



Trio Tech
Precision Excellence

MOULDS • DIES • TOOLS • PRECISE MACHINING



Vision

To be the most high-tech tool room to cater to all kinds of industry and develop specialized engineered items with the highest precision.

Strengths

Equipped with full line of high-end machines we deliver turnkey jobs from design to execution of complex engineered jobs. Our complex machines makes us a one-stop special tooling house.

Mission

To be precise in our task and to safely deliver any project at given time for the benefit of our customers, shareholders, employees and the community we serve.





Since 2005, **Trio Tech** is specialized in production of all kinds of Moulds, Tools and Dies. Our service includes a wide variety of technical consultation for our valued customers. We develop and design all complicated and technically demanding engineered items from design, production, testing & delivery for our external and internal customers.

Reliability, consistency, quality, timing & creativity has enhanced our scope with customers and vendors where our capability of offering top expertise in co-designing, engineering, designing, mould making, CNC machining, CNC EDM, assemblies and supply chain.

Evolution and development are the elements where Trio Tech reached becoming the market leader in design & construction of complex moulds and engineering components.

We promote human role in the organization. We reinvest the profits and resources in technology, machines, working environment along with trainings and updates, following all procedures in compliance with the quality systems hence continuously developing innovative products and solutions.

Our policies have always driven the company with technological evolution enriching the extraordinary experience where Trio Tech has been a top-level partner for product engineering. Expertise and experience are our core strengths offering superior customer satisfaction which has increased our value and has established a professional relationship .

Quality and HSE Policies

Trio Tech operates in accordance with internationally accredited quality standards with updates on software and calibrating all measuring and testing units enabling an up to date process improvements, All required certification necessary for the operations of TrioTech are in place.



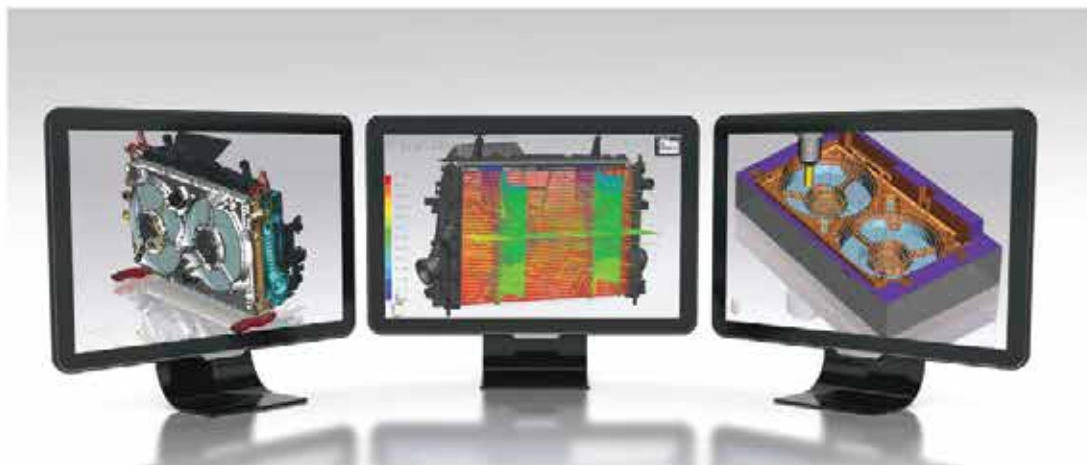
Inspection and Tooling

- ISO 9001 approved facility.
- Surface plate, profile projector and measuring instruments.
- Gage maker instruments to check any threads and grooves.
- Calibration done by third party and records are well maintained
 - slip gauges, pitch gauges, ring groove and thread gages.
 - Anti-vibration boring bars for long boring.
 - Electrolytic copper for better performance in EDM.



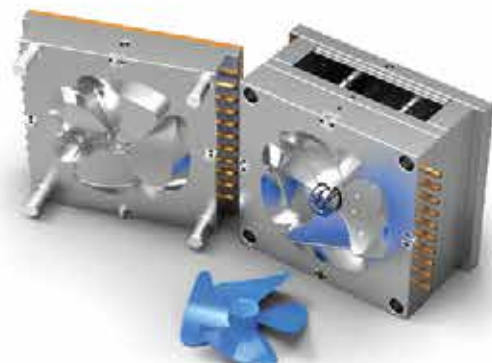
Design

- ▶ With state of art machines, mostly CNC and conventional machines and with state of the art Design facility, we operate in demographically positioned location in Dubai with modern softwares like CAD/CAM UNIGRAPHICS
- ▶ We do Reverse Engineering, creating CAD designs by utilizing our Portable API 3D laser scanners.
- ▶ We can generate digital data from a wide-variety of complex surfaces and parts.



Engineering

- ▶ Sound knowledge management system.
- ▶ Pool of external industry experts working for us on consultation & developing new technologies.
- ▶ Mixture of young & experienced designers following the approach of continuous improvements.
- ▶ We offer metrology service with dimensional inspection and services including consulting with reverse engineering





Manufacturing

- ▶ Full-fledged CNC and Conventional machining facility with more than 15 Machines on the shop floor.
- ▶ Well controlled Machining process with excellent process planning and superior control on each machine for smooth job flow.
- ▶ Strong Project management with critical project chain management.
- ▶ Excellent delivery commitments.
- ▶ Best supplier database supporting our requirements with quality and timely supplies.
- ▶ Anti-vibration boring bars for long boring.
- ▶ Electrolytic copper for better performance in EDM.



Machines

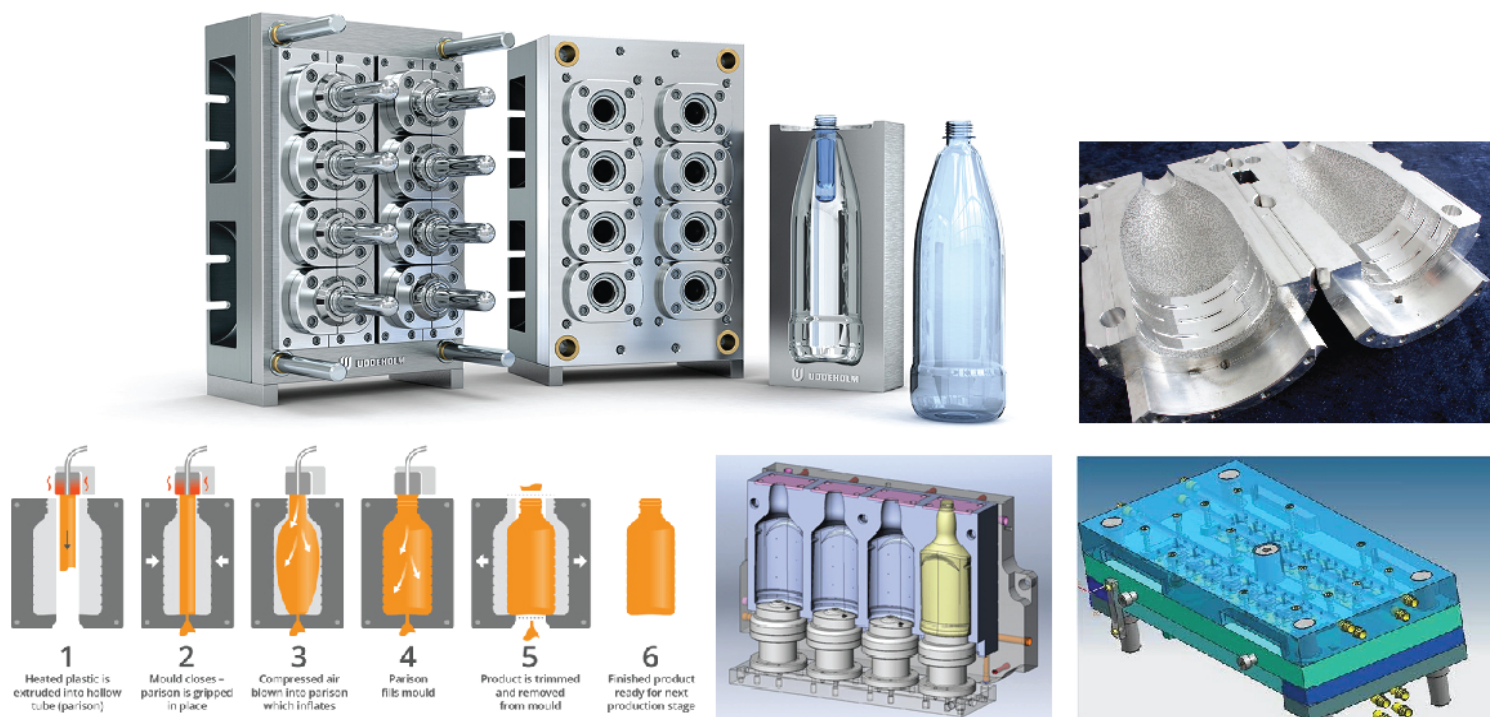
- ▶ 5 Axis Cnc Wirecut Machine
- ▶ 4 Axis Cnc Machining Centre
- ▶ 3 Axis Cnc Machining Centre
- ▶ 2 Axis Cnc Turning Centre
- ▶ Znc Sparking Machine
- ▶ 1000mm Travel Aba Surface Grinding Machine
- ▶ Conventional Lathe And Milling Machine
- ▶ API 3D Laser Scanner
- ▶ Injection And Blow Moulding





Our scope of Services in Tool and Die making are:

- ▶ BLOW MOULDS
- ▶ INJECTION MOULDS
- ▶ PET PREFORM MOULDS
- ▶ PROGRESSIVE TOOLS
- ▶ CRIMPING AND FORMING TOOLS
- ▶ COMPRESSION AND TRANSFER MOULDS
- ▶ MOULD PARTS MANUFACTURING



Tool Validation Service

- ▶ Repair of complex injection, blow, thermoforming and pet moulds.
- ▶ Systematic approach in validating moulds by highly skilled toolmakers for both in-house and on-site.
- ▶ Design updating and faster corrective methodology.
- ▶ Concurrently working with qualified designers.
- ▶ Dies and Moulds are built with quality for enhanced production.
- ▶ Output with longer life and easy maintenance.
- ▶ Repair of Complex moulds, Dies and tools.



Scope for machining Oil and Gas Products

- ▶ DRILLING TOOLS.
- ▶ LEAD MILLS.
- ▶ POTHEADS, GUIDE NOSE.
- ▶ TAPER THREADS AND RING GROOVES.
- ▶ FLANGES AND STUDDED CROSS.
- ▶ ALL TYPES OF THREADS.
- ▶ SURFACE AND SUBSURFACE NOTCHES.



Scope for design and manufacturing Engineering Products

- ▶ CRUST/BIT BREAKERS.
- ▶ INTERNAL AND EXTERNAL SPUR GEARS.
- ▶ FLANGES AND COUPLINGS.
- ▶ CUSTOMIZED SCREWS AND NUTS.
- ▶ SURFACE GRINDING JOBS.
- ▶ CNC MILLING JOBS.
- ▶ CNC SPARKING JOBS.
- ▶ CNC LATHE JOBS.
- ▶ WIRE AND SPARK EDM JOBS.



Our Metrology Services

Profile Projector & Measuring Instruments

API 3D laser scanning and smart scanning. Premium portable measurement with arms is used with both contact probes and/or non-contact scanners to provide 3D inspection, quality control, on-machine verification, reverse engineering, tool certifications, dimensional analysis, virtual assembly, 3D modelling and more. The portable measurement arms used along with laser trackers provides an expansive measurement volume for extremely large parts with dimensional control requirements.

CAD Based Inspection CAD based 3D inspections can be simplified when scanning machined parts.

We also provide Dimensional Analysis.

We do Reverse Engineering

Creating CAD designs is easier with reverse engineering. By utilizing our equipments, we generate digital data from a wide-variety of complex surfaces and parts.

