

Manufacturing capabilities



Airborne Systems offers a wide range of processes giving our customers flexibility and optimised productivity for a wide variety of components.

- CNC milling and turning centres of various capacities
- Pressing
- Tooling manufacture and maintenance
- Assembly and fabrication
- Finishing

Equipment listing

Milling Machines

Manufacturer and name	Type of machine	Details	Spindle RPM	Working Envelope		
				"X" axis	"Y" axis	"Z" axis
MAZAK - NEXUS 5000	Horizontal machine	Twin pallet (500 x 500mm) with 300mm square tombstones giving 4 working faces per pallet.	18000	730mm	730mm	730mm
MATSUURA - RA-2F	Vertical machine	Twin pallet (600 x 380mm).	15000	600mm	410mm	470mm
CININNATI - FTV850	Long bed vertical machine	Dual load option.	5000	3700mm	800mm	900mm
MIYANO - TSV25	Vertical turret drilling/milling machine	Twin pallet. Manually operated.	6000	600mm	410mm	250mm
BRIDGEPORT-INTERACT 412	Vertical machine	Single bed with optional rotary 4th axis.	6000	450mm (without 4th axis)	310mm	300mm
XYZ - PRO3000	Single bed machine	Manually controlled with digital readout, or programmed for auto run.	3600	1100mm	250mm	Variable height

Turning Centres

Manufacturer and name	Type of machine	Details	Barfeed	Maximum bar diameter	Chuck diameter
MORISEIKI – MT253	Multi-axis mill/turn machining centre	Twin spindle 5 axis mill/turn. Chuck only.	Yes - 1 metre length	72mm	330mm
CITIZEN M32	13 axis sliding head machine	Driven tooling for milling. Collet only.	Yes	32mm	N/A
MIYANO BNC 34S	2 axis lathe with sub spindle	Collet or chuck .	Yes	34mm	127mm
IKEGAI AT25ZU	Turning centre	Driven tooling on turret for milling. Chuck only.	Yes	65mm	254mm
IKEGAI TCR25	Turning centre	Driven tooling on turret for milling. Collet or chuck.	Yes	65mm	203mm
BEAVER TC10	2 axis lathe	Collet or chuck	Yes	42mm	165mm
COLCHESTER COMBI K3	Manual/automatic lathe	Manual operation or programmable for auto run. Chuck only.	No	72mm	330mm

The Press Shop

Airborne Systems' press shop facility is equipped with a range of automated vertical presses, as well as smaller fly presses.

It includes:

- 60T press (strip or coil fed)
- 160T press (strip or coil fed)
- 360T coining press
- Various fly/hare presses
- Guillotine

The Tooling Workshop

All tooling utilised at Airborne Systems is manufactured and maintained to the highest standards by our in-house tooling workshop facility. This ensures minimum tooling down-time, and benefits the customer with maximised production utilisation.



Assembly and Fabrication

Airborne Systems can offer a one-stop-solution providing for large fabrications and their assembly through to small precision assembly, all controlled by strict quality control procedures.

The large fabrication and assembly area includes:

- Sheet metal fabrication
- Welding of a wide range of metals
- Riveting
- Drilling
- General assembly of large items

The light assembly area caters for precision assembly of small and medium size components. It includes:

- Clean room environment
- Intricate assembly of small precision components
- Hand forming
- Drilling and rivet spinning



Finishing Services

Airborne Systems' finishing services include:

- Fettleing
- Polishing and linishing
- Roto-surface finishing
- Aqua bead blasting
- Paint spraying in a clean controlled-temperature environment
- Part marking – Engraving or high-resolution piezo inkjet marking system

Other finishing options such as heat treatment, anodising, plating and galvanising are available through our approved sub-contractor base.



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