



Accutool

Your Engineering Solutions provider

Precision Machining Services



Services include:

- Custom machining of steel, stainless steel & other metals including nylon and plastic parts
- Production and support tooling
- Design, prototype, test and assembly

Examples of work:

- Plastic ware parts for vial guides
- End of conveyor turn guides
- Inspection stations



Capacity:

CNC Turning

- 2 Mori Seiki CL 150 turning centres.
- 1 Hyundai HIT 18. turning centre (70mm bore).
- 2 Megga HAS250 automatic band saws.
- 1 Amada HAS 250 automatic band saw.
- Statistical quality control 10 port gauging system.



CNC Milling

- Hurco vmx 30.
- Hurco vmx 24
- Hiathici Seiki mv45. (4th Axis capability)
- Hiathici Seiki mv40.
- Cincinatti Arrow 750.
- Hardinge Vm600. (5th Axis capability).



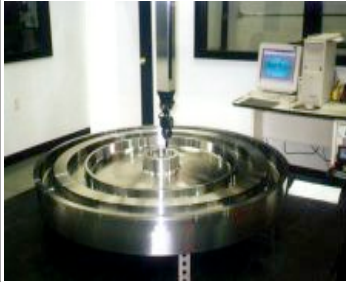
Wire Spark Erosion

- Mitsubishi RA90 EDM wire spark erosion with a machining capability of 350 x 300 x 200 mm and exclusive Mitsubishi cutting technology. This machine operates on a 4th axis and can cut with a wire thickness of 0.1 mm.



Accutool

Company Profile



Quality Control

Accutool has a full range of quality measuring equipment including a Brown & Sharp DEA Computer Measurement Machine

Accutool understands that consistent high quality production and service is a prerequisite to sustainable business for us and for our customers.

Since 1994 Accutool has been accredited to the ISO 9000 quality standard. This has been recently updated to ISO 9001:2008. We apply techniques such as Failure Mode and Effects Analysis (FMEA) and Production Part Approval Process (PPAP) in addition to Statistical Process Control (SPC).



We constantly review our processes with the aim of continual improvement.

- **We offer contract measuring using our CMM**
- At Accutool to ensure the highest standard of quality we use the latest PC-DMIS that enables the Computer Aided Verification of geometry by allowing 3D scans to be superimposed over imported CAD data.

www.accutool.com

sales@accutool.ie

Ph: 00353 1 8066020



Manufacturing Handling Systems and Engineering Solutions





Accutool

Company Profile



Biopharma Services

Services include:

- On Site Consultation and initial concept
- Cad Drawings of the project for approval

Follow up paperwork with material Certification and process trace ability

Examples of Work:

Clean Room Equipment

- Bio-reactor Kit Trolley
- Product storage units
- Inspection stations
- Flow Equalization Autoclave Unit
- Air Curtain Walls/ Barriers
- Down flow booths
- On Site installation.

Capacity:

Welding

- Dedicated cell for the manufacture of 316L stainless steel products with the highest finish on all welded surfaces
- Mig and Tig Welding

Metal finishing

- Chemical Etch part number

Surface finish:

- Clean room welds
- Electro Polishing
- Bead Blasting
- Passivating /Pickling
- Tumbling
- Vibro finish
- Paint (powder).

www.accutool.com

sales@accutool.ie

Ph 00353 1 8066020

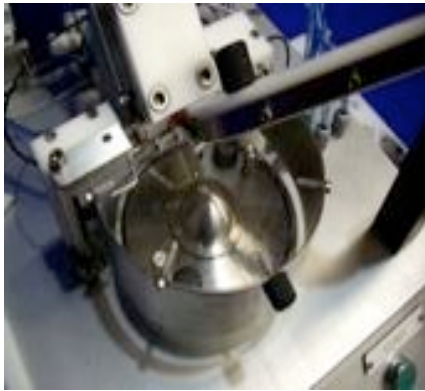
Design office and 3D Cad Services



CAD Design:

Our Design & Engineering Dept offers support to our customers in the areas of Design, Material selection, Production methods, specialist tooling & Assembly methods.

Projects range from simple holding, storage or masking fixtures to complex pick and place units that need a high level of CAD drawing and engineering specification. There are supplied with full engineering certification and materials trace ability. And a list of spare parts



We have also designed:

- Clamping fixtures
- Assembly jigs
- Customised workstations
- Test fixtures, mechanical push / pull, destructive, non destructive, electronic test, vibration testing, noise levels, torque, liquid flow
- Specialised hand tools
- Hand insertion assembly/ disassembly tools



Material selection:

We have chosen materials for projects such as Electro Static Discharge (ESD), high impact plastics such as PEEK, tough durable steels, specific stainless steels with higher than normal levels of constituent chemical properties, Plastic's required to operate at temperatures above 400 degrees Celsius, plastics with resistance to high acidity or high exposure to chemicals, Ceramics, Sintered and cast materials for various strength and mechanical properties. Aluminium Bronze for hardness and durability in bushings and gear chains. Aluminium grades such as HE30 for good anodizing properties, tooling plate 6160 for flatness and stability. Steels in ranges AISI 1020 to carbon steels in the AISI range 4140
Stainless steel types 304 , 316, 316L.
Plastics: Acetal, Nylon Cpcv, Textron, Peek. Kentron , UHMWPE

Semi conductor products & Services

Concept-Design-Manufacture

Accutool works in partnership with engineers in progressing an idea through design to a functioning product.

Titanium wafer holders incorporating a silicon gasket ensuring the secure holding and sealing of the wafer in the vacuum chamber.

Emissions collection unit manufactured from delrin body with a silicon gasket.

Locating brackets combining stainless with PTFE ensuring security in the correct environment.



Titanium 1.20mm wafer holders annealed for stability in hot/cold chamber.

Ceramic plugs

PVDF shim blocks



Reverse Engineering - Accutool replicate existing parts by comprehensive measurement and analysis of part resulting in a full cad drawing prior to manufacture. The customer benefits from this service by reduced costs and lead times.

This method also opens the door for product improvements and changes that suit the customer.

Example process components Accutool supply:

Delrin stage to hold wafer under Vacuum

PTFE Clamshell to hold wafers for cleaning.

PVDF locating combs

Stainless steel nibs coated in Chromium Nitride for wafer locating in centrifugal chamber.

Titanium 1.20mm wafer holders annealed for stability in hot/cold chamber.

Ceramic plugs

PVDF shim blocks

Disc manufacturing and sputtering tooling, cooling components, diaphragms, shields,

Memory manufacturing and test... PEEK components...

high impact materials / ESD materials

Wafer storage and trolleys



Wafer build titanium components

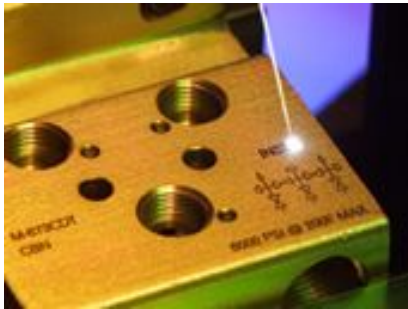
Medical Marking



Laser-based tube cutting & marking unit

Accutool offers extensive laser processing services – cutting & marking- for the medical device industry. We offer product development and continue through process validations and into production manufacturing of all types of medical devices. Our flexible, responsive and cost-effective laser processing services help you gain a competitive advantage in your medical device marketplaces.

Our facility is equipped with the very latest in laser engraving equipment which can generate a wide range of alpha numeric character fonts and sizes or we can use customer supplied CAD or graphic computer files.



Accutool are experienced using materials such as Vitalium, Platinum, Nickel, Titanium, Inconel, Hastelloy, 300 and 400 series Stainless Steels and many more. We use our world class laser systems to service our customer needs of responsiveness, versatility and repeatable accuracy.

Accutool services have helped customers manufacture the following types of medical devices:

- Orthopedic devices and assemblies
- Cardiovascular components and assemblies
- Minimally invasive devices for arthroscopy, laparoscopy and ophthalmic surgery



Markings:

- Graphics
- Part numbers
- Bar-codes
- Calibrated scales
- ID matrix and other two dimensional codes
- Sequential serial numbers
- Logos