



EQUIPMENT LIST

DISTINGUISHED SOLUTIONS IN PLASTIC ENGINEERING.

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MOLDING EQUIPMENT

AMOUNT	DESCRIPTION	AMOUNT	DESCRIPTION
6	TOSHIBA 85 TON - 3.3 OZ ALL ELECTRIC	1	ENGEL 500 TON - 66 OZ HYBRID
1	BAUER GAS ASSIST MOLDING SYSTEM	1	TOSHIBA 110 TON - 4.7 OZ ALL ELECTRIC
1	WITTMAN BATTENFELD - 100 TON 4OZ HYBRID	3	TOSHIBA 180 TON - 9.3 OZ ALL ELECTRIC
1	ENGEL 110 TON - 5.1 OZ ALL ELECTRIC	2	TOSHIBA 240 TON - 12.7 OZ ALL ELECTRIC
1	NEWBURY 30 TON SHUTTLE	3	TOSHIBA 250 TON - 12.7 OZ ALL ELECTRIC
1	TOSHIBA 45 TON - 1.6 OZ ALL ELECTRIC	2	TOSHIBA 390 TON - 27.5 OZ ALL ELECTRIC
2	TOSHIBA 45 TON - 2 OZ ALL ELECTRIC	1	TOSHIBA 500 TON - 50 OZ ALL ELECTRIC
2	TOSHIBA 55 TON - 1.3 OZ ALL ELECTRIC	1	TOSHIBA 610 TON - 58 OZ ALL ELECTRIC
1	TOSHIBA 55 TON - 3.3 OZ ALL ELECTRIC	1	TOSHIBA 610 TON - 61 OZ ALL ELECTRIC
1	TOSHIBA 65 TON - 2.2 OZ ALL ELECTRIC	1	TOSHIBA 110 TON - 5.3 OZ ALL ELECTRIC
1	ENGEL 180 TON - 10.2 OZ HYBRID	1	ENGEL 180 TON - 10.2 OZ HYBRID
1	ENGEL 55 TON - 1.0 OZ HYBRID	1	ENGEL 55 TON - 2.2 OZ ALL ELECTRIC
1	ENGEL 180 TON - 11.3 OZ	1	WITTMAN BATTENFELD 730 TON - 77 OZ HYDRAULIC
1	WITTMAN BATTENFELD 1235 TON - 218 OZ HYDRAULIC	1	WITTMAN BATTENFELD 130 TON WITH CLASS 7 CLEANROOM - .8 OZ HYBRID

FINISHING EQUIPMENT

AMOUNT	DESCRIPTION	AMOUNT	DESCRIPTION
1	HAAS TM2 40" X 16" X 16"	6	SONITEK TS 500 SERIES THERMAL PRESS
1	ITW IMTRAN PAD PRINTER GS - 100CC 4" X 9"	1	TOSH LOGICA 02, 4 COLOR, FULL SERVO PAD PRINTER
1	LARKEN CNC ROUTER 24" X 24" X 24"	1	TOSH LOGICA N90S, 2 COLOR, FULL SERVO PAD PRINTER
1	PAS 2 TON FULL SERVO THERMAL INSERTION	1	UNITED SILICONE PAD PRINTER UP 300 3" X 8"X CLICHE
2	POLYMARK HEAT STAKE 1/2 TON	2	UNITED SILICONE PAD PRINTER UP 303 4" X 8.5" CLICHE
1	PTA CUSTOM ROUTER 24" X 28" X 12"	1	UNITED SILICONE PAD PRINTER UP 450 4" X 12" CLICHE
3	PTA CUSTOM ROUTERS 30" X 35" X 12"	2	UNITED SILICONE PAD PRINTER UP 505 6" X 12.5" CLICHE
4	SERIES 2000 BRANSON AED 2000 WATTS	1	UNITED SILICONE 10 HEAT TRANSFER 1 TON 6" X 8" HEAD
1	SERIES 8400 BRANSON SONIC WELDER 900 WATTS	1	UNITED SILICONE 25 HEAT TRANSFER 2.5 TON 12" X 8" HEAD
1	SERIES 8700 BRANSON SONIC WELDER 1500 WATTS	2	WAGNER DHT THERMAL PRESS 1 TON
2	SERIES 910 IW BRANSON SONIC WELDER 1000 WATTS	1	WAGNER HEAT STAKE 1 TON
3	SFL THERMAL PRESS 3 TON	1	YCM SUPERMAX XV 1020A VERTICAL MACHINING CENTER
1	SONITEK 510 THERMAL PRESS	1	KENT TURBO 350 2 COLOR PAD PRINTER PNEUMATIC SHUTTLE
2	SONITEK THERMAL PRESS 2.5 TON	1	PAS 1 TON FULL SERVO THERMAL INSERTION
9	SONITEK S10 SERIES THERMAL PRESS	1	PAS STS 4000 FULL SERVO INSERTION PRESS
1	HURCO VM10 CNC - 26"X16"X20"	1	PAS STS 2000 FULL SERVO INSERTION PRESS
1	TOSH LOGICA 03, 4 COLOR FULL SERVO PAD PRINTER		



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	QUALITY		EDM		GRINDERS		LATHES		ROBOTS	
	AMOUNT	DESCRIPTION	AMOUNT	DESCRIPTION	AMOUNT	DESCRIPTION	AMOUNT	DESCRIPTION	AMOUNT	DESCRIPTION
	1	CMM BROWN & SHARPE PFX 7105 41.6" X 29.5" X 19.7"	1	CHATILLON 500LB CAPACITY DIGITAL FORCE GAUGE						
	1	CMM BROWN & SHARPE MICROVAL 18" X 20" X 15.5"	1	MITUTOYO OPTICAL COMPARATOR 10:1 LENS 15" SCREEN						
	1	CMM BROWN & SHARPE PFX 29.5" X 25.5" X 19.5"	1	SCHERR-TUMICO OPTICAL COMPARATOR 10:1 LENS 14" SCREEN						
	1	OGP SMART SCOPE MVP 6" X 12" X 6"	2	ARIZONA INSTRUMENTS VAPOR PRO MOISTURE ANALYZER						
	1	OGP SMART SCOPE FLASH SYSTEM 8" X 8" X 6"	1	CMM MICRO-VU EXCEL 1054 UC 1050 X 1050 X 400 MM						
	1	DVT 515 VISION INSPECTION SYSTEM	1	OGP SMART SCOPE FLASH 302 VISION MEASUREMENT 12" X 12" X 10"						
	1	X-RITE SP-64 SPECTROPHOTOMETER		VARIOUS PRECISION SCALES, SURFACE PLATES, HEIGHT GAUGES						
	2	CREAFORM HANDYSCAN BLACK ELITE LASER SCANNER								
	1	MAKINO EDNC 65 44" X 30" X 18" TANK	1	ELTEE-PULSITRON TRM-20, EP 30" X 20" X 12" TANK						
	1	MAKINO EDAF3 33" X 25" X 15" TANK	1	MAKINO EDGE 2 A16 12" X 10" X 10" TANK						
	1	MAKINO EDNC 85 47.2" X 31.5" X 17.7" TANK								
	3	MITSUI 6" X 18" SURFACE GRINDER	1	HARIG 6" X 18" SURFACE GRINDER						
	2	OKAMOTO 6" X 18" SURFACE GRINDER	2	HARIG 6" X 12" SURFACE GRINDER						
	2	OKAMOTO AUTOMATIC WET GRINDER 12" X 24"	2	DECKEL SOE CUTTER GRINDER						
	1	CLAUSING 15" X 70" ENGINE LATHE	1	HARDINGE 10" X 30" TOOL ROOM LATHE						
	2	HARDINGE 10" X 30" TOOL ROOM LATHE								
	3	YUSHIN AT 120S - THREE AXIS SERVO PICK AND PLACE	1	YUSHIN RC II 400S - THREE AXIS FULL SERVO PICK AND PLACE						
	1	YUSHIN A2 150S - THREE AXIS FULL SERVO PICK AND PLACE	1	YUSHIN RA II 600 - THREE AXIS FULL SERVO PICK AND PLACE						
	7	YUSHIN ATC 150S - THREE AXIS SERVO PICK AND PLACE	2	YUSHIN YA2 600 - THREE AXIS FULL SERVO PICK AND PLACE						
	2	YUSHIN ATB 150 - THREE AXIS SERVO PICK AND PLACE	1	WITTMAN W811 - THREE AXIS FULL SERVO PICK AND PLACE						
	3	YUSHIN RC II 250S - THREE AXIS FULL SERVO PICK AND PLACE	7	WITTMAN W818 - THREE AXIS FULL SERVO PICK AND PLACE						
	3	YUSHIN ATB III 300S - THREE AXIS SERVO PICK AND PLACE	1	STAUBLI TX90L - SIX AXIS INDUSTRIAL						
	1	YUSHIN AN III 350S - THREE AXIS SERVO PICK AND PLACE	1	EROWA ERS2044						
	2	CRIO COLLABORATIVE ROBOTS	1	EROWA COMPACT 80						
	3	WITTMAN W833 - THREE AXIS FULL SERVO PICK AND PLACE	1	WITTMAN W818 - THREE AXIS FULL SERVO PICK AND PLACE						
	1	STAUBLI TX2-60L - SIX AXIS INDUSTRIAL								



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CNC MACHINES

AMOUNT	DESCRIPTION	AMOUNT	DESCRIPTION
2	MORI-SEIKI NV5000B-15000 RPM 40.2" X 20.1" X 26.1"	1	HAAS TM2 40" X 16" X 16"
2	MAKINO V-56-20000 RPM 40" X 21 X 17"	1	MORI-SEIKI DURAVERTICAL 5100 12000 RPM 40" X 20" X 20"
1	MONARCH VMC 150B 50" X 30" X 44"	1	MORI-SEIKI DURAVERTICAL 5100 10000 RPM 40" X 20" X 20"
1	MAKINO SNC 64-20000 RPM 24" X 16" X 16"	1	DMG DMU65 MONO-BLOCK 20000 RPM 30" X 26" X 22"
1	MAKINO SNC 64-30000 RPM 24" X 16" X 16"	1	HURCO VM-101 10000 RPM 26" X 16" X 20"
2	MAKINO KE55 VERTICAL MACHINING 20" X 16" X 16"		

MISC.

AMOUNT	DESCRIPTION	AMOUNT	DESCRIPTION
2	KALAMAZOO HORIZONTAL BRAND SAW 20" X 12"	1	HERCULES RADIAL ARM DRILL PRESS 5" X 14.5"
2	DOALL BRAND SAW 20" X 12"	NUMEROUS	BRIDGEPORT SERIES 1, 2D ACCURITE AND EASYTRAX
1	CINCINATTI RADIAL DRILL 3" X 20"		

TECHNOLOGY

AMOUNT	DESCRIPTION	AMOUNT	DESCRIPTION
	CIMATRON E13		MOLDFLOW PART ADVISOR
	SOLIDWORKS		PRO ENGINEER
	PTC CREO 3		FILE TRANSFERS
	WEBSITE		SURFCAM
	STRATASYS OBJET 30 PRO 3D PRINTER		