

Precision Machining Capability

- **SNK HPS 120B 5 axis Fanuc 15i-MA**

Capacity: A axis +/- 90 °, C axis +/- 270 °

31500mm x 1320mm x 762mm

- **SNK HPS 120B 5 axis twin pallet Fanuc 15i-MA**

Capacity: A axis +/- 90 °, C axis +/- 270 °

3150mm x 1320mm x 762mm

- **Cincinnati Milacron 5 axis vertical centre with Acramatic 950 control & auto tool change**

Capacity : x = 120" y = 30" z = 24"

3050mm, 760mm , 610mm

A axis +/- 25 ° B axis +/- 28 °

- **Mazak Vortex 815/120 Fanuc 15iMA – 2 off**

Capacity: x = 120" y = 32" z = 24"

3048mm, 810mm , 610mm

A & B axis +/- 30 °

- **Mazatech Horizontal H500/50N with Mazatol M32 Plus Control**

Twin 500m Pallets 6000 rpm

Capacity x = 28.35 y = 25.59" z = 25.59"

720mm, 650mm, 650mm

- **Yamazaki H22 horizontal centre with Fanuc 6MB control**

Twin Pallet 30"(760mm) sq

Capacity x = 43 y = 42 z = 30"

1090mm, 1065mm, 750mm

- **Yamazaki H630 horizontal centre with Mazatrol M32 control**

Six pallet 25"(635mm) sq

Capacity x = 39"(990mm) y = 31"(785mm) z = 30"(760mm)

- **Matsuura 2000V vertical centre with Fanuc 6MB control**

Capacity x = 80"(2.03m) y = 31"(787mm) z = 30"(760mm)

- **Matsuura RA1GII twin pallet 15,000rpm with J6300 control system**

Capacity x = 20"(510mm) y = 16"(400mm) z = 18"(460mm)

Two machines available

- **Hartex external grinder**
Capacity: 10"(255mm) dia. x 36"(915mm) between centres
- **Jones & Shipman universal grinder**
Capacity: 10"(255mm) dia. x 18"(457mm) between centres
- **Myford universal grinder**
Capacity: 6"(150mm) dia. x 18"(455mm) between centres
- **Magerle surface grinder**
Capacity: 14"(355mm) x 14"(355mm) x 36"(615mm)
- **Jones & Shipman tool cutter grinders (Three off)**
- **Gate 6'(1.83m) radial drill**
- **Graffenstaden Miller**

Composite Material Capability

Autoclaves:	83"Dia x 275"	2.1m, 7m
	Cure up to 200oC	
	Pressure 100PSI	
Ovens :	117"x118"x100"	2.97m, 2.99m 2.5m
	Cure up to 200oC	
Clean Area:	4250 sq ft	278sq m
Wet lay-up area :	3700sq ft	99sqm
Trim/Finishing Area :	5000sq ft	
Materials:	Dry or prepreg forms of:	
	Glass fibre	
	Carbon fibre:	Unidirectional tape
		Woven fabric
	Kevlar fabrics	
	Hybrids	
	Alumesh	
Resins :	Epoxy	
	Phenolic	
	Bismaleimides	
	Filmadhesives	
Cores:	Honeycombs: Nomex	
	Aluminium	
Foams:	Rohacell	
	PVC	
	Polyurethane	
Cold Storage:	Long term storage of prepreg materials with temperature records	
Bonded storage :	For control of details and materials	

Tooling: Metallic
Composite
Wooden
To match part manufacture requirements

Metal –to-metal bonding

Redux 775 bonding: Skin to skin structural applications
Skin to stringer applications

Structural Bonding : Skin to skin,
Skin to honeycomb
Aircraft primary structure

Hysol bonding : Airframe structure

Nacelle bonding : Use of reticulating film adhesives for acoustic application

Sheet detail: Produced in house

Specialist pre-bond treatments : For all applications

Fabrications Capability

Draw benches, 30ft, manufacturing various stringer sections.

Hufford Stretch Form 8ft A5.

Router Bed 10.6m x 1m x 3 heads.

Rubber Press 500mm x 700mm x 450T.

Solution treatment oven approved to BEAP 9006 and BS 2M54 1 m³ basket 460degC to 550degC.

Age treatment oven 600mm x 600mm x 9m long 120degC to 200degC approved to BEAP 9006 and BS 2M54.

CNC LVD Brake Press 3m long , 100 ton.

Various Blank & Pierce equipment, hand-folders, flattening rolls fly presses etc.

Guillotine 2m x 2.5mm thick.

Bronx flattening rolls 1.2m wide.

Light Angle Rolls.

Treatments Capability

Alocrom 1200, 1000, 100	Chromic acid anodising	Sulphuric acid anodising
Chromic/ sulphuric pickling	Cadmium plate	Nickel Strike
Abrasive blasting	Zinc and aluminium spray	Phosphate
Chromate on magnesium	Dry lubricant	Epoxide primer
Spray paint (air drying system)	Flexible permeable finish	Stoving finish
Textured finish	Non-destructive testing	Zinc plating
Conductivity testing, tensile testing, composite testing		Stainless steel passivation
Grain flow testing	Etch inspection	Bond primer
Dye penetrant, magnetic, particle, hardness testing		

Treatment facilities :

Tank size	up to 14ft x 5ft x 3ft	4.3m, 1.52m, 1m
Vacublast:	up to 14ft x 8ft x 8ft	4.3m, 2.44m, 2.44m
Paintline:	Conveyorised system.	