

PA&E MACHINING EQUIPMENT AND CAPABILITIES

CNC PROGRAMMING		(6) Mastercam Version 10 MR2 (Includes Mill/Design/Lathe) (4) Solidworks (Includes Part, Assembly, Drawing and E-Drawing) (10) Pro/ENGINEER 3D Design Software		
	Make	Type	Model	Spindle Travel (Inches)/RPM/Tools
CNC VERTICAL MACHINING CENTERS	(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	
CNC HORIZONTAL MACHINING	(3) Mori Seiki	4-Axis	SH-50	12,000 RPM , 30 HP in a FEMS Cell Configuration, 180 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
CNC TURNING CENTERS	(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	
WATER JET	(1) Omax	N/A	55100	55"x100" /20HP, 8" Thick
LASER WELDING	(2) Lasag	542C	Pulsed Nd:Yag	Fiber optic delivered beam 4-Axis work-station
LASER MARKING	(1) Quantronix	Osprey	Constant Watt Nd:YVO ₄	

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	Make	Type		TOUCH PROBE CMMS	Make	Model	
MANUAL LATHES	(1) Cadillac (1) Clausing (1) Hardinge Chuckers		QUALITY CONTROL	TOUCH PROBE CMMS	(1) Mitutoyo (1) Mitutoyo (1) Mitutoyo	B706 CMM B504B 343/454	
TOOL & CUTTER GRINDERS	(1) Cincinnati (1) Jones & Shipman (1) Covell Eucel (1) Drill Grinder (1) Kaoming	#2			OPTICAL CMMS	(1) OGP Smartscope (1) OGP Smartscope (1) Starret Sigma (1) View Module Ve612 (1) Mitutoyo	Flare FOV HC800 Voyager 1000 PH-3500
EQUIPMENT & SYSTEMS	(5) Digital Height Gauges (4) Federal Air Gauges						
MANUAL MILLS	(1) Hitachi (3) Bridgeport (1) Alliant	Horz. Vert. Vert.	EDM	(1) Mitsubishi (1) Excell-O	CX-20 Die Sinker		
AEROSPACE ASSEMBLY	(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 9001:2000
- 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 & Paint)
- 36,000 SF Assembly
- 15,000 SF Office Space
- 96,000 SF Total



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ISO 9001:2000
 ISO 9001:2000/AS9100