

CAPABILITY STATEMENT

DESIGN AND DELIVERY OF PURPOSE-BUILT LIGHTWEIGHT FABRICATION PROJECTS

The engineering and trades team at Quarry Mining specialises in delivery of the built solution of customised lightweight fabrication projects.

Our university qualified Engineers project manage our in-house trades' staff to ensure the most efficient delivery and highest quality of your customised, fit for purpose tool.

All finished products are supported by:

- Fully agreed scope of works and fee prior to commencement
- Full engineering design drawings and documentation
- Plant Safety Files
- Introduction to Site Documentation
- Ergonomic Assessment for tool usability where required.

IN-HOUSE CAPABILITIES

Engineering Design

- Full engineering design drawings and detailed reports to client specifications
- Load and Stress Analysis
- Certification – via Third Party
- Full Plant Safety File and Introduction to Site Documentation

Scale of Fabrication

- Overhead 10 Tonne Crane
- Cut up to 300 x 300mm
- Individual Component Size
 - Maximum component size approx. 3000(l) x 2000(w) x 2000(h)mm
 - 16mm wall thickness

Shop Floor

- State of the Art CNC Machining Centre
 - 14 x CNC Multi-tasking centres
 - 4 x automated robotic cells
 - Award winning unmanned technology
- Laser Cutting
 - Mild Steel – up to 40mm
 - Stainless Steel – up to ??mm – Need to check with Baylie
 - Maximum Sheet Size of 3000 x 1500mm

CAPABILITY STATEMENT continued

- Welding
 - SMAW
 - GMAW/MIG
 - FCAW
 - GTAW/TIG
- Radial Arm Drill
 - Radial reach 1150mm
 - Max work height 1150mm
 - Bed Clamping Size 650mm(W) x 1050mm(D) x 550mm(H)
 - Max drill diameter 100mm
- Ring Rolling
 - Max. 3" Diameter
 - Max. 3.2mm Thickness
- Folding
 - 80T NC Controlled Pressbrake
 - 12mm THK Mild Steel x 2400mm W
- Plate Rolling
 - 3mm x 1200mm mild steel
- Pressing
 - 100T Pressing Capacity
- Heat Treatment
 - Neutral Hardening via Sealed Quench Carburizing Furnace
 - Max Capacity of 500x500x1000mm
 - Max Weight of 500kg
 - Tempering and Stress Reliving
 - Up to 3000mm length
 - Case Hardening available on request

Post Fabrication

- Tumble Shot Blasting
 - 800x550mx550m
- Paint Coatings

Key Personnel

The Quarry Mining Engineering Team and Support Staff are made up of:

- University qualified Mechanical / Mechatronics Engineers
- Metallurgist
- Boilermakers
- Trades Assistants