

# SOURIAU PA&E MACHINING EQUIPMENT AND CAPABILITIES

<b>CNC PROGRAMMING</b>		(6) Mastercam Version 10 MR2 (Includes Mill/Design/Lathe) (4) Solidworks (Includes Part, Assembly, Drawing and E-Drawing) (10) Pro/ENGINEER 3D Design Software		
	<b>Make</b>	<b>Type</b>	<b>Model</b>	<b>Spindle Travel (Inches)/RPM/Tools</b>
<b>CNC VERTICAL MACHINING CENTERS</b>	(1) Fadal	4-Axis	6030	30"x60" 10,000 RPM 15HP -21 Tools
	(1) Fadal	3-Axis	5020	20"x50" 10,000 RPM 22.5HP
	(1) Fadal	3-Axis	4020	20"x40" 10,000 RPM 15HP
	(1) Okuma	4-Axis	V4020 Cadet	20"x40" 10,000 RPM 15HP -21 Tools
	(1) Okuma	4-Axis	MX45VAE	30"x18" 12,000 RPM -32 Tools
	(1) Okuma	4-Axis	MX45VAE	30"x18" 12,000 RPM -20 Tools
	(1) Okuma	3-Axis	MX45VAE	30"x18" 12,000 RPM -32 Tools
	(3) Okuma	3-Axis	MX45VAE	30"x18" 12,000 RPM -20 Tools
	(3) Okuma	3-Axis	MX45VAE	30"x18" 7,000 RPM -20 Tools
	(2) Okuma	3-Axis	Cadet Mate	40"X20" 8,000 RPM -20 Tools
(1) Revolution	3-Axis	Tooling Mill	20"x40" 5,000 RPM 5HP	
<b>CNC HORIZONTAL MACHINING CENTERS</b>	(3) Mori Seiki	4-Axis	SH-50	12,000 RPM , 30 HP in a FEMS Cell Configuration, 180 Tools
	(1) Mori Seiki	4-Axis	NH-4000	14,000 RPM, 30 HP, 240 tools
	(1) Mazak	4-Axis	FH-5800	28"x24"x26" 12,000 RPM, 30HP, 80 Tools
	(1) Mazak	4-Axis	FH-5800	28"x24"x26" 12,000 RPM, 30HP, 120 Tools
	(1) Mazak	4-Axis	FH-5800	28"x24"x26" 15,000 RPM, 40HP, 40 Tools
<b>CNC TURNING CENTERS</b>	(2) Okuma	2-Axis	Crown-BB	10"x17"-14" Swing, 3500 RPM 20-22HP
	(1) Okuma	2-Axis	Crown-BB	10"x17"-14" Swing, 3500 RPM 15-18HP
	(2) Omniturn	2-Axis	GT-75	4,000 RPM 1" Max. Stock
	(1) Star	5-Axis	SR-16	Screw Machine, 16mm Max Stock, Live
	(1) Tornos Bechler	9-Axis	Deco-10	Screw Machine, 10mm Max. Stock, 16,000 RPM, 16,000 RPM Main and 12,000 RPM Sub-Spindle, Live Tooling in 7 Axis
	(1) Tornos Bechler	9-Axis	Deco-13	Screw Machine, 12mm Max. Stock, 12,000 RPM, 12,000 RPM Main and Sub-Spindle, Live Tooling in 8 Axis
(1) Hardinge	N/A	Elite 27MS	VDI25 Turret, 16 Stations, up to 32 Tools. 27mm Bar Capacity x 330mm Max. Turn Length, 8,000 RPM Main and Sub Spindle Parts Removal System	
<b>WATER JET</b>	(1) Omax	N/A	55100	55"x100" /20HP, 8" Thick
<b>LASER WELDING</b>	(2) Lasag	542C	Pulsed Nd:Yag	Fiber optic delivered beam 4-Axis workstation
<b>LASER MARKING</b>	(1) Quantronix	Osprey	Constant Watt Nd:YVO <sub>4</sub>	

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	Make	Type		TOUCH PROBE CMMS	Make	Model	
<b>MANUAL LATHES</b>	(1) Cadillac (1) Clausing (1) Hardinge Chuckers		<b>QUALITY CONTROL</b>	<b>TOUCH PROBE CMMS</b>	(1) Mitutoyo (1) Mitutoyo (1) Mitutoyo	B706 CMM B504B 343/454	
<b>TOOL &amp; CUTTER GRINDERS</b>	(1) Cincinnati (1) Jones & Shipman (1) Covell Eucel (1) Drill Grinder  (1) Kaoming	#2			<b>OPTICAL CMMS</b>	(1) OGP Smartscope (1) OGP Smartscope (1) Starret Sigma (1) View Module Ve612 (1) Mitutoyo	Flare FOV HC800 Voyager 1000 PH-3500
<b>EQUIPMENT &amp; SYSTEMS</b>	(5) Digital Height Gauges (4) Federal Air Gauges						
<b>MANUAL MILLS</b>	(1) Hitachi (3) Bridgeport (1) Alliant	Horz. Vert. Vert.	<b>EDM</b>	(1) Mitsubishi (1) Excell-O	CX-20 Die Sinker		
<b>AEROSPACE ASSEMBLY</b>	(2) Sunnen Hone (1) Chicago Auto. Riveter (2) Sunnen Hyd. Press (1) Hardinge HC Lathe (2) Inkjet Part Marker						

## CERTIFICATIONS:

- AS-9100, Rev. B
- ISO 9001:2008
- Company Commitment to Total Quality

## MANUFACTURING SYSTEMS:

- Axapta—Fully Integrated Manufacturing Software, ERP Capacity Planning
- In Process Control

## FACILITIES:

- 38,000 SF Manufacturing Space
- 6,000 SF Processing Plant (Chemfilm & Anodize)
- 36,000 SF Assembly
- 15,000 SF Office Space
- 96,000 SF Total



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