LEADERS IN AUTOMOTIVE PLASTICS PARTS SINCE 1987

Molding your Concepts into realization
NAME : MACHINO PLASTICS LIMITED
ESTABLISHED : STARTED PRODUCTION IN 1987
BUSINESS : TIER 1 OEM - PLASTIC INJECTION MOLDED PARTS & ASSEMBLIES
LOCATION : Plant I – MOULDING
           3, MARUTI JV COMPLEX, UDYOG VIHAR IV, GURURAM,
           : Plant II – MOULDING & TOOL ROOM
           128 & 129, Sector 8, IMT, MANESAR, GURUGRAM,
           : Plant III – WARE HOUSE
           81, Sector 8, IMT, MANESAR, GURUGRAM, HARYANA
           : Plant IV –
           527, Sector 3, PITHAMPUR INDUSTRIAL AREA, MP
LAND AREA : P1- 9900 + P2- 16200 + P3-8000 + P4- 7800 sq. mtr
COVERED AREA : P1- 12000 + P2- 20000 + P3- 12500 + P4- 2200 sq. mtr
STAFF STRENGTH : 250 MEMBERS
OUR STRENGTHS

- **MACHINES**
  - Total 63 Injection Moulding Machines from 100T to 3150T

- **TECHNOLOGY**
  - State of the art technology including All Electric machines

- **SYSTEMS**
  - Large machines with Japanese Robotic Part Pick up Systems

- **WELDING MACHINES**
  - Two Vibration Welding Machines

- **ULTRASONIC**
  - Robotic Ultrasonic Welding Machine

- **SECONDARY PROCESS**
  - Various secondary process to form Assembly

- **ASSEMBLY**
  - Robots for Assemblies

- **PLASTIC PARTS DEVELOPMENT**
  - Design & Development of Plastic Parts

- **TOOL ROOM**
  - Design & Development of Molds & checking fixtures
  - Well equipped machine shop for manufacturing tool up to 30 T weight / 3500 T Injection machine

- **STAFF**
  - 240 valuable human resource

**MACHINO PLASTICS - ONE STOP SOLUTION**
Plants are IATF, OSHAS & ISO CERTIFIED
FACILITIES – INJECTION MOULDING

Gurugram
1300 – 3150T – 10 MACHINES
120 – 650T – 7 MACHINES

Manesar
46 INJECTION MOULDING
100 – 2500T MACHINES
FACILITIES – SECONDARY OPERATIONS

- ROBOTIC ULTRA SONIC WELDING

Can do Three different parts simultaneously

- Two BRANSON VIBRATION WELDING
OUR ESTEEMED CUSTOMERS

- Volvo
- Maruti Suzuki
- Suzuki Two Wheeler
- Eicher Commercial Vehicle
- Mahle
- UD Trucks
- Mikuni
## OUR PRODUCT RANGE

<table>
<thead>
<tr>
<th>1</th>
<th>EXTERIOR PARTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUMPER- FR / RR, GARNISH BUMPER, GRILLE, BAZEL FOGLAMP, GUARD SIDE SILL, FENDER FR/RR, GARNISH PILLAR, MIRROR PARTS, ROOF ABROSBER</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2</th>
<th>INTERIOR PARTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>INSTRUMENT PANEL, PANEL CLUSTER, GLOVE BOX ASSY, AIR VENT ASSY, PILLAR FR, RR QUARTER TRIM, TRIM TAIL END, FLOOR CONSOLE FR/RR, BOTTLE HOLDER</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3</th>
<th>UNDER HOOD PARTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR INTAKE MANIFOLD PARTS, AIR FILTER PARTS, SHROUD FAN, ENGINE COVER, ABSORBER</td>
<td></td>
</tr>
</tbody>
</table>

MACHINO PLASTICS - ONE STOP SOLUTION
EXTERIOR PARTS RANGE

FRONT BUMPER

REAR BUMPER
PAINTED FRONT BUMPER BODY KIT

GRILL RADIATOR

GARNISH COWL TOP CENTER

GUARD SIDE SILL
ALUMINIUM PRE COLORED GARNISH BUMPER

LINING FENDER FR/ RR

ABSORBER ROOF SIDE RAIL
PAINTED / CHROME PLATED PARTS RANGE

PAINTED FRONT BUMPER BODY KIT

CROME PLATED GRILL ADIATOR

GARNISH COWL TOP CENTER

PAINTED INSTURUMENT PANEL
INTERIOR PARTS RANGE

INSTRUMENT PANEL

GLOVE BOX ASSEMBLY

AC VENT ASSEMBLY

PANEL INSTRUMENT CLUSTER

FOOT REST
INTERIOR PARTS RANGE

BOX FLOOR CONSOLE FRONT

BOX FLOOR CONSOLE REAR

PANEL FLOOR CONSOLE REAR

ASH BOX

HCV COVER
INTERIOR PARTS RANGE

COVER FLOOR CONSOLE LH & RH

TRIM CENTRE PILLAR

TRIM TRAIL END

QUARTER TRIM

QUARTER TRIM
UNDER HOOD PARTS RANGE

ABSORBER FRONT BUMPER

GRILLER RADIATOR LOWER
UNDER HOOD PARTS RANGE

FAN SHROUD

AIR FILTER COVER
Export to USA

AIR INTAKE MANIFOLD

ENGINE COVER

ENGINE COVER

MACHINO PLASTICS - ONE STOP SOLUTION
UNDER HOOD PARTS RANGE
TWO WHEELER

HCV / LCV
TWO WHEELER PARTS

- Panel Side Cover
- Leg Shields
- Side Cover
- Fenders
- Covers Frame Front
- Tool Box
- Air Filter Housings
- Engine Cooling Duct Housings
- Cap Clutch Cover
- Cows- Under/Side
HCV / LCV PARTS

PLASTIC PARTS & ASSEMBLY TO VOLVO & VOLVO EICHER COMMERCIAL VEHICLES

- GRILL
- TOOL BOX
- SIDE COVER
- AIR FILTER HOUSINGS
- CORNER VANE
- ENGINE COOLING DUCT HOUSINGS
- COVERS FRAME FRONT

EXPORT PLASTIC PARTS & ASSEMBLY TO
UD – JAPAN -
VOLVO – THAILAND & CHINA
PLASTIC PARTS SUPPLIER FOR VOLVO EICHER COMMERCIAL VEHICLES IN INDIA.
EXPORTED PARTS

<table>
<thead>
<tr>
<th>Part</th>
<th>Company</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLOVE BOX ASSEMBLY</td>
<td>1. Suzuki- Indonesia (Thru MSIL)</td>
<td>Indonesia</td>
</tr>
<tr>
<td>INSTRUMENT PANEL</td>
<td>2. VOLVO – Thailand &amp; China</td>
<td>Thailand &amp; China</td>
</tr>
<tr>
<td>QUARTER TRIM</td>
<td>3. UD Trucks -Japan</td>
<td>Japan</td>
</tr>
<tr>
<td>SHROUD FAN</td>
<td>4. SLP Spermormance Inc -USA</td>
<td>USA</td>
</tr>
<tr>
<td>AIR FILTER COVER</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HCV COVER</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASH BOX</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

MACHINO PLASTICS - ONE STOP SOLUTION
OUR JOURNEY FOR TOOL ROOM TO MANUFACTURE HIGH PRECISION TOOLS WITH
TECHNICAL PARTNER PLAKOR, S. KOREA

PLAKOR
The company fulfilling human beings’ dreams
OUR START-UP JOURNEY FOR TOOL ROOM WITH TECHNICAL PARTNER PLAKOR

1. Business Structure

One-Stop Full Line Service

- R&D CENTER
- IMPROVEMENT
- MOLD FACTORY
- ASSEMBLY & DELIVERY

- Order
- Product Design
- Mold design & Manufacture
- Product Development
- Production & Supply
4. Factories Location (Korea)

PLAKOR, Hwaseong
- Gyeonggi Hwaseong
  - Head Office, R&D, Mold
  - Customer: Hyundai, KIA

PLAKOR, Asan
- Chungnam Asan
  - Injection, Painting
  - Customer: KIA (Sohari)
  - Ssangyong

PLAKOR, Ansan
- Gyeonggi Ansan
  - Bumper Assembly
  - Customer: KIA

PLAKOR, Seosan
- Chungnam Seosan
  - Bumper Assembly
  - Customer: Donghee Auto

YEONGNAM, Ulsan
- Yeongnam Office
  - Assembly
  - Customer: Hyundai (Ulsan)

PLAKOR, Jincheon
- Chungbuk Jincheon
  - Injection, Painting, Assembly
  - Customer: KIA (Sohari)
  - Hyundai (Asan)
  - Ssangyong

NAJEON, Gwangju
- Gwangju (Pyeongdong)
  - Injection, Assembly
  - Customer: KIA (Gwangju)
# 1. Process

## Full Tool Condition Satisfying

<table>
<thead>
<tr>
<th>Design</th>
<th>Tooling</th>
<th>Testing/Validation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parts Design</td>
<td>Mold Design</td>
<td>Pre Production</td>
</tr>
<tr>
<td>Design Review</td>
<td>Design Review</td>
<td>Hot/Cold Resistance</td>
</tr>
<tr>
<td>CAE</td>
<td>CAE</td>
<td>Impact</td>
</tr>
<tr>
<td></td>
<td>Tooling</td>
<td>Weathering</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chipping</td>
</tr>
<tr>
<td>- Quality Improving</td>
<td>- Die Structure</td>
<td>Quality Assurance</td>
</tr>
<tr>
<td>- Compete Car Bench Marking</td>
<td>- Optimizing</td>
<td></td>
</tr>
<tr>
<td>- Cost/Weight Reduction</td>
<td>- Quality</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Improving</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Productivity</td>
<td></td>
</tr>
</tbody>
</table>
2. Main Products

- Crash Pad
- Bumper / Radiator Grille
- Carrier Front-end-module
- Luggage Side / Pillar Trim Package
- Rear Spoiler
- Back Panel
- Sill Side Garnish
“To be recognized as the leaders of automotive injection mold manufacturing & total solution provider to our valued customers.

And create value through knowledge and learning that will empower professionals, members & management in the space of mold manufacturing and improve quality of life.”
TOOL DESIGN & DEVELOPMENT

WELL EQUIPPED TOOL DESIGN & MANUFACTURING

UNIGRAPHICS

SERVICES OFFERED
1. TOOL DESIGN
2. TOOL MANUFACTURING
3. REVERSE ENGINEERING
4. SURFACE / SOLID MODELING
5. ALL TYPES OF ANALYSIS
6. PROTOTYPE TOOLING & PARTS
7. TESTING & VALIDATION
8. ASSEMBLY

TOOL UP TO 30T WEIGHT / 3000 T INJECTION M/C
TOOL DESIGN

- UNIGRAPHICS(NX11)-6 Seat
- UNIGRAPHICS(NX11) VIEWER-2 Seat
- UNIGRAPHICS(NX11) CAM-1 Seat
- MOULD FLOW-1 Seat
- POWER MILL-4 Seat
- POWER SHAPE-2 Seat
- CAMI SOFTWARE-1 Seat
- AUTO CAD-4 Seat
- CAP-1 Seat
- WORK STATION FOR DESIGN/MFA-15 PC
- WORK STATION FOR PROGRAMMING-4 PC
TOOL MANUFACTURING FACILITIES
TOOL MANUFACTURING FACILITIES

- VMC Machines → 03Nos
- Graphite CNC Machine → 1Nos
- CNC EDM (Double head) → 01Nos
- CNC WIRE CUT → 01Nos
- GUN DRILL- deep hole drill Machine → 1Nos
- SPOTTING MACHINE – 500 T → 1Nos
- CMM 4200x3640 → 1Nos
- MOULD FLIPPER & MOULD CARRIER
### TOOL MANUFACTURING

<table>
<thead>
<tr>
<th>MODEL</th>
<th>TABLE SIZE (MM)</th>
<th>TRAVEL (X/Y/Z) (MM)</th>
<th>MAX LOAD (Kg)</th>
<th>RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sirius 1350</td>
<td>2800*1200</td>
<td>2550x1350x750</td>
<td>8000</td>
<td>12000</td>
</tr>
<tr>
<td>Sirius 1750</td>
<td>4200*1750</td>
<td>4000x1750x800</td>
<td>10000</td>
<td>12000</td>
</tr>
</tbody>
</table>
# Tool Manufacturing

<table>
<thead>
<tr>
<th>MODEL</th>
<th>TABLE SIZE (MM)</th>
<th>TRAVEL (X/Y/Z) (MM)</th>
<th>MAX LOAD (Kg)</th>
<th>RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sirius UL+</td>
<td>1200x600</td>
<td>1050x600x500</td>
<td>800</td>
<td>20000</td>
</tr>
<tr>
<td>SMART UaX</td>
<td>1200x700</td>
<td>1300x750x420</td>
<td>400</td>
<td>20000</td>
</tr>
</tbody>
</table>
## TOOL MANUFACTURING

<table>
<thead>
<tr>
<th>MODEL</th>
<th>TABLE SIZE (MM)</th>
<th>TRAVEL</th>
<th>JOB LOAD (KG)</th>
<th>ELECTRODE LOAD (KG)</th>
<th>CURRENT (AMP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HG-280</td>
<td>2800x1300</td>
<td>1650x800x800</td>
<td>40000</td>
<td>300</td>
<td>50/100</td>
</tr>
</tbody>
</table>

### DOUBLE HEAD - EDM

### WIRE EDM

<table>
<thead>
<tr>
<th>MODEL</th>
<th>TABLE SIZE (MM)</th>
<th>TRAVEL</th>
<th>JOB LOAD (KG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ROBOCUT α- C800iB</td>
<td>800x600x500</td>
<td>16 DEGREE</td>
<td>3000</td>
</tr>
</tbody>
</table>
### TOOL MANUFACTURING

<table>
<thead>
<tr>
<th>MODEL</th>
<th>TABLE SIZE (MM)</th>
<th>CLAMP FORCE (Ton)</th>
<th>MAX LOAD (Ton)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSP-3322</td>
<td>3300x2200x2500</td>
<td>500</td>
<td>30</td>
</tr>
</tbody>
</table>

**Model: DSP-3322**
- Table Size: 3300x2200x2500 mm
- Clamp Force: 500 Ton
- Max Load: 30 Ton

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### TOOL MANUFACTURING

<table>
<thead>
<tr>
<th>MODEL</th>
<th>TABLE SIZE (MM)</th>
<th>TRAVEL (MM)</th>
<th>JOB LOAD (Ton)</th>
<th>DRILL DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMBC-1500</td>
<td>3000x200</td>
<td>2500x1500x1700</td>
<td>30</td>
<td>1500</td>
</tr>
</tbody>
</table>

**Model: DMBC-1500**
- Table Size: 3000x200 mm
- Travel: 2500x1500x1700 mm
- Job Load: 30 Ton
- Drill Depth: 1500 mm
## TOOL MANUFACTURING

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MAKE</th>
<th>TABLE SIZE (MM)</th>
<th>TRAVEL (MM)</th>
<th>JOB LOAD (KG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEA ALPHA 2.0</td>
<td>EXAGON</td>
<td>4200x3640x4555</td>
<td>2000x3300x1500</td>
<td>3450</td>
</tr>
</tbody>
</table>
WHY MACHINO PLASTICS?

- LEADERS IN AUTOMOTIVE PLASTICS PARTS SINCE 1987.
- DESIGNING YOUR CONCEPTS INTO REALIZATION.
- MOCK UP / PROTOTYPE DEVELOPMENT.
- PART & TOOL FEASIBILITY
- MOLD DESIGN & MANUFACTURING.
- HIGH PRECISION TOOL MANUFACTURING MACHINES.
- TESTING & VALIDATION
- STATE OF ART MOLDING MACHINES FOR PRECISION PARTS
- SECONDARY PROCESS & ASSEMBLY.
- SELECTION & DEVELOPMENT OF COMPOUNDED POLYMER.
THANKS for your INTEREST