

TRANSFORM YOUR MANUFACTURING LINE INTO AN ASSEMBLY LINE



FINISHED COMPONENT SERVICES BY

CAPRAL
ALUMINIUM

At Capral Aluminium, we have continued to work closely with our major customers to understand their fabrication requirements and develop an enhanced machining capability for the Transport, Marine and General Engineering markets. Our new state-of-the-art 7-axis robotic machining centre compliments and expands on our extensive value add capabilities. We can machine transport top and bottom rails, marquee beams, light poles, bus cant rails and main beams to name just a few.

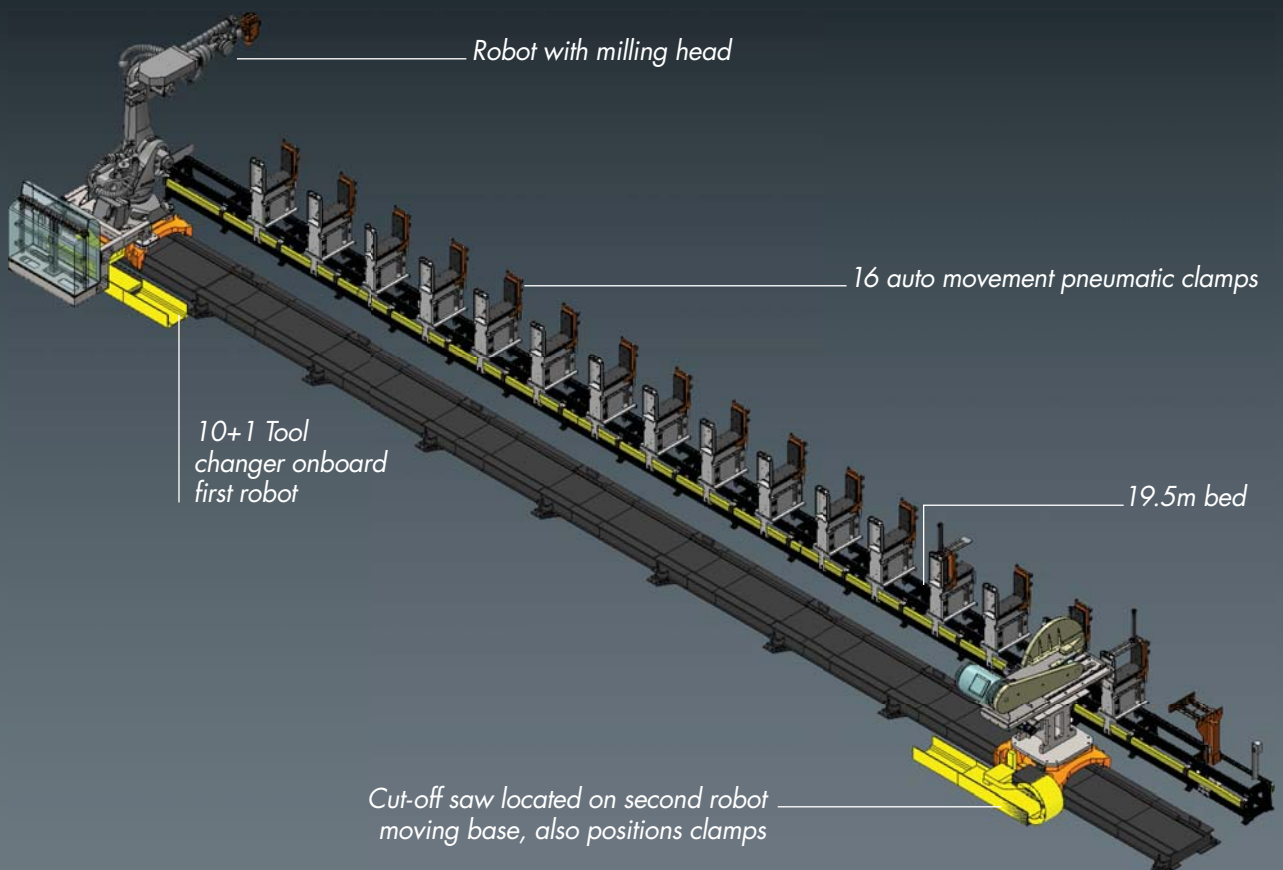
This robotic machining centre is a milling robot, mounted on carriage that moves along a 19.5m track. It is designed to machine aluminium profiles of lengths up to 17m, with the clamping aperture accommodating profile sections of 450mm (W) by 350mm (H).

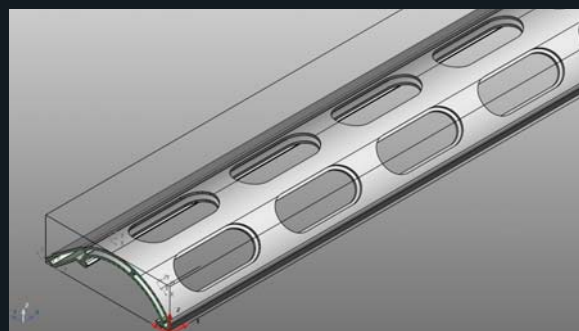
A 10+1 position tool changer is carried at the rear of the robot, moving up and down the track as the system itself moves. A second carriage is mounted on the robot bed containing a cut-off saw that can cut profiles perpendicular to the bed into sections. This carries the clamp movement peripherals and is the physical clamp repositioning device. The saw carriage also has a read head onboard for locating clamps on the track prior to movement.

Major components of the machine are:

- Clamping bed
- Robot track and two robot carriages
- Cut-off saw
- Robotic manipulator
- Milling Head
- Offline programming control panel for CAD/CAM design
- Online robotic control pendant

For sales enquiries and support of the new Robotic Machining Centre, please contact Capral Aluminium on **1300 361 877** or visit www.capral.com.au.







Manufacturing and Value Add Facilities

NSW/ACT

2115 Castlereagh Road,
Penrith NSW 2750
Ph: 02 4761 2500

VIC/TAS

151 Barry Road,
Campbellfield VIC 3061
Ph 1300 133 975

QLD

71 Ashburn Road,
Bundamba QLD 4304
Ph: 07 3816 7000

SA/NT

Stockwell & Crennis Mines
Roads, Angaston SA 5353
Ph: 08 8564 2230

WA

45-55 Baile Road,
Canning Vale WA 6155
Ph: 08 9456 6666

Manufacturing Plant Capabilities

Capral is Australia's largest manufacturer of aluminium extrusions and has an extensive network of added value facilities designed to meet the needs of our customers. These facilities not only provide aluminium extrusions but provide our customers with a more streamlined means to a final product and are supported by experienced trained staff. Basic value add facilities are also available through our network of regional and metropolitan Aluminium Centres.

New South Wales

- Cut back saw
- Slotting
- Routing
- Small cut pieces
- Drilling
- 3 Axis CNC Plate router
- Customer specific packaging

Queensland

- Precision cutting
- Compound cutting
- Mitre cutting
- Sheet/Plate cutting
- Punching
- Slotting
- Routing
- Drilling
- 4 Axis CNC
- 3 Axis CNC Plate router
- Customer specific packaging

South Australia

- Precision cutting
- Mitre cutting
- Punching
- Slotting
- Weather pile installation
- Adhesive tape applied to critical extrusions to protect surface from scratching
- Customer specific packaging

Victoria

- 7 Axis Robotic Machining Centre for product fabrication up to 17m
- Precision cutting
- Mitre cutting
- Sheet/Plate cutting
- Sheet/Plate bending
- Punching
- Slotting
- Drilling
- Knurling
- De-burring
- Cold drawing
- 3 Axis CNC Plate router
- 3 and 4 Axis CNC
- Customer specific packaging

Western Australia

- Precision cutting
- Mitre cutting
- Punching
- Slotting
- Drilling
- Sheet/Plate cutting
- Sheet/Plate bending
- 3 Axis CNC Plate router
- Customer specific packaging