

Turnell + Odell Precision Engineers

Providing the highest possible
standards of workmanship
and customer service



Quality systems
approved to ISO 9001:2008

Documentation
and full inspection reports
Certificates of Conformity
Material specification
and origination certification
Customer specific
documentation

Turnell + Odell

With over 100 years experience in the machining of precision engineering components, Turnell + Odell Ltd. is one of Europe's leading suppliers to the engineering and technology sector.

Turnell + Odell Ltd. offers specialist low volume prototype development as well as high volume manufacturing, and is equipped with a broad range of modern CNC machinery.

Our philosophy is to keep abreast of advanced engineering techniques, by continuous investment in the latest machining technology embracing CNC turning, milling and machining centres, borers, grinders, and other secondary operation machinery. Turnell + Odell's commitment to quality, coupled with meeting the requirements of ISO 9001:2008, has gained it Preferred Supplier status with many high profile and prestigious companies.

We are pleased to discuss your design concepts, whether already drawn, or pre-drawing board.

No request is too difficult - whatever you need manufacturing or repairing, we are here to help. Above all, we make sure that you always have access to the most expert advice and support available.

Our Aim

We aim to provide the highest possible standards of workmanship and customer service to eliminate customer's frustrations and overheads in running their own workshops with:

- Quality precision components
- Unnecessary cost engineered out
- Flexibility & reliability
- Quality assurance system
- Competitive pricing

Companies we are proud to be associated with include:

Rolls Royce
Tata Steel
Weetabix
Man Diesel
DormanLong
Cummins
Lola Cars

Our Customers

Serving all industries, customer projects have included the manufacture, and when required, assembly of components for:

- Specialist Automotive & Motor racing
- Marine equipment
- Diesel engines
- Plastic injection moulding
- Steel production
- Food processing
- Medical Equipment & Pharmaceutical Industries
- Special purpose machinery

Our Expertise

We work with a diverse range of materials in meeting industry's needs including:

- Metals including :- All mild, Carbon, Alloy and Stainless Steels, Aluminium, Brass & Bronzes, Copper, and Titanium
- Plastics including :- PVC, PTFE, PEEK, ABS, Acetal, Nylatron, Nylon, Polypropylene, and Polycarbonate
- Ceramics

Our Plant

No job is too large or too small, and our range of CNC and conventional machines have the ability to offer:

- Turning components up to 830mm diameter, and bar up to 3000mm in length
- Milling components up to 2400mm long
- Grinding of all types
- Welding by MIG, TIG, Gas or Argon Arc
- Assemblies of up to 5 tonne can be handled



Manufacturing Capabilities

Turning

Turnell + Odell offer a variety of machining capability with combinations of CAD/ Automatic Tool-setting/ Swarf conveyors/ Parts catchers as appropriate which give:

- Ability to turn up to 3.0 metres in length with C.N.C. capability
- Quick/easy set up for breakdown work
- Quick metal removal for billet work

Milling

Variety of machining capability with combinations of Probing/ Set-up capabilities and speeds/ Linear scales as appropriate, and linked to off-line programming and data transfer system which give:

- Ability to import customer drawings direct to the machine
- Quick/ easy set up for breakdown work
- Adaptability for most milling operations
- Identification/ engraving up to maximum milling size

Fitting

Turnell + Odell offer:

- Skilled Fitters with both on and off-site assembly capabilities
- 1 and 5 tonnes Craneage capability on fitting/ welding

Welding

We offer various types of welding and jointing to give:

- Quick analysis of requirement
- Most appropriate welding/ brazing/ soldering and jointing operation for the job in hand

Quality

Turnell + Odell use quality systems approved to ISO 9001:2008 and meet many customer's exacting requirements including:

- Documentation and full inspection reports
- Certificates of Conformity
- Material specification and origination certification
- Customer specific documentation
- Traceability

Machining Capacity

CNC Turning Machines

Description	Max Cutting Diameter	Max Bar Cutting Diameter	Max Cutting Length
Colchester Tornado A50		40mm	500mm
Colchester Tornado A80		40mm	500mm
Colchester Tornado A100B	150mm	50mm	500mm
Colchester Tornado A300B	300mm	90mm	500mm
Cincinnati Hawk 250	250mm	75mm	500mm
Goodway GA2800	350mm	78mm	580mm
XYZ Proturm 420	470mm	75mm	1000mm
XYZ Proturm 425 – 2m	480mm	75mm	2000mm
XYZ Proturm 555 – 3m	935mm	350mm	3000mm

CNC Machining Centre Milling Machines

Description	X axis Maximum	Y axis Maximum	Under Spindle Nose
Bridgeport 5AX400 5 Axis Machining Centre With Heidenhain TNC530 control	810mm	610mm	500mm
Bridgeport VMC 600/30 with Heidenhain TNC410 control	600mm	410mm	585mm
Bridgeport VMC 500/16 with Heidenhain TNC410 control	1020mm	510mm	560mm
Cincinnati Arrow 1500 Vertical Machining Centre with Acramatic 2100E control	1500mm	760mm	770mm
Cincinnati Sabre 1000 Vertical Machining Centre with Heidenhain control, Renishaw probing/Toolsetting	1020mm	510mm	560mm
Feeler FV1000 Vertical Machining Centre Mitsubishi Control	1000mm	600mm	475mm
Beaver VC35 Vertical Machining Centre with Heidenhain Control	750mm	400mm	450mm
Beaver VC35 Vertical Machining Centre Heidenhain Control & programmable 4th axis	750mm	400mm	450mm

Milling Machines

Description	X axis Maximum	Y axis Maximum	Under Spindle Nose
Prototrak SM3500 C.N.C. 2 axis Vertical mill	1000mm	400mm	480mm
Prototrak SM-SLV C.N.C. 3 axis Bed mill - 2 off	800mm	470mm	620mm
Prototrak 3000 SLV C.N.C. 2 axis Vertical - 2 off	800mm	400mm	480mm
Aurora - Bed Type Milling Machine	2000mm	600mm	1000mm
Semco Manual Milling Machine - R8 collet	800mm	300mm	450mm

Other Machines

Description		
Kearns Borer (2 off) with Digital Read Out	Max Stroke 1000mm	Max Width 1000mm
Jones & Shipman 540 Surface Grinder	Max Width 350mm	Max Length 450mm
Churchill 50 tonne Hydraulic Press	Max Width 185mm	MaxDepth 900mm
Latest technology measuring equipment including coordinate measuring machine		

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