

NT1

NT3200 MACHINE 1 Tool Matrix -	Unnamed: 1	Unnamed: 2	Unnamed: 3	Unnamed: 4	Unnamed: 5	Unnamed: 6	Unnamed: 7	Unnamed: 8	Unnamed: 9
Assy. No.	Offset	Tool Type	COMMON TOOL	Tool use	Tool Dia. Mm	Tool Dia. Inches	Cnr. Radius	Preset X mm	Preset Z "
1	1	static	YES	Rough turn			0.0315	-4.013	6.3064
1001 A90	240	static	YES	Rough turn			0.0315	-4.013	6.3064
1001 A180	239	static	YES	Rough turn			0.0315	-4.013	6.3064
1001 A-90	241	static	YES	Rough turn			0.0315	-4.013	6.3064
1002	2	driven	YES	Drilling	26	1.0236		0	6.9817
3003	3	static	YES	Finish turn			0.0078	-3.28	6.0395
3003 A120	238	static	NO	EXT THREADING				-3.284	5.9336
3003 A-120	237	static	NO	EXT THREADING				-3.284	5.9336
1004	4	static	YES	Boring			0.0078	-1.004	3.1439
1005	5	driven	YES	SPOT DRILL	6	0.2362		0	5.394
1006	6	driven	YES	Drilling	4.5	0.1771		0	5.433
1007	7	driven	YES	REAM	3.78	0.1875		0	3.78
1008	8	driven	YES	Drilling	3.6	0.1417		0	5.9055
1009	9	driven	YES	TAP				0	5.57
10	10 & 59	static	YES	External groove			0.00787	-2.7559	4.9212
11	11 & 56 & 62	driven	YES	ROUGH MILL	20	0.7874	0.0315	0	5.7086
1012	12	driven	YES	Drilling	4.5	0.1771		0	5.433
1013	13	DRIVEN	YES	DRILLING	5				5.865
14	14 & 72	static	YES	External groove				-2.349	6.141

NT3200 MACHINE 1 Tool Matrix -	Unnamed: 1	Unnamed: 2	Unnamed: 3	Unnamed: 4	Unnamed: 5	Unnamed: 6	Unnamed: 7	Unnamed: 8	Unnamed: 9
1015	15	static	YES	Rough turn			0.0315	2.713	5.8477
1016	16	static	YES	Finish turn			0.0157	2.7502	5.8905
1017	17	driven	YES	FINISH MILL	6			0	5.4724
18	18 & 58	driven	NO	ROUGH MILL 4 START THREAD	3	0.118		0	5.7874
3019	19	static	YES	External groove			0.0039	-2.816	5.922
3019 A120	236	static	NO	Ext threading				-3.2527	5.9402
3019 A-120	235	static	YES	External Groove			0.00787	-2.9068	6.1779
1020	20	driven	NO	CHAMFER 4 START THREAD				0	6.4566
1021	21	driven	NO	REFLEX CUTTER	4	0.1575	0.02		4.724
1022	22	driven	YES	FINISH MILL	14	0.5512		0	6.4172
1023	23	driven	NO	Drilling	3.3	0.1299			5.787
1024	24	driven	NO	FINISH MILL 4 START THREAD	3.17	0.125		0	5.866
1025	25	Static	NO	INT THREADING				-0.835	4.531
1026	26	static	NO	INTERNAL GROOVE				-1.555	5.763
1027	27	static	NO	INT THREADING				-0.994	4.9214
1028	28	driven	NO	FINISH MILL	16	0.629			7.6377
1029	29	driven	NO	T-SLOT-MILL	27.7MM	1.09	0.008		5.944

NT3200 MACHINE 1 Tool Matrix -	Unnamed: 1	Unnamed: 2	Unnamed: 3	Unnamed: 4	Unnamed: 5	Unnamed: 6	Unnamed: 7	Unnamed: 8	Unnamed: 9
1030	30	driven	YES	FINISH MILL	20	0.7874	0.122	0	6.3779
1031	31	driven	YES	Spot drill	12	0.4724		0	6.2
1032	32	driven	YES	Drilling	4.3	0.1692		0	6.7
1033	33	driven	YES	Drilling	9	0.3543		0	6.692
1034	34	driven	YES	Drilling	6.35	0.25		0	6.3
1035	35	driven	YES	FINISH MILL	6	0.2362		0	5.905
1036	36	driven	YES	FINISH MILL	8	0.3149		0	3.9763
1037	37	Static	YES	Boring			0.0315	-0.7924	5.4673
1038	38	Static	YES	Boring			0.0157	0.982	5.5156
1039	39	Static	NO	INT THREADING				-0.9648	4.9235
1040	40	driven	YES	Drilling	13.5	0.5314		0	5.1181
1041	41	driven	YES	FINISH MILL	12	0.4724	0.03	0	4.4094
1042	42	Static	YES	Boring			0.0157	-0.983	5.7065
1043	43	Static	YES	INT THREADING				-1.201	5.62
1044	44	Static	YES	INT THREADING				-1.201	5.62
1045	45	driven	YES	Drilling	1.6	0.0629		0	5.0393
3046	46	Static	YES	knurling				-2.445	6.184
3046 A120	234	Static	NO	Ext Spherical Groove			0.0787	-2.9065	6.692
3046 A-120	233	static	NO	Ext threading				-3.284	5.9336
1047	47	driven	YES	ROUGH MILL	10	0.3937			5.4527
1048	48	driven	NO	FINISH MILL	9.5	0.374	0.03		5.5118
1049	49	driven	NO	FINISH MILL	15.9	0.625			6.26

NT3200 MACHINE 1 Tool Matrix -	Unnamed: 1	Unnamed: 2	Unnamed: 3	Unnamed: 4	Unnamed: 5	Unnamed: 6	Unnamed: 7	Unnamed: 8	Unnamed: 9
1050	50	driven	YES	ballnose	4.5	0.1771	0.0886		4.96
1051	51	driven	YES	THREAD UNDERCUT	10.5				5.669
1052	52	static	NO	INT THREADING				-0.2322	3.858
1053	53	driven	NO	Drilling	11	0.433			7.1259
1054	54	driven	YES	Spot drill	10	3.5826		0	3.5744
1055	55	driven	YES	FINISH MILL	3	0.1181			5.2755
1056 SISTER TOOL 1011	56	driven	YES	ROUGH MILL	20	0.7874	0.0315	0	5.7086
1057	57	driven	YES	THREAD UNDERCUT	6.35	0.25	0.02		4.921
1058 SISTER TOOL 1018	58	driven	NO	ROUGH MILL 4 START THREAD	3	0.118		0	5.7874
1059 SISTER TOOL 1010	59	static	YES	External groove			0.00787	-2.7559	4.9212
1060	60	driven		Drilling	5	0.1968			5.787
1061	61	static	YES	boring			0.0157	-0.3516	4.9629
1062 SISTER TOOL 1011	62	driven	YES	ROUGH MILL	20	0.7874	0.0315	0	5.7086
1063	63	driven	NO	FINISH MILL	12	0.4724			6.889
1064	64	driven	NO	TAP-ROLLTA P				0	5.708
1065	65	static	NO	Face Groove			0.008	-0.7086	4.5275
1066	66	driven	YES	FINISH MILL	6	0.2362	0.06		5.118
1067	67	driven	YES	FINISH MILL	6	0.2362	0.02		5.9055
1068	68	driven	YES	Drilling	1.2	0.0472			5.5118

NT3200 MACHINE 1 Tool Matrix -	Unnamed: 1	Unnamed: 2	Unnamed: 3	Unnamed: 4	Unnamed: 5	Unnamed: 6	Unnamed: 7	Unnamed: 8	Unnamed: 9
1069	69	driven		FINISH MILL	5	0.1968	0		5.393
1070	70	driven		Drilling	5.1	0.2008			6.1
1071	71	driven		THREAD HOB	11MM	0.433			5.5511
1072 SISTER TOOL 1014	72 & 14	static	YES	External groove				-2.349	5.669
1073	73	driven		FINISH MILL- BALLNOSE	2.38MM	0.0938			4.803
1074	74	driven		FINISH MILL	11	0.433			6.1417
1075	75	driven	NO	FINISH MILL	10	0.3937	0.0079		5.3937
1076	76	driven	NO	TAP	6.35	0.25			5.629
1077	77	driven	NO	THREAD HOB	8.5	0.3346			5.5118
1078	78	driven	NO	DRILLING	2.35	0.0925			4.5669
1079	79	driven	NO	Drilling	4.1	0.1614			5.5118
1080	80			PROBE					
1081	81	driven	NO	Drilling	3	0.118			6.5
1082	82	driven	YES	Drilling	4.36	0.172		0	5.55
1083	83	driven	YES	Drilling	4.5	0.178		0	5.75
1084	84	DRIVEN	NO	Drilling	4	0.1574			7.0866
1085	85	DRIVEN	NO	THREAD HOB	4.5	0.1771			4.724
1086	86	DRIVEN	NO	THREAD HOB	16	0.6299			4.41
1087	87	driven	YES	TAP	7.93	0.3125		0	5.89
4088	88	STATIC		Drilling	9.4	0.37		-2.3622	7.0322
4088 A90	230	STATIC		Drilling	9.4	0.37	0.06	-2.3622	7.0322

NT3200 MACHINE 1 Tool Matrix -	Unnamed: 1	Unnamed: 2	Unnamed: 3	Unnamed: 4	Unnamed: 5	Unnamed: 6	Unnamed: 7	Unnamed: 8	Unnamed: 9

Unnamed: 10	Unnamed: 11	2026-01-09 10:49:35.040000	Unnamed: 13	Unnamed: 14	Unnamed: 15	Unnamed: 16	Unnamed: 17	Unnamed: 18	Unnamed: 19
Preset Y mm	Prot mm	L O R mm	TOOL WIDTH	MIN BORE	Tool Description	BREAK DETECT	Tool Width mm	Min bore mm	Backend
0					80 deg rough turning	NO			
0					80 deg rough turn	NO			
0					80 deg rough turn	NO			
0					80 deg rough turn	NO			
0		104			26mm U drill	NO			
0					35 deg finish turn	YES			
					18 UN ext threading tool	YES			
					32 UN ext threading tool	YES			
0	80	56		25MM	80 deg boring bar	YES			
0	30	30			6mm 90deg spot Coated	YES			
0	60	47			4.5mm drill	YES			
0	39				.1875 carbide SS reamer	YES			
0	34	20			3.6mm drill	YES			
0	37				8-32unc tap	YES			
0		25	4MM		4mm ext grooving tool	YES			
0	40	40			20mm helimill	NO			
0	60	47			4.5mm drill	YES			

Unnamed: 10	Unnamed: 11	2026-01-09 10:49:35.040000	Unnamed: 13	Unnamed: 14	Unnamed: 15	Unnamed: 16	Unnamed: 17	Unnamed: 18	Unnamed: 19
0	49	39			5.0MM DRILL	YES			
0		35MM	4MM		4MM part off	YES			
0					55deg rough turn	YES			
0					35deg finish turn	YES			-3.2527
0	19	7			6mm finish mill	YES			
0	7				rough mill 4 start thread	YES			
0		6.4	1MM		1mm ext grooving tool				
					28 UN ext threading tool				
		13	4MM		4mm ext grooving tool				
0	24				chamfer 4 start thread	YES			
	20	12			.02 reflex cutter				
0	38	26			14mm finish mill	YES			
	40	20			3.3mm drill				
0	9				Finish mill 4 start thread	YES			
0	50	50		20MM	20UN int screwcut				
		75		32MM	int groove 5mm full rad	NO			

Unnamed: 10	Unnamed: 11	2026-01-09 10:49:35.040000	Unnamed: 13	Unnamed: 14	Unnamed: 15	Unnamed: 16	Unnamed: 17	Unnamed: 18	Unnamed: 19
0	65	65		25MM	26WHIT INT S/CUT	NO			
	66	40			16mm dia finish mill	NO			
	73		4MM		t-slot max tooth depth 6.5mm	NO			
0	62	25			20mm dia - R.122 finish helimill	NO			
0	104				12mm dia spot/chamfer	YES			
0	65	51			4.3mm drill	YES			
0	65	45			9mm drill	YES			
0	55	39			0.25 dia drill	YES			
0	34				45 DEG CHFR form cutter	YES			
0	35				15 DEG CHFR form cutter	YES			
0	63			22MM	80 deg boring bar	YES			
0	64			22MM	35deg boring bar	YES			
0	65	34		25MM	18UN int screwcut	YES			
0	70	54			13.5mm U drill	YES			

Unnamed: 10	Unnamed: 11	2026-01-09 10:49:35.040000	Unnamed: 13	Unnamed: 14	Unnamed: 15	Unnamed: 16	Unnamed: 17	Unnamed: 18	Unnamed: 19
0	50	35	FLUTE LENGTH 12MM		12mm R.03 finish mill	YES			
0	69	66		20MM	55deg boring bar	YES			
0	71	71		32MM	16UN int screwcut	YES			
0	71	71		32MM	16WHIT int screwcut	YES			
0	28	18			1.6mm drill	YES			
	30				Knurl	NO			
	47	25	4MM		2MM rad Spherical grooving tool				
					20 UN ext threading tool				
	39	22			10mm ripper rough mill	YES			
	40	25			9.5mm R.03 finish mill				
	52	7.87			37DEG FORM CUTTER	NO			
	26	4.5			4.5mm ballnose	YES			
	34	21		12MM	10.5MM dia undercutting tool	NO			
0	38	38			26 Whit Int Threading	YES			
	76	51			11mm drill	YES			

Unnamed: 10	Unnamed: 11	2026-01-09 10:49:35.040000	Unnamed: 13	Unnamed: 14	Unnamed: 15	Unnamed: 16	Unnamed: 17	Unnamed: 18	Unnamed: 19
0	34				10mm dia spot/chamfer	YES			
	18	12			3mm carbide end mill	YES			
0	40	40			20mm helimill	NO			
	25	19			.250 dia undercutting tool	NO			
0	7				rough mill 4 start thread	YES			
0		25	4MM		4mm ext grooving tool	YES			
	47	35			5.0mm flat bottom jobber drill	YES			
	50	50		10MM	80 deg finish boring bar	YES			
0	40	40			20mm helimill	NO			
	50	26			12mm dia Finish Mill				
0	38				10-32unf ROLL tap	YES			
0	55	55		14MM	1.5MM FACE GROOVE				
	30	13			6mm dia R.06 finish mill				
	22	13			6mm dia R.020 finish mill				
	33	17			1.2mm drill				

Unnamed: 10	Unnamed: 11	2026-01-09 10:49:35.040000	Unnamed: 13	Unnamed: 14	Unnamed: 15	Unnamed: 16	Unnamed: 17	Unnamed: 18	Unnamed: 19
	30	20			5mm FINISH MILL	YES			
	50	44			5.1 CARBIDE DRILL	YES			
	86	33			18UN THREAD HOB				
0		35MM	4MM		4MM part off	YES			
	22	7			3/32 DIA BALLNOSE				
	44	31.5			35degree 11mm dia end mill				
	37	22			10mm dia R.0079 finish mill	NO			
	40				1/4-28 UNF TAP B465 SF	YES			
	40	22			THREAD MILL 20UN EXTERNAL	NO			
	16	11.4			2.35mm Drill	YES			
	40	36			4.1mm drill	YES			
					PROBE (MP700)				
	36				3.0mm Drill				
0	41	30			4.36mm drill	YES			
0	48	37			4.5mm Flat bottom drill	YES			
	80	60			4mm Drill				

Unnamed: 10	Unnamed: 11	2026-01-09 10:49:35.040000	Unnamed: 13	Unnamed: 14	Unnamed: 15	Unnamed: 16	Unnamed: 17	Unnamed: 18	Unnamed: 19
	20	13			THREAD MILL 28UN INTERNAL				
0	52	40			THREAD MILL 14UN INTERNAL				
0	42				5/16-24 UNF TAP	YES			
	65				9.4mm DRILL	YES			
	65	49			9.4MM FLAT BOTTOM DRILL	YES			
	45	45		7.2MM	MINI BORING BAR	YES			
	40	20	1.5mm		11.7mm HORN SLOTTING	NO			
	38				12MM DIA V-GROOVE TOOL(SOLID CARB)				
0	58	54			3.4mm DRILL	YES			
	58	28			3.6mm LONG SERIES DRILL	YES			
	70	62			8.5mm DRILL	YES			
	65	57			6mm DRILL	YES			
	48	48			3/8-24 UNF TAP (remove pip)	YES			

Unnamed: 20	Unnamed: 21	Unnamed: 22	Unnamed: 23	Unnamed: 24	Unnamed: 25	Unnamed: 26	Unnamed: 27	Unnamed: 28	Unnamed: 29
Collet/ Sleeve	Nut	Tool/Supplier	NP No	Tool holder/ Supplier	NP No2	Insert/Supplier	NP No3	Insert/Supplier	NP No4
				SL-PCLNR-3 2-12HP	NP18964	CNMG 120408-MM 1125 Sandvik	NP16981	Screw for Insert	TBA
				SL-PCLNR-3 2-12HP	NP18964	CNMG 120408-MM 1125 Sandvik	NP16981	Screw for Insert	TBA
				SL-PCLNR-3 2-12HP	NP18964	CNMG 120408-MM 1125 Sandvik	NP16981	Screw for Insert	TBA
				SL-PCLNR-3 2-12HP	NP18964	CNMG 120408-MM 1125 Sandvik	NP16981	Screw for Insert	TBA
						1. DS20-0306 -C-L5 1144 2. DS20-0306-P -L5W 2044 Sandvik	NP19973 NP19974		
				SVJBR2020 K16 Sandvik	NP17047	VBMT160402 -MF1025 Sandvik	NP16827	Screw for Insert	NP17536
				266RF-2020- 16	NP15712	266RG-16UN 01A180M 1135	NP15988		
				266RF-2020- 16	NP15712	266RG-26UN 01A320M 1135	NP15954		
						CCMT09T302 -MF1125 Sandvik	NP16956	screw	NP17538

Unnamed: 20	Unnamed: 21	Unnamed: 22	Unnamed: 23	Unnamed: 24	Unnamed: 25	Unnamed: 26	Unnamed: 27	Unnamed: 28	Unnamed: 29
		6.0MM 90DEG Coated Guhring	NP10463	alternative NP17339					
		MPS1-0450-L 8C DP1021 MITSUBISHI	NP19147						
		Horley Drill Services RC-3/16	NP00236						
		860.1-0360-0 18A1-GM X1BM Sandvik	NP16922						
		Emuge	NP10023						
				C2R-CC5-RH 25CB Sandvik	NP20549	C21-H2N-040 0-0002-GF12 25 Sandvik	NP20550		
				R390-020C5- 11M095 Sandvik	NP16934	R390-11T308 M-MM2040 Sandvik	NP17264	Screw for Insert	NP11924
		MPS1-0450-L 8C DP1021 MITSUBISHI	NP19147						
		MPS0500L-DI N-C VP15TF mitsubishi	NP10514						
		PART OFF		SANDVIK QD -NN1H36C21 A	NP18967	QD-NH-0400- 0002-CM 1145 Sandvik	NP18966		
				SDJCL2020K 11 Sandvik	NP16937	DCMT11T308 -MM 2025 Sandvik	NP16974		

Unnamed: 20	Unnamed: 21	Unnamed: 22	Unnamed: 23	Unnamed: 24	Unnamed: 25	Unnamed: 26	Unnamed: 27	Unnamed: 28	Unnamed: 29
5.9402				SVJBL 2020K16 Sandvik	NP16938	VBMT160404 -MF 2015 Sandvik	NP16973	Screw for Insert	NP17536
		1K324-0600- XB 1730 Sandvik	NP20548						
		SM-01473 O/J30349 ITC	NP17415						
				RF123T06-20 20BM Sandvik	NP16939	N123T3-0100 -0000-GS Sandvik	NP16972		
				266RF-2020- 16	NP15712	266RG-16UN 01A280M 1135	NP16969		
				RF123H25-20 20BM Sandvik	NP11720	N123H2-0400 -0002 1125 Sandvik	NP16978		
		J32701 (155-3953-27) I.T.C.	NP20039						
		VCRC0050 Mitsubishi Carbide	NP17048						
		R216.34-1405 0-BC26P 1620 Sandvik	NP16924						
		R840-0330-5 0-A1A 1220 Sandvik	NP15979						
		J30349 Mitsubishi	NP19979						
			NP17040	R166.4KF-16 F16 Sandvik	NP17041	R166.0L-16U N01-200 1020 Sandvik	NP17040		

Unnamed: 20	Unnamed: 21	Unnamed: 22	Unnamed: 23	Unnamed: 24	Unnamed: 25	Unnamed: 26	Unnamed: 27	Unnamed: 28	Unnamed: 29
		SANDVIK		RAG123H07-25B Sandvik	NP17090	N123H2-0500-RO2135	NP17091		
				R166.4KF-20 F16 Sandvik	NP16946	266RL.16WH 01A260M 1125 Sandvik	NP17057	SCREWS P17163	
		MS4MCD160 0 Mitsubishi Carbide	NP11572						
		SANDVIK		327-16B60EC-14 SANDVIK	NP17058	327R14-28 40 002-GM1025	NP17059		
				R390-020A20-11M Sandvik	NP11488	R390-11 T3 31M-PM 1030 Sandvik	NP16967		
				MM S-D-L130 -C16-TO8-C Iscar	NP20133	MM HCD120 - 090 - 2T08 - IC908	NP18524		
		MPS0430-L8 C VP15TF Mitsubishi	NP17212						
		R840-0900-5 0-A1A Sandvik	NP16925						
		R840-0635-5 0-A1A Sandvik	NP15981						
		mod' MSJHD D0600 Mitsubishi Carbide	NP17032						
		mod' MSJHD D0800 Mitsubishi Carbide	NP17033						

Unnamed: 20	Unnamed: 21	Unnamed: 22	Unnamed: 23	Unnamed: 24	Unnamed: 25	Unnamed: 26	Unnamed: 27	Unnamed: 28	Unnamed: 29
				A16-SCLCR 09R Sandvik	NP16948	CCMT09T308 -MM 2025 Sandvik	NP17055	Screw for Insert	NP16044
				A16R-SVUBR 11-EB1 Sandvik	NP16945	VBMT110304 -MF 1025 Sandvik	NP16965	Screw NP11404	
				R166.4KF-20 F16 Sandvik	NP16946	266RL-16UN 01A180M 1135 Sandvik	NP16964	SCREWS P17163	
				880-D1350L2 0-04 Sandvik	NP16947	1. 880-01020 3H-C-LM 1044 2. 880-0 102W04H-P-L M 4044 Sandvik	NP16908 NP16909		
		VC-PSRB 12 X R0.3x36 (MMC457) Mitsubishi Carbide	NP16926						
				E16R-SDUC R07-ER Sandvik	NP16944	DCMT 070204-MM 1125 Sandvik	NP17225		
				266 RKF-25-16 SANDVIK	NP18981	266RL-16UN 01A160M 1135 SANDVIK	NP16960	SCREWS P17163	
				266 RKF-25-16 SANDVIK	NP18981	266RL-16WH 01A160M 1125 SANDVIK	NP17830	SCREWS P17163	
		M11201600 ITC	NP11359						
				K3R-2020-K1 6 KNURLTEC	NP08315	KW 168-10R KW 168-10L	NP08314 NP08313		J71592

Unnamed: 20	Unnamed: 21	Unnamed: 22	Unnamed: 23	Unnamed: 24	Unnamed: 25	Unnamed: 26	Unnamed: 27	Unnamed: 28	Unnamed: 29
				RF123H25-20 20BM Sandvik	NP11720	N123H2-0400 -RO 4125 Sandvik	NP15950		
				266RF-2020- 16	NP15712	266RG-16UN 01A200M 1135	NP15952		
		10MM 49761 0004MT WIDIA	NP17373						
		MS4MCD100 0 Mitsubishi Carbide	NP19754						
		SPECIAL 37 DEG FORM CUTTER	NP19715						
		VC2SBR0225 Mitsubishi Carbide	NP15969						
				327-12B21EC -06 Sandvik	NP16950	SPECIAL CO ROMILL327	NP16958		
				CXS-A12-05 (modified)	J71545	CXS-05TH26 WH-5215R 1025	NP17096		
		R840-1100-5 0-A1A Sandvik	NP16929						
		MM S-A-LO7 0-C10-TO6-C T/H Iscar	NP16860			MM HCD100 - 090 - 2T06 - IC908	NP17186		
		VC4JCD0300 Mitsubishi Carbide	NP10735						

Unnamed: 20	Unnamed: 21	Unnamed: 22	Unnamed: 23	Unnamed: 24	Unnamed: 25	Unnamed: 26	Unnamed: 27	Unnamed: 28	Unnamed: 29
				R390-020C5-11M095 Sandvik	NP16934	R390-11T308 M-MM2040 Sandvik	NP17264	Screw for Insert	NP11924
		mitsubishi	NP18907						
		SM-01473 O/J30349 ITC	NP17415						
				C2R-CC5-RH 25CB Sandvik	NP20549	C21-H2N-040 0-0002-GF12 25 Sandvik	NP20550		
		ITC VDS402A 05000-Q1810 12MAR	NP19348						
				E08K-SCLCR 06-R sandvik	NP17027	CCMT06 02 04-MF1125 Sandvik	NP17334	(WAS NP02998)	
				R390-020C5-11M095 Sandvik	NP16934	R390-11T308 M-MM2040 Sandvik	NP17264	Screw for Insert	NP11924
		MS4MCD120 0E Mitsubishi Carbide	NP11498						
		Emuge	NP09987						
				MB-E12-34-09	NP17173	MB-09FA150-02-14R 1025	NP17437		
		MS4MRBD06 00R150 Mitsubishi Carbide	NP17515						
		MPMHVRB 6XR0.5 mitsubishi carbide	NP17105						

Unnamed: 20	Unnamed: 21	Unnamed: 22	Unnamed: 23	Unnamed: 24	Unnamed: 25	Unnamed: 26	Unnamed: 27	Unnamed: 28	Unnamed: 29
		MWS0120LB VP15TF mitsubishi carbide	NP17106						
		MS4JCD0500 E MITSUBISHI	NP15956						
		R840-0510-0 50-A1A SANDVIK	NP17362						
			NP15690						
		PART OFF		SANDVIK QD -NN1H36C21 A	NP18967	QD-NH-0400- 0002-CM 1145 Sandvik	NP18966		
		widia 3/32 I4B 0094T037L	NP05931						
		mitsubishi	NP17504						
		MS4MRBD10 00R020 Mitsubishi	NP17179						
		Emuge	NP10022						
		TMRE10085 20UNF	NP17384						
		MWS0235SB VB15TF	NP17254						
		MPS0410-L-D IN-C VP15TF Mitsubishi	NP17202						
		RENISHAW							
		MPS0300L-DI N-C VP15TF	NP17312						

Unnamed: 20	Unnamed: 21	Unnamed: 22	Unnamed: 23	Unnamed: 24	Unnamed: 25	Unnamed: 26	Unnamed: 27	Unnamed: 28	Unnamed: 29
		MPS0430-L8 C VP15TF Mitsubishi	NP15961						
		MPS0430-L8 C VP15TF Mitsubishi	NP19882						
		MPS0400-L1 5C	NP19686						
		ITC /TTM0202	NP19189						
		MITSUBISHI	NP15738						
		MITSUBISHI	NP17445						
		Sandvik DRILL 9.4mm R840-0940-5 0-A1A 1220	NP17353						
		ITC 9.4mm SOLID CARBIDE FLAT BOTTOM DRILL	NP19755						
				SANDVIK CXS-A20-07	NP19765	SANDVIK CXS-07T 098 -20-7245R 1025	NP16915		
		Horn		M306.0012.0 1A HORN	NP18950	INSERT 306.0150.40 T125	NP18951		
		ITC	NP17309						
		MPS0340-L1 2C VP15TF / MITSUBISHI	17278						

Unnamed: 30	Unnamed: 31	Unnamed: 32	Unnamed: 33	Unnamed: 34	Unnamed: 35	Unnamed: 36	Unnamed: 37	Unnamed: 38	Unnamed: 39
Collet/Supplier	NP No5	Thro coolant Nut	NP No6	Sealing Disc	NP No7	Sleeve/Supplier	NP No8	Backend/Supplier	NP No9
Anvil for Insert	NP18964							C5-4-SL3209 3 125-AX	NP18963
Anvil for Insert	NP18964							C5-4-SL3209 3 125-AX	NP18963
Anvil for Insert	NP18964							C5-4-SL3209 3 125-AX	NP18963
Anvil for Insert	NP18964							C5-4-SL3209 3 125-AX	NP18963
								DS20-D2600 DM32-04 Sandvik	NP19971
Shim	NP17526	Shim Screw	NP17540					C5-ASHR3-3 6123-20 Sandvik	NP17006
								C5-SCLCR-1 3080-09 Sandvik	NP17008
393.14-32060 Sandvik	NP16983							C5-391-14-32 057 Sandvik	NP17011
393.CGS-200 652 Sandvik	NP16984							C5-391.CGA- 20074A Sandvik	NP17010
393.14-32050 Sandvik	NP17031							C5-391-14-32 057 Sandvik	NP17011
393.CG-1206 40 Sandvik	NP17002							C5-391.CGA- 12 062 Sandvik	NP17012
393.14-32050 Sandvik	NP17031							C5-391-14-32 057 Sandvik	NP17011
		Clamp Screw	NP20786						

Unnamed: 30	Unnamed: 31	Unnamed: 32	Unnamed: 33	Unnamed: 34	Unnamed: 35	Unnamed: 36	Unnamed: 37	Unnamed: 38	Unnamed: 39
393.CGS-200 652 Sandvik	NP16984							C5-391.CGA- 20074A Sandvik	NP17010
								C5-391.14-16 100 Sandvik	NP17019
								C5-APBR-122 -21-HP Sandvik	NP18965
								MODIFIED C 5-ASHL-3009 8-20(NP1701 5)	J71492
Shim	NP17526	Shim Screw	NP17540					MODIFIED C 5-ASHL-3009 8-20(NP1701 5)	J71492
								C5-391.21-06 070A Sandvik	NP17025
393.CG-12 03 40 Sandvik	NP17343							C5-391.CGB- 12136 Sandvik	NP17016
								C5-ASHR3-3 6123-20 Sandvik	NP17006
A393.CGS-12 0240 Sandvik	NP17001							C5-391.CGB- 12136 Sandvik	NP17016
393.14-16 0600 Sandvik	NP16988							C5-391.14-16 100 Sandvik	NP17019
								C5-391.21-14 075 Sandvik	NP17026

Unnamed: 30	Unnamed: 31	Unnamed: 32	Unnamed: 33	Unnamed: 34	Unnamed: 35	Unnamed: 36	Unnamed: 37	Unnamed: 38	Unnamed: 39
393.14-32060 Sandvik	NP16983							C5-391-14-32 057 Sandvik	NP17011
A393.CGS-12 0240 Sandvik	NP17001							C5-391.CGB- 12136 Sandvik	NP17016
								C5-391.27-16 065 Sandvik	NP17039
								C5-391-27-25 071 Sandvik	NP17013
								C5-391.27-20 -060 Sandvik	NP17020
393.CG-20 16 52	NP17073							C5-391.CGA- 20074A Sandvik	NP17010
393.CG-20 16 52	NP17073							C5-391.CGA- 20074A Sandvik	NP17010
393.14-32 200 Sandvik	NP16986							C5-391.14-32 100 Sandvik	NP17017
393.14-25 160 Sandvik	NP16987							C5-391.14-25 055 Sandvik	NP17018
393.14-16 0600 Sandvik	NP16988	5533 051-01	NP16995	3916.006	NP16997			C5-391.14-16 100 Sandvik	NP17019
393.14-16 1000 Sandvik	NP16989	5533 051-01	NP16995	3916.01	NP17000			C5-391.14-16 100 Sandvik	NP17019
393.14-16 0800 Sandvik	NP16990	5533 051-01	NP16995	3916.008	NP16998			C5-391.14-16 100 Sandvik	NP17019
393.CG-1206 40 Sandvik	NP17002							C5-391.CGA- 12 062 Sandvik	NP17012
393.CG-1208 40 Sandvik	NP17003							C5-391.CGA- 12 062 Sandvik	NP17012

Unnamed: 30	Unnamed: 31	Unnamed: 32	Unnamed: 33	Unnamed: 34	Unnamed: 35	Unnamed: 36	Unnamed: 37	Unnamed: 38	Unnamed: 39
						132L-2516-B Sandvik	NP17004	C5-391-27-25 071 Sandvik	NP17013
						132L-2516-B Sandvik	NP17004	C5-391-27-25 071 Sandvik	NP17013
								C5-391.27-20 -060 Sandvik	NP17020
								C5-391.27-20 -060 Sandvik	NP17020
								C5-391.CGA-12 062 Sandvik	NP17012
						132L-2516-B Sandvik	NP17004	C5-391-27-25 071 Sandvik	NP17013
ANVIL 5322 390-11	NP20145							C5-391-27-25 071 Sandvik	NP17013
ANVIL 5322 390-11	NP20145							C5-391-27-25 071 Sandvik	NP17013
393.14-16 0200 Sandvik	NP16991							C5-391.14-16 100 Sandvik	NP17019
								C5-ASHR3-3 6123-20 Sandvik	NP17006
393.14-16 1000 Sandvik	NP16989							C5-391.14-16 100 Sandvik	NP17019
393.14-16 1000 sandvik	NP16989							C5-391.14-16 100 Sandvik	NP17019
ESX 32 16 - 15MM BUCK & HICKMAN	NP08816							C5-391.14-32 057 Sandvik	NP17011
393.14-16 0600 sandvik	NP16988							C5-391.14-16 100 Sandvik	NP17019

Unnamed: 30	Unnamed: 31	Unnamed: 32	Unnamed: 33	Unnamed: 34	Unnamed: 35	Unnamed: 36	Unnamed: 37	Unnamed: 38	Unnamed: 39
								C5-391.20-12 060 Sandvik	NP16953
								C5-391.20-12 060 Sandvik	NP16953
393.14-20 120 Sandvik	NP16992	5533 051-02	NP16996	3920.012	NP16999			C5-391.14-20 100 Sandvik	NP16954
ESX 32 10 - 9MM BUCK & HICKMAN	NP08810							C5-391-14-32 057 Sandvik	NP17011
393.CG-1206 40 Sandvik	NP17002							C5-391.CGA- 12 062 sandvik	NP17012
ER16 SEAL 5-6	NP16039							C5-391.14-16 100 Sandvik	NP17019
393.CG-12 03 40 Sandvik	NP17343							C5-391.CGB- 12136 Sandvik	NP17016
		Clamp Screw	NP20786						
393.14-16 0600 Sandvik	NP16988							C5-391.14-16 100 Sandvik	NP17019
						132L-2508-B Sandvik	NP17005	C5-391-27-25 071 Sandvik	NP17013
								930-C5-S-12- 075	
393.14-32060 Sandvik	NP17031							C5-391-14-32 057 Sandvik	NP17011
								C5-391.20-12 060 Sandvik	NP16953
393.14-16 0600 sandvik	NP16988							C5-391.14-16 100 Sandvik	NP17019

Unnamed: 30	Unnamed: 31	Unnamed: 32	Unnamed: 33	Unnamed: 34	Unnamed: 35	Unnamed: 36	Unnamed: 37	Unnamed: 38	Unnamed: 39
393.CGS-200 652 Sandvik	NP16984							C5-391.CGA- 20074A Sandvik	NP17010
								C5-391-14-32 057 Sandvik	NP17011
393.14-32060 Sandvik	NP17031							C5-391-14-32 057 Sandvik	NP17011
393.14-16 0600 Sandvik	NP16988	5533 051-01	NP16995	3916.006	NP16997			C5-391.14-16 100 Sandvik	NP17019
393.14-20 120 Sandvik	NP16992							C5-391.14-20 055 Sandvik	NP17021
								C5-APBR-311 10-21-HP Sandvik	NP18965
								C5-391.14-16 100 Sandvik	NP17019
								C5-391.CGA- 12 062 sandvik	NP17012
393.14-16 1000 Sandvik	NP16989							C5-391.14-16 100 Sandvik	NP17019
ESX 32 8 - 7MM BUCK & HICKMAN	NP08808							C5-391.14-32 057 Sandvik	NP17011
393.14-16 1000 Sandvik	NP16989							C5-391.14-16 100 Sandvik	NP17019
393.14-16 0300 Sandvik	NP17341							C5-391.14-16 100 Sandvik	NP17019
ER16 5-6mm JET 2 Iscar	NP16039							C5-391.14-16 100 Sandvik	NP17019
								930-C5-S-12- 075	

Unnamed: 30	Unnamed: 31	Unnamed: 32	Unnamed: 33	Unnamed: 34	Unnamed: 35	Unnamed: 36	Unnamed: 37	Unnamed: 38	Unnamed: 39
393.14-16 0600 Sandvik	NP16988	5533 051-01	NP16995	3916.006	NP16997			C5-391.14-16 100 Sandvik	NP17019
393.14-16 0600 Sandvik	NP16988	5533 051-01	NP16995	3916.006	NP16997			C5-391.14-16 100 Sandvik	NP17019
ER16 SEAL 5-6	NP16039							C5-391.14-16 100 Sandvik	NP17019
ER16 SEAL 5-6	NP16039							C5-391.14-16 100 Sandvik	NP17019
								C5-391.20-16 060	
ESX 32 8 - 7MM BUCK & HICKMAN	NP08808							C5-391-14-32 057 Sandvik	NP17011
NBC 10-10	NP18124					BIG ST20-NB S10-100	NP19756	MODIFIED SANDVIK QUAD TOOL HOLDER	
NBC 10-10	NP18124					BIG ST20-NB S10-100	NP19756		
393.14-20 120 Sandvik	NP16992							C5-391.14-20 055 Sandvik	NP17021
393.14-20 120 Sandvik	NP16992							C5-391.14-20 055 Sandvik	NP17021
ER16 5-6mm JET 2 Iscar	NP16039							C5-391.14-16 100 Sandvik	NP17019
ER16 5-6mm JET 2 Iscar	NP16039							C5-391.14-16 100 Sandvik	NP17019
393.14-16 1000 Sandvik	NP16989	5533 051-01	NP16995	3916.01	NP17000			C5-391.14-16 100 Sandvik	NP17019
ER16 5-6mm JET 2 Iscar	NP16039							C5-391.14-16 100 Sandvik	NP17019

Unnamed: 40	Unnamed: 41	Unnamed: 42	Unnamed: 43	Unnamed: 44
EXTENSION HOLDER/Supplier	NP No10	Extension Holder		Offset No. for ool Life Calculator
				1
				240
				239
				241
C5-DM32-N-035	NP19972			2
				3
				238
				237
				4
C5-391.01-50050 Sandvik	NP17009			5
				6
				7
C5-391.01-50050 Sandvik	NP17009			8
C5-391.01-50050 Sandvik	NP17009			9
C5-391.01-50050 Sandvik	NP17009			10
C5-391.01-50050 Sandvik	NP17009			11
				12
				13
				14
				15
				16
C5-391.01-50050 Sandvik	NP17009			17
				18
				19
				236

Unnamed: 40	Unnamed: 41	Unnamed: 42	Unnamed: 43	Unnamed: 44
				235
				20
				21
C5-391.01-50050 Sandvik	NP17009			22
C5-391.01-50050 Sandvik	NP17009			23
				24
				25
				26
				27
C5-391.01-50050 Sandvik	NP17009			28
				29
				30
				31
				32
				33
				34
C5-391.01-50050 Sandvik	NP17009			35
				36
				37
				38
				39
				40
				41
				42
				43
				44

Unnamed: 40	Unnamed: 41	Unnamed: 42	Unnamed: 43	Unnamed: 44
				45
				46
				234
				233
				47
				48
C5-391.01-50050 Sandvik	NP17009			49
				50
C5-391.01-50 050 Sandvik	NP17009			51
				52
				53
				54
C5-391.01-50050 Sandvik	NP17009			55
C5-391.01-50050 Sandvik	NP17009			56
				57
				58
C5-391.01-50050 Sandvik	NP17009			59
				60
				61
C5-391.01-50050 Sandvik	NP17009			62
C5-391.01-50050 Sandvik	NP17009			63
C5-391.01-50050 Sandvik	NP17009		Will change to standard Pre Plating tap	64
				65
				66
C5-391.01-50050 Sandvik	NP17009			67
C5-391.01-50050 Sandvik	NP17009			68

Unnamed: 40	Unnamed: 41	Unnamed: 42	Unnamed: 43	Unnamed: 44
C5-391.01-50050 Sandvik	NP17009			69
				70
				71
				72
				73
C5-391.01-50050 Sandvik	NP17009			74
				75
C5-391.01-50050 Sandvik	NP17009			76
				77
				78
				79
				80
C5-391.01-50050 Sandvik	NP17009			81
				82
				83
				84
				85
				86
C5-391.01-50050 Sandvik	NP17009			87
				88
				230
				231
				232
				89
				90
				91

Unnamed: 40	Unnamed: 41	Unnamed: 42	Unnamed: 43	Unnamed: 44
				0
				0
				0
				0