



From Vision to Reality - Your Total Tooling Solution!

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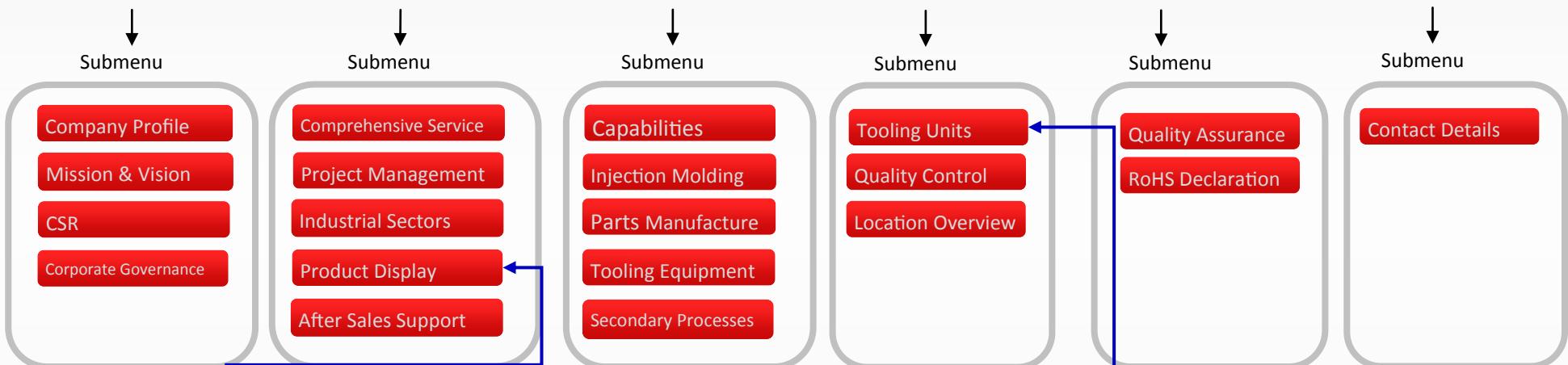
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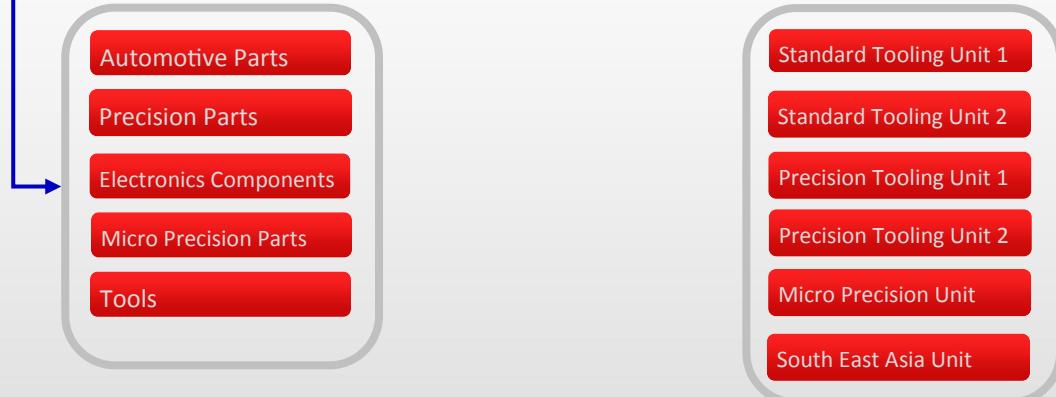
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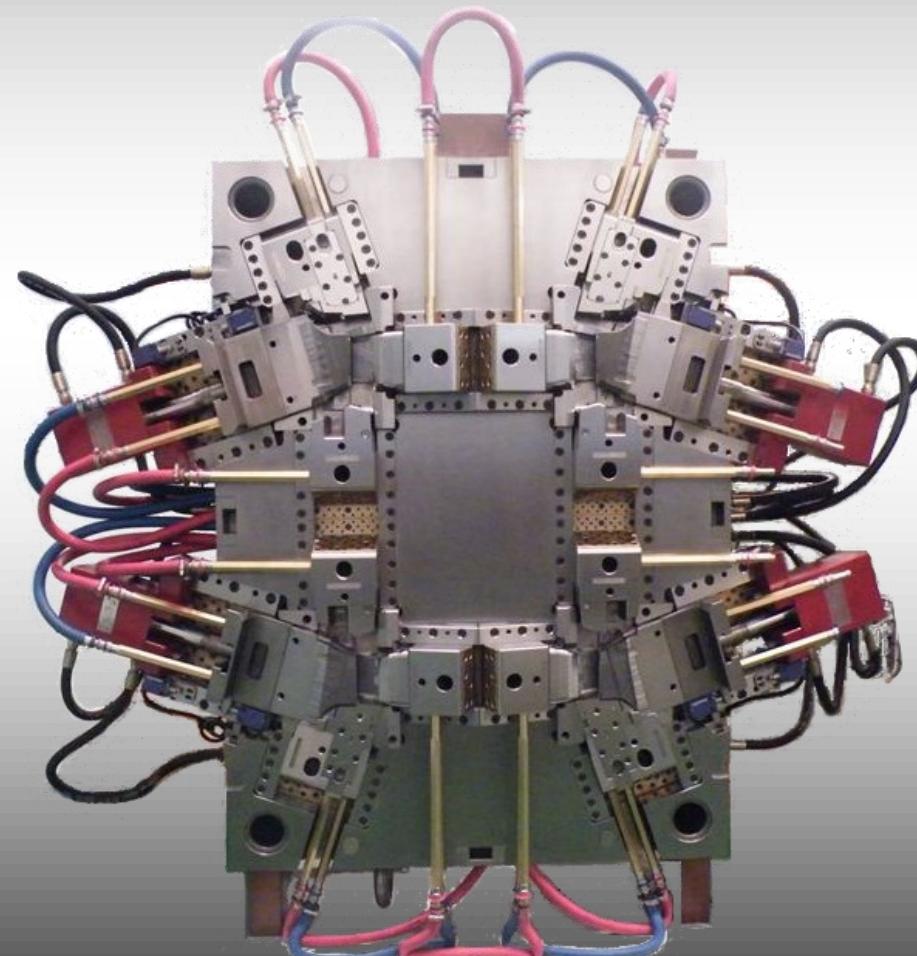
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Mission & Vision

CSR

Corporate Governance

ITM is a China based toolmaker specializing in the manufacture of molds, mold parts and parts for the automotive, 3C consumer electronics and medical industries. Our core strengths are the design and manufacture of molds,, plastic and metal components as well as injection molding, die-casting, secondary processing and finished product assembly.

### History:

ITM's history dates back to 2006 where a prototype of the company was founded. This was followed by the establishment of ITM Hong Kong which commenced production in 2010. By 2011 ITM had established its tooling network in South China's Guangdong Province.

### The Present:

Manufacturing in the developed economies is still not up to full speed as consumption has contracted in all major markets which are only slowly recovering from the credit squeezes that followed the 2008 financial crisis. This and other economic concerns have effectively shifted engineering out of the factories of many western toolmakers and into the hands of Chinese companies which offer good workmanship at attractive prices.

However, the outsourcing of tooling and manufacturing projects to vendors in China can prove to be a significant test for a Western toolmaker: other than the language barrier and time zone challenges there are notable differences in business-culture which can often hinder effective communication and cause frustrating conditions. These in turn can negatively affect project management and lead to unwelcome cost increases.

*Tooling in China can be made easy though!* With a decade long history of working with and managing Chinese and South East Asian suppliers, ITM has attained the expertise and resources required to provide you with a ***total tooling solution in China and South East Asia!***

With our vast experience and extensive tooling network we can guarantee that all projects are finished on time while living up to all your stringent requirements. Our on-the-ground-presence and support means that you have constant control of your tooling project. You will have no need for costly crisis management, simply because we will prevent any crisis from happening!

### The Future:

It is our clear aim to provide a comprehensive service which includes all aspect of tool making project management. Our big advantage is that we are based in South China and thus in close proximity to other South East Asia based suppliers that are only hours away. This will drastically reduce project management costs and allow you to retain your efficiency, while focusing on developing your core strengths and competitive advantages.



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### **Mission & Vision**

**Our Mission** is to provide our international customers with reliable moulding services and ensure complete customer satisfaction.

**Our Vision** is to become an internationally leading tooling project management company.

We will achieve our aspirations by doing more than “just enough”. It is our plight to ensure that our cherished customers meet their targets and reach their goals. Therefore we are intensely focused on delivering only the highest quality products and services on time. Each and every Time!



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### **CSR**

One of our obligations is to maintain Corporate Social Responsibility as an integral part of our conduct of business and we are well aware of some of the stigmas that continue to affect people's perception of manufacturing conditions in China.

Consequently, we take every opportunity to inform our suppliers that they would do well to ensure fair treatment of their work-force and deploy operational procedures that facilitate environmental protection!

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All of our tooling units are subject to continuous and frequent inspection, which we at ITM carry out personally to ensure that all units meet our stringent requirements with respect to quality, safety, labour-market ethics and environmental concerns.

As part of our proactive measures, we make sure to inform our suppliers of the importance of avoiding manufacturing practices that are harmful to the environment. We also have enquired our suppliers about the usage of underage labour to which all unit managers have assured us that none such is taking place.

### **Corporate Governance:**

ITM's management philosophy provides clear guidance for us to "conduct our business service with integrity to ensure complete customer satisfaction". Our corporate culture is based on great respect for our fellow citizens who all have ideals and ambitions. We are committed to honouring those aspirations and will always do our utmost to help our fellow man realize his goals.



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## **Products & Services** **Comprehensive Service**

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ITM provide comprehensive services from the design and manufacture of mold, plastic and metal parts, plastic injection molding, die casting, through to secondary processes, such as plating, painting, surface finishing and final assembly.

### **Project Management**

With over three decades of tooling experience, we are able to provide our customers with comprehensive services that include mold or parts design, tooling, manufacture, surface finishing, final assembly and trial.

We are well aware of the importance of cost control and we plan our projects to ensure minimum waste of time and material during all production phases. Therefore, we can provide both favourable pricing and lead-time guarantee!

It happens even for the best that projects go awry. This is where we can also help: ITM is capable of crisis management and we can provide vital on-the-ground support in times of urgency. Better than putting out a fire, though is to prevent it from happening at all, and deploying our services at the beginning of a project could save you both grievances and costs.

### **Consultancy**

We have vast experience in tooling and can help you evaluate your tooling needs on a consultancy basis.

### **Product Development Center**

Our design team is highly skilled in engineering design and development of plastic and metal components, and as part of our box of skills we also offer testing, FEA and prototyping services.

### **Lead Time Guarantee**

With our integrated manufacturing system we are geared to handle the most demanding projects within the agreed timeframe while our customers are updated on progress as frequently as they may require.



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## **Products & Services Comprehensive Service**

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### **Scope of Products**

Our core strength is in automotive parts manufacturing: we have the capacity to design and manufacture both exterior and interior parts. This includes mirror shells, light casings, door handles, window frames, front and back-bumpers, trunk decoration, instrument panels, center consoles and a wide range of electronics. Our in-house tooling unit also is capable of providing both two-component molding and over-molding services.

In addition to automotive parts we are fully capable of the design and development of molds as well as plating and surface treatment of high-quality electronics and general engineering components, which includes plastic and metal components for the full range of communication devices and technologies: mobile phone, Bluetooth and satellite navigation.

Our range of competencies includes the design and development of molds as well as molding, shaping, plating and surface treatment of plastic and metal parts for high-tech digital products such as Digital Cameras, DV, MP4, PC, PSP, projectors and portable hard disks.

### **Multi Cavity and 2K Mold: Interchangeability**

A core competence of ours is the design of multi cavity tools with a sharp focus on **interchangeability**. Our fully equipped Standard Tooling units is geared to take on demanding 2K molding projects in which we are highly experienced.

### **Overmolding and Insert Molding**

Our experience includes both overmolding and insert molding and we can provide both manual and robot loaded inserts.



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**Products & Services Industrial Sectors**

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**Automotive**

With over three decades of tooling experience, we are able to provide our customers with comprehensive services that include mold or parts design, tooling and secondary processing of tools and parts for the Automotive Sector.

We are well aware of the importance of cost control and we plan our projects to ensure minimum waste of time and material during all phases of the production.

This means we can provide both favourable pricing and lead-time guarantee!

**Electronics Components**

Over the past three decades in the business, we have amassed significant experience in manufacturing Large-size and Precision Tools for the 3C Electronics sector. Our current capability covers the manufacture of a broad range of Electronics Components including Telecommunication Devices, LED-TV, Bluetooth, Digital Cameras, etc.

**Medical Equipment**

ITM's Precision Tooling Units are fully equipped to manufacture precision-demanding Medical Equipment.



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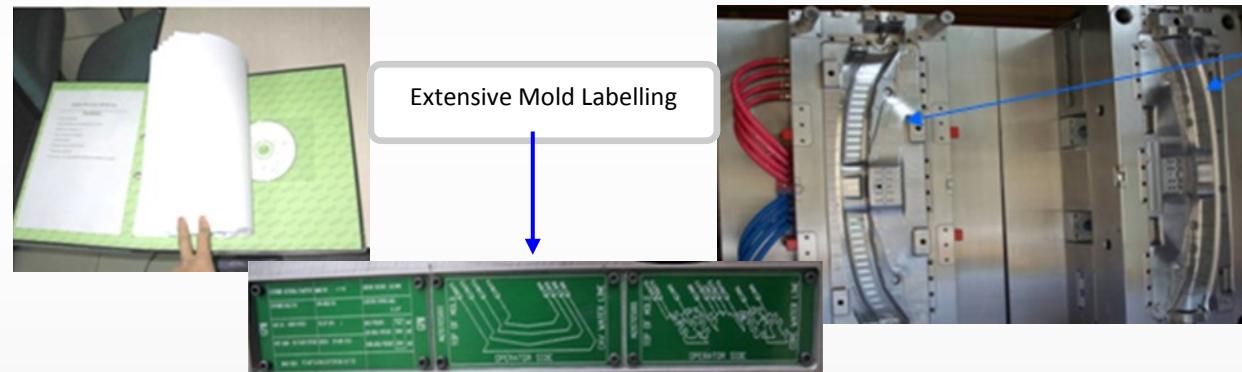
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## Products & Services

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### Extensive Process Reporting and delivery of all project-associated media



Thorough cleaning of all tools prior to dispatch

- Delivery always includes:
- Steel Certifications
  - Dimension reports
  - Assembly Drawings Print-outs
  - Mold-test Process Sheet
  - Tool Check-list

### Vacuum Packaging



### After Sales Services -2nd Stage Support





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## Product Display

## Automotive Components

Below is a display of just a fraction of the automotive components for which ITM managed manufacturing.

### Disclaimer:

All of ITM's tools and products are custom-made!

The samples displayed here are the proprietary items of clients and therefore not subject to copying or duplicating.

The manufacture of all products shown here was managed by ITM



Glove Box Inner



Armrest Insert



Glove Box outer



Interior Part



Bezel



Map Pocket



Map Pocket W/Integrated Speaker



Glove Box Inner



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## Product Display

### Precision Parts

Our Precision Tooling units are fully capable of manufacturing tools and parts that require critical tolerances: we have EDM machining capacity within  $\pm 0.0025\text{mm}$  and can reach a precision of  $\pm 0.01\text{mm}$  for plastic parts, 0.3mm minimum PITCH value, a minimum slot-width of 0.065mm and 1mm depth with  $\pm 0.001\text{mm}$  accuracy!

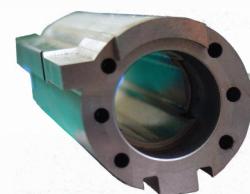
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Precision Part



Precision Part



Precision Part



Precision Inserts



Precision Part



Precision Part



Precision Inserts



Precision Part



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## **Product Display**

## **Electronics Components**

Our Precision Tooling Unit are experts at manufacturing electronics components with critical tolerances and demanding dimensions and textural compositions as well as tools for highly complex electronics components such as connectors and housing cases

### **Disclaimer:**

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Precision Plastic Component



Precision Plastic Component



Precision Plastic Connector



Precision Plastic Component



Precision Plastic Component



Precision Plastic Connector



Precision Plastic Component



Water Purifier Housing



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## **Product Display**

### **Micro Precision Parts**

At our Micro Precision Tooling Unit we have the capacity to manufacture tools and parts with extreme tolerances and dimensions. This includes ultrathin walled (0.1mm) and ultra lightweight (0.0004g) pinhead size components (with PO 25mm and PO 15mm inner thread) that reach the outer limits of Injection technology .

#### **Disclaimer:**

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22\*Φ63.6 Brush Holder



17.9\*15.95\*39 Headlight Adjustor



21.5\*50\*51.8 Motor insulator  
(0.3mm wall thickness)



22.5\*Φ51.8 Windscreen Wiper System



50\*Φ35.0 Meter Device



19.7\*28\*93 Planet Gearbox



1.24\*Φ23.9 Insulator



Φ2-45mm Gear & Worm Gear



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## Product Display

## Tools

Over the years we have managed scores of international tooling projects, the images below are examples of just a few of the many tools we have built:

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Stack Tool 1



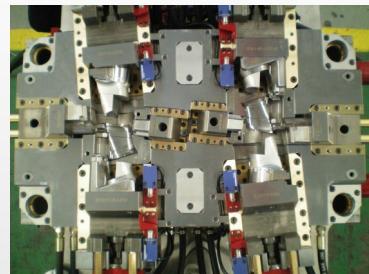
Glovebox Tool



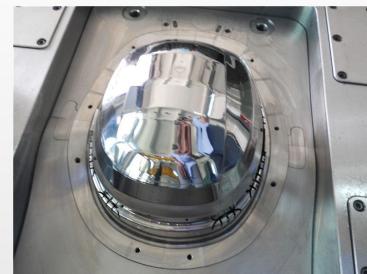
Air Register Tool



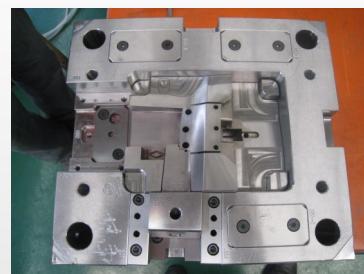
Stack Tool 2



Housing Tool



Helmet Tool w/BKL Lasercool Inserts



Bumper Bar Insert Tool



Engineering Component



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There are several good reasons as to why you should choose ITM to help you with your molding needs. Among others, we offer

*More than 3 decades of tooling experience, incl:*

- All Size Mold Design and Manufacture
- Engineering Design & Development
- Component Production
- Europe/ Asia / USA / Mexico Tooling Project Management
- Fully supported office in China
- Raw Material Supply Guarantee
- Superior Quality Polishing and Surface Finishing
- Vacuum Packaging
- Direct Customer Access to Factory Floor
- Second Stage Support



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### **Mold Manufacturing**

ITM's tooling units all operate advanced and customized processing centers, and each is equipped with a comprehensive selection of CNC machines, wire cutters and CNC Milling machines.

We are fully capable of producing 2K tools up to 1000 tons with a toolsize range of up 25 tons.

Our machine-park is operated by a team of experienced, innovative and professional technical talents to ensure that our mold development will satisfy the high demands of our industry leading customers.

### **Plastic Injection Molding**

We take great pride in our Injection Molding units which are capable of advanced molding processing. A fleet of Nissei NEX series machines along with a Matsui Central and Dynamic Feed system ensures optimal efficiency and consistently high quality throughout each step of the production. The Injection unit is equipped with a fully fledged Horizontal-moving AC motor driven robot system which further optimizes the process. With this combination of units we can safely claim that we can always deliver on time while fully living up to even the most stringent requirements!

### **Precision Molding**

In addition to our array of advanced mold manufacturing equipment, ITM has the capacity to manufacture molds and parts that require extreme precision with super-critical tolerances: this includes micro-size super lightweight (1/10000g) and ultra-thin(0.08mm) parts.

We also are capable of reaching tolerances within ±0.02mm for both steel and plastic parts and have the ability to grind minimal slots with a width of only 0.065 mm, a depth of 1.000mm, all within a precision of ±0.001mm!



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**Hot Runners:**

Mold Master, Gunther, Husky, Multi Cavity Hot Tip and Valve gates, etc .

**Precision Mold Capacity:**

Molds for automotive parts, 3C (computer, communication, consumer) electronics and medical equipment

Molds for gears

Overmold

Hot runner technology

**Precision Plastic Products:**

Precision gear and transmission products

4/6/8/10/12/16/18/20/22/34/45mm diameter gear motors

Micro-size super lightweight (1/10000g) and ultra-thin(0.08mm) parts

Ultra-precision structural components

**Raw Material Supplier Guarantee:**

We have agreements in place with raw material suppliers to secure constant access to both steel and standard parts.

**Final Assembly:**

For your maximum convenience, our molds are thoroughly cleaned and vacuum-packed prior to dispatch.



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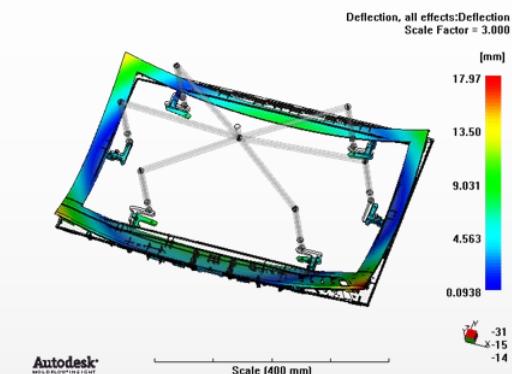
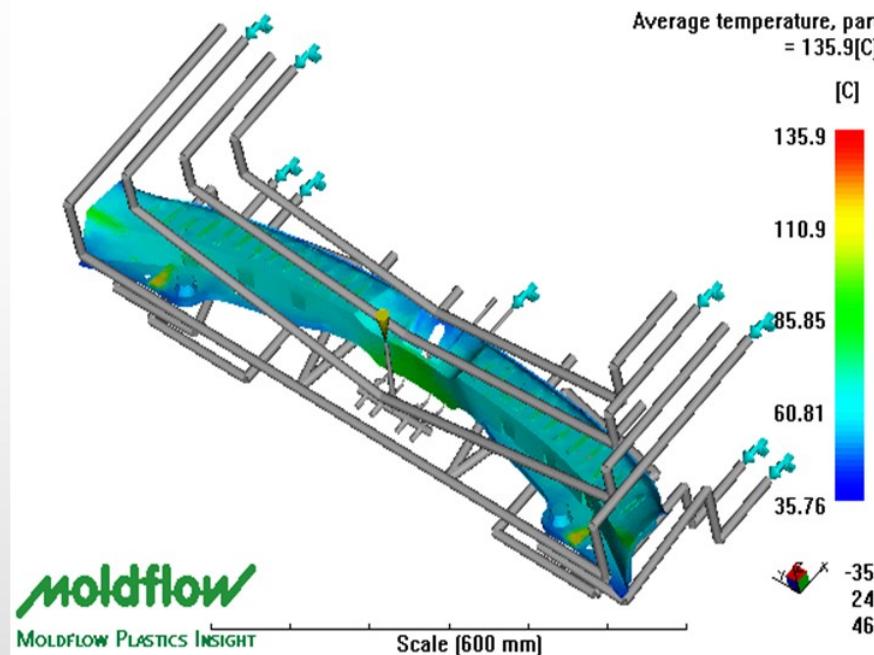
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### Mold Flow Analysis:

Our mold flow analysis is conducted prior to preliminary design.

The findings of the analysis is subsequently applied to gate and water line design





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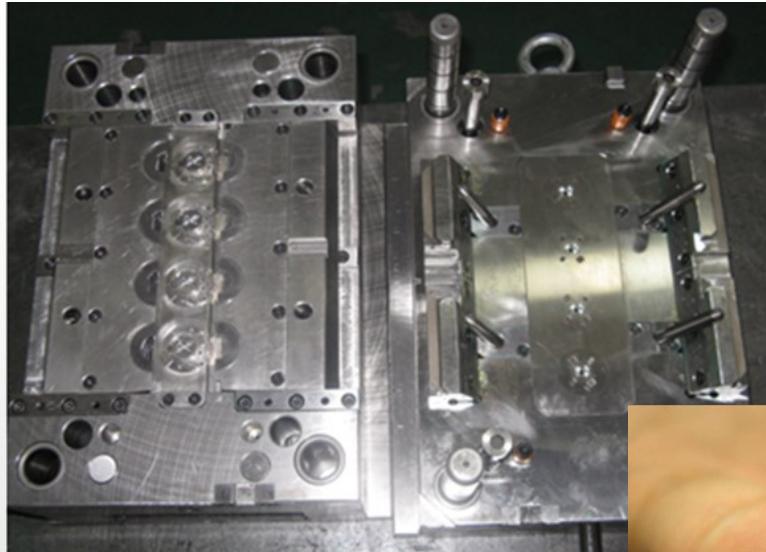
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### Plastic Molding Capacity:

ITM's plastic molding capacity is significant: our range covers 50-300T clamping force machine for high precision small molds and up to 2000T for medium to large size molds . We also are capable of manufacturing micro precision parts that are close to the outer limits of injection technology, such as the 2mm diameter 36 tooth Micro Gear below



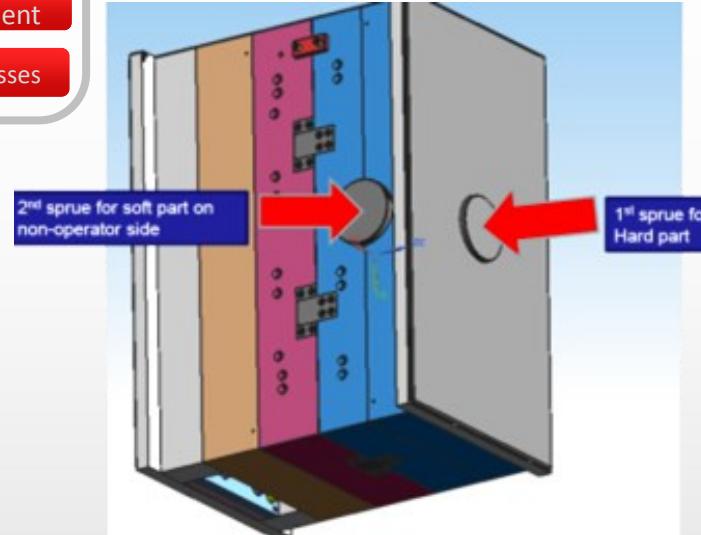
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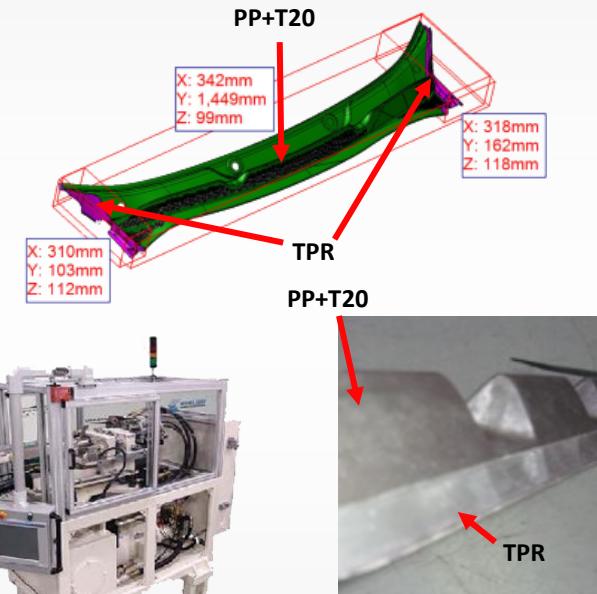
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#### Injection Molding: 2K Mold

ITM's Standard Tooling unit has the 2K molding expertise to satisfy your aesthetic requirements for multi-layered or varicolored parts in any shape of your choosing. This increases design flexibility and allows for unique mechanical properties.



Mold with fixtures mounted





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## Injection Molding

### 2K Mold Auxillary Equipment: Rapid Heat Cooling

Our Standard Tooling unit also operates RHCM high gloss mould temperature controllers which enables Rapid Heat Cycle Molding up to 1000 tons per unit.





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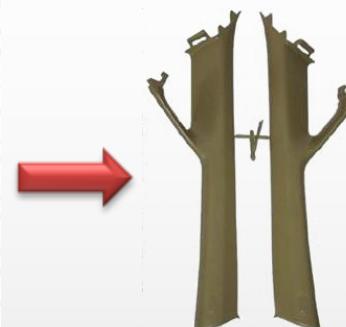
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## Tooling Equipment



EDM workshop with 21 machines and 32 operators



6 sets of Double head EDM Machines



Double head EDM Mirror Machine



CNC High Speed Machine



CNC Machining Center



Mold Turnover Machine



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### **Secondary Processes:**

Manufacturing in a low cost environment produces even bigger yield when the products require secondary processing for completion.

ITM's tooling units are fully fledged toolshops, that besides their excellent primary manufacturing abilities, are also capable of providing a wide range of on and offline forming, finishing and complex mechanical assembly:

- Powder coating
- Drilling, tapping and machining
- Robotic low temperature auto welding, MIG, TIG, Spot and Seam.
- Polishing (mirror finish on SUS 304)
- Laser marking
- Sub component and full component assembly
- Vacuum packaging.



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### ITM Standard Tooling Unit 1

**Area:** 10000 Sq. Meter

**Number of Employees:** 320 people

**Working Schedule:** 8 hrs/day (2 shifts)

**Expertise:** Large size precision molds for Auto Parts, LED-TV ; big molds for Air Condition and Home Appliances, as well as Industrial Pipes

**Software:** Pro/E, UG, Catia, Solidwork, Moldflow, AutoCad

**CNC Capacity:** table up to 4000\*3000\*1000 mm

**EDM Capacity:** 21 regular units, 6 double head units

**Injection Machines:** mold trial machine with up to 1600 Ton Clamp Force

**Quality Certification:** ISO 9001:2008





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### ITM Standard Tooling Unit 2

**Area:** 11000 Sq. Meter

**Number of Employees:** 220

**Working Schedule:** 8 hrs/day (2 shifts)

**Expertise:** Medium to Large size molds for Auto Parts, Home Appliances and Electronics

**Software:** Pro/E, UG, Catia, Solidwork, Moldflow, AutoCad

**CNC Capacity:** table up to 4000\*3000\*1000 mm

**EDM Capacity:** 15 EDM units, 8 Wire-cut Units

**Injection Machines:** 5 mold trial machines

**Quality Certification:** ISO 9001:2008





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### ITM Precision Tooling Unit 1

**Area:** 5000 Sq. Meter

**Number of Employees:** 60

**Working Schedule:** 8 hrs/day (2shifts)

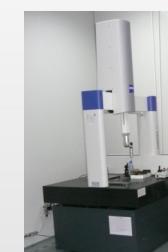
**Expertise:** Precision Tooling: Mold Parts, Spare Parts, Inserts and small size molds for Auto Parts, Medical Devices, Connectors and Electronics

**Software:** Pro/E, UG,, AutoCad

**CNC Capacity:** 2 Customized Cannon, 1 Mori SeiKi

**EDM Capacity:** 11 EDM units, 3 Wire-cut Units

**Quality Certification:** ISO 9001:2000





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### ITM Precision Unit 2

**Area:** 5000 Sq. Meter

**Number of Employees:** 60

**Working Schedule:** 8 hrs/day (2shifts)

**Expertise:** Precision Tooling: Mold Parts, Spare Parts, Inserts and small size molds for Auto Parts, Medical Devices, Connectors and Electronics

**Software:** Pro/E, UG, AutoCad

**CNC Capacity:** 2 Customized Cannon, 1 Mori SeiKi

**EDM Capacity:** 11 EDM units, 3 Wire-cut Units

**Quality Certification:** ISO 9001:2000





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### ITM Micro Precision Unit

**Area:** 5000 Sq. Meter

**Number of Employees:** 350

**Working Schedule:** 8 hrs/day (2shifts)

**Expertise:** Ultra Precision Tooling: Plastic and metal powder injection molding; High precision automotive parts incl. high precision transmission parts, precise planetary gear box reducers and gear motors as well as ultra-thin and micro-size plastic parts.

**Software:** Pro/E, UG, Cad

**CNC Capacity:** 1 Roders, 1 Fanuc High RPM

**EDM Capacity:** 6 EDM units, 6 Wire-cut units, incl. Top Level Swiss AGIE Wire Cutting Machines with wire diameter down to 0.03mm

**Injection Machines:** 76 units

**Measuring Equipment:**>30

**Quality Certification:** ISO9001:2001, ISO4001-2004, ISO14001, TS16949





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### ITM South East Asia Unit

**Area:** 58.000 Sq. feet

**Number of Employees:** 280

**Working Schedule:** 8 hrs/day (2shifts)

**Expertise:** 20 Years of hands-on experience in Injection Molding as well as Precision and Large Mold Manufacturing processes. Product & Mold Design, Precision Tooling; Mechanical and Structural Plastic Components for Automotive Parts, Medical Devices, Connectors and 3C Electronics; Mecha Assembly

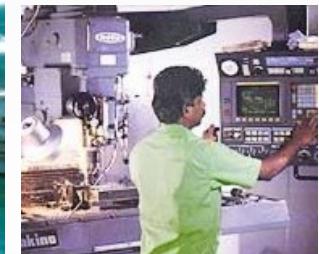
**Software:** Pro-E, UG, AutoCad

**Injection Capacity:** Single Injection, Double Colour, Over Mold, Insert Molding , Roboshot, Fanuc Autoshot

**CNC Capacity:** Customized Jig-grinding, Profile Grinding, Precision Surface Grinding

**EDM Capacity:** EDM Superdrill, Wire-cut and a variety of Lathe and Optical units

**Quality Certification:** ISO 9001:2000





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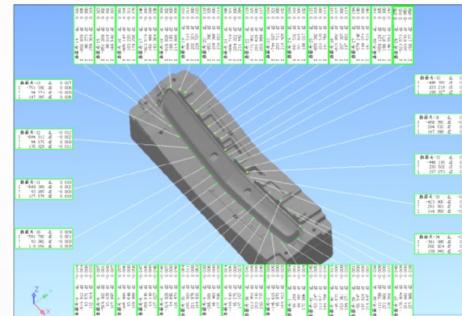
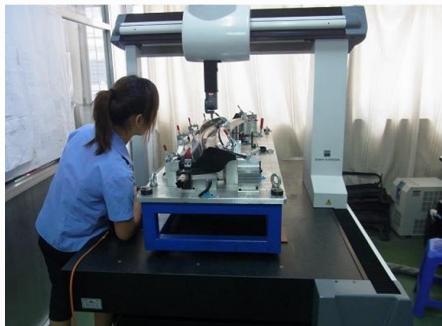
Tooling Units

Tooling Units

Quality Control

Location Overview

### Quality Control with comprehensive measuring procedures and equipment



### Assembly



Thorough cleaning of all tools prior to dispatch



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ITM Tooling Summary

Tooling Units

Quality Control

Location Overview

### ITM Standard Tooling

- Huge Capacity for Packaged Projects
- Large size equipment to cover the full process from machining to inspection to mold trials
- Professional personnel with extensive know-how to ensure efficient production of high precision moulds, that are stable and easily maintained
- Worldwide supplier chain aligned for specified steel, copper, and standard components and technologies
- Dedicated staff experienced in engineering plastics, hot runner systems, overmoulding, gear, and multi-cavity mould projects

### ITM Precision Tooling

- Creative solutions expertise.
- Vast experience in design and manufacturing of multidimensional tools with critical tolerances
- 0.1mm wall thinness
- 0.0004g ultra lightweight pinhead size components
- EDM machining precision  $\pm 0.0025\text{mm}$ . PITCH value 0.3mm
- Minimal slot width 0.065 mm and 1.0mm depth, within a precision of  $\pm 0.001\text{mm}$
- 1-M3 ERP system utilization to control waste, optimize cycle time and enhance overall mould performance and longevity
- Capacity for highly complex parts, high cavitation tooling to support high volume manufacture and wide cross-section of product types



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### Facilities

#### Location Overview

Tooling Units

Quality Control

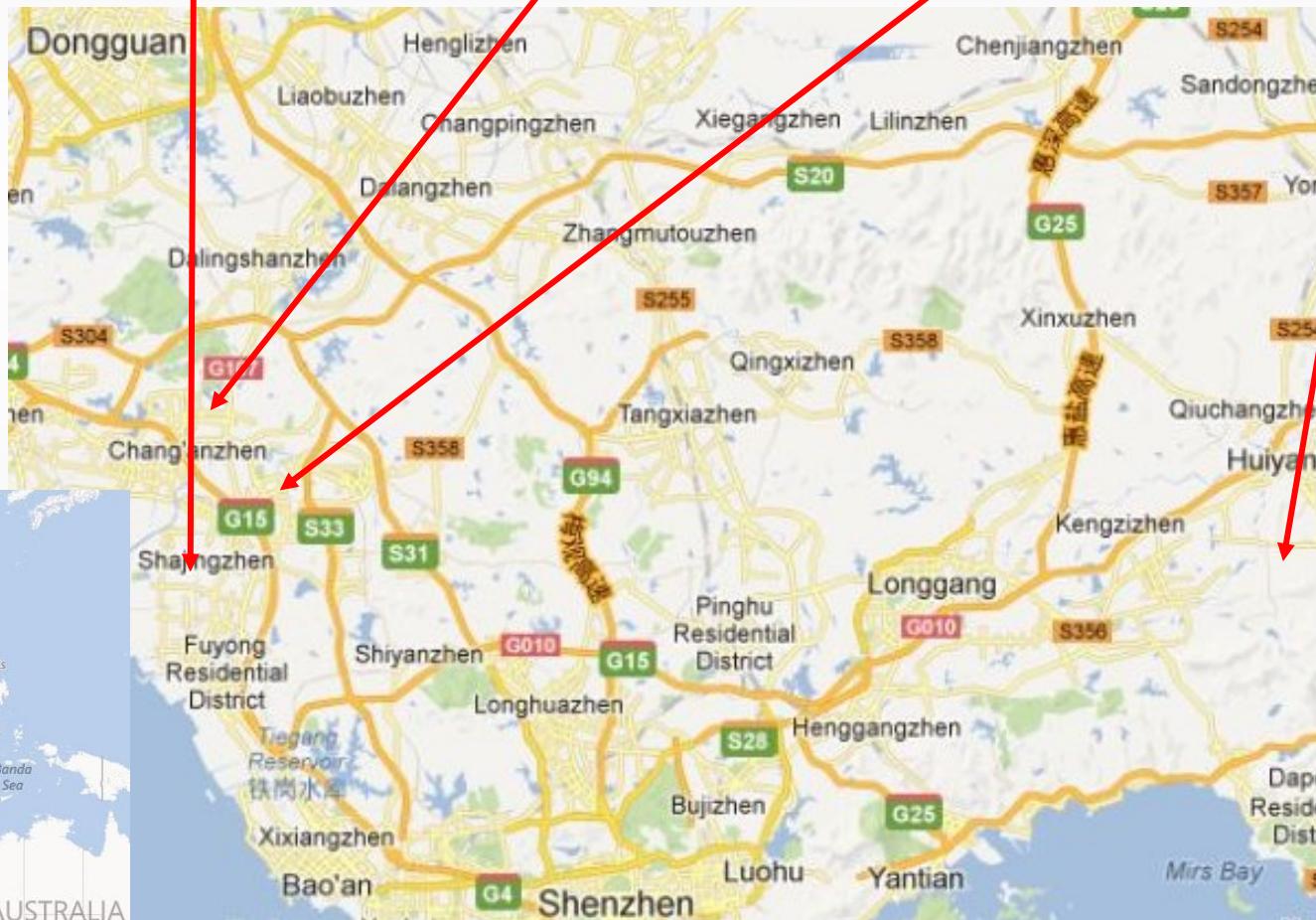
Location Overview

ITM Standard Tooling Unit 1

ITM Standard Tooling Unit 2

ITM Precision Tooling Unit 1

ITM Precision Tooling Unit 2





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**Certifications**

**Quality Assurance**

Quality Assurance

RoHS Declaration

**ISO9001: 2008:** Both of **ITM Standard Tooling units** has been granted the **ISO9001** quality system authentication certificate.

**ISO14000:** ITM Standard Tooling unit 2 has been granted the **ISO14000** quality system authentication certificate.

**ISO9001: 2000:** Both of **ITM Precision Tooling units** has been granted the **ISO9001** quality system authentication certificate.

**ISO9001: 2000:** ITM's South East Asia Tooling units are all **ISO9001:2000** quality certified.

**D&B D-U-N-S Certified :** ITM Precision Tooling unit 2 is a member of the **Global D&B Database**.

### **Quality Policy:**

More than three decades of experience in the tooling business has taught us what matters most to our customers: Time, Money, and Risk, three elements which all are subject to one factor: **Quality**.

*Quality saves you Time:* Consistent quality means there will be less downtime due to faulty parts. Tools and parts that work simply means less maintenance work to obstruct the production line and less customer service calls to manage.

*Quality saves you Money:* All enterprises know that customer satisfaction means repeat purchases. In addition, reduced waste will help to lower production costs which means a healthier bottomline.

*Quality reduces Risk:* with fewer product returns there is less environmental damage, less risk of losing customers to competitors, and so on. That, in turn, means an increase in shareholder confidence. Simply put: everyone involved benefits!

Our strict adherence to a stringent and continuously refined quality management system ensures that your project reaches its maximum potential: From First Analysis to Final Test, we take ownership for the quality of processes that help us and our customers succeed!



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## **Certifications**

Quality Assurance

RoHS Declaration

### **RoHS & REACH Declaration**

One of the core values of ITM is to respect our social and physical environment. We are committed to comply with global regulatory and consumer environmental, health, and safety requirements. This includes the European Union's RoHS (Restriction of Hazardous Substance Directive) and REACH (Registration, Evaluation, Authorization and Restriction of Chemical substances).

In this section you will find our REACH declaration which forms part of ITM's Environmental Policies:

Regarding Article 33. Duty to Communication of information on substances in articles, ITM provides the following information about substances identified by the European Chemical Agency as hazardous:

With rare exception, our current products are compliant to the RoHS Directive. Based on ITM's knowledge, the delivered product and product packaging as delivered by our suppliers, do not contain chemical substances included on the REACH Candidate List in a concentration above 0.1 percent weight by weight (w/w).

We will continuously monitor the REACH Candidate List and update in accordance with changes or addition of new relevant substances. Information is currently provided to recipients of ITM products in product shipment documentation and to consumers upon request. Please do visit our website site regularly for up-to-date information. Alternatively, email your questions to [jorgen.moller@i-t-m.lv](mailto:jorgen.moller@i-t-m.lv)



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