



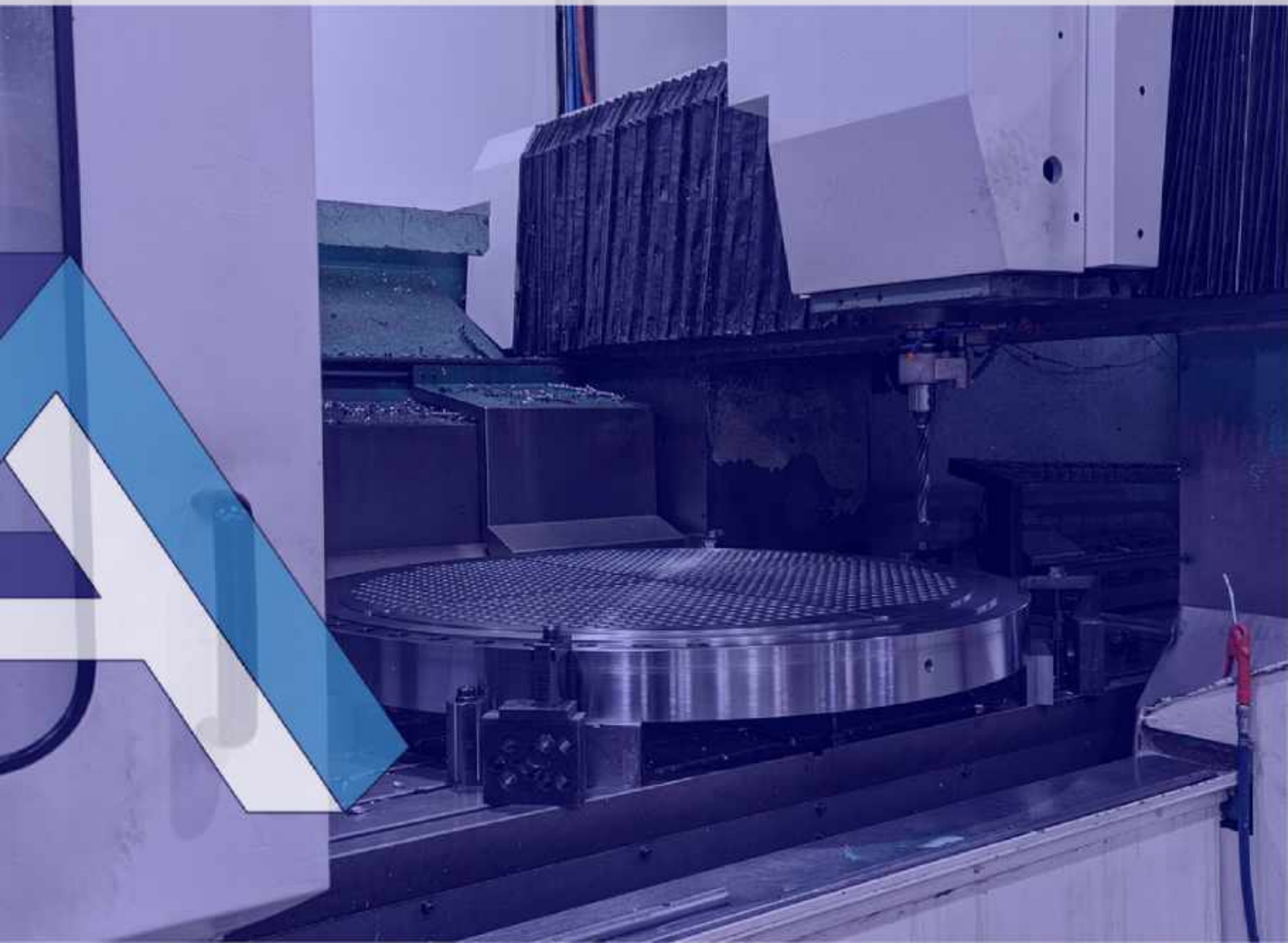
*Amiga*TM
ENGINEERING EST. 1988

**ENGINEERING SOLUTIONS
TO EMPOWER YOUR IDEAS**

MACHINES, CAPACITY + QUALITY QUICK GUIDE

AMIGAENG.COM.AU

AS9100D:2016 ISO9001:2015



MACHINES & CAPACITY

ADDITIVE MANUFACTURING

METAL 3D PRINTING

2 x ProX 320 DMP printers (3D Systems): Printing bed size of 275mm x 275mm x 420mm high

1 x DMP Factory 350 printer (3D Systems): Printing bed size of 275mm x 275mm x 420mm high

1 x SLM280HL Printer (SLM Solutions): Printing bed size 280mm x 280mm x 350mm high

Material capability (not limited to) Titanium, Inconel, Stainless Steel, Aluminium, 17-4PH, Tungsten

POLYMER 3D PRINTING

1 x SLS SPro60 Nylon, PP and TPU materials, Build Envelope X:380mm Y:330mm Z:440mm

3 x Figure 4 Modular printers: Printing bed size of 124.8mm x 70.2mm x 346mm high

1 x Figure 4 Standalone printer: Printing bed size of 125mm x 70mm x 196mm high

1 x FabPro1000 Printer

1 x Mimaki - Full colour 3D printing: Printing bed size of 500mm x 500mm x 300mm high

CNC MILLING

Mazak Integrex i200S:

5 axis simultaneous machining centre

CNC Twin Pallet changer

CNC ZAYER Horizontal Milling 4300 x 2000 x 1500 Full 3D capability

CNC Milling 750 x 360 x 300. Full 3D capability

CNC Milling 1250 x 360 x 660. Full 3D capability

CNC Milling 1530 x 800 x 660. Full 3D capability

CNC Milling 3200 x 1480 x 660 Full 3D capability

LATHES

Multiple CNC and manual machines

CNC Turning up to 695mm DIA x 1500mm long

Manual turning up to 300mm DIA x 3000mm long

VERTICAL BORING

Vertical Boring up to 2800mm DIA x 1800mm high (up to 10 Tonne capacity)

Vertical Boring up to 1900 mm DIA x 860mm high (up to 3 Tonne capacity)

Vertical Boring up to 1200 mm DIA x 860mm high (up to 3 Tonne capacity)

WELDING & FABRICATION

Break Press - up to 2.3 Metres

Guillotine - 2300mm. Can take up to 3mm thick for mild steel, or 6mm thick in Aluminium.

Rolling Machine - can take up to 4mm thick and associates 25mm thick

OTHER SERVICES

3D Scanning to 6um

Profile cutting

Plasma cutting of Stainless and alloy steel

Laser Cutting

Sandblasting booth 36cu mt capacity.

Various other drilling and General Engineering machinery

QUALITY & EXPERIENCE

QUALITY ASSURANCE & GENERAL INSPECTION OF PRODUCT

Accredited to AS9100D for Aerospace, Space and Defence, and all other manufacturing to ISO 9001:2015

All items manufactured by Amiga Engineering™ are dispatched complete with EN10204 3.1 Material certificates. NATA approved NDT testing can be arranged on request. Third party witnessing for more stringent traceability & individual customer specifications is also available.

A quality assurance audit is available on request.



INSPECTION

Company products are thoroughly tested and inspected to rigorous standards and client requirements such as magnetic particle inspection, ultrasonic inspection, G48 corrosion and pitting test, and more (available on request) All testing and heat treatment records are stored for traceability requirements at any time. All NDT testing is carried out by NATA Qualified and endorsed personnel.



TESTING & INSPECTION

Tests can be carried out for you – must be advised at time of quoting and ordering if required)

Non-destructive testing NDT (UT, DPI, and MPI)
Qualified Personnel NATA endorsed

Ultrasonic Inspection

Magnetic Particle Inspection

G48 Corrosion and Pitting test

Sigma Phase testing

Visual & dimensional testing is carried out on forgings before, during and after manufacture; to customer needs

Charpy Impact and **Hardness Testing** of materials is carried out on all materials prior to machining where required.

Tensile and Chemical Analysis

Heat Treatment Records

Ferrite Count

Micro graphical Analysis,

Ferrite Scope and other tests available if required

Full MDR can be supplied for project work – with complete traceability

MATERIAL RANGE

FORGINGS

ASTM A105N, A350, LF1, 2 & 3

ASTM A182 F5, F11, F22

ASTM A182 F304, 304L, 315, 315L, 321, 310

ASTM A694 / MSS SP44 F35, F42, F52, F60, F65, F70

Duplex Stainless Steel A182-F51 UNS 31803, SAF2205,

Super Duplex 2507 & ZERON 100

Monel 400, Incolloy 800, Hesalloy, etc.

PLATE

AS 3678 250, AS 1548 7 460R, 490

460NL40, 460NL50 (equivalent to A516-60, 70 etc)

ASTM A240/480 304, 304L, 315, 315L, 316, 316L, SAF 2205, SAF 2507, UNS S31803, 3CR12, 253MA, Aluminium and more

STANDARDS USED

ASA ANSI B16.5, B15.47A, B16.47B,

B16.31, AS2129, AS4087,

MSS SP44, MSS SP79, NACE MR0175,

DIN, API605, API6A, BS10,

API17D, API16D, BS 3293, BS 4504,

JIS, AWWA, AS4087

B16.25 B16.20 and more