



Aztalan Engineering, Inc.

EQUIPMENT LIST

TURNING

14 MACHINES

(2) – Okuma LT-10M, Twin Spindle, Twin Turret, Turning Centers

Live Tooling and C-Axis on both turrets, simultaneous turning on both spindles
Polygon Turning Kennametal KM quick change tooling on both turrets
2" & 2½" bar capacity
Midaco 3-foot barfeeder
Parts conveyor, "lights out" running capability

(3) – Okuma LT-200MY, Twin Spindle, Twin Turret, Turning Centers

Live Tooling and C-Axis on both turrets, simultaneous turning on both spindles
Y-Axis milling on the A-turret
Kennametal KM quick change tooling on both turrets
2" & 2½" bar capacity
Midaco 3-foot barfeeder
Parts Conveyor, "lights out" running capability

(2) – Hardinge Conquest Super Precision, Single Spindle, Single Turret Lathes

Live tooling and C-Axis
Fanuc OT controller
2" & 2½" Bar capacity, 10" chuck capacity on the 2½" bar machine

(3) – Hardinge Conquest Lathes

Live tooling and C-Axis
Fanuc OT controller 1½", 2" & 2½" bar capacity
Live tooling and C-Axis

(1) – Tsugami Swiss Style Lathe

20mm bar capacity
Live tooling, B-Axis
6-foot Midaco barfeeder

(2) – Okuma LR-10, Single Spindle, Twin Turret Turning Center

Okuma Robot & load/unload parts carousel
Part probing
Live Tooling, C-Axis, 6" chuck capacity
.5 micron controller

(1) – Okuma LFS, Twin Spindle, Twin Turret, Turning Center

Integral gantry robot for load/unload and part transfer from spindle to spindle

(2) – Integral load/unload tables

Live tooling, C-Axis on both turrets, simultaneous turning on both spindles
6" chuck capacity
.5 micron controller



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EQUIPMENT LIST

MILLING

10 MACHINES

(5) – Okuma MA-40HA. 4-Axis Horizontal Milling Centers

- Cat 40 taper, 400mm pallet, 15,000 RPM spindle
- Pallet changer
- 1,000 psi through the tool Chip Blaster coolant system on one machine
- 250 psi through the tool coolant on 4 machines
- Tool storage from 60 tools to 200 tools
- Part probing on one machine

(1) – Okuma MA-40HA. 4-Axis Horizontal Machining Center with Fastems FMS System

- Cat 40 taper, 400mm pallet, 15,000 RPM spindle
- 100 tool magazine
- 1,000 psi through the tool Chip Blaster coolant system
- 12 pallet storage, load/unload crane, routing controller

(4) – Fadal 4020 Vertical Machining Centers

- Cat 40 taper, 20 x 40 x 16 work envelope
- 10,000 RPM spindle
- Pallet changer on three machines

MANUAL MACHINES

(4) – Bridgeport Knee Mills

(1) – Hardinge Super Precision Engine Lathe

INSPECTION EQUIPMENT

FULLY EQUIPPED INSPECTION LAB THAT INCLUDES:

- (1) – Mitutoyo F604 manual CMM**
- (1) – Mitutoyo Bright-A707 CNC CMM**
- (1) – Mitutoyo Crysta Apex C CNC CMM**
- (1) – OGP Smart Scope video measurement machine**
- (1) – Tropel Flatmaster**
- (1) – Zeiss Surfcom 130**

OTHER EQUIPMENT

- Induction and torch brazing and soldering
- Blackstone Ultrasonic cleaner
- Vapor Degreaser with ultrasonic cleaning tank
- Lewis Systems Ultrasonic cleaning line
- Zoller Smile 400 tool presetter

MANUFACTURING SOFTWARE SUPPORT

- JobBOSS manufacturing software
- Easy-Cam programming software
- AutoCAD
- Mitutoyo MCOSMOS off-line programming software for programming CNC CMMs
- Kennametal ToolBoss tool dispensing station
- MacMan.net integration software
- Boothroyd Dewhurst DFMA® Design for Manufacture and Assembly software