

**INDO GERMAN TOOL ROOM**  
AHMEDABAD

**MSME TOOL ROOM - AHMEDABAD**



**Technology For A Better Tomorrow**

**ISO 9001 : 2008**  
ORGANISATION



# Introduction

IGTR - Ahmedabad is strategically located in the city of Ahmedabad, the business center of Gujarat. IGTR - Ahmedabad is equipped with the latest European machines for production and a motivated professional team.

IGTR - Ahmedabad is a nationally known source for designing and manufacturing of international quality of Plastic moulds, Press Tools, Die Casting Dies and Jigs & Fixtures.

IGTR - Ahmedabad undertakes precision machining job work using state of art machines and software.

IGTR-Ahmedabad offers Long Term, Medium Term and Short Term training in the area of Tool & Die Making and CAD/CAM CAE.

IGTR-Ahmedabad provides cultured, disciplined and day one productive Manpower



## VISION STATEMENT

- \* Self Sufficiency and beyond with sustained growth.
- \* Adopt e-teaching practices including Computer Based Training / Web Based Training.
- \* Internationally acclaimed Centers of Excellence in Product Developments, Tool Engineering & Allied Fields.
- \* Developing competitive edge over National & International Players.
- \* Nurturing Socially relevant Skill Development Programmes for improving employment potential.







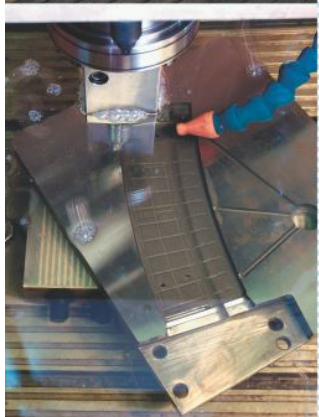
## Consultancy & Marketing Design & Development

### CONSULTANCY & MARKETING

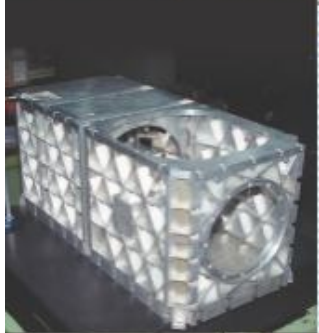
A single window effort of IGTR is to provide techno-commercial support to customers. The main activity of C&M is to carry out marketing, understand customer's requirement and convert the same into industrial process. C&M also provides best upgraded information about tools, their processes, materials and assist in machine & equipment selection. C&M also provides consultancy in the area of tool and die making, product development for project set up.

### DESIGN & DEVELOPMENT

The Design department is equipped with latest hardware and software to cater to the needs of the modern tool room. This department works on software like Unigraphics, Master Cam, Pro-E, Catia, Ansys, etc. The design of Plastic Moulds, Press Tools, Die casting dies, Jigs & Fixtures and gauges adhere to international standards. This ultra modern department is competent to design Tools, 3D modeling and Analysis for product development and reverse engineering using state-of-the-art CAD/CAM & analysis software. The centre is known for its excellence in the area of digitizing/reverse engineering using CNC co-ordinate measuring machine.

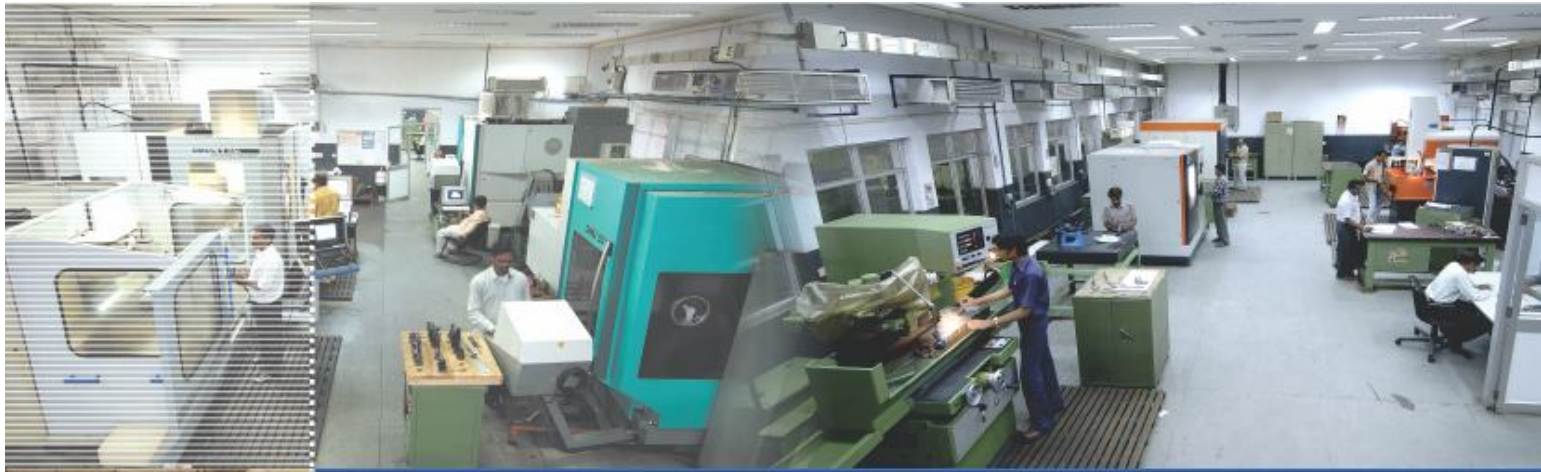






## INSPECTION FACILITY

DESCRIPTION	MODEL	SPECIFICATION
1) C.N.C. Co-ordinate Measuring Machine	CARLZEISS PRISMO-5	Co-ordinate Scanning Type Measuring Range = 700 X 900 x 500 mm Permissible Weight: 1200 kgs For 2D and 3D measurement / Reverse engineering / Re-engineering
2) Profile Projector	BATY INTERNATIONAL Sm20	Range: - 50 X 150mm Accuracy: 0.002 (2μ)
3) Tool makers Microscope	CARL-ZEISS	Range:-50X150mm Accuracy: 0.001 (1μ)
4) Linear Height Master	MITUTOYO	Range:-600mm Accuracy: 0.001 (1μ)
5) Surface Roughness Tester	CARL-ZEISS	Minimum display value 0.01μm Accuracy: CLASS 1 (DIN 4777)
6) Hardness Tester	HPO-250	FOR HRC, VICKERE & BHN



## Infrastructure

IGTR has state of the art machinery and support facilities as the institution believes in the principle of Total Quality Management. The center is ISO-9001:2008 certified.

Sophisticated machines and use of latest hardware and software has lent a hand to the professionals to produce tools of international standards.

IGTR uses the following modified machines and software for the development of tools. These are mentioned as under :

### RAPID PROTOTYPING

1.	Rapid prototyping in plastic Make - Stratasys USA	FDM Process	Table Size 300 x 250 x 250 mm, Material - ABS, PC
2.	Rapid prototyping in Metal Make - Concept Laser (Hoffman) Germany	(M 1 cusing laser sintering process)	Table Size 250 x 250 x 200 mm, Material - Tool steel, Inconnel, Stainless steel






DESCRIPTION	MODEL	SPECIFICATION
1) C N C. WIRE CUT SPARK EROSION MACHINE	CHARMILLES ROBOFIL - 510 CHARMILLES ROBOFIL - 290 CHARMILLES ROBOFIL - 190	WORKING RANGE - 1200 x 700 mm TABLE SIZE - 700 x 400 x 400 mm WORKING RANGE - 850 x 500 mm TABLE SIZE - 400 x 250 x 400 mm WORKING RANGE - 250 x 150 x 150 mm TABLE SIZE - 400 x 250 x 200 30° TAPER
2) C.N C. EDM -SPARK EROSION MACHINE	CHARMILLES ROBOFORM - 40 CHARMILLES ROBOFORM - 20 AGIE CHARMILLES - FO 23 HSFS	WORKING RANGE - 500 x 400 x 450 mm TABLE SIZE - 700 x 500 mm WORKING RANGE - 300 x 250 x 250 mm TABLE SIZE - 400 x 300mm WORKING RANGE - 350 x 250 x 250 mm TABLE SIZE - 400 x 300mm
3) EDM DRILLING MACHINE	CHARMILLES SH - 2	WORKING RANGE - 200 x 300 x 300 mm TABLE SIZE - 250 x 350 mm
4) C.N.C.5 - AXIS MILLING MACHINE	DECKLE MAHO DMU-50V	CLAMPING TABLE SIZE - 500 x 300 mm WORKING RANGE - 500 (X), 380 (Y), 380 (Z) CAXIS - 360°, BAXIS - 180°
5) C.N.C. MILLING AND BORING MACHINE	MIKRON WF - 52 D MIKRON WF - 32 D DECKEL MAHO DMU - 70 V DECKEL MAHO DMU - 50 T DECKEL MAHO DMU - 70 V BFW BMV - 70 HAAS MILLING VF - 3	WORKING RANGE - 710 x 560 x 560 mm WORKING RANGE - 560 x 500 x 400 mm WORKING RANGE - 700 x 550 x 500 mm WORKING RANGE - 500 x 400 x 400 mm WORKING RANGE - 700 x 550 x 500 mm WORKING RANGE - 1500 x 800 x 800 mm WORKING RANGE - 1000 x 650 x 600 mm
6) C.N C. LATHE	GILDEMEISTER CTX 400 E JYOTI	WORKING AREA - 635 x 220 mm DIA = 420 mm WORKING AREA - DIA = 200 x 350 mm length
7) JIG BORING MACHINE WITH D.R.O.	HAUSER B3 DR	WORKING RANGE - 400 x 250 x 450 mm
8) HIGH PRECISION SURFACE & PROFILE GRINDING MACHINE	JUNG - JF 520	TABLE CLAMPING SURFACE 600 x 200 x 400 mm
9) SURFACE GRINDING MACHINE	ELB OPTIMAL - 4250 ELB OPTIMAL - 8550 PINNACLE - FASGM 15060	WORKING RANGE - 500 x 250 x 300 mm WORKING RANGE - 800 x 550 x 400 mm WORKING RANGE - 1700 x 600 x 600 mm
10) CYLINDRICAL GRINDING MACHINE	RAWEMA SA 5/2U X 100 Q RAWEMA SA 5 X 1000 PRECISION - PMTU - 500 / 200 / H	CENTRE DISTANCE 1000 mm CENTRE HEIGHT 190 mm CENTRE DISTANCE 630 mm CENTRE HEIGHT 140 mm CENTRE HEIGHT 200 mm, Max Grinding L 500 mm, I.D. Grinding 15 - 100mm
11) UNIVERSAL MILLING & BORING MACHINE WITH D.R.O	MIKRON WF - 35A MIKRON WF - 25A UNION KF 5.2 WS BFW KF 5.2 WS	WORKING RANGE 500 x 500 x 380 mm - WITH DRO WORKING RANGE 420 x 250 x 340 mm - WITH DRO WORKING 1220 x 450 x 400 mm - WITH DRO WORKING RANGE 1220 x 320 x 450 mm - WITH DRO
12) PRECISION CENTER LATHE	WEILER COMMODER - B WEILER COMMODER - B HMT NL 22	CENTRE DISTANCE - 1000 mm CENTRE HEIGHT - 180 mm CENTRE DISTANCE - 750 mm CENTRE HEIGHT - 165 mm CENTRE DISTANCE - 1500 mm CENTRE HEIGHT - 220 mm
13) HYDRAULIC HIGH SPEED PRESS	DUNKES HZ 563	PRESSURE - 630 KN DAYLIGHT - 400 mm
14) MICRO PROCESSOR BASED INJECTION MOULDING MACHINE	SIGMA - 80 CINCINNATI MILACRON NN 300 MAFATLAL - NIGATA ASWA 650 TONS L&T MAKE INJECTION MOULDING MACHINE	LOCKING FORCE 80 TONS - Shot Weight - 100 gms. DISTANCE BETWEEN TIE BARS 405 x 360 mm LOCKING FORCE 300 TONS - Shot Weight - 500 gms. DISTANCE BETWEEN TIE BARS 660 x 660 mm LOCKING FORCE 650 TONS - Shot Weight - 4 Kgs. DISTANCE BETWEEN TIE BARS 1000 x 1000 mm
15) PLASMA NITRIDING SYSTEM	MILMAN - PLASMON - 800	VACUUM CHAMBER SIZE - 1 Mtr. Dia X 1 Mtr. Height LOADING CAPACITY - 500 Kg (Subjected to size & shape of jobs)





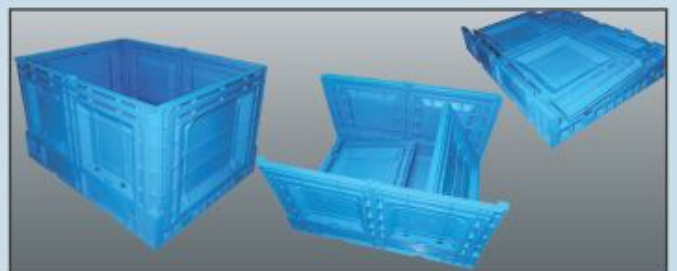
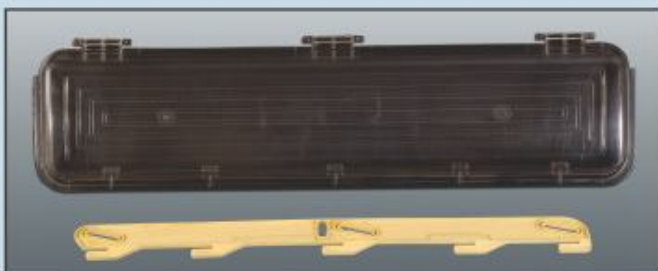
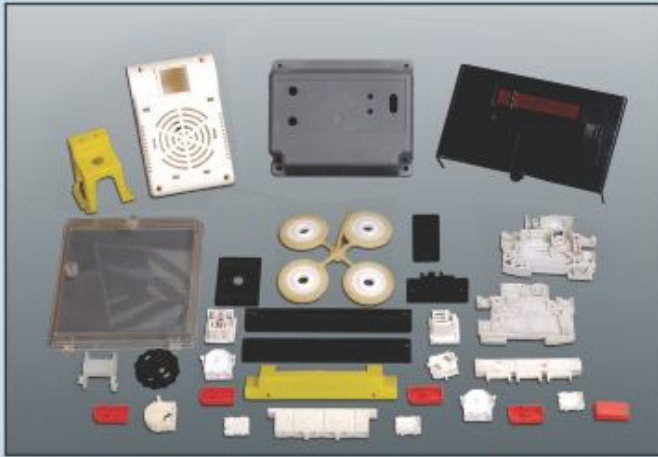
## Production & Tooling Solution

IGTR offers an array of cutting edge production and job-work services to several organizations not only in Gujarat and India, but across the world. The spectra covers the entire range of manufacturing press moulds, tools die casting dies, jigs & fixtures and gauges. IGTR also undertake manufacturing of standard parts, components and carry out precision job work.

IGTR is equipped with the state-of-the-art facilities, all under one roof. The wide range of the latest CNC machines from best of the European make that provides 360 degree solutions to precision machining covering the entire spectrum of tool and die making.











## We Mould Lives

## Training

**The Training Center of Indo German Tool Room, Ahmedabad is committed to develop and supply human resources to cater to the needs of metal, plastic and service industries in the area of tool technology and CAD/CAM/CAE.**

IGTR training centers are well equipped with CNC and Conventional machines that offer Scientifically Designed Long Term, Medium Term and Short Term Technical courses in the field of Tool & Die Technology.

The appropriately designed curriculum ensures maximum blending of both theory and practical with the aid of latest techniques and teaching by qualified and trained teachers.

The training is incorporated into four levels of programmes which are further divided in term courses as Long Term Courses, Medium Term Courses, Short Term Courses, and Vocational Training Courses. The courses duration ranges from six months to four years.

This institute offers courses as re-training for professionals to upgrade their competencies Job oriented courses are also catered to pass-outs of Engineering Colleges, Polytechnics, and ITIs.





### Training enhances the following :

- ✦ Industry based long-term training for Tool & Die makers.
- ✦ Short term training for Managers/Supervisors to upgrade Their knowledge & skills.
- ✦ Medium Term Course for Need based technical training for Skilled workers Tool makers/ Machinist etc.
- ✦ Training for inspection, quality control, testing and maintenance
- ✦ Training in CNC technology & CAD /CAM/ CAE. Reverse Engineering.
- ✦ HRD Programmers for Tool-Room personnel This upgrades their competencies. Job oriented courses are also catered to pass-outs of Engineering Colleges, Polytechnics, and ITIs



**Contact :**

Consultancy & Marketing Department



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**SUB CENTRES :**

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Ahmedabad - 380 014.  
Phone : + 91 - 79 - 2754 2032.

**IGTR - ITI CAD / CAM TRAINING CENTRE**

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Rajkot