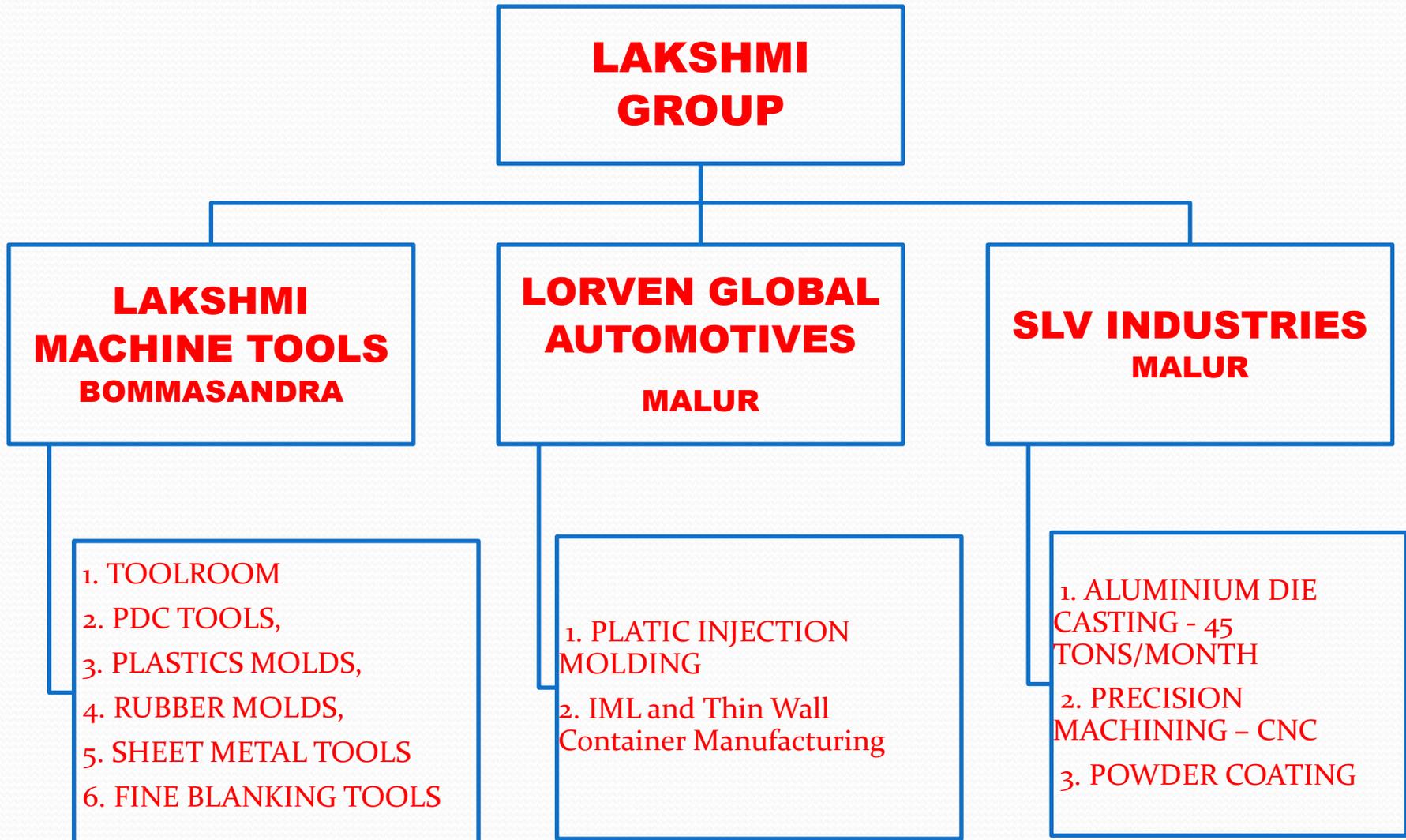


# WELCOME TO LAKSHMI GROUP





# INTRODUCTION





# INTRODUCTION



**Mr. Sidda Reddy, a visionary technocrat founded Lakshmi Machine Tools at Bommasandra, Bangalore in 1997 for producing Dies, Molds, machined components and related tooling's, etc. Later started SLI & SLV Industries**

## ABOUT US

▶ UNIT-1 Bangalore, Started in the year 1997

**Main Products :** Pressure Die Casting Tools, Proto Parts Manufacturing, Fine Blanking Tools, Press Tools, Plastic Injection Moulds, Rubber Injection Moulds, Component production.

▶ UNIT-2 –Malur, Karnataka Started in the year of 2005 at Bommasandra later shifted to Malur in 2015

**Main Products :** Die Casting components, with Powder Coating Facility.

▶ UNIT-3 Malur, Started in the year 2024

**Main Products :** Plastic Injection Parts to Automobile Industry, IML and Thin Wall Containers used in Food Package Industry.



We are one of the reliable ISO certified manufacturers and suppliers of Aluminium Pressure Die Casting Tools & Components, Fine Blanking Tools, Plastic Injection Moulds & Components, Rubber Injection Moulds, etc.,. We also offer Proto Samples, CNC, VMC, Turning & EDM Wire Cutting Job Works to our clients. We also offer CMM Job Work Services for product inspections, Reverse Engineering etc.,. Our product and service range is heavily demanded in numerous application areas such as aero-space, automobile, defence, medical equipment, agricultural equipment Food Package Industry and is widely appreciated for high performance, dimensional accuracy, high precision and unmatched productivity:



# INTRODUCTION



## TOOL ROOM UNIT:

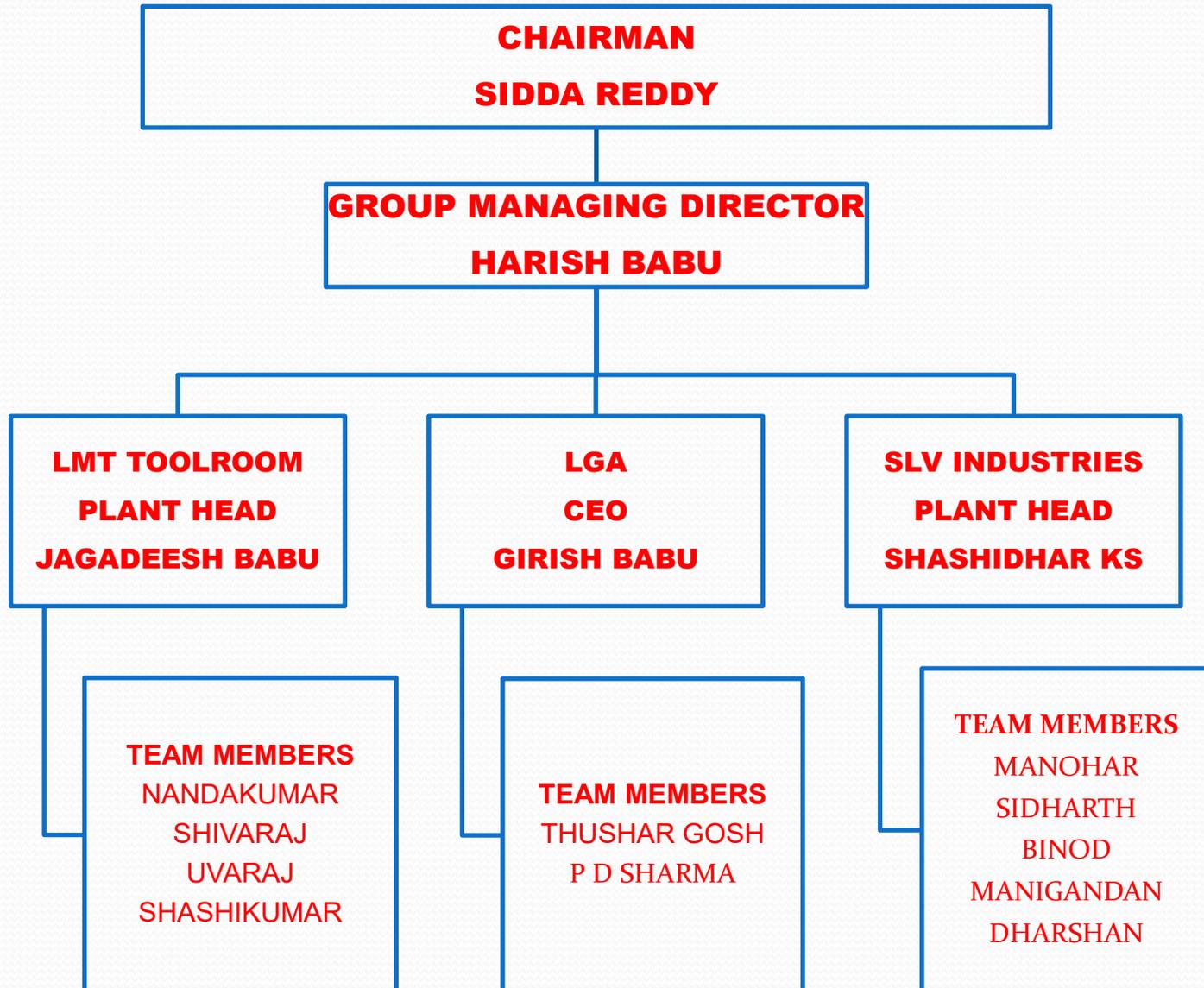


## DIE CASTING & MOULDING UNIT:





# ORGANIZATION STRUCTURE



# INTRODUCTION TO UNIT CAPACITY

<b>Details</b>	<b>Unit-1-ALL TYPE TOOLS, ALL TYPE PROTO PARTS&amp; PRODUCTION</b>	<b>Unit-2-ALU DIE CASTING</b>	<b>Unit-3-PLASTIC MOULDING</b>
<b>Work Force</b>	<b>60 *</b>	<b>180 *</b>	<b>20 *</b>
<b>Languages</b>	<b>English</b>	<b>English</b>	<b>English</b>
<b>Number of Shifts</b>	<b>3</b>	<b>3</b>	<b>3</b>
<b>Current production capacity utilization</b>	<b>50%</b>	<b>80%</b>	<b>40%</b>
<b>Land size (m<sup>2</sup>)</b>	<b>900 sq.m</b>	<b>61800 sq.m</b>	<b>18000 sq.m</b>
<b>Building size (m<sup>2</sup>) Manufacturing Area</b>	<b>800 sq.m</b>	<b>2500 sq.m</b>	<b>1800 sq.m</b>
<b>Quality Certification</b>	<b>ISO 9001:2015</b>	<b>ISO 9001:2015</b>	<b>To be done</b>
<b>Environmental Clearances</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>
<b>ERP Capacity</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>

# WHY WE

We involve from product development till supply of finished product delivery and continuation of mass production under one roof



## Customer Assistance

Ensuring all benefits of die casting / molding process are delivered by involving ourselves from customer's product design and manufacturing feasibility study phase



## Knowledge and Process Integration

Integrate our knowledge in tool design & manufacturing, machining and tailor our processes to suit the end product



## Precise Capability

Ability to cast, mold precise tolerances including critical side cores and lifters which results in minimizing the need for secondary processes



## Process Capability

All major secondary processes are done in-house by implementing process automation methodologies

## Capable of migrating from "Build to print" to "Build to specifications"

Well staffed Design section supported by latest Software for design and manufacturing processes.

Complete **DFM (Design Feasibility for Manufacturing)** study is carried out for all new parts before commencing production.

# ENGINEERING STRENGTH

## NEW PRODUCT DEVELOPMENT

We carry out intensive development work to understand the varied requirements of our clients and offer them innovative solutions to meet and exceed their expectations. Having a separate development team that is manned by qualified and experienced professionals we are in a journey to concentrate more on upcoming technologies in manufacturing. Everyone at our organization are open to new ideas, innovations, concepts and work towards product improvisation.



# OUR STRENGTHS & SKILLS

- 20 Plus years of experience in manufacturing of Die casting tools, Plastic injection moulds, Rubber injection moulds, Fine blanking tools, Press tools, Jigs & Fixtures, Mass production part manufacturing.
- Manufacturing feasibility for all type of components, Estimation and costing, Proto type parts manufacturing, VA/VE and Process knowledge
- Hands on experience in all types of CNC, Conventional machines and Tooling's
- Knowledge in PPAP, APQP, Customer based standards / materials like M&M, HMSI, HCIL, TKML, FORD, TATA, REML, YAMAHA, GFT, NISSAN, MSIL, etc.
- In house CAD – CAM facility with skilled and trained experienced tool designers
- Experienced highly skilled young talented team for execution of projects on QCD methodology
- Industry expansion vision and 15.5 acres land available near to Narsapura industrial area, Kolar, Karnataka for expansion

## Team Skill

- **Manufacturing Feasibility Study and alternate VA/VE Proposal.**
- **Knowledge in Reverse Engineering & Proto Sample Development**
- **Estimation & Costing**
- **Process Design & APQP & PPAP Documentation**
- **Tool Design & Manufacturing**
- **3D Modelling**
- **Knowledge on Product design and GD&T**
- **Knowledge on customer standard's**
- **Production Engineering**

## Team Strengths:

- **Strong, Rigid and Customer friendly team work**
- **Strong communication for smoother work flow**
- **Rigorous follow up to meet the time lines**

# SCOPE

## OUR SCOPE OF WORK:

**DESIGN / TOOLROOM** – DIE CASTING TOOLS, FINE BLANKING TOOLS, PLASTIC INJECTION MOLDS, RUBBER INJECTION MOLDS, PRESS TOOLS, IML & THINWALL CONTAINER PLASTIC INJECTION MOLDS.

**DIE CASTING TOOLS & COMPONENTS**

**FINE BLANKING TOOLS** – Manufactured as per customer design

**PLASTIC INJECTION MOLDS & COMPONENTS**

**RUBBER INJECTION MOLDS** – Manufactured as per customer design

**PRESS TOOLS & COMPONENTS**

**IML & THINWALL PLASTIC CONTAINER MOLDS**

**MACHINED COMPONENTS**

**PROTO PROJECTS** - CASTING, SHEET METAL, PLASTICS, RUBBER & MACHINED PARTS)

**CMM INSPECTION JOB WORKS**

**APQP & PPAP, ESTIMATION & COSTING PROJECTS**

**OE FORMAT DOCUMENTATION**

# TOOL ROOM FACILITY

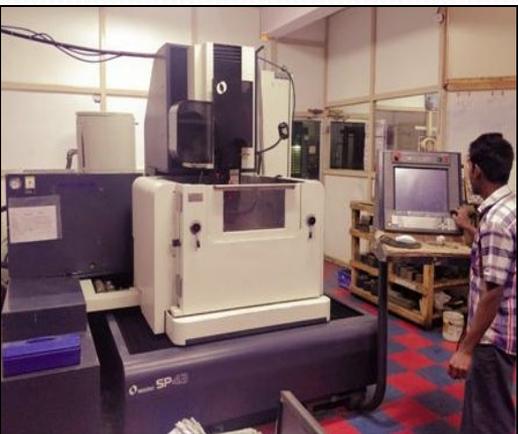
We have developed a state-of-the-art manufacturing facility that is technologically upgraded and fully installed Machine Shop. In addition, it is managed by a team of professionals who are experts in their respective domains. The machinery installed at our premises is tested for efficiency and performance. With the use of latest machinery and technology, we are able to maintain a rapid rate of production along with flawless quality.

Some of the machines used in the manufacturing process are as follows:

<b>CNC SHOP :</b>			
<b>Sl. No.</b>	<b>Description</b>	<b>Make</b>	<b>Qty (Nos)</b>
1	CNC Vertical Machining Machine - Bed movement size - 650x500x 500mm	MAKINO S-33	1
2	CNC Vertical Machining Machine - Bed movement size - 1000 x 650 x 650	BFW - BMV 60 & BMV 40	2
3	CNC Vertical Machining Machine - Bed movement size - 650x500x 500mm	MAZAK	1
4	EDM Wire Cutting Machine - Bed movement size - 600x480x500mm	MAKINO-2 / ELECTRONICA -1	3
5	EDM Spark Erosion	ELECTRONICA & CNC	3
<b>Machine Shop:</b>			
<b>Sl. No.</b>	<b>Description</b>	<b>Make</b>	<b>Qty (Nos)</b>
1	Universal milling machine	BFW / HMT / HURON	3
2	Milling machine with DRO	MNTR	1
3	Lathe - Size 1meter x 480mm / 1 meter x 400mm	Kirloskar Enterprise	2
4	Surface grinding machine - Size 500mm x 1000mm	Elb Automatic	3
5	Cylindrical grinding machine - Size 450mm x 250mm dia	Cincinnati / Parishudh	2
6	Radial Drilling Machine	Cipat	1
7	Drilling Machine - Pillar Type - 1 inch capacity		2
8	Laser Engraving		1
9	Generator - 125 KVA		1
10	Screw Type Compressor - 15 kg capacity	Elqi	2

# PRECISION CNC MACHINE SHOP

We offer quality precision CNC machined products for electronic, automotive, aerospace and other applications in various finest grade materials such as brass, aluminium, stainless steel and many others. We undertake job works for CNC Turning, CNC Vertical Machine Centre, CNC EDM Wire Cutting, Spark Erosion, Surface Grinding, Cylindrical Grinding, Laser engraving & CMM Inspection to our clients. We have deployed a team of highly skilled programmers and operators to offer highly effective solution to our clients. CNC wire cut job works of high precision tools & components are carried out using 0.1mm wire diameter to 0.25mm wire diameter.



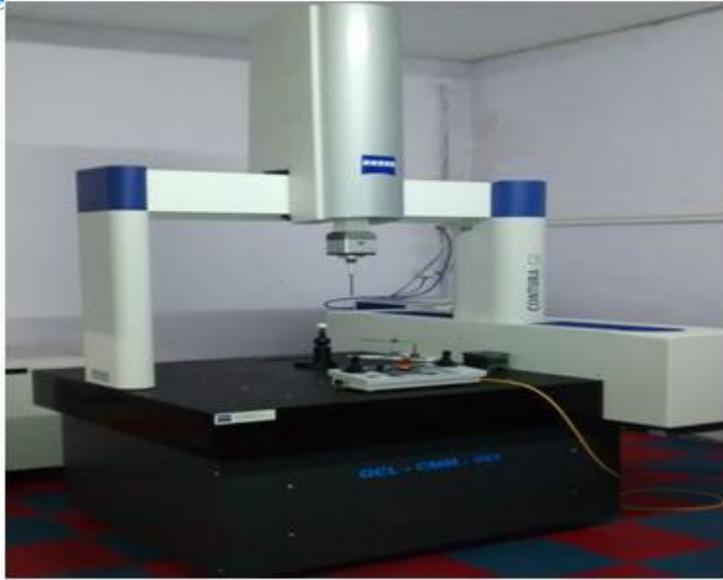
# PRECISION CNC MACHINE

## Laser Engraving Machine



Newly purchased laser engraving machine to meet the increasing demand in one of our customer tooling's

# CMM & INSPECTION FACILITY



**Make: ZEISS**

**Model: Zeiss - Contura G2 AKTIV 700**

**Table Size: 700 x 700 mm**

**Capability: Programmed measurements**

**Profile tracing**

**CAD generation of traced profile**

**We undertake job works of part / product inspection, reverse engineering supports to build models from physical parts**

SL. No.	Name of the Instruments	Qty (Nos)	Range (mm)	Make	Least Count (mm)
1	CMM Zeiss - Contura G2 AKTIV 700	1	700 x 700	Zeiss	N.A
2	Digital High Gauge	1	0 to 300	Mitutoyo	0.01
3	Digital Micro Meter	1	0 to 25	Mitutoyo	0.001
4	Micro Meter	6	0 to 300	Mitutoyo	0.01
5	Digital Vernier Caliper	6	0 to 300	Mitutoyo	0.02
6	Vernier Caliper	1	0 to 600	Aero Space	0.02
7	Bore Gauge	2	17 to 60 / 60 to 300	Mitutoyo	0.01
8	Plunger Dial	2	.01 - 10	Baker	0.01
9	Lever Type dial	4	0 - 10	Mitutoyo	0.01
10	Surface Table	2	1200x730x150	GMT	-
11	Tungsten Carbide Slip Gauge	1 Set	1-100mm		Grade - " I "

# DIE CASTING FACILITY

We manufacture and supply aluminium pressure die casting components which are used in aerospace industry, automobile industry, lighting Industry etc,. Our professionals have complete knowledge in manufacturing and supplying of aluminium die casting components as per Customer specific needs. Utmost care is taken in ensuring that product easily meets the required standards.

Below are the list of machines we have in-house

<b>CNC Turning centre</b>				
<b>SL</b>	<b>Machine description</b>	<b>Make</b>	<b>Rating/Capacity</b>	<b>Qty (Nos)</b>
1	CNC Turning Machine	JYOTHI	200 mm	1
2	CNC Turning Machine	HASS	160 mm	3
3	CNC Turning Machine	LMW	160 mm	2
<b>PDC</b>				
1	Aluminium Pressure Die Casting Machine	WELLISH – Fully Automatic	200 Tons	2
2		WELLISH – Fully Automatic	140 Tons	2
3		TOYO	125 / 350 Tons	3
4		HMT	120 Tons	1
5		FLOROSIL	120 Tons	2
6	Aluminium Melting Cum Holding Furnace	SILICARB	70 KW	1
7		SILICARB	30 KW	4
8		YASHAS ENGINEERING	30KW / 45KW	3
9		SKR ENGINEERS	30KW	3
10	Trimming Press	National / SPM	10 / 15 Nos	7
11	Drilling Machine	ITCO / DMP / HI FINE / SONOX	1mm – 25mm	30
12	Linishing Machine	Jai industries	1 HP /3Ph	7
13	Tapping Machine	RV Machine tools / PILOT	12 mm	5

# DIE CASTING FACILITY

<b>CNC Turning centre</b>				
<b>SL</b>	<b>Machine description</b>	<b>Make</b>	<b>Rating/Capacity</b>	<b>Qty (Nos)</b>
14	Alkaline Heating Bath	SPM	2Kw	1
15	Hot Dryer	SPM	6KW / 1HP	1
16	Turning Centre (Guide Cap)	SPM		1
17	Multi Station Tapping Cum Turning machine (HL CAP)	SPM		1
18	Multi cavity Twin Hole Drilling Machine (S Stator)	SPM		1
19	Multi Hole Drilling SPM (N251 Body)	SPM		1
20	Multi Hole Drilling SPM (Jupiter Body)	SPM		1
21	Tapping SPM (N251 Cap Body)	SPM		1

# DIE CASTING UNIT



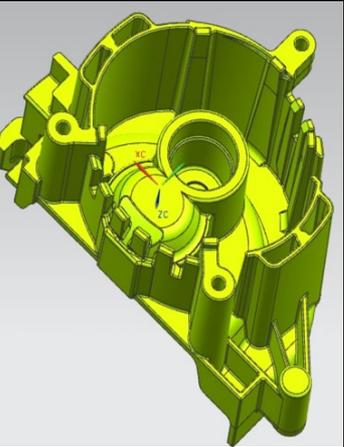
# PLASTIC INJECTION MOLDING UNIT

SL	Machine description	Make	Rating/Capacity	Qty (Nos)
1	FULLY AUTOMATIC HIGH SPEED INJ MOLD MACHINE	HAITIAN MA/H 380 WITH ROBOT	380 TON	1
2	FULLY AUTOMATIC HIGH SPEED INJ MOLD MACHINE	EUROTECH WITH ROBOT	320 TON	1
3	FULLY AUTOMATIC HIGH SPEED INJ MOLD MACHINE	EURO TECH WITH IML ROBOT	300 TON	1
4	FULLY AUTOMATIC HIGH SPEED INJ MOLD MACHINE	EUROTECH WITH ROBOT	180 TON	1
5	INJECTION MOLDING MACHINE	EUROTECH	125 TON	1
6	HIGH SPEED 4 COLOUR OFFSET PRINTING MACHINE	MACENZ	4 COLOUR	1
7	COMPRESSOR	SMART/KVGHL-10 SCREW TYPE	10 Kg	2
8	CHILLER	GEM CHILL / DRYCOOL	15 TR /20TR	2
9	MIXER	HYNAAR	100 KG	1

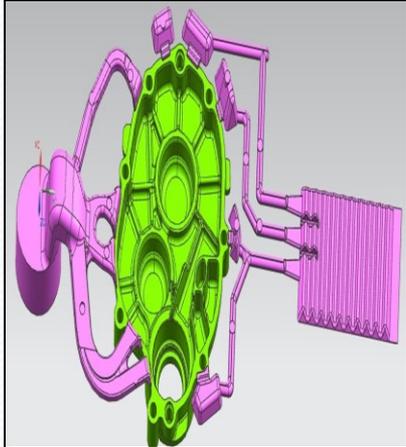
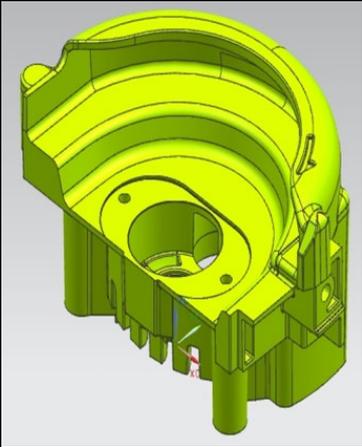
# PLASTIC INJECTION MOLDING



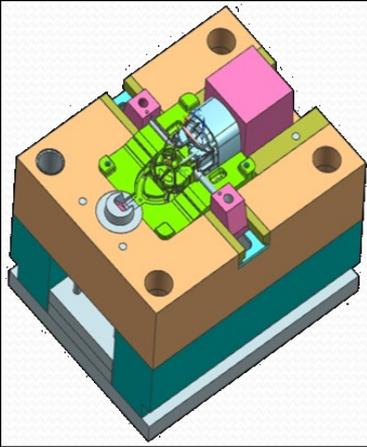
# DIE CASTING DIES



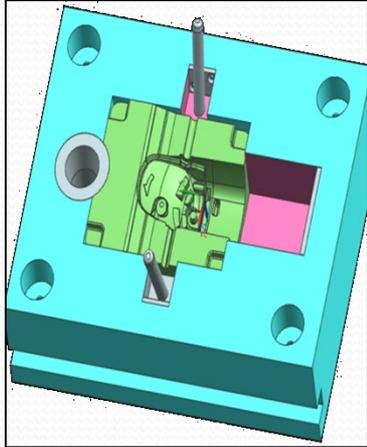
**Gear cover component**



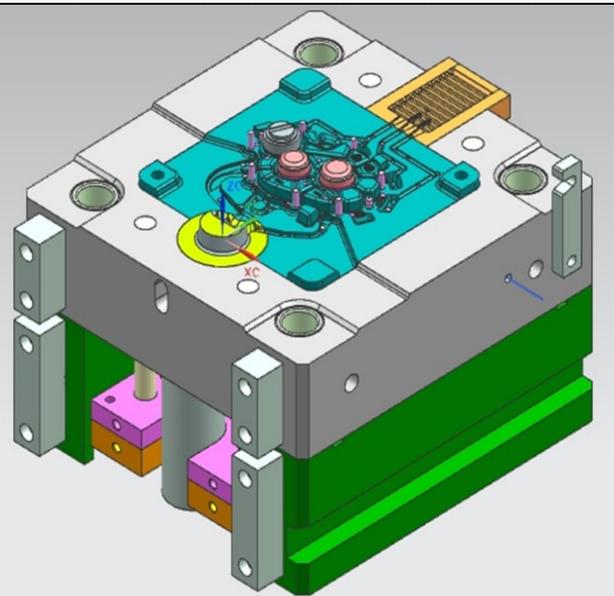
**Gear cover component with feed system**



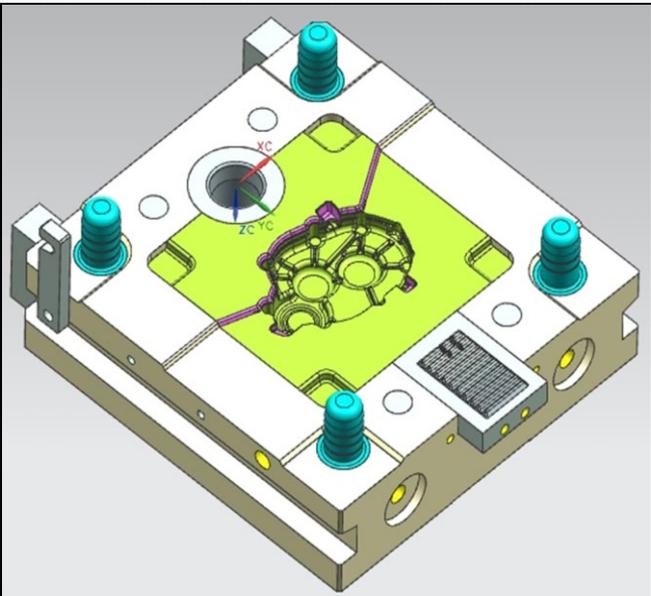
**Hitachi body ejection half**



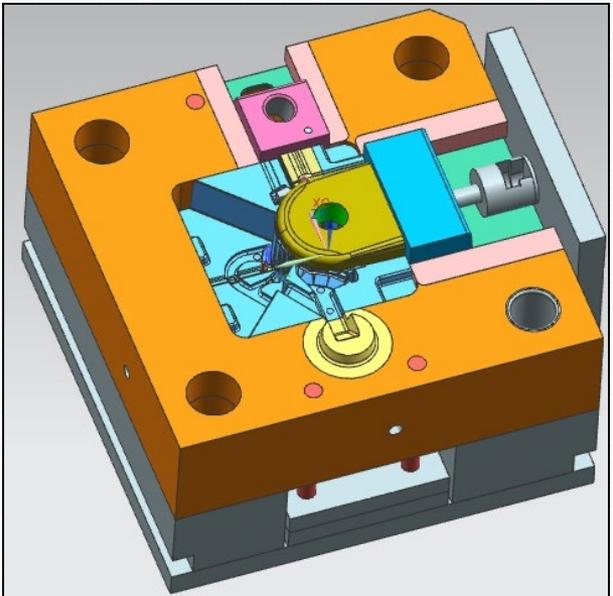
**Hitachi body cover half**



**Die casting Tool- Gear Cover**

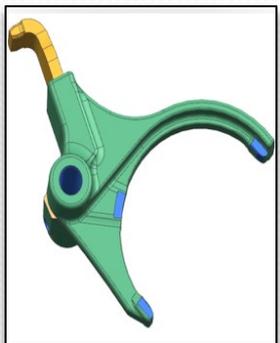
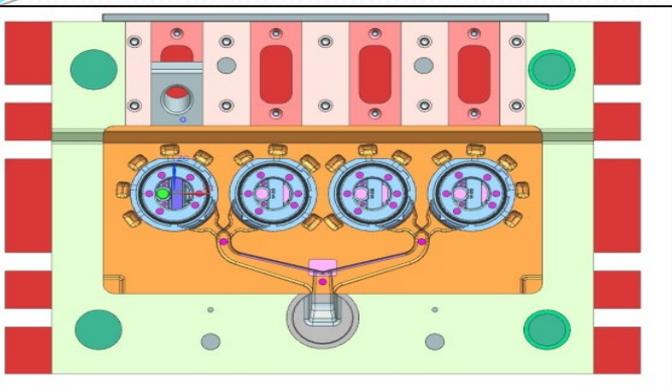


**Gear Cover die - Cover half**

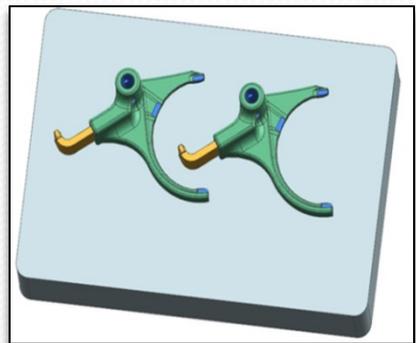


**Gear cap die - ejection half**

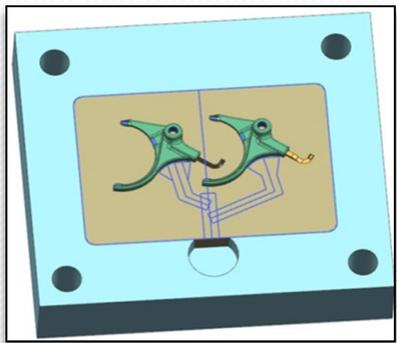
# DIE CASTING DIES



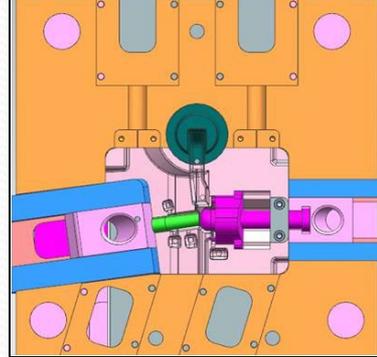
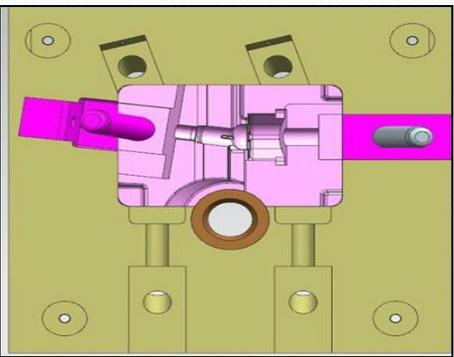
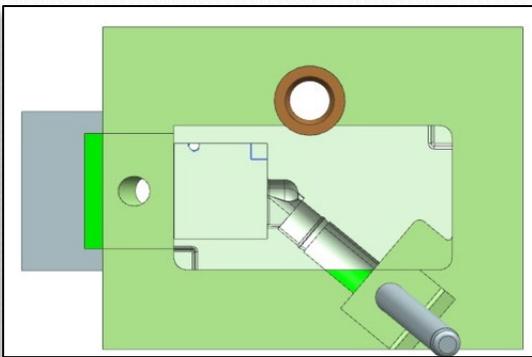
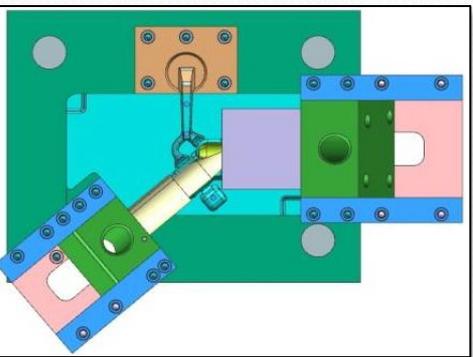
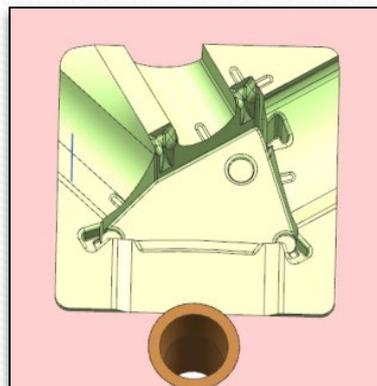
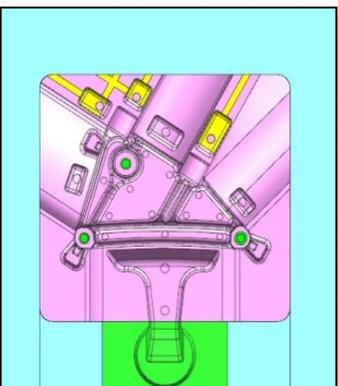
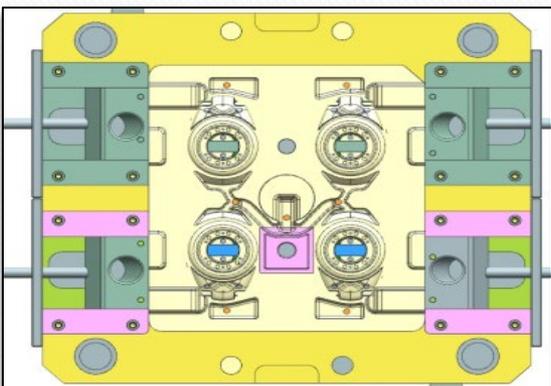
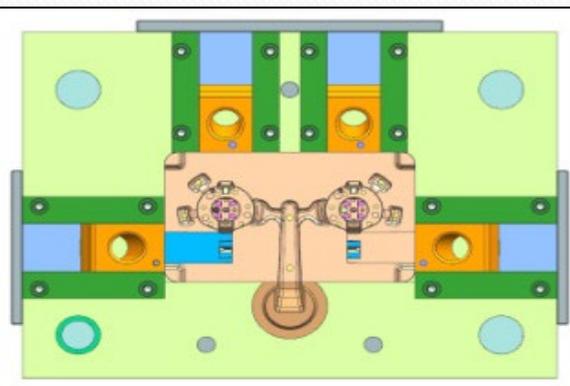
Reverse Fork



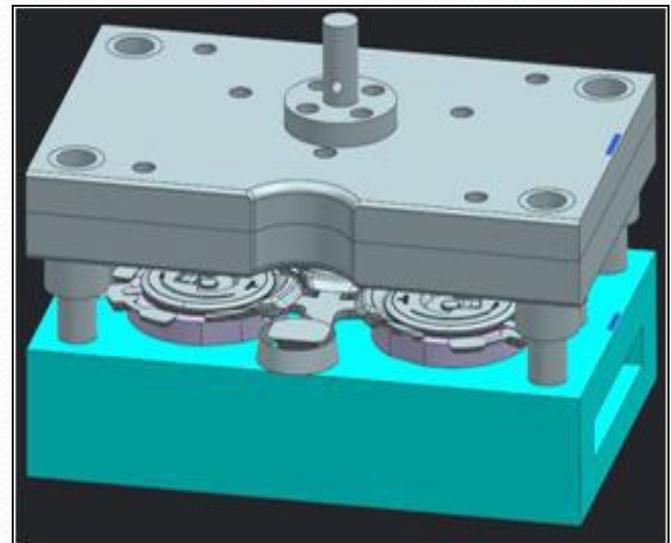
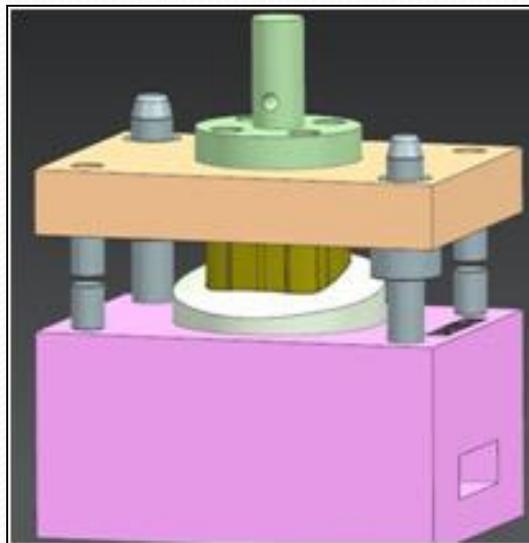
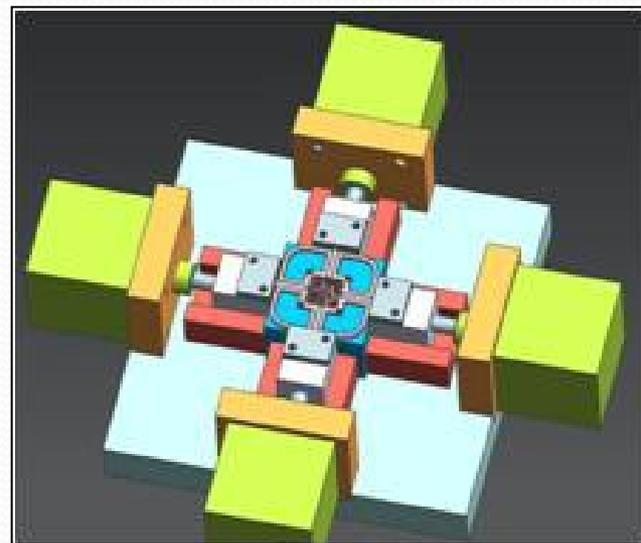
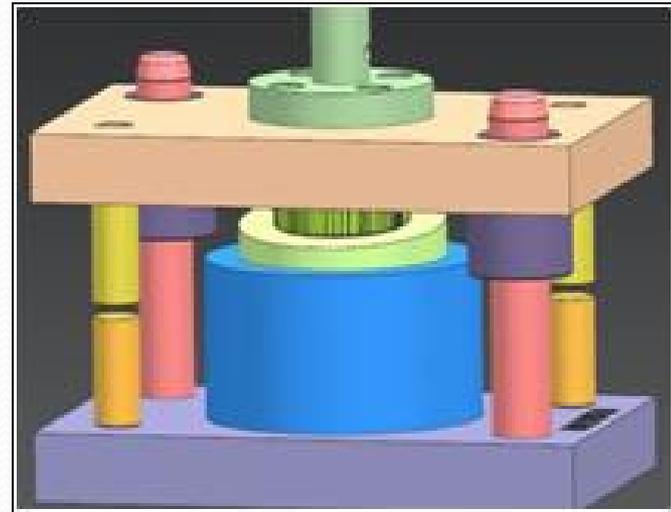
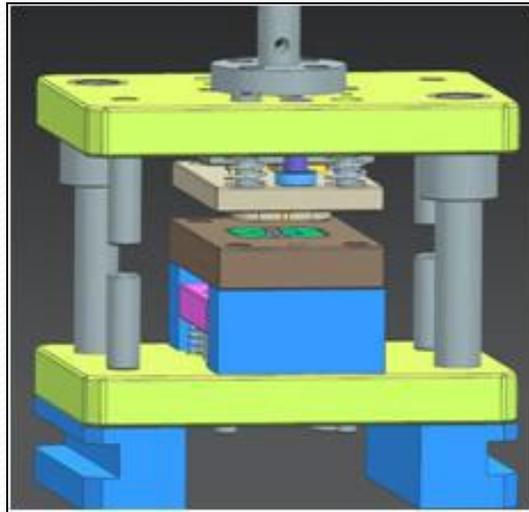
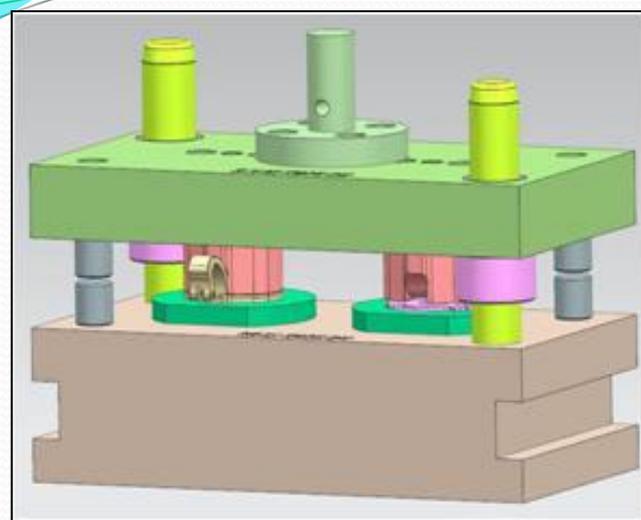
Die Layout



Feed System Layout

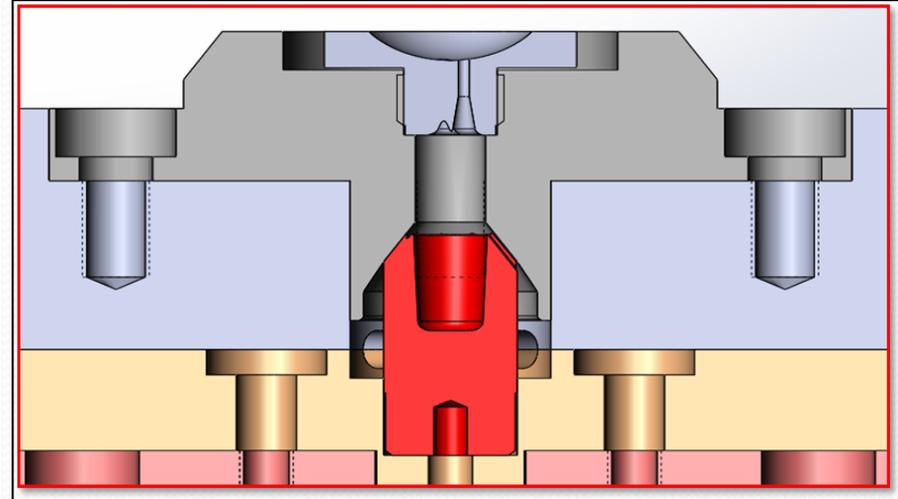
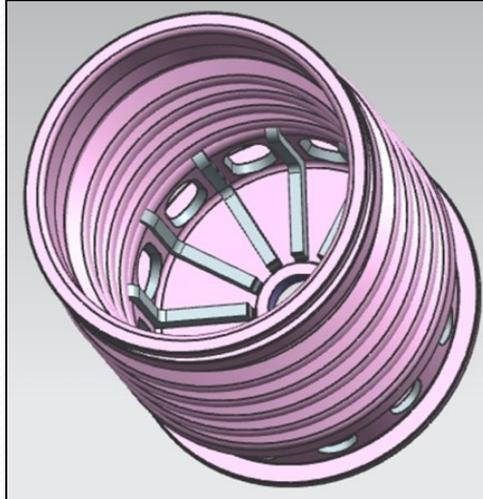
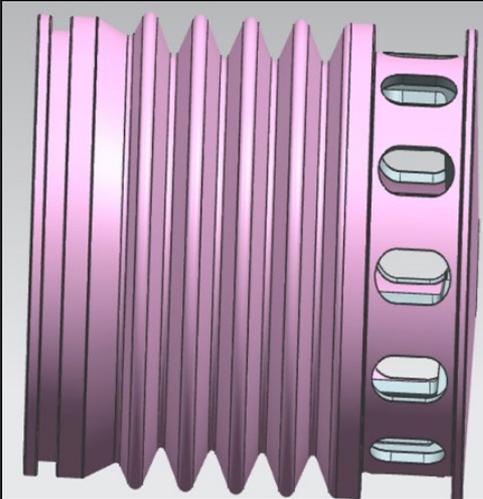
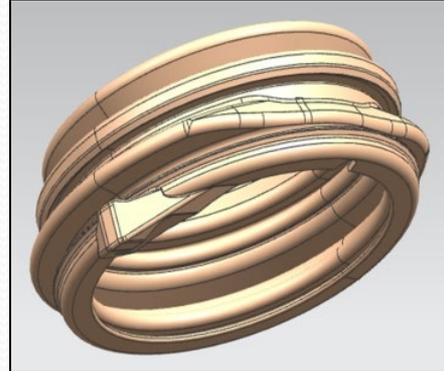
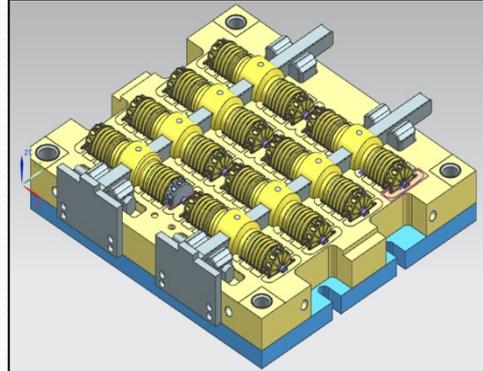
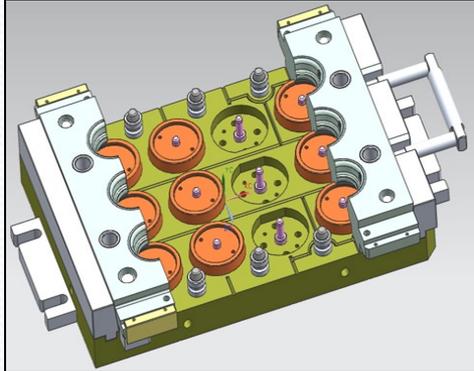
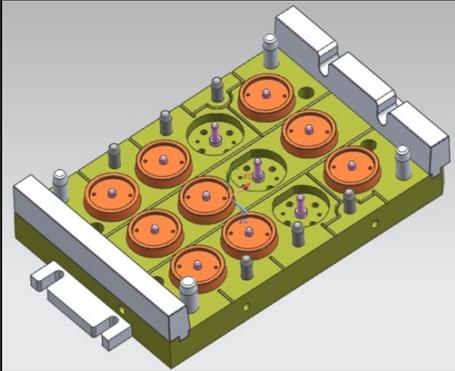
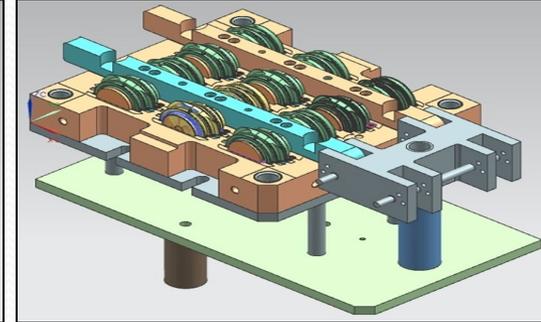
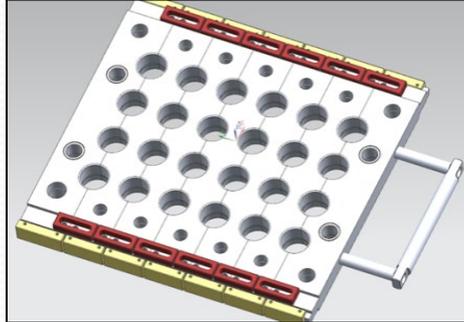
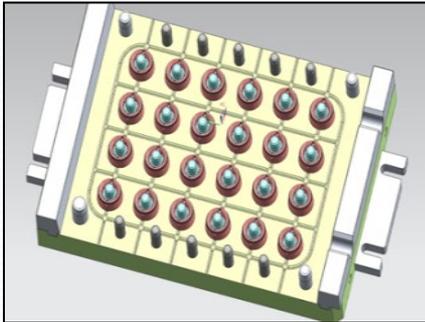
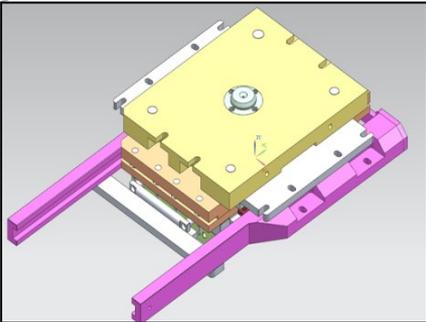


# PRESS TOOL DESIGN



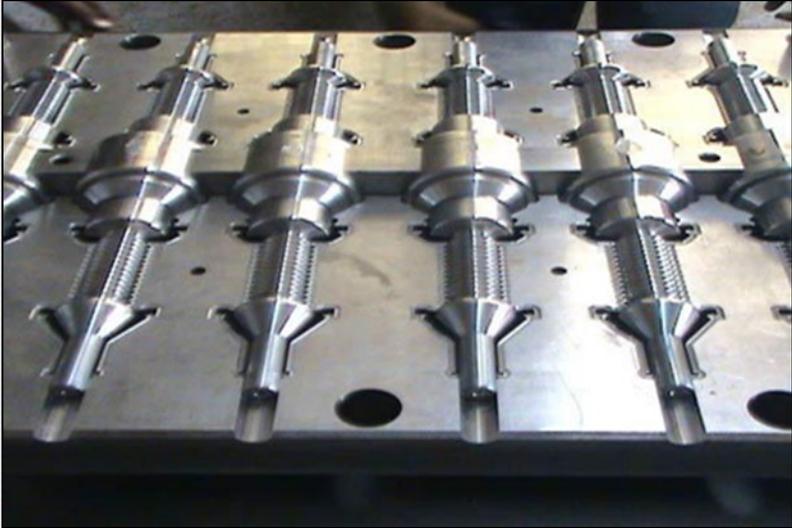
**SECONDARY TRIMMING TOOLS DEVELOPED FOR DIE CASTING POST PROCESSING**

# RUBBER INJECTION MOLDS

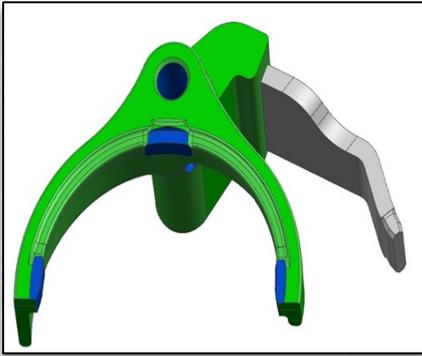


# RUBBER MOLDS & COMPONENTS

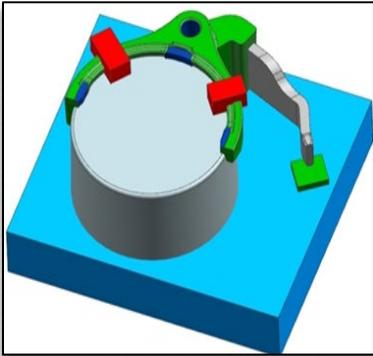
We manufacture and supply a wide variety of Rubber Injection Moulds & also offer customized solution to our valuable customer at highly economic prices to meet their needs and requirements. Rubber Injection Molds are developed in-house under the supervision of highly experienced professionals. From the design till part approval team LMT will be behind all activities including tryouts at customer places and support till part approval. Further during production run the tools are maintained by team LMT as per the customer requirement.



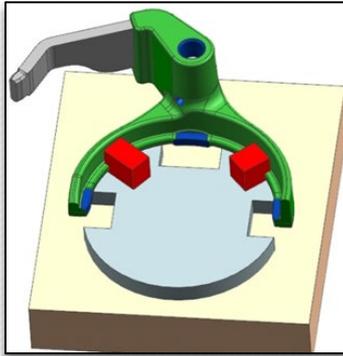
# MACHINING FIXTURES DESIGN



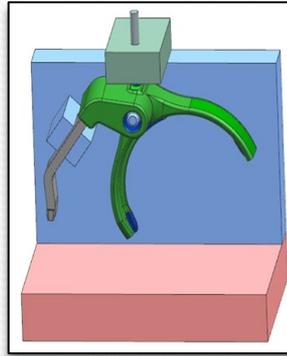
**Reverse Fork**



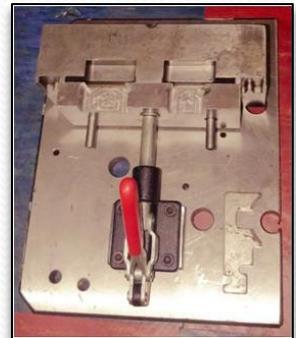
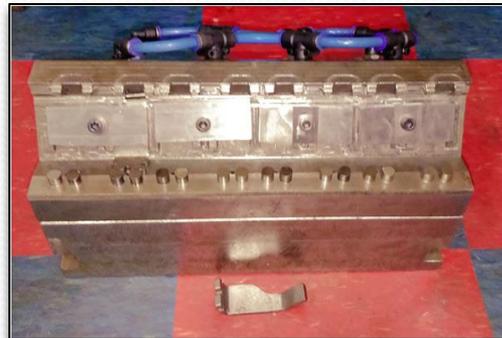
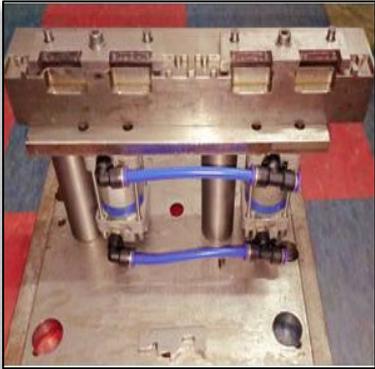
**Machining Fixture  
- I Setting**



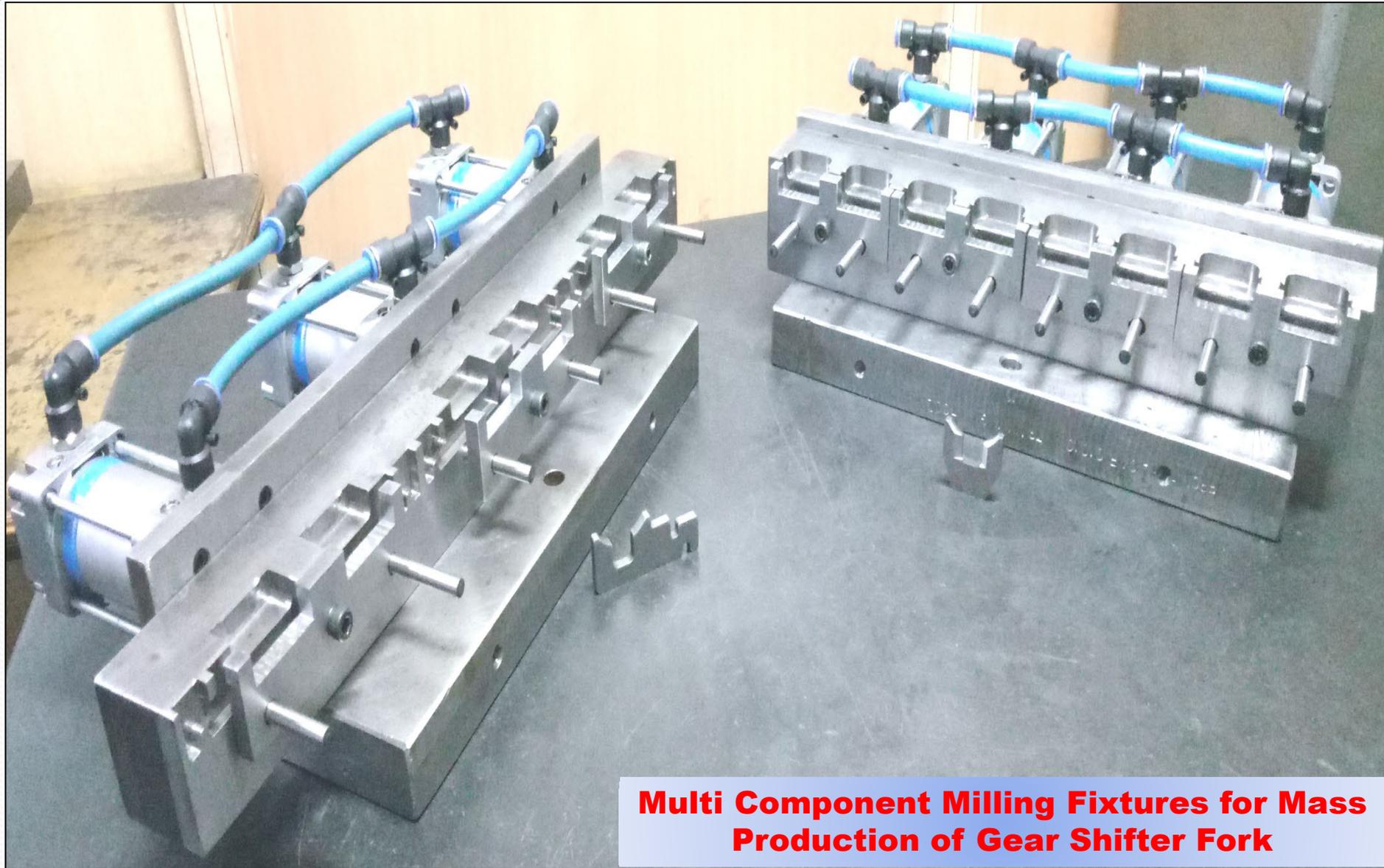
**Machining Fixture -  
II Setting**



**Fixture - Drill  
& Ream**



# **MACHINING FIXTURES DESIGN & DEVELOPMENT**



**Multi Component Milling Fixtures for Mass Production of Gear Shifter Fork**

# FINE BLANKING TOOL DEVELOPED



**Fine Blanking tools developed as per customer tool design. Responsible till sample approval**

# ALUMINIUM DIE CASTING PARTS



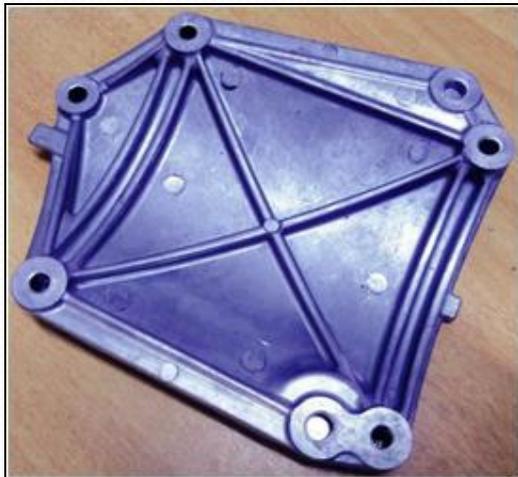
**COVER SHIFT  
M&M**



**THERMOSTAT HOUSING  
M&M**



**BRACKET STEERING  
PUMP - M&M**



**BRACKET AC  
COMPRESSOR - M&M**

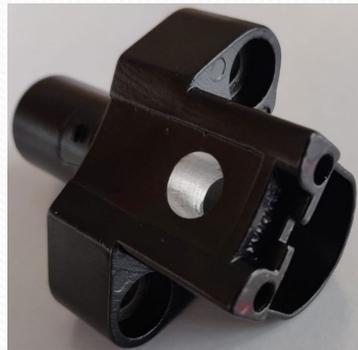
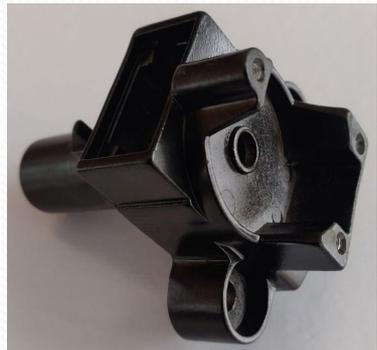


**DIPOLE  
ROSENBERGER**



**FUEL CAP BODY  
SANDHAR → TVS**

# POWDER COATED ALUMINIUM DIE CASTING PARTS - FUEL TANK CAP, FUEL TANK CAP BODY, IGNITION STATOR



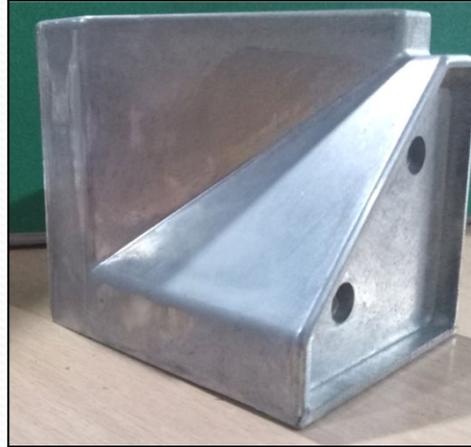
# ALUMINIUM PRESSURE DIE CASTING COMPONENTS



# ALUMINIUM PRESSURE DIE CASTING COMPONENTS



# ALUMINIUM PRESSURE DIE CASTING COMPONENTS



**Design team at LMT continuously studies on various feed system designs and develop the optimum design in terms of quality and productivity**

# SHEET METAL PARTS & SUB ASSEMBLY

## DETENT ASSEMBLY P405 MODEL FOR MAHINDRA;

Supplies through LUMAX INDIA is the first sheet metal sub assembly project developed by SLV in the year 2020 – 2021. Mass production started since Feb 2021. Child parts being procured from different vendors and assembly is carried out in house. 100% Load testing is introduced to ensure ZERO defect part supply to customer.

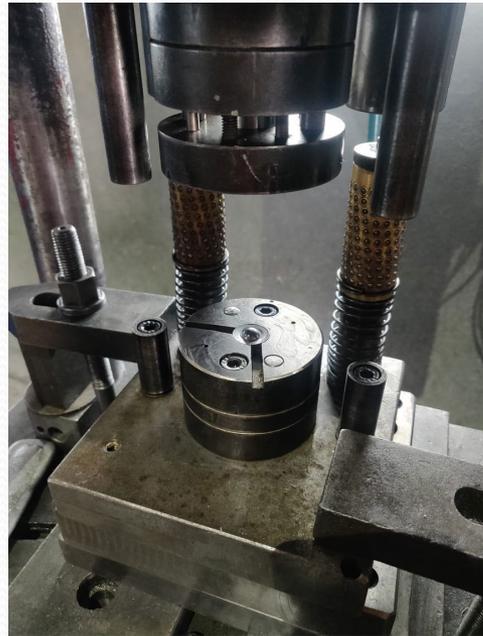


### 1. Child Parts

- Detent cage
- Spring
- Ball

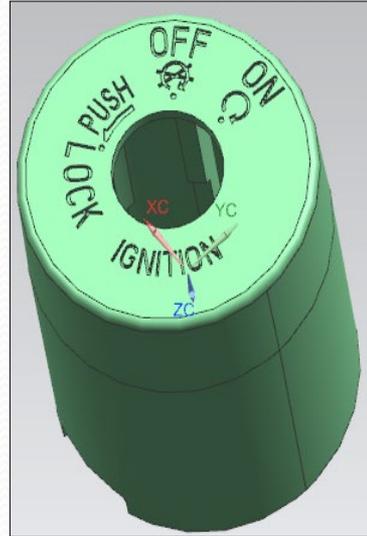
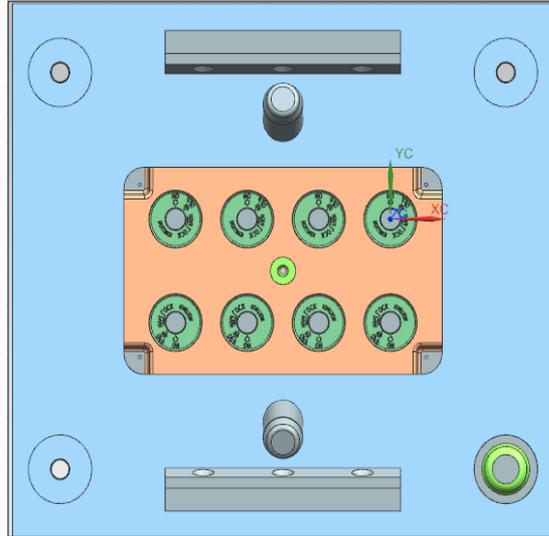
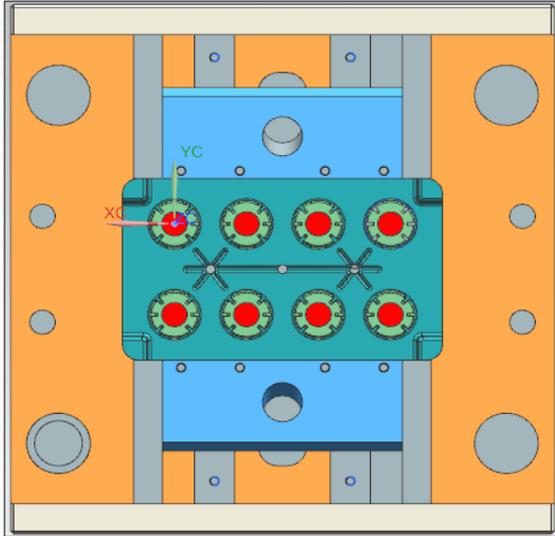
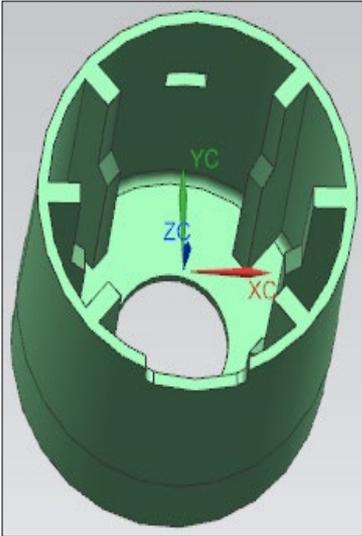
2. Assembled and crimped in a 10 Ton press

3. Load test is done on every part to ensure no functional failure happens

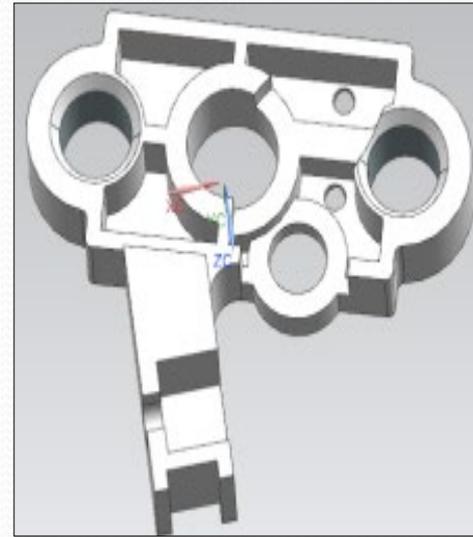
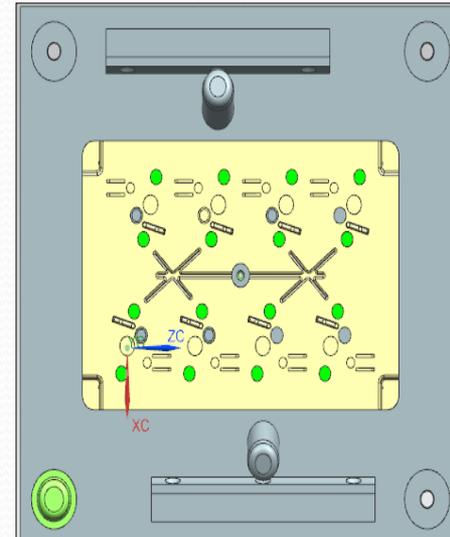
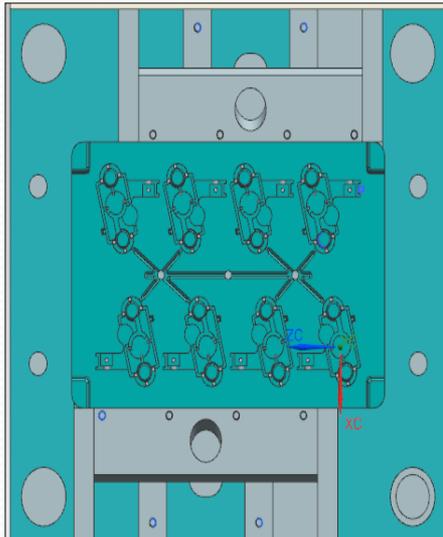
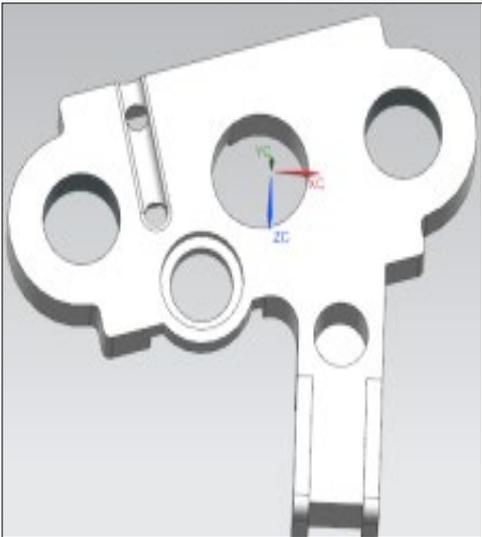


Detent assembly load testing machine developed by SLV

# INJECTION MOLD DESIGN



**Ignition Key Cap 8 Cavity Mould**



**Body Latch 8 Cavity Mould**

# IML & THINWALL CONTAINERS



# PLASTIC INJECTION MOLDS & COMPONENTS

We manufacture and supply a wide variety of Plastic Injection Moulds & components & also offer customized solution to our valuable customer at highly economic prices to meet their specific needs and requirements. Plastic Injection Moulds are designed & developed in-house under the supervision of experienced professionals. Moulding setup is equipped with all necessary machinery and manpower in house for complete injection moulding and post processing requirements.



# OUR AREA OF INTEREST

To become a complete one stop solution for all our customer needs and requirements

**Proto Tools & Parts Manufacturing**



Sheet Metal, Machined, Aluminium Die Casting, Rubber Molding, Plastic Molding etc.,. With material, Heat treatment & Surface treatment processes

**Engineering Support Projects**



Reverse Engineering, VA/VE Solutions, Manufacturing Feasibility Study, Estimation and Costing, Process Design, APQP, PPAP, 3D Modelling, etc.,.

**Tool Manufacturing**



Aluminium Die Casting Tools, Rubber Molding, Plastic Molding Tool Manufacturing, Fine Blanking Tools, Conventional Press Tools, and Jigs & Fixtures

**Job Works**



Wire Cut, CNC Milling, CNC Turning, Grinding and CMM Inspection

**Mass Production Projects**



Aluminium Die Castings, Plastic Injection Molding, IML & THINWALL FOOD CONTAINERS, etc.,.

# OUR CUSTOMERS – TOOLING's



**PROTO TOOLS, FINE BLANKING TOOLS, CONVENTIONAL TOOLS, MACHINING FIXTURES, RUBBER MOLDING TOOLS**



**PROTO TOOLS, DIE CASTING TOOLS, TRIMMING TOOLS, MACHINING FIXTURES, PLASTIC MOLDS**



**PROTO DIE CASTING TOOLS, PROTO DIE CASTING PARTS, PROTO CNC, WIRE CUTTING MACHINED PARTS, etc.,.**



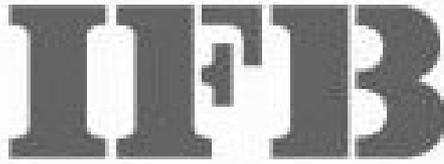
**PROTO TOOLS & R&D SUPPORT**



**PROTO TOOLS, PRESS TOOLS, MACHINING FIXTURES, WIRE CUTTING JOB WORKS, CNC MACHINING, etc.,.**

# OUR CUSTOMERS – COMPONENTS

## Proto and Mass Production Components



**IFB**  
Industries Limited

**SHEET METAL &  
MACHINED**



**Mahindra**



**HONDA**



**RENAULT NISSAN**



**SANDHAR**  
Sandhar Technologies Limited

**ALU DIE CASTING /  
PLASTIC MOLDING**



**TVS**  
TVS MOTOR COMPANY



**ROYAL  
ENFIELD**



**BMW** **TVS**



**Mahindra**

**ALU DIE CASTING /  
MACHINED PROTO  
PARTS**



**Amphenol**

**DEFENSE AEROSPACE  
PRODUCTS**



**LUMAX**

**SHEET METAL SUB  
ASSEMBLY**

# CONCLUSION

**Lakshmi Group is thankful to you for your valuable time spent in going through our presentation. We also thank all our existing customers who have supported us in keeping our learning curve move upward. We also thank Our Employees for all the hard work in making our customers satisfied.**

**We are in search of customers who have an aim of mutual growth in the future years with a vision of supplier development for which our company has planned a larger work area at Malur Unit. Also we are interested on Research & Development Works that will result in our customer's growth which in turn helps us grow.**

# THANK YOU



## THANK YOU

*We look forward to a long and fruitful business relationship with you.*

**We promise to serve our customers with total integrity by offering innovative and value for money solutions.**

### *Contact:*

Email: [slvindustries1975@gmail.com](mailto:slvindustries1975@gmail.com)

[lmtcnc01@gmail.com](mailto:lmtcnc01@gmail.com)

[manoharbajal@gmail.com](mailto:manoharbajal@gmail.com)

[2023lga@gmail.com](mailto:2023lga@gmail.com)