

**HOFMANN
ENGINEERING**

High Precision Mould Tools

Hofmann Melbourne

Since 1969 Hofmann Engineering has provided specialist engineering services to Australia's industry leaders.

Quality Assurance certification by Lloyds complements our total quality culture.

Our commitment to continuous quality-improvement touches every aspect of our products, services and customer support.

HOFMANN ENGINEERING PTY LTD

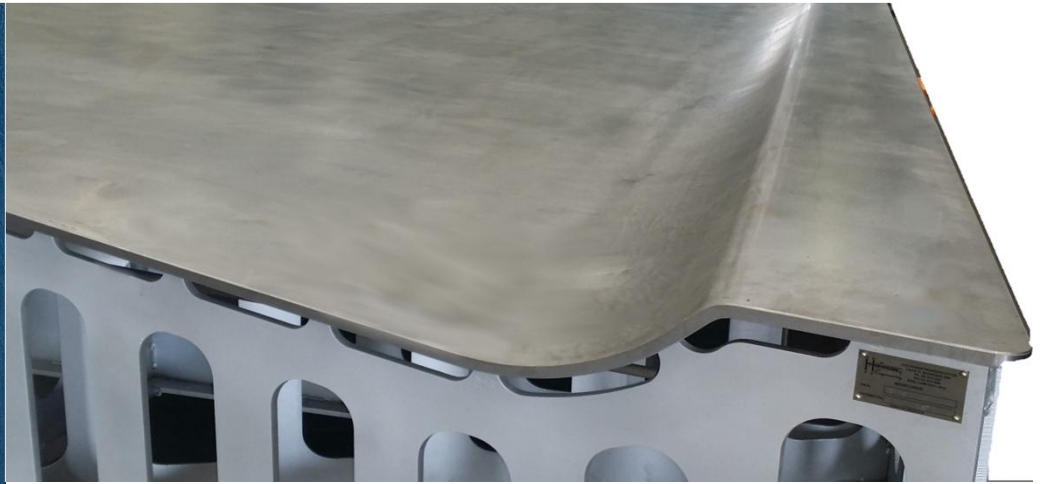
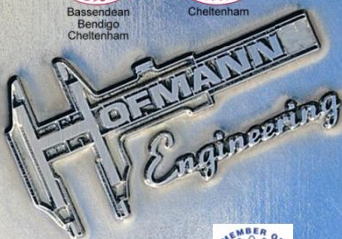
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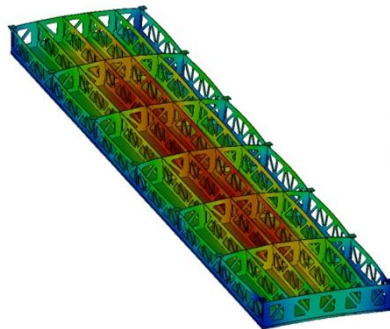
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High Precision Mould Tools

Typical Material Constructions: Mild Steel, Invar, Aluminium,
REN450,
Typical Use: Carbon Fibre and Composite layups



Design

Design group capable of full design including substructure, tool surface and associate tooling.

Design Capability

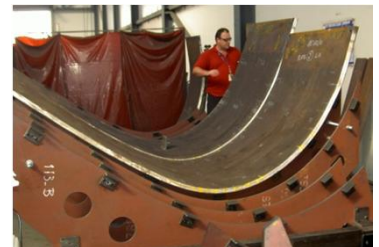
NX 7.5 and 8
Catia V5-6
Solidworks
FEA Analysis

Fabrication

All fabrication is carried out in house, with our large heat treatment facilities and qualified welders, large mould tools requiring multiple billets are welded together prior to machining. This reduces the number of machining setups and provides a contiguous surface for the machining process, improving machining efficiencies and end product quality.

Large Fabrication Facilities Include:

Plate rolling up to 220mm thick
Welding; Sub Arc, MIG and TIG
Stress Relieving up to 15m x 15m



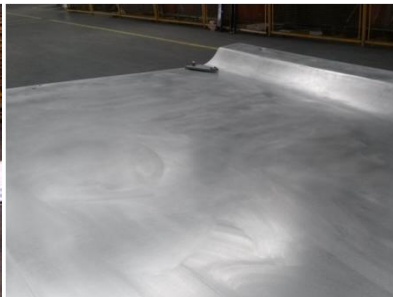


Rough/Semi Finish Machining

Utilising large CNC machines we are able to quickly and accurately rough and semi finish large mould tools. With machining capacity up to 18m x 4m and feed rates up to 14m/min, tools are efficiently processed through the shop to meet customer dead lines.

Large Machining Capacity:

- Pama Speed Ram 1000: 18M x 4M x 1.7M
- Okuma MCV-B: 6M x 2.5M x 1.7M
- Okuma MCV-B: 5M x 2.5M x 1M
- Okuma MCV-BII: 3M x 2M x 0.85M



Finish Machining

Quickly and accurately finish machine large mould tools, with minimal hand polishing using high speed 5 axis machining centre.

Machining Capacity:

- H&H Ultra 5: 8m x 4m x 1.7m, larger tools can be indexed through machine envelope
- Climate controlled to 20°C +/-2°C

Inspection and Buy Off

CMM and Laser Tracker capabilities for inspection and buy off of tool surface . Vacuum Integrity and leak detection inspection also available.

Inspection Capacity

- DEA Delta CMM: 3m x 2m x 1.5m *Climate Controlled*
- Faro Laser Tracker: 50m Radius



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