



FABRICATION

**VALUE ADD
ACTIVITIES**



Value Add

Capral 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
- 4 AXIS CNC machining product centre up to h=170mm, w=400mm, l=14000mm
- 3 AXIS CNC machining product centre h=180mm, w=200mm, l=7000mm
- CNC extrusion and plate router 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 are produced to the chemical composition, mechanical property and dimensional tolerances in AS/NZS 1866:1997. Capral 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 Powder Coatings, are available in an extensive range of colours, gloss levels, textures and metallic shades for complete colour freedom. Interpon's entire architectural range qualifies for several Green Star credits ensuring a sustainable finish for your project, with durability for up to 7, 10 and 15 years on colour and film integrity. For details and to view the full colour range options, visit www.interpon.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 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 has the facility to supply semi-fabricated rolled and extruded products. Capral has not ignored the on-going demands of both designers and manufacturers, making further investments to meet the future demands of many like businesses. 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.

This CNC technology is fast replacing traditional manufacturing techniques of using templates, band saws, hand routers, drills and hacksaws. This in-house capability further enhances Capral's ability to manage customers' total projects from start to finish and deliver projects on time and on budget.

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 has invested in state-of-the-art CNC machining technology to further add value to the aluminium supply solutions for customers. Located at our industrial extrusion plant in Campbellfield, Victoria, 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 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.

Angaston, South Australia

- Cut back saw
- Slotting
- Punching
- Weather Pile Installation

Bremer Park, Queensland

- Precision cutting for less than standard lengths
- Punching
- Slotting
- Small cut pieces
- Drilling

Campbellfield, Victoria

- 3 and 4 axis CNC machine
- CNC extrusion and plate router
- Precision cutting for less than standard lengths
- Punching
- Knurling
- Drawing (cold working)
- De-burring

Canning Vale, Western Australia

- Guillotine flashings
- Bend flashings
- Mitre saw for straight & angle cuts
- Precision cutting for less than standard lengths
- Punching die
- Flat sheet router
- Drilling

Penrith, New South Wales

- Cut back saw
- Slotting
- Routing
- Small cut pieces
- Drilling

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