



HARBRO ENGINEERING



CAPABILITY STATEMENT

INTRODUCTION

Harbro Engineering is pleased to present our exciting new state-of-the-art Additive manufacturing solutions to the needs of the Australian market. We now offer cutting edge Industrial quality 3D printing solutions along with traditional precision CNC and Manual machining and manufacturing services.

Harbro Engineering has 35 years of engineering expertise and our experienced team prides itself in meeting the specific needs of our clients. We now extend our services to rapid prototyping and production of affordable, precision components from small superseded automotive parts to the latest aerospace applications using world leading fibre reinforced plastics and industrial quality metals. Our dedication to providing quality, honest and reliable service, with innovative solutions has enabled us to keep ahead in our industry and we are keen to work alongside any business to help bring their production concepts to reality.

MACHINING CAPABILITIES:

CNC Machining:

- Haas CNC 4 axis Live tool lathes
 - 254mm chuck, 533mm swing, 826mm length.
- VF4 Haas Vertical mills (3+1 Axis):
 - X=1270, Y=508mm, Z=635mm.
- 5 axis Omax Maxiém 1530 CNC waterjet cutter.
 - X=3000mm, Y=1500mm, Z=200mm
 - 60 ° from vertical capability.
- Oxy Acetylene Profile cutter:
 - Z=2400mm, Y=1800mm, Z=150mm.
- 9 Axis Durma AD-S 30135 Press brake
 - X=3050mm, Y=450mm, 135 Ton press.
- CNC Mandrel bender:
 - 80mm Ø tube, 60mm sq tube, 35mm solid bar

Manual Machining:

- 5X lathes Sunmaster up to Colchester Magnum.
- 670mm swing, 3000mm between centres.
- Hafco BM 90HV & Manford 5KV Turret Mills.
 - X=1120mm, Y=520mm, Z=440mm
- Butler 8" slotter.
- MIG, TIG, MMA welding and silver soldering.
- Hydraulic pressure testing up to 6000psi.
- 150ton Hydraulic press

KEY DIFFERENTIATORS

- Rapid prototyping
- 3D scanning and reverse engineering
- One-stop-shop manufacturing
- Expert technical advice and support

KEY INDUSTRIES:

- Mining
- Agriculture
- Transportation
- Defence
- Food
- Mechanical
- Marine
- Aerospace

CLIENTS

Harbro Engineering has successfully provided quality components to our local, national, and international clients since 1988, to meet project deadlines with an exemplary compliance record.

Our clients include:

- Caterpillar Machinery
- Elphinstone
- Jayben
- SED Manufacturing Services
- Huon Aquaculture
- Doric Engineering

3D PRINTING CAPABILITIES:

3D Printing:

- Composite plastic print volume up to 350 x 320 x 325 mm.

3D PRINTING MATERIALS

Thermoplastics:

- Nylon with variants that include Electrostatic Dissipative and Fire-Resistant.
- PLA for rapid prototyping
- TPU 85A, 90A, and 95A for seals and gaskets
- ABS, ASA, PETG, PET, PPA-CF.
- Carbon fibre composite variants also available.

Reinforcement:

- Carbon Fibre
- Kevlar
- Fibreglass
- High Temp Fibreglass

COMPANY DETAILS

Harbro Engineering Pty Ltd.

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