



Our Capacity

CNC Machinery



 **N&R Needham Co Ltd, S45 9NU**

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 **nrnengineering.co.uk**



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Capacity



N&R Needham Co. Ltd. offer precision machining of components to micron tolerances to fulfil customer requirements using a varied selection of CNC and conventional machinery and inspection equipment.

CNC TURNING CENTRES

Eight CNC Turning Centres, three with capacity up to 900mm diameter by 2000mm long, two of these have hydraulic steadies.

CNC MACHINING CENTRES

Seven CNC machining centres with up to 3000mm by 800mm travel some with up to five axes.

CNC HORIZONTAL MACHINING CENTRES

Twin pallet with up to 1640mm cubed machining envelope. With fully contouring B axis and through spindle coolant. Alternatively our three metre five axis machine can accommodate a longer component.

CENTRE LATHE

A large centre lathe with D.R.O. further complements the C.N.C. turning centres. It has capacity up to 850mm diameter by 3000mm between centres.

MILLING AND DRILLING

Varied conventional equipment enhances our capacity including pedestal and radial arm drilling, grinding equipment, horizontal and vertical milling.

SLOTTING

Taper and parallel slotting is achieved on components up to 1000mm diameter. The machine has 380mm stroke.

GEAR PLANING AND SHAPEING (INCLUDING INTERNAL SPLINING)

Gear cutting up to 950mm diameter. Internal splines on shafts can be cut with a maximum shaft length of 1000mm long.

FABRICATION

Mig and arc welding are available on site, with fitting and assembly within our capacity.

Inspection



Quality You Can Measure



The new temperature controlled inspection area houses a large CNC CMM fitted with a Renishaw PH20 motorised infinite indexing probe head and Renishaw 0.0001 mm encoders for superior accuracy. Measuring capacity as follows; X1200. Y3000. Z1000. mm.

Our inspection equipment also includes Trimos digital height measuring equipment and a vast array of conventional measuring instruments. Externally calibrated standards allow us to ensure that we are working to UKAS standards on all our measuring equipment. We are an ISO 9001 : 2008 quality approved company.

FULL MACHINE LIST

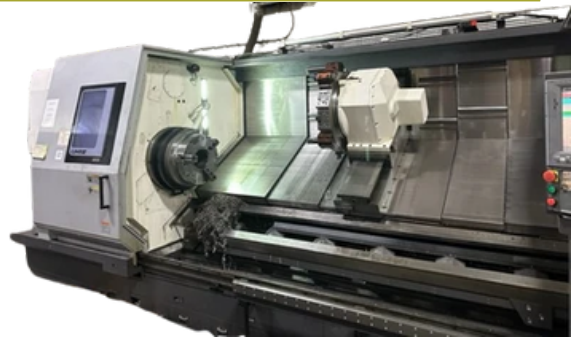


TURNING

Mazak Integrex 400Y Millturn 5 Axis



Mazak SQT 18MSY Millturn Twin Spindle with Y Axis



Victor VT-S36 85 Turning Centre



Victor VT-S36 125 Turning centre



FULL MACHINE LIST



TURNING

Victor VTURN V40 125 Turning Centre
with Steady

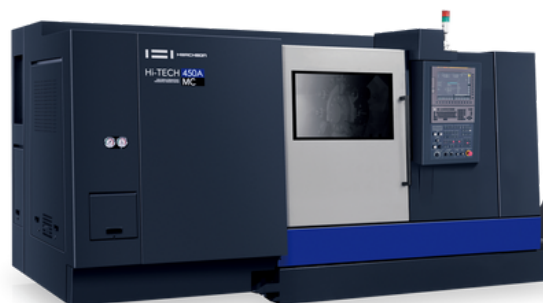


Mazak SQT 18MSY Millturn Twin Spindle
with Y Axis



Okuma Howa Act3 Turning centre

Hwacheon Hitech 450 Turning Centre
with Robot Loading



FULL MACHINE LIST

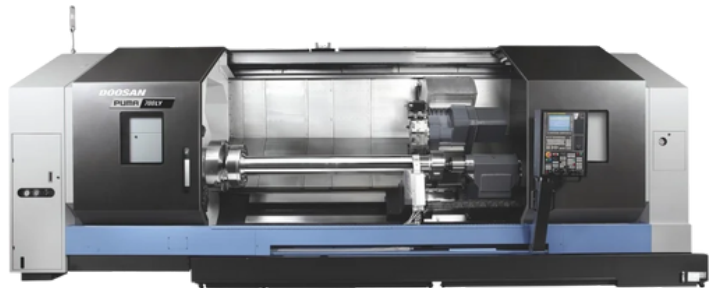


TURNING

Hwacheon Hitech 700 Turning Centre



Doosan S700L Turning Centre



Doosan S670L Turning Centre
with Hydraulic Steady



DSG 900mm x 3m Millturn with large
Boring Bar Attachment and Steadies.

FULL MACHINE LIST



TURNING

BSA 670 x 3000 Centre Lathe
with DRO and Steadies



ZMM 800 x 3000 Centre Lathe
with DRO and Steadies



FULL MACHINE LIST



MILLING

Mazak V-414 Vertical Machining Centre
with 4th Axis



Mazak V-655-80 Vertical Machining Centre



Mazak VTC 20B Vertical Machining Centre
with 4th Axis



Mazak VTC 760 Vertical Machining Centre
with 4th Axis



FULL MACHINE LIST



MILLING

Mazak VTC 800-SR 5 Axis Vertical
Machining Centre with 3m Bed



Mazak Variaxis i700 Full 5 Axis
Machining Centre



Mazak H400 Horizontal Machining Centre
with Pallet Pool



Mazak H630 Horizontal Machining Centre
with Pallet Pool with 90 Degree Head



FULL MACHINE LIST



MILLING

Mazak H1000 Horizontal Machining Centre
Twin Pallet with 90 Degree Head

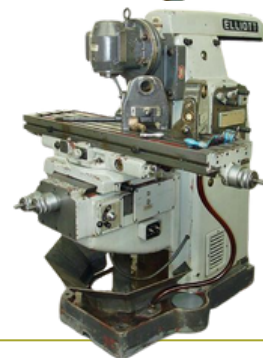
Mazak FH480 Horizontal Machining Centre
Twin Pallet



Kerney and Trecker S15 Horizontal Mill
with Arbour Support



Elliot Toolroom Universal Mill

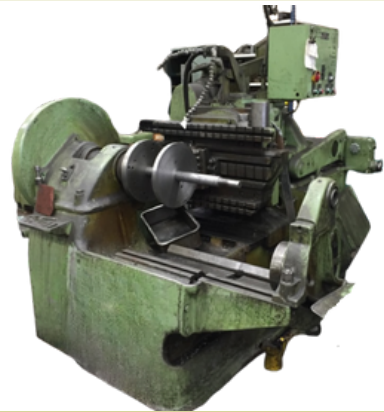


FULL MACHINE LIST



GEAR CUTTING

Sunderland 16 Gear Planer with Tool Grinder



Fellows 36" Gear Shaper



Ormrod Slotter 380mm Stroke 1000mm Table

MATERIALS & FINISHES



At N&R Needham, every component starts with the right material and finishes with the right protection.

Carbon & Alloy Steels

070M20 · S275 · S355 · 080M40 · 817M40 · EN30B · 722M40 (including nitrided specifications)

Cast Materials

ADI (heat treated) · SG Iron · Cast Iron · Cast Steel (various grades)

High-Performance & Exotic Alloys

Inconel · Titanium · Nimonic · Nitronic

Stainless Steels

All grades, including specialist and super duplex specifications

Non-Ferrous Metals

Aluminium · Brass · Phosphor Bronze · Gunmetal



NEXT STEPS



If you're looking for a manufacturing partner who values precision, quality, and reliability, N&R Needham is here to help.

With over 50 years of experience supporting heavy industry and complex engineering projects, we work closely with our customers to deliver parts that perform exactly as required.

Whether you're exploring an idea or ready to move into production, we're always happy to talk.

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