

# Baker & Provan Engineering Capability

Incorporating  NuBuilt Engineering

## ■ Heavy Engineering & Reclamation Specialists

- Fabrication – small to heavy, carbon, SS, alloys
- Machining – small to heavy, CNC, modern machines
- Castings Repair – with or without welding
- Refurbishment of worn components, rotating equipment
- Reclamation specialists
- Cold repair specialists
- Service & Assembly
- Deep hole drilling
- Defence work and
- Mechanical design



## ■ Machining Capability 11 CNC machines

### CNC Horizontal borers

- Floor Borer - 12m x 4m travel, 100 tonne on fixed bed, 30 tonne on rotary table, 6 axis
- 4.5m x 2.4m travel, 12 tonne table, 5 axis
- 3.5m x 2m travel, 10 tonne table, 4 axis
- 1.2m x 1.1m travel, 4 tonne table, 4 axis



### 12 metre Lathe

- 12m between centres,
- 1.4m maximum swing
- 1.1m over saddle

### CNC Lathes

- 3.1m between centres, max swing 1050mm
- 0.9m between centres, over saddle 400mm

### Conventional Lathes

- 2 off, 3.0m between centres, max. swing 900mm

### CNC Bed Milling Machines

- 10m length, 1.6m wide horizontal & vertical milling head, 0.9m under head, 1.05m milling height
- 4.0m length, 1.0m wide, horizontal & vertical milling head, 1.1m under head, 1.5m milling height

### Vertical Borer

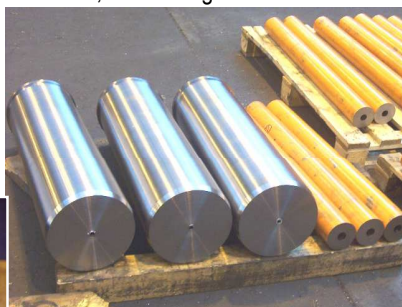
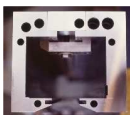
- 2 m diameter, 1.4m height

### CNC Vertical Machining Centres

- 4 m length, 2m width, 1.0 m height, adaptor head
- 1 m length, 0.4m width, 0.65m height – 2 off

## ■ Deep Hole Drilling

- Up to 7 metre deep hole
- hole dia. from 4 – 160 mm
- Off centre holes



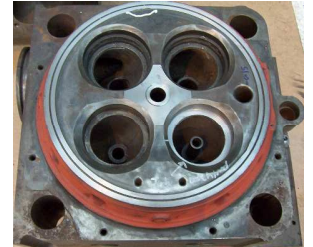
## ■ Fabrication Capability

Baker & Provan specialises in the fabrication of process equipment, including:

- Mig, Tig and sub arc welding
- Large and heavy carbon steel fabrications
- Stainless steel fabrications
- Bilalloy and other exotic steels
- Welding to AS 1554, AWS D1-1, DNV Classification, ASME IX (used for nuclear applications)
- New technology/capability to eliminate welding distortion
- Welding to military specifications

## ■ Reclamation Specialists

- Repair of worn components with or without welding
- High integrity cold repair procedures eliminating distortion in machined parts.
- Cast iron casting specialists - cold repairs, no welding
- Metal spray, chrome plating, nickel plating, lock-in inserts
- Specialist in welding reclamation & low temperature welding



## ■ Workshop Cranes

Baker & Provan has 8 cranes within 6,800 m2 of workshop floor. The largest crane is 70 tonne with an under hook clearance of 10 metres.

## ■ Personnel

Baker & Provan has 65 full-time personnel comprising of machinists, fitters and boilermakers/welders.



# BAKER & PROVAN

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