.STUBENDMILL4FLT	1
02408:6MM DEB.N.STUBENDMILL4FLT	1
<b>POSIThread</b>	
16NR3.OTR P3074241 Threading Insert	5
<b>HY-PRO CARB</b>	
735072 7.2 Carbide Drill	3
735055 5.5mm Carbide Drill	1
735078 7.8mm Carbide Drill	1
<b>FETOGA</b>	
4FSD 3.OOMM Carbide E/mill	2
4fn 1.5mm Carbide E/mill	4
4fnb 1.0mm Carbide E/mill	2
<b>STELLRAM</b>	
VCGTI3030221	5
SDEX1204AEEN-701	9
G312051500 SFZ	10
APFW 16 04 PD TR	5
RPHT 12 04 MO E-421	10
TCMT 16T308E	10
EPGT O40202E-62	5
SDEX 1204AEFN-701	8
DFZ 11IR1.5150	2
SCMT 09T308E-73	20
MPFW 0402PPTR	10
SDCW 09T3AEFN	10
MPFW 08 03 04	20
MPFW 04 02 PP TR	20
APFW 16 04 PD TR SFZ Milling Insert	5
E105V 08 08 R Boring Bar	1

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EPEA 06 02 00 Turning Insert	10
EPMT 08M302E Turning Insert	10
AOHW 090304 FR-J Milling Insert	30
AOHW 09 03 10 FRJ-X22 Milling Insert	10
MPFW OGO208L GH2 Milling Insert	10
3817 5001 321	1
CNMP 120402F- 3D Turning Insert	10
SDCA 09T3 AETN Milling Insert	10
SDEX 09T3 AEFN-701 Milling Insert	7
RCMT 10 T3 MO Milling Insert	10
MPFW 04 02 PP TL Milling Insert	20
TCMT 16 T3O4 - 73 Turning Insert	20
MPFW 80 3PPFR Milling Insert	29
MPFW 08 03 08N Milling Insert	20
APFW 160 4PDTR Milling Insert	5
G31 2020004 DFZ Grooving Insert	2
5140 MO6KWO202	1
MPFT 0803PPR SA Milling Insert	20
APFW 1604 PD TR H1X Milling Insert	5
VCGT 130 30421 GH1 Turning Insert	10
APFW 16 04 PD TR SFZ Milling Insert	5
MPFWO 803PPTR SF2 Milling Insert	30
SCMT 09T3 08T Milling Insert	19
SDHT 09 T3 AE EN -421 PFZ Milling Insert	5
APFW 160 4PDTR Milling Insert	25
M402111	1
SCMT 12 M5 08 - 75 Milling Insert	10
SDCA 09 T3 AE TN Milling Insert	10
<b>SUMITOMO</b>	
DNMG 332ENG	10
CCGT 060204NSC	10
DCMT 11T302N-FP	10
DCMT 11T308N-SK	10
VNMG 160408N-UG	20
WNMG 080408N-UX	3
<b>SANDVIK</b>	
TM151.2-3G01 - 281305	30

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N151.2-400-30-4G	20
N151.2-200-20-4V	4
CCMT 09 T3 08 -UM	10
LCMX 0202 04P-53	10
5322 234 - 04	2
330.20-50AA	10
N151.2-200-5F	3
5313 021 - 02	3
5513 020-13	5
N151.2-A187-40-5G	3
R290.90-150420M-WM	20
N331.1A-084508H-PM	10
R216.24-0702050-AA	10
R290.90-150420M-WM	10
CNGP 12 04 08	2
SPKN 12 03 EDR SMA	10
WNMG 06 04 08- KM	10
TM1S1.2 - 3G 01 - 281305	4
SNMG 12 04 08 - PM	10
SNMG 0 03 08 -QM	8
WNMG 060408-KM	10
393.C9-201652	1
SM1092 R4 INSETRS	8
N151.2-600-4E	10
SPKN 12 03 ED R.SMA	10
CNMX 1204A2-SM	4
SNMG 1204 08 -PM	6
SEMN 12 04 AZ	30
L166.0G - 16 UNO1-180	30
R215 .44-090208 AA	40
TNMG 16 04 08-MM	4
R166.0L.11 WHO1-190	30
SPKN 12 03 ED R SMA	10
98T5083	2
TM151.2 -3G01-281305	10
VBMT 1604 04 -MF	10
VNMG 160408 -UM	10
VBGT 16 04 08-UM	10
N151 . 2-600-4E	10

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N123E2 -0200-0002-CM 2135	2
R390-17 04 60E-KM	10
DNMG 15 04 08-MM	10
N123H2-0400-0003-GM	7
TM151 .2-3G01 -281305	10
R290.90-150420M-WM	30
N151.2 3G01-281305	20
TCMT 1102 08-UM	10
CCMT 09 T3 04-UM 20 25	10
TM151-2 -3G01 -281305	10
RCMX 10 D3 00 4025	10
WNMG 06 04 04 -MF	6
5CMT 12 04 08 -UM	10
93T5 157	20
CCMT 06 02 02 -UF	2
TPUN 11 03 08 H1OF	36
TNMG 16 04 12 -23	20
SCMT 432 - UM	10
SNMG 433 - 23	10
MM0612	2
L166.4FG-3225-16	1
393.CG-20 16 52	1
5NMG 432 -PM	10
N151.2-400-5E	10
330.20-30 -AA	10
<b>MITSUBISHI</b>	
RGEN 2004 M0SN	10
VNMG 331 MS	7
DNMG 431MS	20
CCGT 035101L -FVP15TF	10
CCMT 120408NX99	10
DCMT 070 202 NX99	10
TEEN 1603PEER1	10
CNMG 431M5	8
SPMR 120308	20
TEKN 32PETR3	10
WNMG 332MA	8
TEKN 32PEER1	10
DNMG 150604MS	10

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DNMG 441CA	9
DNMG 150412	20
WEEW 13T3AGER8C	10
CPM +090 302-5Q	9
TEEN 1603PETR1	20
CPMT 080204-SQ	10
CPMT 090304-SQ	8
CPGT 090304	9
TNGA 160404	20
WNMG 60404 -MS	4
UTI 20T SPMN 422	10
K10 A4693B4	20
<b>ISCAR</b>	
EDG 23B	1
SR 14-519	10
GFN IC354	2
MMSA 1070 C12 T08 C	1
GIP 2.00-1.00	3
LNMT 1106 PN-N MM	20
HGR 3000JS-15D	1
DCMT 070202	8
VNMG 160408	2
DGR 3100 JS-6D	10
GIP 12.39-0.15	12
CR -D100-MT	10
CRFD 160-QF	10
GRIP-4004Y IC 354	10
GFN 3J IC 354	10
SOMT 060204-HQ IC 928	10
GTN 3A IC20	9
GTN3 IC20	10
GTN-4 IC20	10
GTN-4 IC20	6
SGAHR 10-2	1
ESG 1 REMOVER	2
ADCA 150320 IC 50M	10
GIP 4.00E -0.40 IC354	18
IDI 04.92-SG	2
SGB 19-2	1

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0233454 12-08-1998	1
SR 34-523 IC	10
COMBI-HFDG-4	1
GIP-3.00 -1.5UN	8
20UN -18UN -16UN -14UN -12UN	20
GIP 1.78- 1.18 1C354	6
GIP 1.04 - 0.00 1C354	10
WNMG 332-TF IC907	10
GIP 5.00 -0.40 IC 20	10
GIP 4.00E -2.00 IC908	10
ADMM ISO308 -8850M	10
APKT 1604 PDR -HM 320	9
SGAHR 10-2	1
GHMPL 20	1
SGAFI 10-2	1
SGAHL 10-2	1
TPU 222 IC50M	49
GFL -1.6 -15D IC 54	20
SPKA 42 EDTR -HS250	6
GFR -6 -4D IC 656	5
CNMG 433	10
GIPI 1.78-0.10IC354	20
GFN 2J IC20	10
GIP 3.15-0.15 IC354	1
SOM 060204-HQ	10
CCMT 2-1-14 IC9025	10
GTR 2.8D IC 50M	10
GFI 1.2JS-10D IC328	49
GSFN 3.2 IC635	20
APKT 1604 PDR-HM20	10
GIMF 608 IC 656	10
GIP 2.47 -020 -22D IC 635	10
DGR2200JS -ISD IC328	8
DGR 3102J-6D IC20	9
DGW2202J IC 20	10
3MAXFT 1304 PDR-MM	10
VNMG 2.5-0.NF 1C9015	5
<b>SECO</b>	

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GGNO883	5
150,10-6N-16HX	10
OFMT070405TN-M15F4OM	10
VNMG 16,041-M3TP200	10
CFIL2525MO3	1
SNMA150612TP100	10
DCMT11T302-F2	20
CCMT09T308-F2TP100	9
CCGT060204F-ALKX	10
SNMG120412-MF1890	10
WNMG060408-MF2TP1000	8
DCMTIIT302-F2	10
SPGN120312FK20	10
TPMR11O308-F1TP40	30
SPGX07038-F1TP40	10
RPKX2006 MOT-M14OM	10
SCET120612T-M14T25M	10
OFEX05TN-MO8C15M	4
SNMA150612TX100	10
VNMG130408-M3TP200	10
ACET150660TR-MD15525M	10
LCMF 160408-0400-FTTP200	4
SPMX 090304-75T25M	8
TNMG 160408-M5TP200	21
SCGX 070308-P2T200D	10
SNMG 150612-M5TP1000	10
LCMF160608-0600-MGCP50	10
DCMT 11T302-F2	10
LCMR160608-0600-MTTP200	3
SNMG 150612-M5TX150	10
SPGX O903-CIT400D	10
SPMX O90304-75T25M	10
ACET 150660TR-MD15525M	10
CCGT 060204F-ALKX	10
DNMG 110408-M5TP200	20
RCG54,76-46 890	10
LCMF 160408-0400-MTCP500	10
16ER1,5LSO CP500	2
SEAN 1303AFTN-M14T25M	10

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TCMT16T308-TP1000	10
150,10-20-6	1
DCMT 11T308-F2TP200	8
LCMF 1160304-0300-MTCP50	10
SEKN 1204AFTN-M18T25M	10
SCQX 09T308-P2T200D	10
DCMT 11T304-F2TP100	8
OFER 070405TN-MF15T25M	3
DNMG 150608-MF1CP200	10
MM0812	1
VNMG 160408-M3TP200	5
150,10-3N-16 K20	8
174,11-624	10
GGNO 8883	10
CCMT 09TO4-F2HX	10
SNMP 644E36EDP40593	20
MM 0612	2
DSN 150412	10
XOMX 060208R-M05F40M	7
CNMG 120404-MR4 CP250	15