



N E S | A R C H I T E C T U R A L

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Plant list

Cladding and metalwork fabrication equipment:

- 8 meter brake press. This is used for folding up hanging rails and dishpans. Supporting brackets can be folded from up to 12mm mild steel. 250 tons pressure.
- 4 meter brake press. As above but smaller.
- 4.1m roller. This can be used to fabricate 360 degree columns as it has a removable end. Also cones can be formed by altering the height of 1 of the 3 rollers. Mirror polished can also be rolled on this machine.
- 3m CNC roller. This allows digital control of the bend radii. Min diameter 300mm
- 1.2m hand roller. This is for diameters of ~100mm
- *NEW* Turret Punch. Trumpf 500R. This has a 1600mm wide throat. Works to extremely high accuracy +/- 0.1mm accuracy. Extensive embossing features. Up to 5mm steel and 8mm aluminium can be punched on this machine.
- Turret Punch Safan Challenger. This has a 1200mm wide throat. Library of 3,000 tools including circular, square, rectangular, obround, cluster punch, dimple, hook, keyhole, triangle, louvre etc.
- 4m x 2m water jet cutter. This can cut components out of 250mm mild steel or 150mm stainless steel. It is accurate to +/- 0.1mm. We frequently use this to make custom brackets for our hanging systems.
- 8 meter guillotine. This is able to cut 5mm stainless steel.
- Fully Automatic Salvagnini P4 Brake Press. This also has a fully automatic panel loading and stacking system. Dual folding, reverse folding and faceted curves are possible. Can handle panels with a diagonal measurement of up to 1500mm.
- Eckold forming machine. This allows sheet, profiles or tubes to be formed in 3 dimensions. Essentially a panel beater.
- Extrusion roller. This is designed for rolling extrusion. There is a tendency for some extrusions to migrate off if they are not symmetrical. We can use polycarbonate to prevent complex extrusions from collapsing.
- Welding bays – MIG, TIG and Capacitor Discharge Stud welding.
- Grinding experts. This is for the dressing back of welds before powder coating or anodising.
- Powder coating line. This is for some of the larger sheets that we do.
- CNC routers. We have 6 No. flatbed CNC routers up to 3 meter x 2m in size. We have single and double

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headed XYZ machines. These can be used for the routing, CNC cutting, v-cut routing or hogging out of ACM, Cementitious Board, Aluminium, MDF, Acrylic or Foamex.

Elumatic machines - designed for extrusion fabrication work:

- 8m CNC 6-headed machine centre. This is for cutting grooves in extrusion, removing unneeded parts and drilling fixing holes accurately. Any horizontal milling.
- Elumatic punch. This is for removing sections of the extrusion.
- Corner Crimping Machine – This crushes the aluminium into the corner cleat. This makes a waterproof, perfect corner joint with no screws or alignment issues.
- Double Mitre Saw - 8 meter, 2 piece cutting. This allows for 2 angles (normally 45 degrees) to be cut simultaneously into a piece of extrusion. This is very helpful as manual measuring and saw blade alignment is labour intensive and frequently inaccurate.
- Schucco punch and crimping machine. This is specifically for Schucco extrusions.

Finishing and graphics equipment:

- Automatic Kedar Sewing Machine. This can stitch rubber, 4 pleat PVC banners or silicone Kadar.
- 2.4m width UV printer. This can print on ACM, Foamex, Correx, PVC, Mesh, Viinyl or Polyester Fabric. This can print roll to roll up to 100m in length. The output is approximately 30 sq. m per hour.
- 1.5m x 3m UV printer. This can print on ACM, Foamex, Correx. This can print roll to roll up to 100m in length. The output is approximately 20 sq. m per hour.
- 1.5m HP Latex printer. This can print on vinyl, backlit film, posters, banners and polyester. This can print roll to roll up to 100m in length. The output is approximately 5 sq. m per hour.
- LED Capability. We have a massive stock of lensed and backlighting LEDs. We also have programming and fabrication capability.
- Semi-automatic screen print machines.
- Screen print exposure unit 3000 x 1500mm.
- Drying machine with a 1 meter rolling bed.
- Vacuum forming machine 800 x 600mm.
- Platen embossing punch. 1200 x 800mm bed.
- Klockner-Moeller Guillotine. 800mm wide for PVC, PETG, plastics, card etc.
- 3 No. Radan Seats
- 4 No. AutoCAD Inventor Seats
- 2 No. Mac design operators (Illustrator, Photoshop, etc)