

Capability

Rotec Engineering Ltd was formed in 1996 and over the years has grown considerably . A total of £8 million investment has been made in the latest machines, technologies and workforce .

Due to the expansion and success of Rotec we moved to a state of the art purpose built Advanced Manufacturing Centre in 2017.

Rotec has the capability to machine in a variety of exotic and conventional materials. Supplying various industries including Oil and Gas, Aerospace and Automotive including Formula 1.

Rotec has 12 fully automated sliding head machines that operate 24/7 and we are continually investing in the latest Multi-Axis technology. All our high quality parts are manufactured to the customer's specifications. CAD Design, CAD/Cam and Rapid Proto-typing are just some of the additional services we provide. Along with our extensive sliding head section, our plant includes CNC turning and milling. With up to 5 axis milling, we aim to cater for all your manufacturing requirements.



Material

JUST SOME OF THE WIDE RANGE OF MATERIALS WE WORK WITH:

- Aluminium
- Steel
- Aluminium Bronze
- Titanium
- Copper
- Brass
- Stainless Steel
- Standard Duplex Stainless Steel
- Super Duplex Stainless Steel
- Martensitic Stainless Steel
- Non Ferrous
- Carbon Alloy Duplex & Superduplex
- Plastics Heat Resistant
- Inconel
- Monel

PLATING

Rotec has a network of excellent subcontractors enabling us to offer a full range of:-

- Pre-Treatment Processes
- Anodising
- Zinc Processing
- Plating
- Hardening



Capacity - Slidinghead Machines

x6



STAR SV32

Six machines in total

11 axis machine, 32 mm maximum diameter, Long parts ejector, 10 station turret, Live tooling, Magazine bar feed, 6000 rpm

x2



STAR SR20 111

Two machines in total

20 mm maximum diameter, 16 tools, 4 spindles, 10,000 rpm spindle speed



CITIZEN C16

9 axis machine, 18 mm maximum diameter, Twin spindles. 16 tools, Live



CITIZEN B20

6 axis machine, 20 mm maximum diameter, Sub-spindle, Variable speed, Live tooling. Can run 24 hrs unmanned



STAR SA12

7 axis machine, 16 mm maximum diameter, Sub-spindle, Live tooling, Magazine bar feed. Can run 24 hrs unmanned



STAR SR-20J TYPE C

C-axis control machine, 20mm maximum diameter, 4- Spindle back working unit, 3-10 tooling, Magazine bar feed.

New



STAR SR-20JII TYPE B

8 axis machine, 20mm maximum diameter, main spindle 10,000 rpm,

Combining a 6-tool turning platen with a 5-spindle cross drilling unit and an 8-spindle back working tool post, the SR-20JII boasts impressive tooling capacity allowing for a huge range of machining options.

Capacity -Fixed-Head Machines



DOOSAN MX 2000

This machine has a maximum bar diameter of 400mm, a 10KW milling spindle, 42 position tool changer and runs at 10,000 rpm with bar feed.



NAKAMURA NTY3

This machine is a twin spindle, 3 turret, 36 driven tool, 72 turning tool CNC lathe complete with fully auto bar feed capable of feeding up to 42mm diameter bar



DOOSAN 2000 SY

Our 2000 SY has an 8" chuck, twin spindle, 12 turret, 65mm bar feed, C2 axis technology and runs at 5000 rpm.



YANG ML15A

This machine incorporates twin axis technology, 210 mm max machining diameter, 12 station turret, and is known for its high machining accuracy



BIGLIA 5014S

This 7 axis machine has a 210 mm maximum bar diameter and a 420 mm maximum bar length. There is a magazine bar loader to facilitate easy loading of bars and the machine also incorporates a 12 station turret, live tooling twin 7000 RPM spindles and can run 24 hours un-manned.



NAKAMURA NTRX 300

B-axis ATC Twin Spindle, Fusion between a 5-axis machining center and a lathe. Distance between centers max. 1350, 40 tools ATC, 250mm Y-axis stroke, 8000 Milling speed, 18.5kW Built-in tool spindle motor, Up to 30kW cutting power for turning shaft-work with synchronized spindles. Left Right spindle motor 15/11 KW, 230degree B-axis



NAKAMURA AS200 AY - FITTED WITH A HALTER ASSIST LOAD ROBOT

Single Turret Milling Turning Centre, Linear Guideways on all axes, +/- 41mm Y-axis, 15/11kW spindle motor, Spindle speed 4500min-1, Driven-tool speed 6000min-1, Faster rapid traverse 24m/min for the X-axis, and 36m/min for the Z-axis. Bar capacity 65mm standard. 8" Chuck, 5 station turret, Gearless Direct Belt Driven tools



MORI SEIKI NLX 2500 SY

The NLX 2500 is a high-rigidity, high-precision CNC lathe. Milling:- Turret equipped with BMT (Built-in Motor Turret), High-speed rotary tool spindle, 10,000 min-1: Operability: Equipped with the digital tailstock, CELOS, MAPPS. High precision: Thoroughly controlled thermal displacement, High rigidity, box slideways are used for X / Y / Z axes



Capacity -CNC Milling Machines



CHIRON FZ12 KW

This machine incorporates twin pallets with rotary trunnions, a Microlock work holding system, Renishaw probing system, 48 tool magazine, high pressure coolant and a 15,000 rpm spindle.



CHIRON FZ12 W

This machine incorporates twin pallets with rotary trunnions, a Microlock work holding system, 20 tool magazine, a 12,000 rpm spindle.



YANG EAGLE 600

This machine has a 20 station Bi-Directional tool changer and 3 axis capability.



DAEWOO V600

This machine has a gearbox spindle, 32 position tool changer, through spindle coolant lines and swarf management systems. With a 22Kwatt motor making it ideal for armour



DMU 50

This is one of our latest machines with 5 axis simultaneous machining, swivel rotary table 12,000 rpm spindle and a 24 position tool changer, and probe inspection



ECO MILL 1100V

High speed with 4th Axis. This Machining centre can accommodate work pieces up to 1000 kg, ecoMill 1100 V with the traverse X-axis of 1100 mm, fitted with halter assist load robot

Halter Load Assist Robot



HALTER CNC Automation has incorporated the complex robotic technology into the most accessible solution for automation of batches from 10 to 1000 pieces. Teamed with our New Nakamura 200ASY, both working in harmony to provide flawless automated manufactured parts.



Inspection & Quality



MITUTOYO LINEAR

HEIGHT GAUGE 2D MEASURING GAUGE

Fitted with a Linear Height, multifunctional single axis height gauge, makes 2D measurement simple and accurate. It is possible to measure from simple 1D parameters of the surface height, circle diameter, distance, perpendicular and straightness to sophisticated 2D measurement.



SINOWON VB12 SHADOW GRAPH

VB 12 Series Profile Projector is a precise non-contact optical measuring instrument. Using a clever meld of optic, mechanic and computer technology it can be widely used in almost any industry for quality control purposes. The machine can inspect most surfaces and outlines of objects including complex threads, gear teeth and milling cutters



ZEISS PRISMO, RENISHAW MODUS 2

Zeiss Prismo CMM Machine fitted with Renishaw 5 axis CMM sensor technology. Using Modus 2 the innovative interface which is quicker to use and compatible with CAD CAM. This machine can perform from simple manual CMM operations through to complex part measurement on multi-axis systems.



DEA GLOBAL CLASSIC 500 X 500 CMM

All-purpose CMM for the dimensional inspection of a variety of components. It can be equipped with touch-trigger probes or optional scanning probes, which can be used in a number of industries for first and final part inspection and fixture qualification .

Rotec operates and is committed to a Total Quality Management System. With a dedicated Quality department, regular meetings and statistical analysis of our service, we strive to maintain our dedication to quality. As part of the Quality Management System Rotec has and is fully compliant with ISO 9001:2015 accreditation which is applicable to Precision CNC components produced by turning, milling and drilling in ferrous, non-ferrous and plastic based material.

“We are committed to ensuring that all parts are of the highest quality to meet and exceed customer requirements”

Our parts are quality tested and inspected by our highly trained Quality department using the latest testing equipment through the manufacturing process to ensure all parts meet not only our customers but also our high standards.

We always welcome customer feedback and suggestions as these enable us to continually improve our internal processes, services and quality. Automotive industry is a major part of our portfolio, we regularly evaluate and work towards the automotive standards



Tool Making / Fixture Manufacture



Our tool shop is manned by experienced tool makers who are long served within the engineering industry. Due to a combination of Vertical, Horizontal, Mills, Lathes and Surface Grinders there is little we can't manufacture for our customers.

FIXTURES

Our skilled in house designers create mechanical, pneumatic, hydraulic fixtures for welding, machining, assembly lines, and inspection.

SMALL BATCH- ONE OFF'S

Our tool makers work for a combination of design houses requiring one off components for their specialised machinery.

Assembly / Stock Control / Fabrication

WELDING / BRAZING

Rotec is now able to offer its customers a one stop shop combining the flexibility of a fabrication shop with the precision of CNC engineering.

Our Lloyds approved coded welders are able to offer MIG /TIG welding on large or small items, working with Steel, Aluminium and Stainless Steel.

In our dedicated Fabrication shop we can also braze machined parts, removing the need for our customers to track their parts through numerous third parties and reducing lead times.



ASSEMBLY

For many customers we provide a one stop shop providing them with a finished and assembled, tested product, allowing them to concentrate on their business and customers.

Via our established supply chain we are able to offer competitive prices to our customers while taking the stress off managing the stocks of parts and sub assemblies. This ensures our clients are receiving high quality parts for the best price.

STOCK HOLDING

We like to develop long term relationships with our customers. One way we do this is to offer a reduced price for purchasing a larger quantity than may be at the point of order, setting up a call-off

For some customers we also provide a KANBAN service, replenishing stock bins in line with their instructions.

CAD / CAM

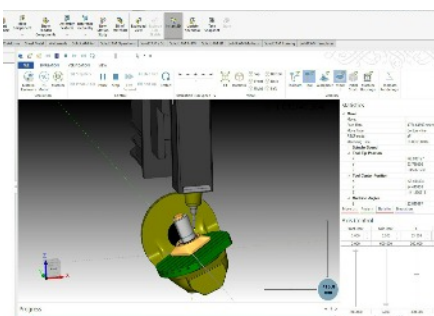
CAD / DESIGN

Working with a variety of customers we can support them by creating drawings that formalise their designs prior to machining. Or, for customers who have their own in house CAD engineers, we can seamlessly transfer information and add value to the design.

CAD / CAM

Extending our CAD capability we have invested in the latest software to enable us to work from a solid model quickly generating a CNC program, and with PC DIMOS generate CMM Inspection programmes.

Working from the customers original model removes the likelihood of errors. This allows for the most complex parts to be handled quickly and efficiently.



SLIDINGHEAD

CNC MILLING

CNC TURNING

5 AXIS

RAPID PROTOTYPES

CAD/CAM

JIGS & FIXTURES

FABRICATION

STOCK STORAGE

ROBOTIC AUTOMATION

24 HR PRODUCTION

NEXT DAY QUOTE

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