



Infrastructure

INDO GERMAN TOOL ROOM

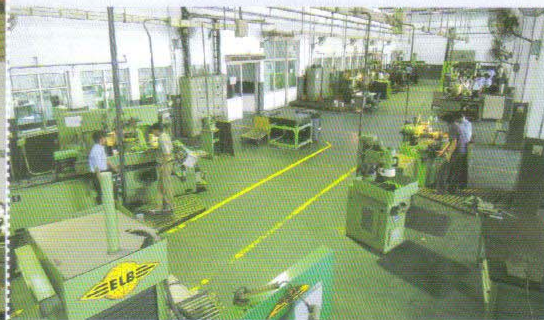
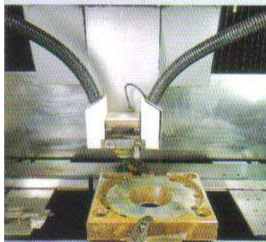
IGTR has state of the art machinery and support facilities as the institution believes in the principle of Total Quality Management. The centre is ISO-9001:2000 certified.

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 PROTOTYPNG

1. Rapid prototyping laser sintering system (SLS system Vanguard HS).
Table Size : 280mm x 330mm, Max. Height : 380mm
2. Vacuum Casting with RTV Molds.



DESCRIPTION	MODEL	SPECIFICATION
1) C.N.C.EDM-SPARK EROSION MACHINE	CHARMILLES ROBOFORM - 40 ROBOFORM - 20	WORKING RANGE - 500x400x450mm TABLE SIZE - 700x500mm WORKING RANGE - 300x250x250mm TABLE SIZE - 400x300mm
2) C.N.C. WIRE CUT SPARK EROSION MACHINE	CHARMILESS ROBOFIL - 510 CHARMILESS ROBOFIL - 290 CHARMILESS ROBOFIL - 190	WORKING RANGE - 1200x700mm TABLE SIZE - 700x400x400mm WORKING RANGE - 850x500mm TABLE SIZE - 400x250x400mm TABLE SIZE - 400x250x200 30° TAPER
3) EDM DRILLING MACHINE	CHARMILESS SH - 2	WORKING RANGE - 200x300x300mm TABLE SIZE - 250x350mm
4) C.N.C.5-AXIS MILLING MACHINE	DECKLE MAHO DMU-50V	CLAMPING TABLE SIZE - 500x380mm WORKING RANGE - 500(X), 380(Y), 380(Z) CAXIS-360°, BAXIS - 180°
5) C.N.C. MILLING AND BORING MACHINE	MIKRON WF - 52D MIKRON WF - 32D DECKEL MAHO DMU - 70V DECKEL MAHO DMU - 50T DECKEL MAHO DMU - 70V HIDYN	WORKING RANGE - 710x560x560mm (HEIDENHAIN - TNC - 415) WORKING RANGE - 560x500x400mm (HEIDENHAIN-TNC - 415) WORKING RANGE - 700x550x500mm (X,Y,Z) WORKING RANGE - 500x400x400mm (X,Y,Z) WORKING RANGE - 700x550x500mm (X,Y,Z)
6) C.N.C. LATHE	GILDEMEISTER CTX 400E	WORKING AREA - 635x220mm DIA. =420mm
7) JIG BORING MACHINE WITH D.R.O.	HAUSER B3 DR	WORKING RANGE - 400x250x450mm
8) HIGH PRECISION SURFACE & PROFILE GRINDING MACHINE	JUNG JF 520	TABLE CLAMPING SURFACE 600x200x400M
9) SURFACE GRINDING MACHINE	ELB OPTIMAL - 4250 ELB OPTIMAL - 8550	WORKING RANGE - 500x250x300mm WORKING RANGE - 800x550x400mm
10) CYLINDRICAL GRINDING MACHINE	RAWEMASA 5/2U X 1000 RAWEMASA 5 X 1000	CENTRE DISTANCE 1000mm CENTRE HEIGHT 190mm CENTRE DISTANCE 630mm CENTRE HEIGHT 140mm
11) UNIVERSAL MILLING & BORING MACHINE WITH D.R.O	MIKRON WF - 3SA MIKRON WF - 2SA UNION KF 5.2 WS HF 3.5 BFW KF 5.2 WS	WORKING RANGE 500x500x380mm WORKING RANGE 420x250x340mm WITH DRO WORKING 1220x450x400mm WORKING RANGE 1220x320x450mm
12) PRECISION CENTER LATHE	WEILER COMMODER - B WEILER COMMODER - B	CENTER DISTANCE - 1000mm CENTRE HEIGHT - 180mm CENTER DISTANCE - 750mm CENTER HEIGHT - 165mm
13) HYDRAULIC HIGH SPEED PRESS	DUNKES HZ 563	PRESSURE - 630 KN DAYLIGHT - 400mm
14) MICRO PROCESSOR BASED INJECTION MOULDING MACHINE	NN 300 MAFATLAL - NIGATA NN 160 ALPHABATTERFIELD SIGMA - 80 CINCINNATI MILACRON	LOCKING FORCE 300 TONS DISTANCE BETWEEN TIEBARS 660x660mm LOCKING FORCE 160 TONS DISTANCE BETWEEN TIEBARS 510x410mm LOCKING FORCE 80 TONS DISTANCE BETWEEN TIEBARS 405x360mm



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