WELCOME

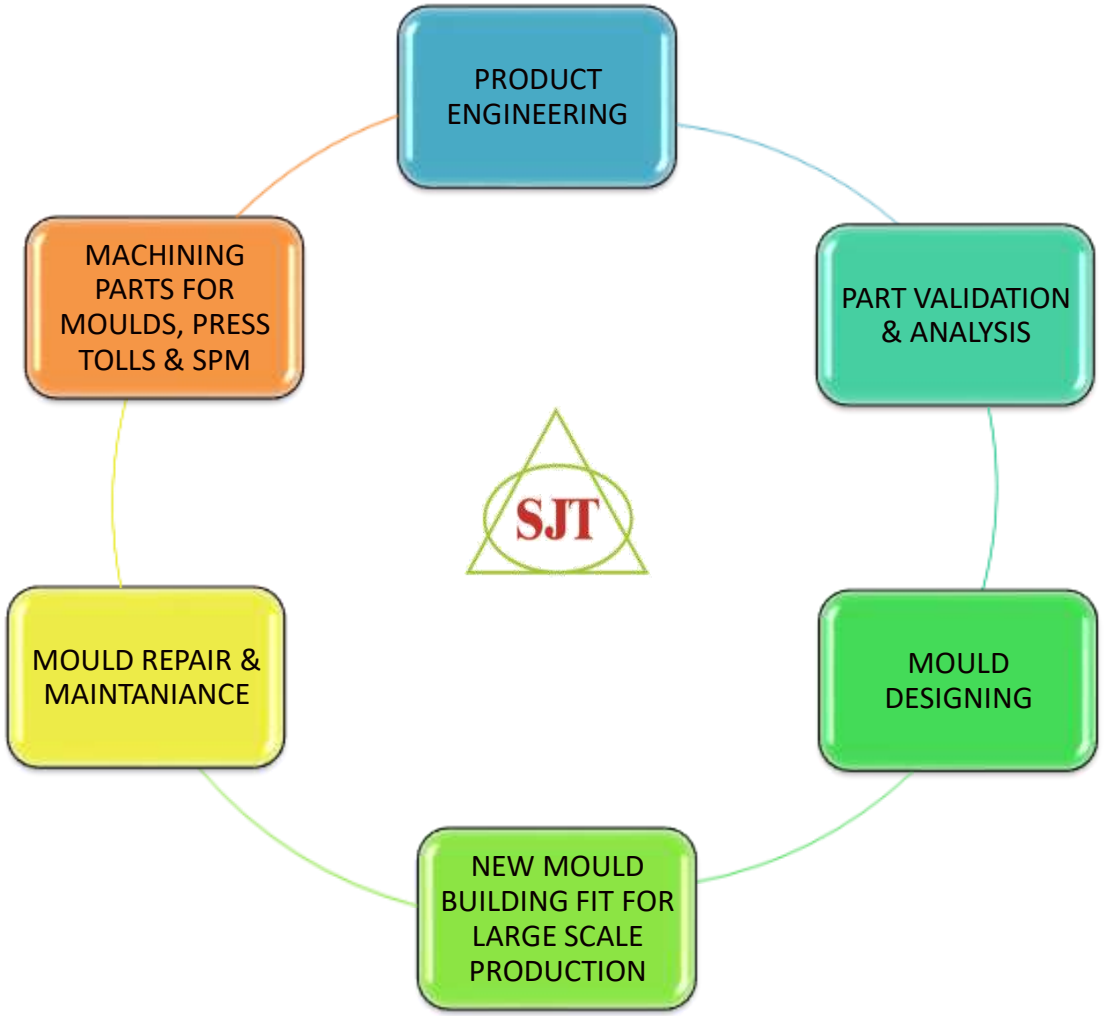
SJ TOOLINGS

A TRUSTED PARTNER FOR INJECTION MOULD DEVELOPMENT

- MOLD MANUFACTURING
- MOLDED PARTS AND ASSEMBLY
- ENGINEERING CHANGES
- MOLD MAINTENANCE

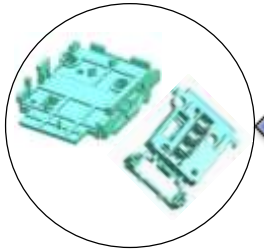
About SJ TOOLING:

SJ TOOLING is a state of the art tool room being set up in the year 2018 by highly experienced professionals who have over 20 years of vast experience in designing, manufacturing and supply of precision plastic injection Moulds & Moulded parts



SJ TOOLING is owned and operated under pioneers in the field of Injection mould making.

Automotive



Electrical & Electronics

FMCG,AGRI-FARM EQUIPMENTS

- SJ TOOLING mould build capability is up to 850T
- Hands on experienced Management received many customer appreciations and leaded to long term relationships with customers.
- Team of motivated staff
- Superior machining facilities.
- Proper planning of projects and timely delivery.

We provide a totally hassle free and seamless experience to the customer.

Our Valuable Customers

IAC International Automotive Components

SPARK MINDA Powered by Passion

DECON GROUP

NIPRO

TATA

TATA AUTOCOMP SYSTEMS LIMITED

Sunningdale Tech

BERICAP

Renata PRECISION

elringklinger

Malhar Auto Industries

SMRC Samvardhana Motherson Reydel Companies

DAS AGRO PLAST PVT. LTD.

AK

AIR INTERNATIONAL TTR THERMAL SYSTEMS

SJ Method Of Mould Making & product validation

SJ specifically focuses on Functional parts and Aesthetic parts.

1. Detailed Study of end product . (Specifications,fucntional requirements ,GD& T)
2. For functional parts witness lines, weld lines, fitments. Based on this steel safe conditions are decided .
3. Study of material, Grade , Rheology , mold flow and cool warp analysis .
4. Draft analysis for texturing ,thickness analysis ,potential post molding issues are forecasted.
5. Defining the machining process based on the requirements.
6. Designing the mold with proper care by which considerations are given for future corrections and improvements. Faster machining ,proper care for aesthetics , Improved build quality ,longer life tools based on customer requirements.

Data study with mold design will be reviewed with the customer in order to receive the customer inputs and lessons learnt from their previous experiences with the similar parts.

Steel safe conditions for negative correction , closer tolerance dimensions .
Planning inserts , pins for easy replacements and re machining easiness.
Proper measuring and assembly techniques .
Best quality oils ,coolants . Proper surface treatments and usage of standard components.
Usage of CMM for inspection based on requirements from a trusted vendor or suggested vendor.
Mold trials and corrections until the pre agreed terms are met.

Employees Strength

Skilled Employees	Experience	
Tooling head	17 year	1
Project & Quality Head	12 year	1
Design head	13 Year	1
Senior designer	10year	2
Design engineers	4year	2
Toolmakers	2-10	6
Conventional Machinist	5	10

SJ TOOLING firmly believes in the principle of team work , technically strong , morally Enlighted employees are back bone of our industry.

Plant Machines List

TOOL ROOM

- VMC - Haas - VF5
- VMC - AMS
- CNC EDM (2 Machine)
- ZNC EDM (4 Machine)
- EDM DRILL
- SODICK WIRECUT
- SURFACE GRINDING (4 Machine)
- M1TR (2 Machine)
- RADIAL DRILLING
- LATHE

CAD SERVICES

- Workstations
- NX U
- BRICS CAD
- Dedicated Design Office

*Material Handling Equipment - 10Ton Crane & 3Ton Crane

*Mold manufacturing Capacity : 10 mold / Month

Future Expansion Planning for this year

TOOL ROOM

- CNC - EDM - SODICK
- WIRE CUT- SODICK
- CNC WIRE EDM
- VMC - HAAS & AMS
- WIRE DRILL

QUALITY

- VMM
- TRIMOS

PRODUCTION

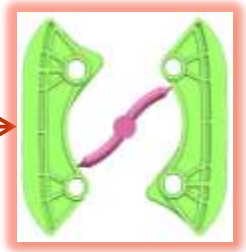
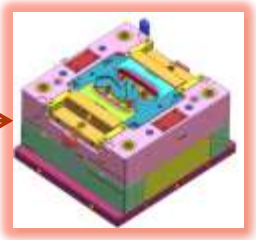
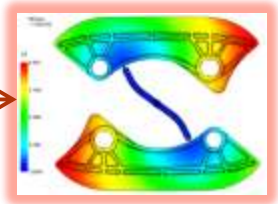
- MOULDING MACHINE-150T
- MOULDING MACHINE-350T

Product Development Chart

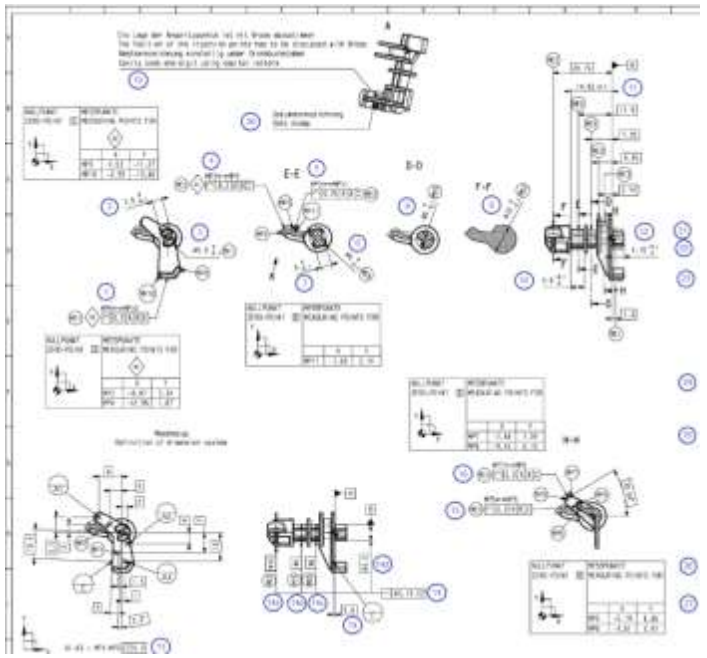
Technical Documentation Development

- Concept Generation
- 3D Design
- Virtual testing & Simulation
- 3D Design Approval from customer
- Manufacturing / Fabrication
- Try Out
- Part Inspection
- Correction

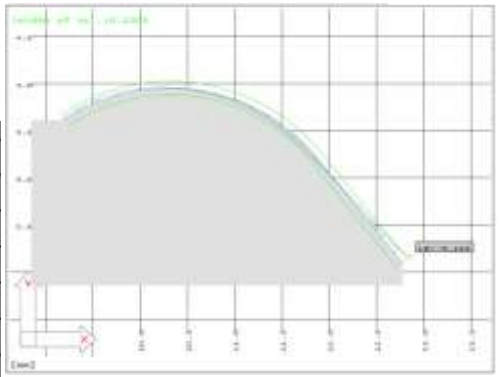
- Part Analysis, Feasibility , Create Mock up design
- Cad design (3D Design & Mechanism engineering)
- Mechanism Simulation & Mold Flow Analysis
- Creating Universal 3D files (*.stp / *.igs / *.Dwg) & Technical drawing related to Quality Control
- Part Inspection (VMM , CMM & 3D Scanning)

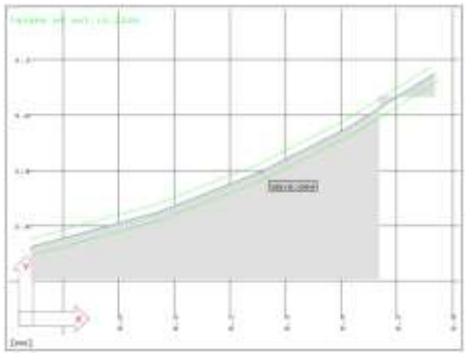




Product Optimization

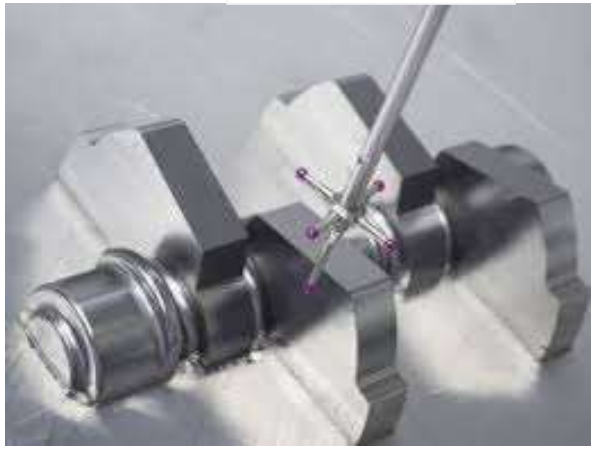


								Cavity No. 13			Cavity No. 14			Cavity No. 15			Cavity No. 16			
								Sample	Sample	Sample	Sample	Sample	Sample	Sample	Sample	Sample	Sample	Sample	Sample	
4	◊	Profile of line as LAB	0.12		0.00	0.12	CMM	0.391	0.048	0.228	0.268	0.263	0.226	0.237	0.204	0.4700	0.348	0.322	0.342	As per Profile inspection report, new Electorde & EDM
2			3.60	+0.00 -0.10	3.50	3.60	D.V.C	3.45	3.44	3.44	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.44	3.43	steel need to remove, Target dimention 3.60 mm (EDM)
3		Ø @ME1	5.50	+0.00 -0.10	5.40	5.50	D.V.C	5.33	5.32	5.32	5.33	5.34	5.33	5.33	5.34	5.35	5.31	5.32	5.32	steel need to remove, Target dimention Ø5.50 mm (EDM)
6		Ø	6.00	+0.00 -0.10	5.90	6.00	D.V.C	5.04	5.03	5.04	5.02	5.03	5.04	5.04	5.03	5.03	5.04	5.03	5.04	steel need to remove, Target dimention Ø6.00 mm (EDM)
7		Dimension	4.00	+0.00 -0.10	3.90	4.00	D.V.C	3.84	3.83	3.83	3.84	3.85	3.84	3.83	3.82	3.83	3.80	3.81	3.82	steel need to remove, Target dimention 4.00 mm (EDM)
8		Ø	6.00	+0.00 -0.10	5.90	6.00	D.V.C	5.04	5.03	5.04	5.01	5.02	5.02	5.03	5.04	5.03	5.01	5.02	5.03	steel need to remove, Target dimention Ø6.00 mm (EDM)
9		Ø	10.00	+0.00 -0.10	9.90	10.00	D.V.C	9.88	9.87	9.88	9.86	9.87	9.87	9.92	9.91	9.90	9.85	9.86	9.85	steel need to remove, Target dimention Ø10.00 mm (EDM)
10		Dimension	4.80	+0.10 -0.00	4.80	4.90	D.V.C	4.82 4.86	4.80 4.84	4.81 4.85	4.75 4.82	4.79 4.83	4.78 4.82	4.79 4.86	4.76 4.87	4.78 4.85	4.77 4.85	4.79 4.86	4.78 4.85	wil confirm after checking steel dimention
11		Dimension	14.65	+0.10 -0.10	14.55	14.75	D.M.H.G	14.63	14.65	14.64	14.53	14.52	14.53	14.83	14.65	14.64	14.60	14.59	14.60	Steel removal required in 2 cavity (EDM)
12		Dimension	4.15	+0.10 -0.00	4.15	4.25	D.M.H.G	4.09	4.09	4.10	4.26	4.27	4.25	4.27	4.28	4.27	4.22	4.23	4.23	Steel removal required (EDM)
20		Date Stamp					Visual	Date Stamp Missing												

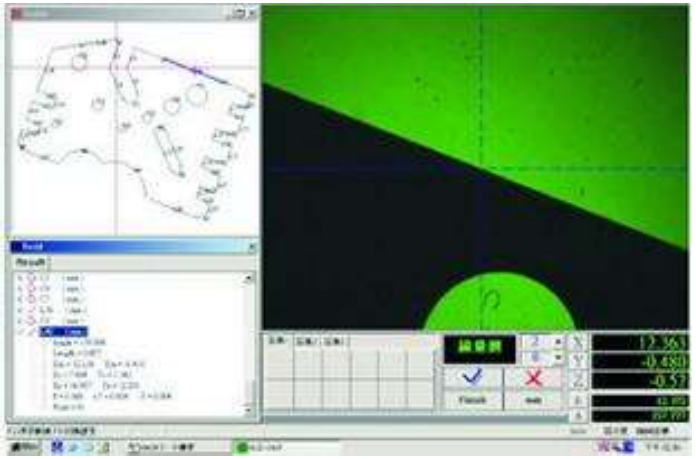




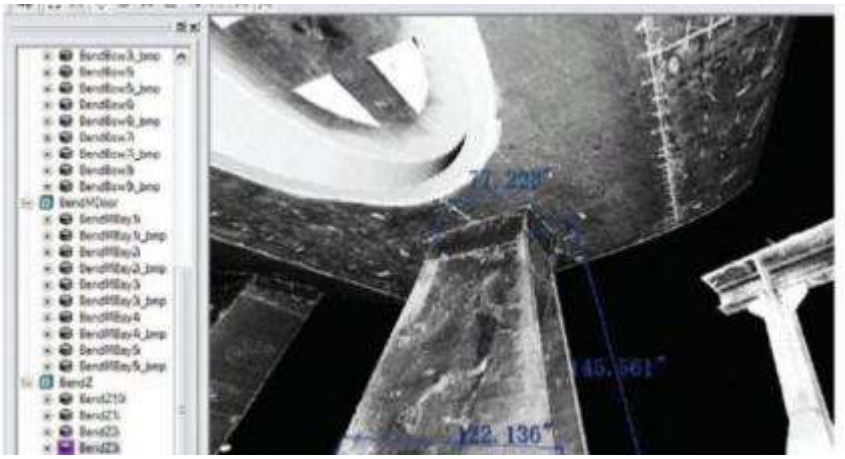
CMM Checking



VMM Checking



3D Scanner Checking

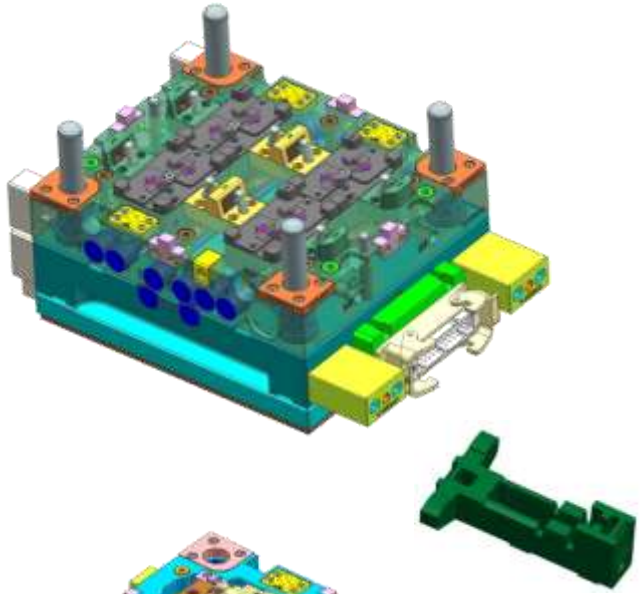


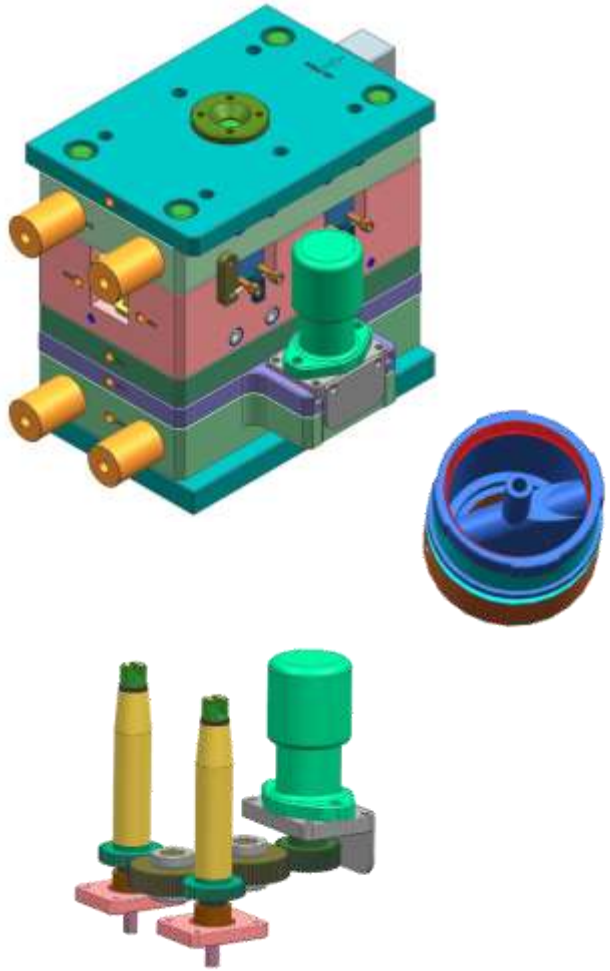
Why consider doing business with

SJ TOOLING

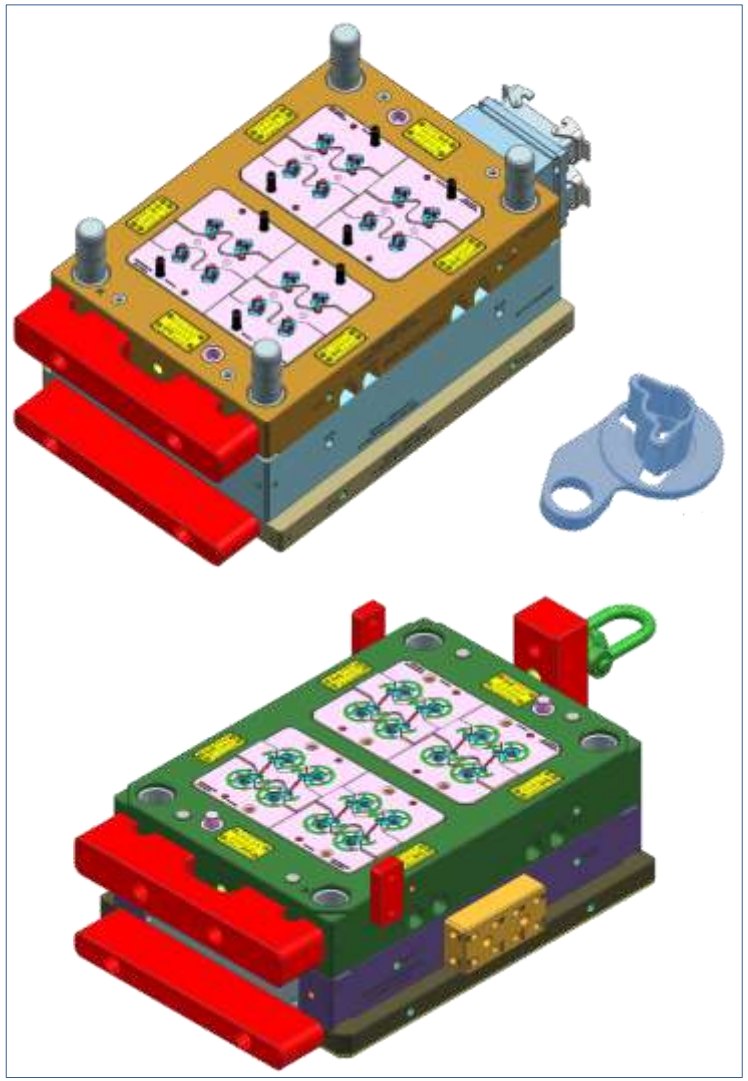
- Experienced management team in the field of tool room & automotive plastics parts development
- Experienced technical staff for design and inspection needs
- Strong Vendor base to handle extra work loads .
- Planned futuristic advanced machining centre ,CNC EDM ,Wire EDM.
- Step by step quality systems up gradation plan in place for future needs of customer

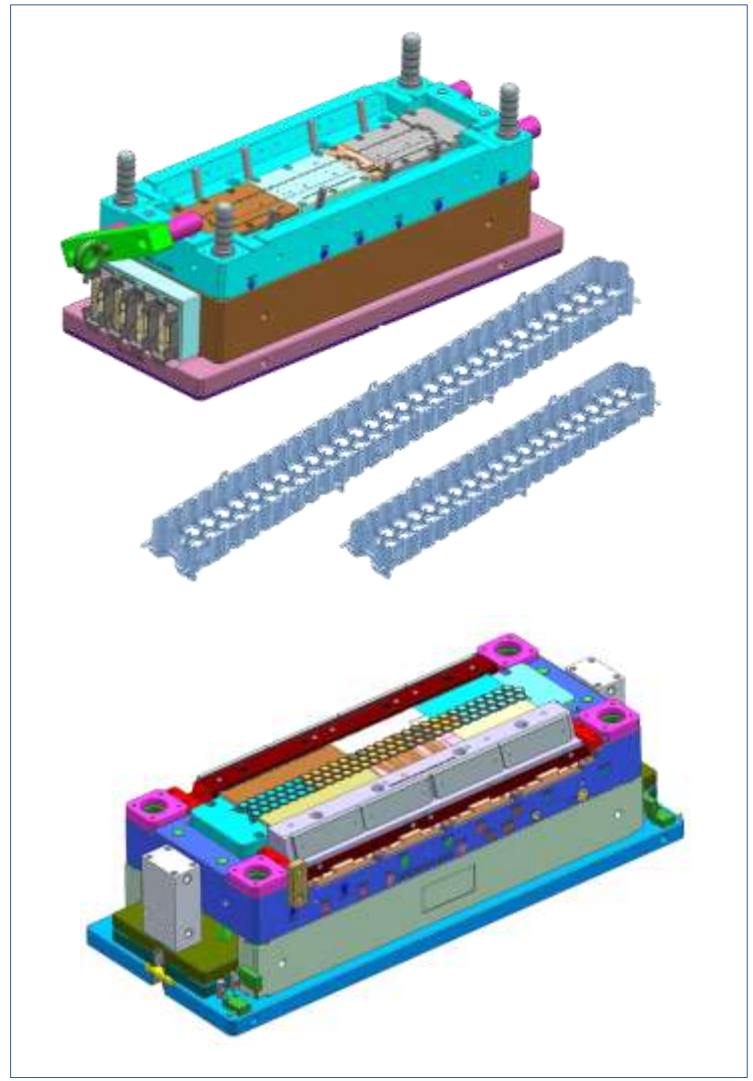
RECENT DESIGN PROJECTS

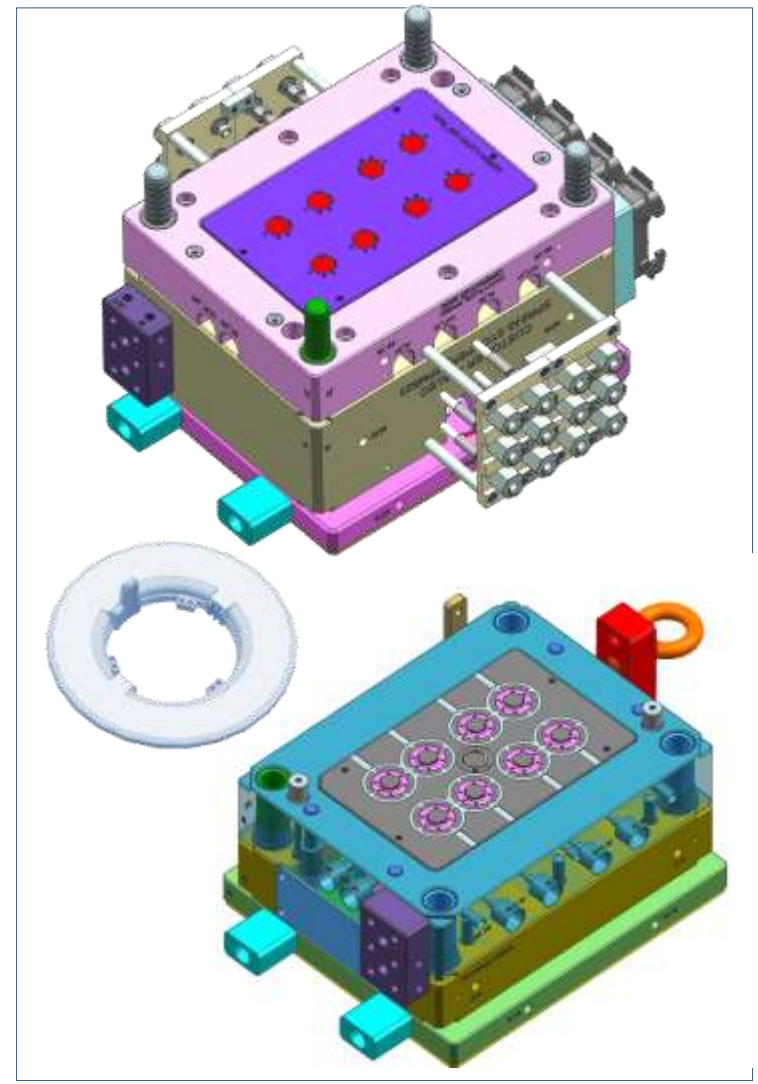




RECENTLY BUILD MOLD PROJECTS







PLASTIC INJECTION MOULDING MACHINES

FERROMATIK MILACRON – 80 T - 1NOS

TIE BAR DISTANCE - 400 mm

MAX SHORT WEIGHT- 85 mm

FERROMATIK MILACRON – 110 T - 1NOS

TIE BAR DISTANCE - 435 mm

MAX SHORT WEIGHT- 200mm

FERROMATIK MILACRON – 150 T - 1NOS

TIE BAR DISTANCE - 510 mm

MAX SHORT WEIGHT- 330 mm

FERROMATIK MILACRON – 450 T - 1NOS

TIE BAR DISTANCE - 700 mm

MAX SHORT WEIGHT- 1.25 Kg

FERROMATIK MILACRON – 1200 T - 1NOS

TIE BAR DISTANCE - 1530 mm

MAX SHORT WEIGHT- 4 Kg

Thank you and looking forward for a beginning of business relation with your esteemed organization