

**Technology Export Development Organisation**

Plot No. 249 F, Sector 18, Udyog Vihar, Phase-IV

**Gurgaon 122015 (Haryana)**

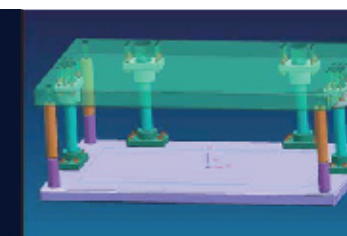
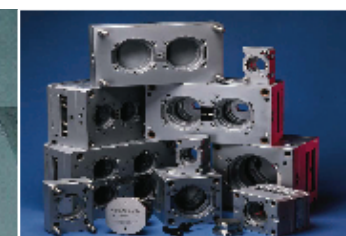
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Toolink



Estb. : 1998



ISO/TS 169949



# Filtrum Tools And Components Pvt Limited

Joint venture with Pleasant Precision Inc. of USA.

### Applications

- Automobile
- Electronics
- Electrical Instrumentation
- Intelligent Toys
- Medical Equipment
- Telecommunications
- White Goods Industry

### Major Achievements

Received direct order from Eaton UK and Blue Scope Steel China Comptit with Chinies supplier in Radiator parts.

### Some of Major Customers

Arya Electronics	Hydroline Products
BEHR India	Minda
Caltherm	Pleasant Precision Inc
Challenge Manufacturing Co.	SM Auto
Electroflux	TATA Auto plastics
Fleetguard Filters Pvt Limited	TATA Ficosa
Gabrial India	TATA Toyo Radiators
Godrej & Boyce Mfg Limited.	Varroc Engineering
Hindustan Aeronautics Limited	

### Infrastructure

#### Manufacturing Location

Five manufacturing units are located in Pune and surroundings.

#### Manpower

Filtrum employs ..... Technical Manpower.

#### Design

- PRO- Engineer (Wildfire 2)
- Unigraphics – NX3 with Mold Wizard

### PRODUCTS AND SERVICES

#### Product Design...

- Visualization & 3D part design
- Raw material selection
- Manufacturing process design and Tolerancing

#### Value Engineering

- Objective focus
- Product study and redesign
- Raw material selection / formulation
- Forming Analysis/Mold flow analysis
- Finite Element Analysis [FEA]
- Manufacturing process design

#### Press Tools / Mould / Jigs & Fixture Design

#### Simulation, Analysis and Trouble Shooting of an existing part

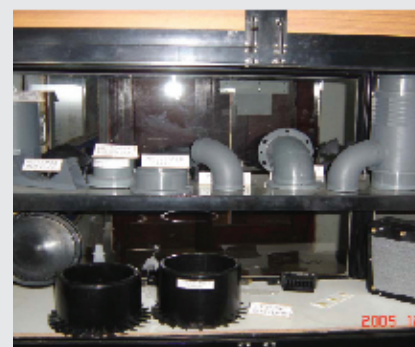
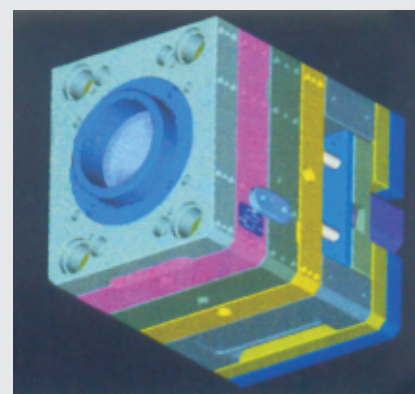
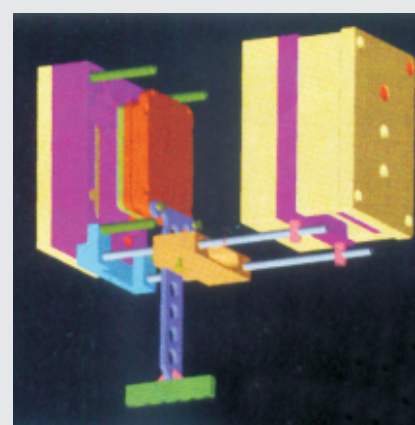
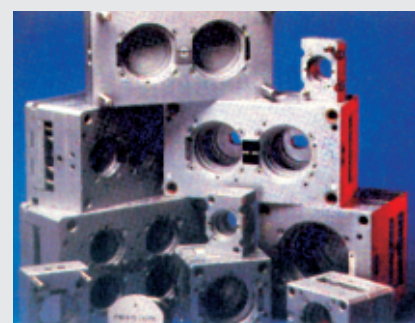
#### Modeling Services - Solid & Surface,

#### Conversion of 2D Drawing to 3D Model & Vice -Versa.

#### Manufacturing of Tools and Moulds upto 1.5 m in length & 300 ton capacity

#### Tool Management Services

- Micro deposition using 'Mould Doctor'
- Tools & Moulds Breakdown Services
- Tools and Moulds Preventive/Periodic Maintenance Services (PMS)
- Tools and Moulds Life Enhancement or Revitalizing Services (LES)
- Uptime Management Services (UMS)



- Mold Flow
- Fast Blank
- Fast Form
- Fast Form Advanced
- Auto CAD 2004
- ftp site for large data transfer

**Manufacturing Facilities**

*Manufacturing Softwares*

- UG-MoldWizard
- Pro Mold Design, Pro Sheet metal

*Machining Softwares*

- VISI-CAD / CAM

**Tool Path Generation for CNC Machining**

*Major Facilities in Tool Room*

- Bed type milling machinery with DRO
- Jig boring facility up to 350mm diameter.
- Universal rotary table
- Surface & bench grinding machines
- Rotary and reciprocating type polishing equipment (Sunher-Switzerland)
- Special fixtures for inlet pipe welding to ensure pre-cleaning efficiency of the air housing.
- Projection welding machine & circle cutting machine
- Special measuring instruments for inspection of critical dimensions

*Tools Management Services*

- Imported micro-deposition facility
- Facility for High Speed Polishing equipment having up to 80,000 rpm.
- Facility for Magna welding by TIG
- Easy availability of other services like CNC, VMC, EDM, etc.
- Materials build up from 50 microns onwards in D2, P20, H11, H13, H55 & their equivalents.

**Financial**

*Turnover*

Year	Turnover (Million USD)
2003-2004	2
2004-2005	3
2005-2006	4.5

**Technology Arrangement**

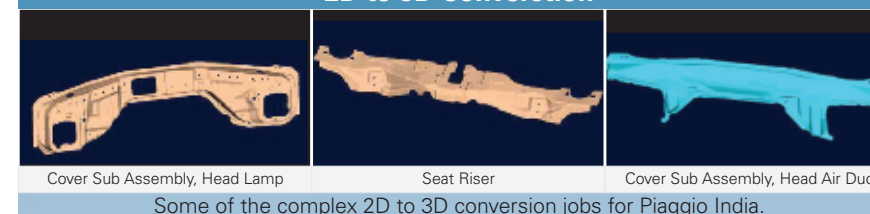
- Joint Venture
- Manufacturing Licence
- Marketing

**Possible Export Potential**

- United States of America
- European Countries
- Asian Countries

**CASE STUDY**

**2D to 3D Conversion**



Some of the complex 2D to 3D conversion jobs for Piaggio India.

**Surfacing Assignments**

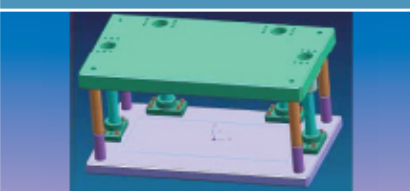


Some of the complex surfacing jobs for Mahindra & Mahindra

**Standardization in die sets for TTR**



**By doing so, the advantages as follows**



1. Shut height is standardized to suit their presses,
2. Misumi pillars and ball cages,
3. Locators at the back for easy alignment on the press,

1. Design time reduced drastically from 1 week to 3 days,
2. Only the working area and elements like punch, die etc need to be designed & modified,

