

**Delivering
Optimal
Engineering
Solutions**

GRADIENT
SERVICES

**Forged
Components
Australia
& the Pacific**

Forge Ahead with Gradient Services

www.gradient.net.au





Physical Capacities

- Shafts up to 24m long
- Shafts up to Ø3.5m
- Rings up to Ø16m
- Parts from <1 kilo up to 100 tonnes

Forged Shafts, Rings, Flanges and Hydraulic Components

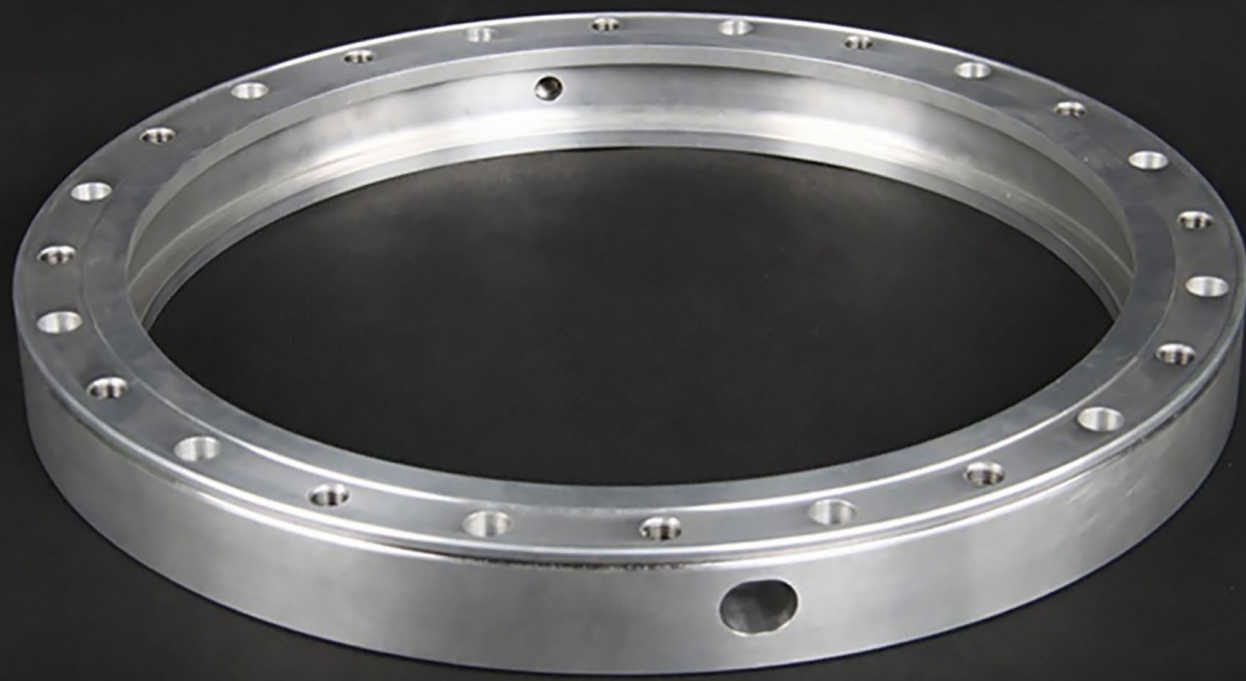


Common Standards

- AISI, ASTM
- GB/T
- AS, BS
- DIN, SAE

Common Materials

- 4340, 4140, 4130, 4150
- 42CrMo, 50CrMo
- 40CrNiMo
- 20MnV6
- ZG45
- 1045, 1055
- BMS (Cold drawn)
- + many more



Seamless Rolled Rings and Hollow Bars

Quality Assurance

- Mill certificates
- Ultrasonic Testing (UT)
- OES Chemical Analysis
- Dimensional (CMM)
- Third Party Inspection (NATA or Equivalent, BV etc.)

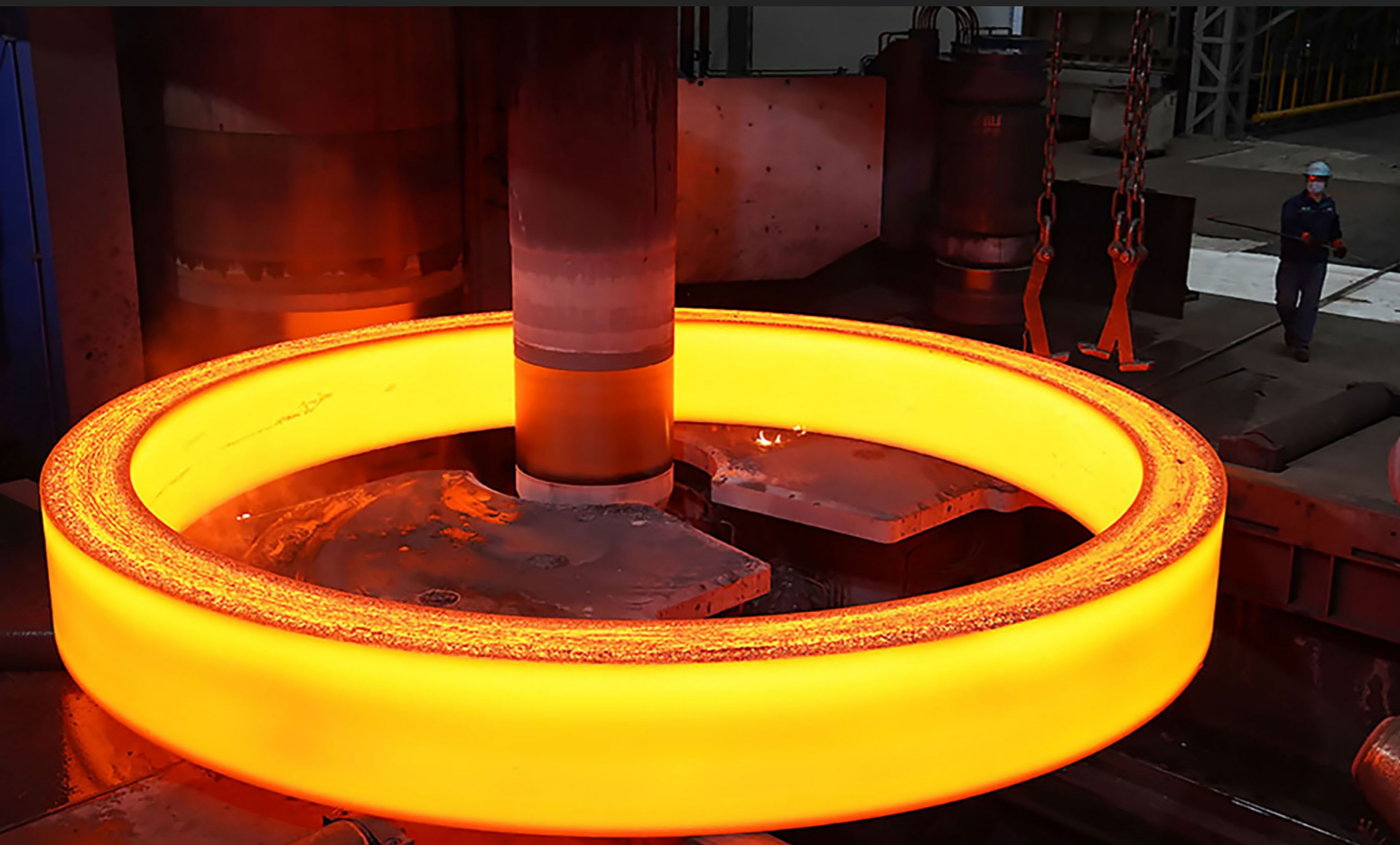


Engineering Services

- Replace Cast with Forged
- Eliminate Pattern Costs
- Better Mechanical Properties
- Fully Machined
- Proof Machined
- Reverse Engineering
- Design and Drafting
- Material Selection and Optimisation



Hot Rolled and Cold Drawn Components



GRADIENT

Why Gradient

Design and Innovation

- Local Engineers & Metallurgists
- Design & Material Improvement
- Reverse Engineering

Processes

- Casting
- Forging
- Machining
- Fabrication
- Finishing Services

Supply Chain

- Key Partner:
- Y&J Industries (Chengdu)
- 200+ Suppliers
- Complete Logistics
- Weekly Updates

Quality

- Dedicated QC team
- Local & International staff
- Comprehensive NDT
- Reporting & Traceability



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