

PRECISION IN-SITU MACHINING

**EXTENSIVE HEAVY MACHINE AND WORKSHOP FACILITIES WITH BALANCING
CAPABILITY AND CALIBRATION ROOM**

M&A now possesses the most extensive heavy workshop facilities in West Wales, with the ability to take workpieces up to 12 tonnes in weight. Our workshop is the most modern of its kind in the area, with a full range of machines suited to machining, maintenance, repair and build work for the petrochemical, energy, marine and metals industries.

In addition to servicing our own extensive customer requirement, we are pleased to offer our subcontract engineering facilities to other engineering firms needing additional capacity or specialist skills.



"Probably the most extensive independent heavy and specialist machine shop facility in Wales"

Turning

Ajax Supermaster, equipped with DRO:
Distance between centres: 3000mm
Swing over bed: 800mm
Swing over cross slide: 540mm
Swing in gap: 1050mm
Spindle bore: Ø103mm

Okuma:
Distance between centres: 950mm
Swing over bed: 230mm
Swing over cross slide: 130mm
Spindle bore: Ø50mm

Colchester Master, equipped with DRO:
Distance between centres: 1000mm
Swing over bed: 300mm
Swing over cross slide: 160mm
Spindle bore: Ø45mm

Colchester Mascot, equipped with DRO:
Distance between centres: 2000mm
Swing over bed: 400mm
Swing over cross slide: 300mm
Swing in gap: 850mm
Spindle bore: Ø75mm

Boring

Webster Bennett 60" Vertical Borer, equipped with DRO:
Diameter of chuck: Ø1524mm
Maximum swing: Ø1650mm
Maximum height under cross slide: 610mm
Maximum height under turret: 889mm
Vertical travel of turret slide: 660mm

Kearns Richards SJ100 Horizontal Borer, equipped with DRO:
Rotary Table: 1500mm x 1500mm
Facing head diameter: Ø680mm
Facing head capacity: Ø1040mm
Spindle diameter: Ø101.6mm (50 Int)
Vertical traverse: 1200mm
Longitudinal traverse: 1200mm
Cross traverse: 1500mm

Grinding

Churchill 'CW' Plain Cylindrical Grinder:
Distance between centres: 1830mm
Maximum swing over table: Ø610mm
Maximum taper ground (included angle): 7°

Jotes Surface Grinder, equipped with DRO:
Magnetic table: 800mm x 400mm
Height under wheel: 380mm

Jones & Shipman Universal Grinder:
Distance between centres: 685mm
Maximum swing over table: Ø254mm
Internal Grinding min: Ø22mm

Jones & Shipman Surface Grinder, equipped with DRO:
Magnetic table: 457mm x 152mm
Height under wheel: 180mm



Milling

XYZ KRV 3000 CNC Turret Miller, equipped with DRO:
Table: 1300mm x 300mm
Cross traverse: 410mm
Longitudinal traverse: 630mm
Vertical traverse: 380mm

Boko Milling Centre, equipped with DRO:
Rotary table: 1300 x 800mm
Cross traverse: 800mm
Longitudinal traverse: 1500mm
Maximum height under ram: 1000mm
Maximum traverse of ram: 300mm

Bridgeport Turret Miller, equipped with DRO:
Table: 900mm x 200mm
Cross traverse: 250mm
Longitudinal traverse: 625mm
Vertical traverse: 400mm

Heckert Vertical Miller, equipped with DRO:
Table: 1800 x 400mm
Cross traverse: 250mm
Longitudinal traverse: 625mm
Vertical traverse: 460mm

Drilling

Kitchen & Walker Radial Arm Drill
Swing: 1372mm
Taper: No. 4 morse

Meddings Pillar drill
Taper: No. 3 morse

Slotting

Richmond Slotter
Maximum stroke: 100mm
Table: 400mm 250mm, Travel: 100mm

Sawing

Utting UB355 Horizontal Band Saw:
Maximum diameter: Ø355mm

Dynamic Balancing

CEMB Hofmann Model Z750
Solid bearing system
Software: Windows based CEMB B9 computer system, with printer
Bed length: 2000mm
Journal diameter range: 10mm to 200mm
Maximum rotor diameter over bed: Ø1580mm
Maximum distance between centreline of bearings: 1650mm
Minimum distance between centreline of bearings: 150mm
Maximum diameter driven by belt: Ø500mm
Minimum diameter driven by belt: Ø50mm
Maximum rotor weight: 1100kg



Fitting Bay

Six permanent work bench stations, with the provision for a further six stations during shutdown periods.
10 tonne full-length gantry crane.

Calibration Room

Full, temperature-controlled calibration facility, complete with dimensional and profile measuring instruments and equipment.

Toolmaking

Ful toolmaking facility

Design

Comprehensive CAD design and drawing to facilitate own-build tools and customer requirements.



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machining without boundaries

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