



TOOL & DIE

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MACHINING CENTERS

Qty	Make	Model	Description	XYZ
1	Fadal	VMC4020	4-axis CNC machining center, 21 position auto tool changer	40"x20"x20"
1	Fadal	VMC15XT	4-axis CNC machining center, 21 position auto tool changer	30"x16"x20"
1	Haas	VF6	4-axis CNC machining center, 24 position auto tool changer	64"x32"x30"
1	Haas	VF4	4-axis CNC machining center, 24 position auto tool changer	50"x20"x25"

LATHES

Qty	Make	Model	Description	L X Ø
2	Haas	SL30	CNC lathe with live tooling & bar feeder	34"x17"
1	Haas	SL20	CNC lathe with live tooling & bar feeder	20"x10.3"
1	Haas	SL20	CNC lathe with live tooling	20"x10.3"
1	Haas	HL2	CNC lathe	20"x10"
1	Hitachi-Seiki	20SIII	Hitec-Turn CNC lathe	15.7"x12.5"
1	Hitachi-Seiki	23J	Hitec-Turn CNC lathe	24.8"x13.3"
2	Mori Seiki	SL-0	CNC lathe	10"x4"
2	Okuma	LCS-15/H	CNC lathe	20"x10"
1	Clausing	Colchester	lathe	32"x6"
1	Hardinge	DV-59	lathe	16"x1"
1	Hardinge	HLV-H	lathe	16"x1"
1	Hardinge	TFB-H	lathe	16"x1"

HIGH-SPEED STAMPING PRESSES

Qty	Make	Model	Bed Size	SPM	Stroke	Capacity
2	Bruderer	BSTA30	20.875"x25.125"	up to 1425	.5"-1.5"	30 ton
1	Bruderer	BSTA22E	15.750"x21.875"	up to 1800	.5"-1.5"	30 ton
2	Bruderer	BSTA20	15.750"x21.875"	up to 2000	.31"-1.5"	22 ton
1	Oak	30-SS/Namco feed	15.500"x40.000"	up to 1500	1.5"-fixed	30 ton
1	V&O	25SS-12	19.875"x26.000"	up to 1999	.75"-fixed	25 ton
2	Perkins	5C	7.500"x12.000"	up to 500	1.25"-fixed	5 ton
1	Minster	6	21.000"x33.000"	up to 90	1.25"-4.00"	60 ton

2	Littell	H-80 Uncoiler
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INJECTION MOLDING PRESSES

Qty	Make	Model	Description	Capacity
1	Toyo	TI-35BS	3 pressures, 4 speeds with Micropro control	35 ton, 2.3in ³ (1.3oz.)
1	Toyo	TI-90GS	3 pressures, 4 speeds	90 ton, 8.1in ³ (4.4oz.)

EDM

Qty	Make	Model	Description
1	Charmilles	Robofil 4020	5-axis wire EDM with taper cutting capability, with 3R tooling
1	Sodick	EPOC-3	CNC sink EDM with orbiting and tapping capabilities, with 3R tooling
1	Gromax	GD-16	Super high-speed hole machine/popper

PROFILE & JIG GRINDERS

Qty	Make	Model	Description
1	Moore	G18	Jig grinder
1	Wasino	GLS125A	Optical profile grinder
1	Wasino	GLS125A10X	Optical profile grinder

SURFACE GRINDERS

Qty	Make	Model	Description
1	Supertec	STP-1428AD	Surface grinder
1	Harig	618 Slicer	Microprocessor controlled carbide hogger
4	Parker Majestic	various	Surface grinder
2	Harig	612	Surface grinder
1	Mitsui High-Tec	MSG200MH	Surface grinder
1	Mitsui High-Tec	MSG250H	Surface grinder
1	Brown & Sharpe	612 Master	Surface grinder

MILLING MACHINES

Qty	Make	Model	Description
2	Bridgeport	Easy Track	CNC mill
1	Sundstrand	Rigidmil	Horizontal milling machine

GUN DRILLING & MISC.

Qty	Make	Model	Description	L X Ø
1	Eldorado	M75	Gun drill 15"x1.00"	15"x1.00"
1	Eldorado	M50	Gun drill	15"x1.25"
1	Nittokoki	PC-125	Polygon machine	4"x2.4"

SCREW MACHINING

Qty	Make	Model	Description	capacity-Ø
3	Bechler	BR20	Swiss screw machine	.750"
2	Strohm	125	Swiss screw machine	.500"
5	Brown & Sharpe	OOG	Screw machine	.500"
12	Brown & Sharpe	OG	Screw machine	.750"
3	Brown & Sharpe	2G	Screw machine	.750"
8	Brown & Sharpe	2	Screw machine	1.250"
1	Brown & Sharpe	2G	Screw machine	1.500"
2	Brown & Sharpe	2G	Screw machine	1.625"
7	Index Werke	DG12	Screw machine	.500"
2	Index Werke	DO12	Screw machine	.500"
6	Index Werke	C29 12	Screw machine	1.000"
3	Index Werke	B60	Screw machine	2.000"

WELDING, FABRICATION & METAL SERVICES

Hurco PRDC 150-3660 CNC Press Brake, 165 ton X 13' long with crown compensation
 Uni-Hydro Ironworker model #42-14 42-ton press brake
 MIG, Heliarc/TIG, Acetylene, Stick & Spray Metal, Brazing, & Ultra-sonic Welding
 Metal Slitting - able to wind (12) 1000 lb. coils simultaneously

INSPECTION & SECOND OPERATION

Complete set of gages and inspection equipment including:

Brown & Sharpe programmable Micro-Hite - $\pm .000050$ "
 Sylvac Z_Cal 300
 Rockwell hardness tester (model HR-150A)
 (7) Optical comparators
 (12) Gage block sets
 Federal Gage with resolution to $.00001$ "

Fully equipped shop including all cutters, presses, drills, saws, parts, service, and repairs to support all shop equipment.
 Fully stocked and maintained tool crib and machine build area.

5 Vertical mills with digital readouts
 8 Drill presses
 3 Heat Treat Ovens