

ENGINE RECONDITIONING CAPABILITY

Large Cylinder Heads - Diesel, Marine, Gas Heads. Cylinder Blocks to 6000 mm long

Crankshafts	Max. Length 4500 mm	Max. Journal Diameter 275 mm	Max. Weight 3000 kg	Max. Stroke 480 mm
Honing	600mm Max. Diameter x 1000mm Max Length			
Conrods	Max. Tunnel Size 400 mm	Max. Length N / A	Max. Weight 500 kg	
Engine Dynamic Balancing	Max. Weight 1500kg	Max. Length up to 7m		
Engine Fan Repairs	Max. Diameter 2000 mm and Dynamic Balancing			
Engine Assembly	600 kw			
Engine Dyno Testing	600 kw (ECU Capable)			
Gas Analysis Testing	CO /CO2 /NOX			
Drive Line Shaft Repairs and Dynamic Balancing Cars / Trucks /Mine				
Industrial Dynamic Balancing	Armatures 500 kg	Impellers 500 kg	Fans/Blowers 500 kg	
Flywheel Grinding	Max. Diameter 700 mm			
Caustic Cleaning Tank	Max. Length 3700 mm	Max. Width 1420 mm	Max. Depth 1100 mm	

MACHINE CAPACITY

Vertical Borer	Table Diameter 2000 mm	Max. Swing on Table 2200 mm	Max. Height Under Bridge 1600 mm	Max. Bar Travel 1000 mm	
Rottler Cylinder Block Borers	1 x F109	2 x F99	1 x F88	Block capacity up to 6000mm	
Lathe	Swing Over Bed 1000 mm	Swing Over Saddle 650 mm	Length Between Centres 5000 mm		
Milling	Max. Travel Length 5000 mm	Max. Travel Height 2000 mm	Max. Travel Width 900 mm		
CNC Lathe	Std Machining Diameter 230 mm	Max. Swing Over Bed 520 mm	Max. Swing Over Cross Slide 350 mm	Max. Length Between Centres 1050 mm	
Drilling	Radial Arm 2400 mm	Height 2000 mm	5 Morse Taper		
Internal Planetary Grinder	Max. Wheel Diameter 400 mm	Max. Length of Bore 700 mm	Table Clamping Size 970 x 770 mm	Max. Weight on Table 1000 kg	
Surface Grinding	Max. Length 1000 mm	Max. Width 300 mm	Max. Height 600 mm		
Cylindrical Grinding	Max. Swing Over Bed 1300 mm	Max. Grinding Diameter 275 mm	Max. Length Between Centres 4500 mm	Max. Weight 3000 kg	Max. Shoulder Diameter 400mm
Face Cylindrical Grinding	Max. Diameter 850 mm	Max. Face Width 170 mm			
Metal Spraying	Powder Spray Metco 5P, 6P.	Fusion Spray 20 RC to 62 RC.	Arc Metal Spray Metco Arc Spray		
Welding	Aluminium	Stainless Steel	Cast Iron	Steel	Bronze

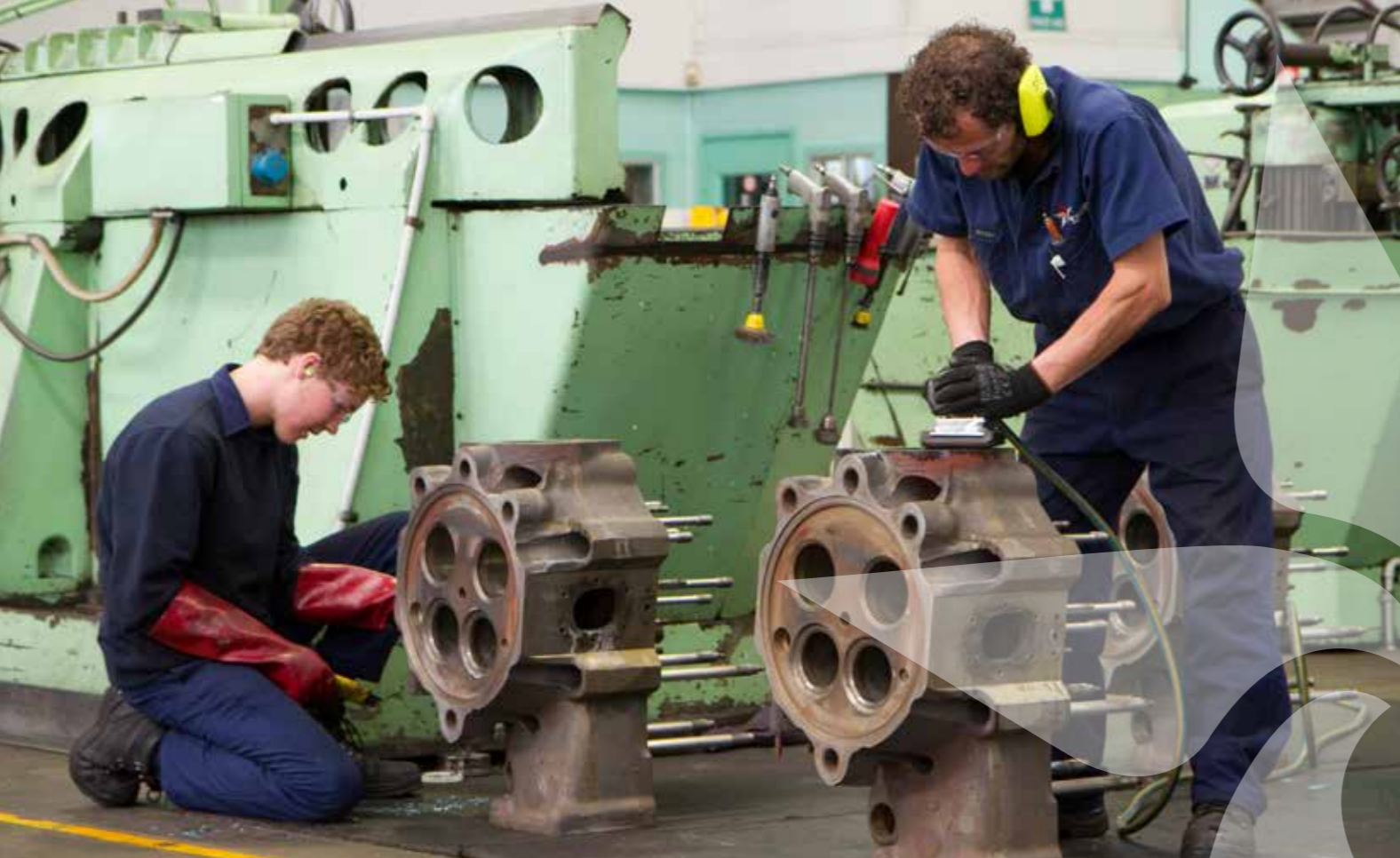


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**ENGINE
RECONDITIONING CAPACITY**



CRANKSHAFTS

Survey: Chemical Cleaning; Fluorescent Magnetic Particle Crack Detection; Check for Straightness; Check Sizing; Check Surface Finish, Flatness and Hardness; Check Threads, Nose, Keyways, Thrusts, Seal Areas.

Work Scope: Removal Oil Gallery Plugs; Crankshaft Straightening; Chrome Reclamation of Journals; Seal Area Reclamation; Grind Journals; Micro Polish Journals; Balance Crankshaft; Shot Peening.

CONRODS

Survey: Fluorescent Magnetic Particle Crack Detection; Check for Twist & Bend; Check Alignment & Length; Check Big End & Little End size; Inspection of Serrated Joints for Gauling.

Work Scope: Closing Big End, including Reclamation of Serrated Joint Rods; Resize Big End; Rebush and Resize Little End; Proof Test.

ADDITIONAL SERVICES

Engine Assembly; Dynamometer Engine Testing; Repairs to Timing Covers, Sumps, Adaptor, Elbows, Water and Oil Pumps, Gas Engines; Unit Overhauls; Engineering Repairs; Large Wheel Hub/Spindle Repairs; Large Hemisphere Repairs; Large Planetary Repairs; Large Trunion Repairs; Large Differential Repairs; Special Sleeve Manufacturing; Lower & Upper Liner Sleeve Manufacturing; Drive Line Manufacturing; Engine Fan Repairs and Reblading.



ENGINE RECONDITIONING CAPABILITY

CYLINDER HEADS

- Reconditioning
- Chemical Cleaning
- Fluorescent Magnetic Particle Crack Detection
- Dye Penetrant Crack Detection
- Pressure Testing
- Valve Guide Replacement
- Valve Seat Replacement/Machining
- Valve Facing
- Injector Tube Replacement
- Injector Seat Machining
- Pre-combustion Chamber Replacement and Thread Repairing
- Head Surface Machining
- Cylinder Head Welding
- Manifold Repairs
- Crack Repairs
- Rescoring
- Remove Broken Studs/Bolts/Taps
- Fit Helicoils/Keyserts/Loc-inserts
- Oil Cooler Cleaning/Flushing/Pressure Testing

CYLINDER BLOCKS

- Chemical Cleaning
- Full survey and Reporting
- Fluorescent Magnetic Particle Crack Detection
- Pressure Testing
- Laser Alignment Inspection
- Reboring, Honing, Resleeving
- Tunnels – Boring, Saddle Repairs, Inserts & Thermal Arc Spraying
- Thrust Face Repairs
- Top Deck Machining
 - Fitting of Water Passage Inserts
 - Upper Liner Fit & Counterbore Inserts
- Lower Liner Fit Resleeving
- Cam Tunnel Resleeving
- Cam Follower/Lifter Bore Resleeving
- All Cylinder Block Damage Repairs
- Head Bolt/Stud – Thread Resleeving
- Water Passage Hole Repairs
- Dowel Hole Repairs
- Metal Spray and Machine Top Decks
- Repairs to Idle Gear Locations

