

**VALUE ADD ACTIVITIES AND
FABRICATION FACILITIES**

**VALUE ADD
ACTIVITIES**



Value Add

Capral Aluminium has focused on the requirements of our customers and made a significant investment in our processing and fabrication facilities.

Fabrication facilities include:

- Automatic fine tolerance cut to length saw
- **CNC Machining:** 4 AXIS CNC machining centre for products up to h=170mm, w=400mm, l=14000mm; 3 AXIS CNC machining centre for products up to h =180mm, w=200mm, l=7000mm; CNC extrusion and plate router for products up to h=200mm, w=2500mm, l=12,500mm, maximum cut depth = 25mm
- **Drawn products:** Precision ovality, work hardened tubing, outer diameter 40mm to 130mm, wall thickness 1.8mm - 10mm
- **Knurling:** Application of non-slip surface to extrusions
- Product edge de-burring
- **Anodising:** Controlled oxidation of the aluminium surface by immersion into a dilute sulphuric acid. The oxide film is an integral part of the aluminium surface and is not an applied coating
- **Powdercoating:** Paint powder applied electrostatically and then cured under heat to allow it to flow and form a surface coating
- **Drilling:** A cutting process that uses a drill bit to cut or enlarge a hole
- **Cut Back:** An off line saw used to recut the extrusion to less than a standard length
- **Slotting & Punching:** Toolage used to "punch" a hole in typically a window or door extrusion
- **Weather Pile Installation:** Mechanically install weather pile to an extrusion.
- **Precision Cutting:** Cut back to less than standard extrusion tolerances.
- **Flashings:** Supplied from sheet and able to be guillotined or bent.
- **Mitre Saw Cut:** Saw used to make accurate cross cuts.

Accreditation and Certification

All extrusions manufactured by Capral Aluminium are produced to the chemical composition, mechanical property and dimensional tolerances in AS/NZS 1866:1997. Capral Aluminium is also accredited to:

- AS/NZS ISO 9001:2008 - Quality Management Systems.
- AS/NZS ISO 14001:2004 - Environmental Management Systems.
- ISO/IEC 17025 - NATA Accredited Mechanical Testing Laboratory.
- All major international marine classification societies including DNV (Det Norske Veritas) and Lloyds Register.
- AS/NZ 4801:2001 OHS Management Systems Accreditation.

Finishing Capabilities

A range of finishing options ensures your extrusions can be easily matched to your project.

Powder coatings, supplied by Interpon and Dulux, are available in an extensive range of colours, gloss levels, textures and metallic shades for complete colour freedom. The architectural range qualifies for several Green Star credits ensuring a sustainable finish for your project, with durability for up to 7, 10, 15 and 30 years on colour and film integrity. For details and to view the full colour range options, visit www.interpon.com.au or www.dulux.com.au

Anodising treatment can provide excellent corrosion resistance and a wide range of colour options up to 25um. Such finishes are widely used for both interior and exterior applications including the architects choice SatinEtch™ technology which produces a matt finish with reduced die lines.

Aluminium Light Fabrication

With its state of the art machining equipment Capral Aluminium has the capability to supply semi-fabricated and finished rolled and extruded products. Components can be supplied "just-in-time" to reduce stock inventory, warehouse space and manufacturing time.

CNC Router

Capral Aluminium has the capability to supply semi-fabricated rolled and extruded products. Capral Aluminium has developed its capability to meet the current and future needs of designers and manufacturers through continual investment in equipment. The newly instated CNC Router Machines for both extruded and flat rolled products, complements core investments of state-of-the-art industrial presses and world-class extrusion/finishing facilities.

Components can be supplied individually or in kit-form as JIT, to reduce stock inventory, warehouse space and manufacturing time. Accurate nesting of components can also reduce waste, with potentially costly errors eliminated in the process.

Machine Details:

- **Bed Size:** (cutting area) -12.5m x 2.5m
- Cutting thicknesses up to 25mm

Drawing Requirements:

- Simple shapes can be accommodated, or for more complex shapes and drawings;
- All parts should be nested into sheet/plate sizes as per Capral's stock availability
- All parts to be closed polylines (no splines or small entities)
- All parts should be exported in .dxf -format
- No entry or exit marks required
- All layers to be associated by colour
- All parts should have 15mm buffers
- Mark lines and text available as pen or scribe.

CNC Machining Centre

Capral Aluminium has invested in state-of-the-art CNC machining technology to further add value to the aluminium supply solutions for customers. Located at our extrusion plants in Campbellfield, Victoria and Bremer Park, Queensland, our CNC machine offers the ability to provide semi-finished aluminium extrusions into your business ready for further assembly. Reduce your inventory, workspace and manufacturing time, whilst reducing waste and eliminating potential costly errors in the process.

CNC machine is suited to rigid profiles that can be clamped without movement. Smaller profiles can be machined depending on their rigidity for clamping. Samples will be required for testing prior to quote.

Drawing Requirements

- 2D .dxf drawing for each profile
- 2D .dxf drawing of each side to be machined.
- Scaled at 1:1
- All lines to be Polylined
- All contours must have a radius or a defined diameter
- All dimensions clearly presentable
- Rectangular and triangular cut-outs must include a radius which will determine the size of the mill tool.



Manufacturing and Value Add Facilities

NSW/ACT

2115 Castlereagh Road,
Penrith NSW 2750
Ph: Sales 02 4720 5410

1/25 Wonderland Drive,
Eastern Creek NSW 2766
Ph: Sales 02 8882 6666

VIC/TAS

151 Barry Road,
Campbellfield VIC 3061
Ph: Sales 03 9590 2301

12B Kitchen Road,
Dandenong VIC 3175
Ph: Sales 03 9212 2617

QLD

71 Ashburn Road,
Bundamba QLD 4304
Ph: Sales 07 3816 7340

17 Kerryl Street,
Kunda Park QLD 4556
Ph: Sales 07 5445 1522

SA/NT

Stockwell & Crennis Mines
Roads, Angaston SA 5353
Ph: Sales 03 9590 2301

70 Grand Junction Road,
Kilburn SA 5084
Ph: Sales 08 8162 7500

WA

45-55 Baile Road,
Canning Vale WA 6155
Ph: Sales 08 9456 6616

6 Wellard Street,
Bibra Lake WA 6163
Ph: Sales 08 6499 1200

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.

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

- 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