EMICOL
Enriching commercial capabilities

AVTECH ENGINEERING

Satisfying the customer's requirements by producing quality parts

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CAPABILITY STATEMENT

Avtech has been in the precision manufacturing business since 1979, specialising in machining precision components for a diverse range of industries.

We continually invest in the latest in CNC machining technology, including a large selection of high-tech machine tools for your precision component manufacturing.

The majority of our lathes have live milling spindles on the turret, enabling them to complete a component in one operation, preventing multiple set-ups and at the same time, providing a cost saving benefit for our custom-ers.

Many of our CNC lathes are equipped with automatic bar feeders, allowing us to machine larger batch quantities unattended, producing high volume machining with low labour inputs. Our machining centres have a rotary 4th axis, with one having an extra tilting 5th axis for more complex machining.

Our machining capability is supported by the programming department that utilises the latest 3D CAD/ CAM and 3D modelling software.

We can assist with design or provide improvement for your product with Solidworks modelling. We also offer complete turn-key solutions to take your ideas from concept to the manufactured component.

Our quality is backed up when required using a CMM measurement.

Our customers' needs come first and we can manufacture their components in batch quantities of one or two, to batches of larger quantities.

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PRODUCTS	CAPABILITY STATEMENT
The Oil & Gas Industry Various components for exploration, production and recovery tools, requiring that specific materials be used when manufacturing their components.	**Hydraulics Industry** Cylinders, rams, manifolds and valve blocks
Mechatronics/Electronics Industry Cases, standoffs, brackets, chassis and electro-mechanical components.	**Mining Industry** Tools to support exploration & drilling areas from 'down the hole' equipment to surveying tools.
Materials We have extensive experience in machining high strength alloy steels, aluminium, brass/bronze, cast iron, inconel, nickel, various plastics, stainless steels, exotic materials, steel & titanium for a variety of local & overseas industries, who rely on consistent, high quality precision components manufactured on time, every time.	
We manufacture components for local and international manufacturers of CNC machinery.	

CAPABILITIES AND SERVICES
7 x CNC turning CCentres ~ 5 with milling
CNC mill/turn ~ 2~65 dia. bar feed
CNC mill/turn ~ 2 x 350mm dia. x 950mm long chucking
3 x CNC machining centres
CNC milling (max XYZ) ~ 4 & 5 axis ~ 1,050 x 560 x 810
Okuma LT10 MYB ~ 7 axis twin chuck, twin turret both with live tooling, and one with Y axis - 50mm barfeed
Okuma LU15 MY ~ 5 axis single chuck, twin turret, one with live tooling, and Y axis-65mm barfeed
Mazak Integrex 200Y ~ 5 axis mill/turn centre
Mazak SQT/M ~ 250M single chuck, single turret with live tooling-65mm barfeed
Hardinge T42 ~ 2 axis lathe 50mm bar feed
Hardinge GT ~ 2 axis gang style tooling-27mm bar feed
Hardinge GT ~ 3 axis gang style tooling-27mm bar feed
Okuma MB56 ~ 4 Aais ~ Max spindle speed 15,000RPM, through tool coolant + 1 metre x travel
Okuma MX45 ~ 5 axis ~ max spindle speed 8,000RPM
Mori Seiki MV40 ~ 3 axis
Brown & Sharp ~ CMM x x
Camworks