



# NICETY ENGINEERS

PLOT NO –J 53,S BLOCK , BHOSARI ,PUNE-26  
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# NICETY ENGINEERS



At **Nicety Engineers** we work closely with our clients to outline a detailed product specification, we gather all the facts and document it in a clear specification document. When this has been obtained the project will enter the initial concept phase. Using a diverse range of idea generation techniques our design team will produce a wide range of concepts. We communicate our concepts to the client using sketches, sketch renderings and quick CAD models Our ability to produce these quick sketches and CAD models allows us to liaise efficiently with our clients during this highly iterative process.

**Integrity, Quality, Value, Your Aggressive Partner for Success!**

**Nicety Engineers**, **Outstate-of-the-art** ,**facility** allows us to provide you with High Quality Products while meeting your demands of either prototype, production, or even mass production runs! As a one-stop-shop for your manufacturing needs, we also provide **Designing, Manufacturing ,Mechanical Assembly, Value-Added Engineering, Automation and more!** We produce range of high quality products for the Automobile, Defense, Medical, High-Technology industries.

**Nicety Engineers is** committed to producing the highest quality machined part at a competitive price. Our production capabilities include 3-axis machining with part capacity as large as 650x45x400, CNC 3D profile machining, surfacing, manual mill, as well as a complete quality assurance department with various gauges. With an existing customer base that includes **Automobile, Aerospace, Medical, High Technology** and close tolerance electronics, we are able to meet the most demanding expectations in today's manufacturing environment

We Design, Manufacture and Assemble our products on site, our manufacturing team has experience of over 15 years. This experience combined with a flexibility of mind and approach means that they are willing and able to take on the toughest of projects.



## FACILITIES /MACHINES / EQUIPMENTS LIST

- *CNC DEEP HOLE DRILLING MACHINE (GUN DRILLING MACHINE)*
- *COSMOS VMC 640*
- *STM VMC 1200*
- *STM VMC 1050*
- *EDM SPARKING*
- *Surface Grinding-2 NOS*
- *M1TR -2 NOS*
- *Taping Machine - M6 to M27*
- *5 Ton capacity Crane*
- *Software-DELCAM 16 & 17{Power Mill & Power Shape(CAD & CAM)} 2 Nos.*
- *Software-AUTODESK {FUSION360(CAD & CAM)}*
- *FSCURTIS-(5HP compressor) 2 No.*
- *Vernier caliper Mitutoyo -4 No.*
- *Micrometer 0-25,25-50,50-75, 75-100, 100-125, 125-150,*
- *Bore Gauge(20-100)*
- *Boring Bar (8-250)*
- *Hydraulic vice-300mm opening(VERTEX Make) 2 Nos.*
- *Three way Angular Vice (FOSTEX-Made in Taiwan)*



## MAN POWER CAPACITY

• Administrator	:-	1
• Accountant	:-	1
• Manager	:	1
• Programmer	:-	2
• Senior Operator	:-	4
• Operators	:-	6
• Trainee Operators	:-	4
• Skill Die maker	:-	2
• Die Maker	:-	2
• Polisher	:-	1
• Quality Assurance	:-	1



# Proto Build / Our Manufacturing ECO System



Innovation | Team work / Creativity | Collaboration / Life long learning / Multi-disciplinary / Entrepreneurship



**CNC MILLING  
640**



**EDM SPARK**



**GRANDING**



**M1 TR (3 no)**



**M 1TR (4 No)**



**CNC GUN DRILLING**



**CNC MILLING (VMC)  
1050**



**CNC Milling  
(VMC)1200**



# CNC Deep hole drilling machine (GUN DRILLING Machine)



## MACHINE SPECIFICATION

<b>Model No</b>	<b>JZA13-1310</b>
Table Size	900*1500mm
Layout	Horizontal
Control	Automatic (CNC)
Precision	High Precision
Drilling Depth	1300mm
Drilling Aperture	Dia 5 to Dia 32 mm
Max Load	7 Ton
Speed of spindle	4500 rpm
Feed speed	3000 mm/min



# CHEVALIER SURFACE GRINDING MACHINE



MACHINE SPECIFICATION	
TABLE SIZE	350 X600MM
MAX .GRINDING LENGTH (LONGITUDINAL )	610MM
MAX.GRINDING WIDTH (CROSSWISE )	360MM
MAX DISTANCE FROM TABLE SURFACE TO SPINDLE CERTERLINE	600MM
STANDARD MAGANETIC CHUCK SIZE	300X600MM
MAKE : CHEVALIER	





## M1TR ,3NO. & 4NO.



<u>MACHINE SPECIFICATION</u>	
TABLE SIZE	254X1371 MM
TABLE TRAVEL (X /Y/Z)	950/810/400MM
SPINDLE TAPER	ISO 40
SPINDLE SPEED	16 SPEEDS
POWER OF SPINDLE MOTOR	3 HP
DRO	YES
BORING HEAD	YES





# COSMOS VMC 1 – CVM 640



## Specifications



SPECIFICATION	UNIT	CVM 640
<b>TRAVEL</b>		
X axis travel	mm	650
Y axis travel	mm	450
Z axis travel	mm	500
Spindle nose to table surface	mm	100-600
Spindle center to column surface	mm	540
<b>TABLE</b>		
Table dimension	mm	800 x 450
Maximum load	kg	400
Table Tslot	mm	18 x 4 x 100
<b>SPINDLE</b>		
Spindle speed	rpm	8000
Spindle power	kw (Cont./30min)	5.5/7.5
Taper		BT 40
<b>RAPID</b>		
X	m/min	36
Y	m/min	36
Z	m/min	36
Cutting feed rate	m/min	10
<b>ATC</b>		
Type		Arm type
No of tools		24
Maximum tool length	mm	250
Maximum tool weight	kg	7
Tool diameter ( With adjacent tool )	mm	Ø80
Tool diameter ( no adjacent )	mm	Ø130
Tool changing time ( tool to tool )	sec	2.5
<b>GENERAL</b>		
Positioning accuracy	mm	0.01
Repeatability	mm	± 0.003
Over all dimensions	D x W x H	2050 x 2155 x 2770
Net weight	kg	4500
Power Capacity	kva	20
Auto Pallet Changing Time	Sec	-



## MAN FORD VMC –VL1200



Parameter	Man ford VL- 1200
X,Y,Z Travel	1200x610x610 mm
Spindle nose to table surface	150 -760 mm
Table Size	1300x600 mm
Speed	8000 RPM
Max Tool Diameter	Full 100 mm next empty:150 mm
Gross Weight	6200 kg



# MAN FORD VMC – VL1050N



Parameter	Man ford VL- 1200
X,Y,Z Travel	1050x610x610 mm
Spindle nose to table surface	150 -760 mm
Table Size	1200x600 mm
Speed	10000 RPM
Max Tool Diameter	Full 100 mm next empty: 150 mm
Gross Weight	6200 kg



# EDM SPARKING



Parameter	Eltech D-300
X,Y Travel Size	300x200 mm
Work Table Size	500x300 mm
Z Axis Travel	250 mm
Overall Weight	1500 kg
Overall Dimensions	1200x1250x2270





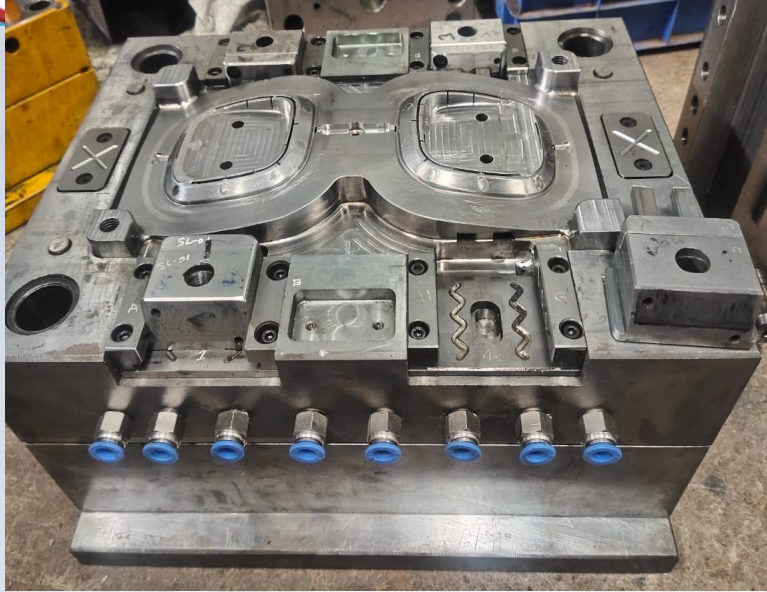
# Machine shop







# Assembly Area





# Samples of Mould Manufacturing



**REFLECTOR (TVS )  
CLAMP**



**LOCATER**



**HOUSING (TVS )**



**NPL Lens (Yamaha)**



**Griper (Door Handle)**



**Vacuum Attachment (milk Product)**





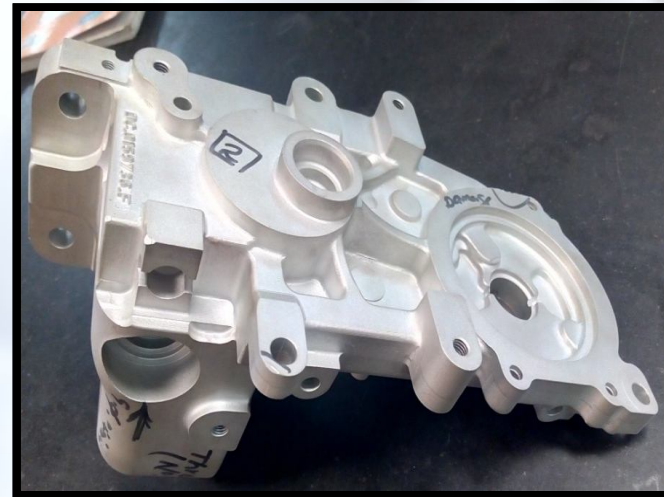
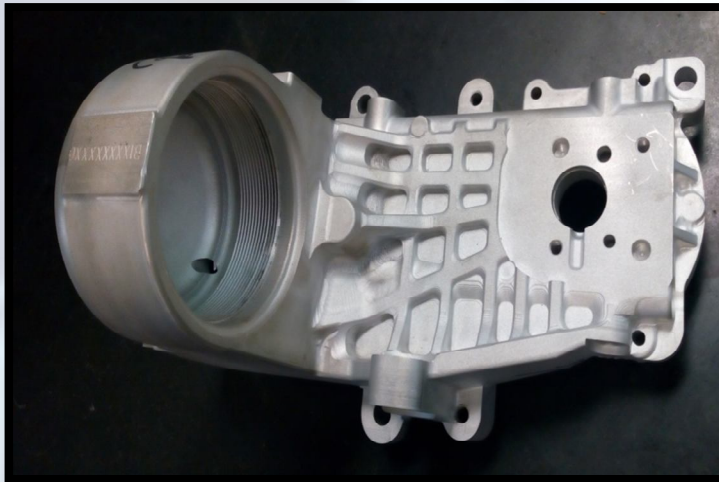
**HEAD LAMP LENS { KAWASAKI NINJA }**

**PRESSURE DIE CASTING PARTS**





# PROTO TYPE

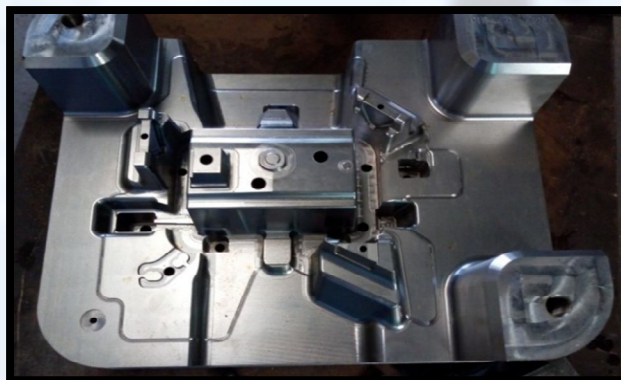
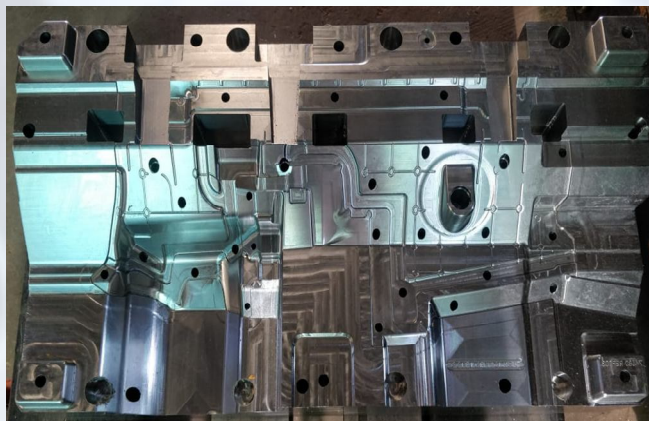


# PRESSURE DIE CASTING PARTS





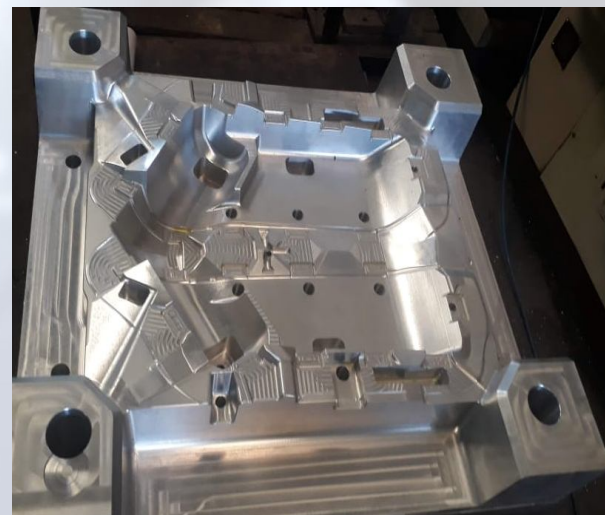
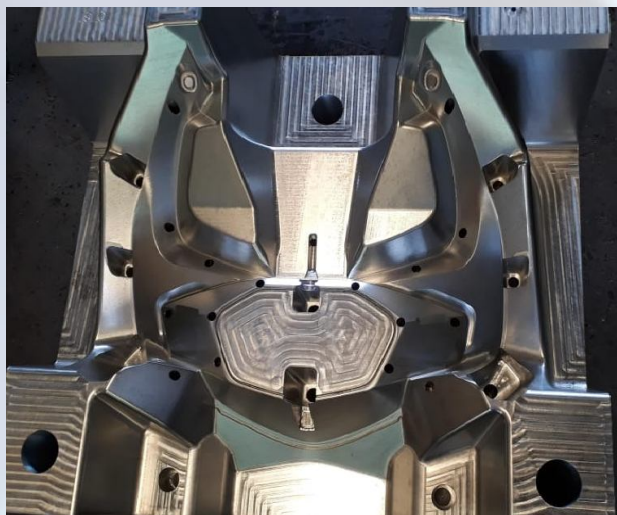
# Manufacturing Done As Per Customer Specification.



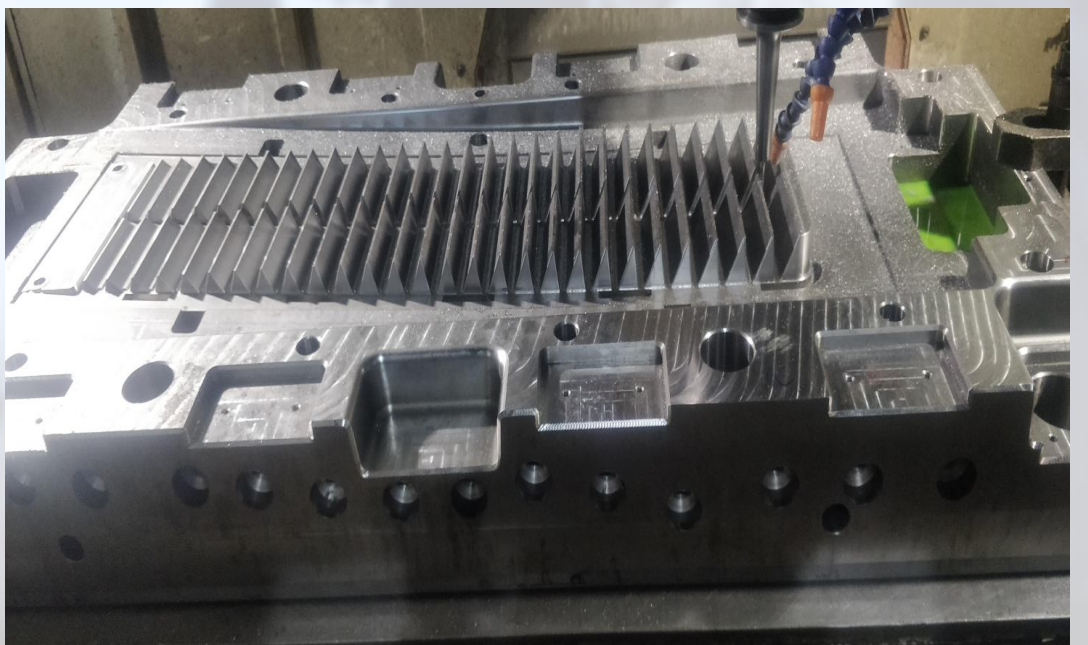
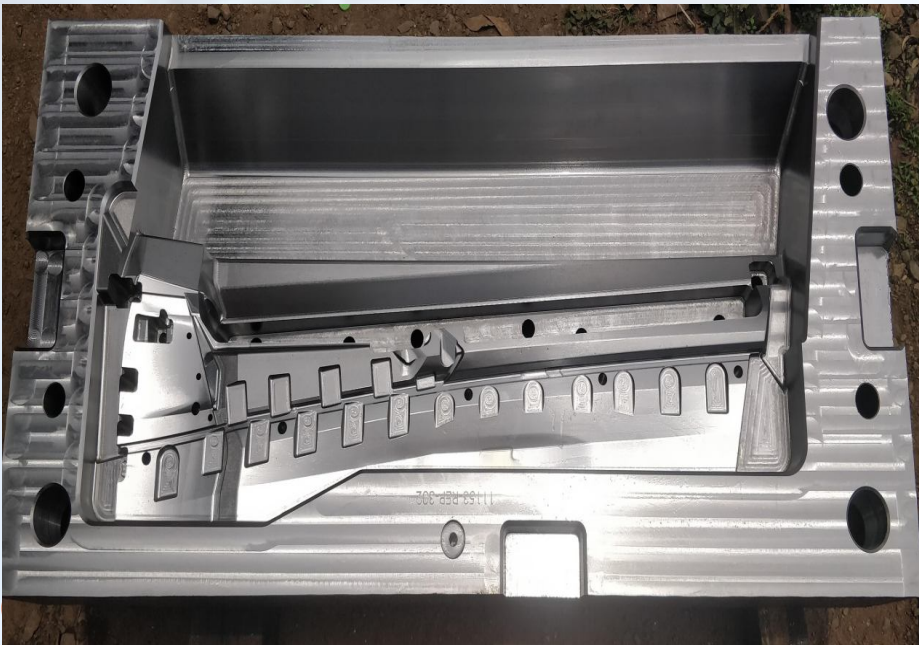
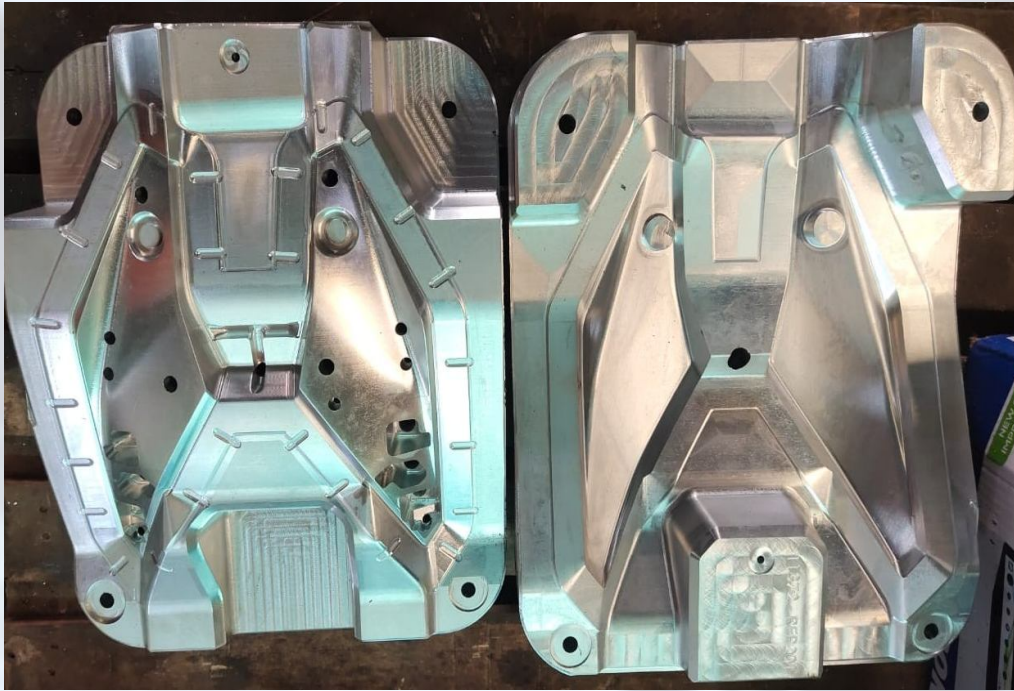




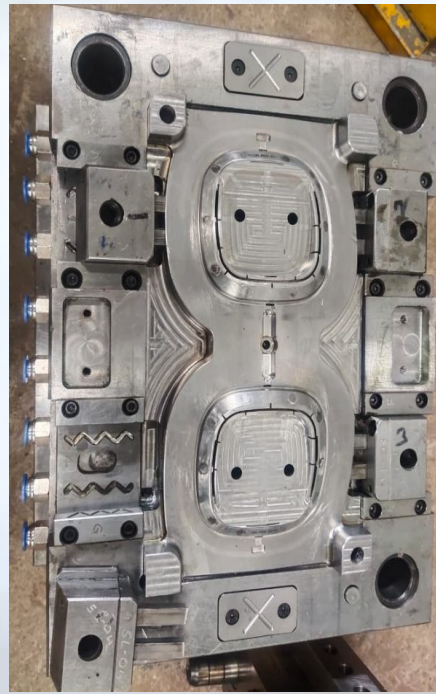
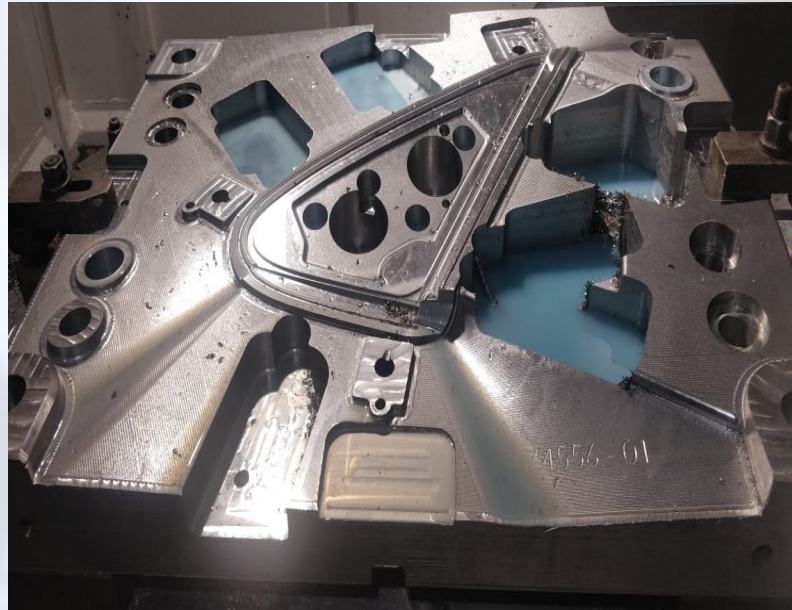
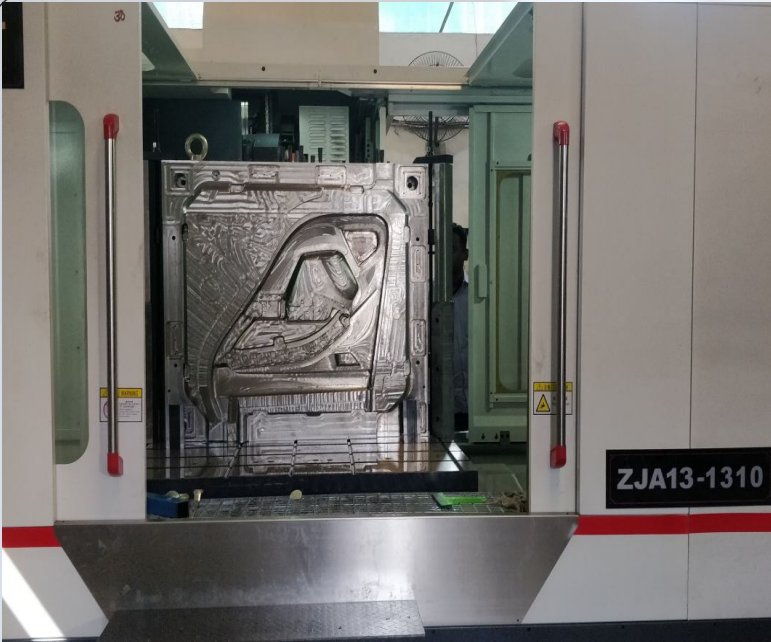
# Manufacturing Done As Per Customer Specification.













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