Glass Reinforced Injection Molded Structural Part
(Development, Manufacturing & Supplies)

&

Metal to Plastic Conversion
(IMC Technology)

AutoDynamic Technologies & Solutions Pvt Ltd
“Delivering Ideas to Products”

Date: 25 May 2020
ABOUT US

- PP COMPOUNDS
- ENGINEERING PLASTICS
- MASTER BATCHES
- SPECIALTY COMPOUNDS

APPL-GOR PLASTICS
- WOOD STOCK SHEETS
- TPO SHEETS

APPL
- GLASSFILLED INJECTION MOLDING
- METAL TO PLASTIC CONVERSION (IMC)
- INSERT MOLDING WITH LAMINATES
- SMC, RTM For DEFENSE AND MILITARY
- QA TESTING & MEASUREMENT

AUTO DYNAMICS
- HVLS FANS
- INDUSTRIAL COOLERS
- EXHAUST FANS

APPL GLOBAL INFO TECH
- PRODUCT DESIGN SERVICES
- PRODUCT DEV CONSULTING
- PROCESS ENGINEERING
- SIMULATION,
- TOOL DESIGN
- AUGMENTATION
- ENGINEERING RESOURCE
- VIRTUAL PRODUCT DESIGN

Customer Base:

- Volkswagen
- Fiat
- Maruti Suzuki
- Mahindra
- Tata
- Piaggio
- Yamaha
- Bajaj
- Honda
- GM

Integrity | Excellence | Customer Focus | Technology Edge | Responsibility
Our VISION

To Bring unique Innovative product & solution, that are ahead of the times which satisfy a wide range of basic & Implied needs in Indian market.

We follow customer and Aim to be part of their success.
Our Offering:

- Manufacturing, supplies of Automotive Components with injection molding, Insert molding and Light weighting Structural Parts.
  1. Under Body Structural Parts
  2. Exterior Parts
  3. Interior Parts
  4. Commercial Vehicle Parts
  5. Electric Vehicle Parts

- Advanced R&D Projects.

- Complete Engineering Product Design Capability with prototype.
Our Value Proposition – In-house Product Development Capability

- Production & Supply
- Concept Design
- Engineering
- Product Development Capability
- Material Selection
- Prototype and validation
- Simulation & Testing

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Our Design Capabilities

- Full Service supplier Projects
- Optimization and product performance improvement studies
- Value Analysis & Value Engineering
- Support to NA & European technical centres and captive units in India
- Support to India Automotive OEM and tier suppliers
- Support to Non automotive Customers around world

CAE Capabilities

- Static-Linear/Non-Linear Analysis
- Dynamic- Vibrations, Modal, Frequency Response analysis
- Product optimization and weight reduction
- Durability

CAE Software (APPGIL)

- Static Analysis
  - Ansys
  - Nastran
  - Optistruct

- Non-linear Dynamics
  - Ansys
  - Nastran
  - Ansys workbench

- Mold Analysis
  - Moldflow

- Durability/Fatigue
  - Nastran
  - Ansys
  - MSC Fatigue
  - Radioss

- Crash and safety
  - LSdyna

- Optimization
  - Optistruct
  - Hyperform

- SheetMetal Forming
  - Forming Suite
  - OptiStruct

CAE Process

- Concept Design
- Final results
- Material Change
- Design Modification
- Pre-processing
- Post Processing
- 3D Data generation

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Our Manufacturing Capabilities

Molding capability available at our Hinjewadi Location:

- **2300 T Injection Molding Machine** (1Nos).
  **Key features:**
  1. Twin Screw to ensure homogenization, glass/Carbon fibers with Polyolefins, Polyamide.
  2. High buffer zone capacity for higher shot size
  3. 2300 Tons clamping force for larger parts
  4. OHIM (On-Line Injection Hot-press Molding) facility
  5. Capability to produce Carbon Fiber reinforced parts.

- **1000 T Injection Molding Machine** (1Nos).
- **500 T Injection Molding Machine** (2Nos).

- Ultrasonic welding machine.
- Assembly line with poka-yoke.
Our SCM Capabilities
We have our Logistic, procurement and Storage capabilities & Facility at 9 location over India:

Logistical Footstep – Plant Locations
1. MANESAR (HARYANA, NORTH INDIA)
2. MANDAR (RAJASTHAN, NORTH-WEST INDIA)
3. RUDRAPUR (UTTRKHAND, NORTH-EAST INDIA)
4. 2X PUNE (MAHARASHTRA, WEST INDIA)
5. CHENNAI (T.NADU, SOUTH INDIA)
6. BANGALORE (KARNATAKA, SOUTH-WEST INDIA)
7. APPL GOR PLANT IN PUNE
8. DAHEJ SEZ (GUJARAT, WEST INDIA)

Logistic Flow for Export

- Sailing of Container/Vessel from Indian Port
- Dispatch Documents from Freight Forwarder
- Documents original to Destination Office in USA or Freight Forwarder by Courier
- Vessel Arrival at Port
- Customs Clearance at Port
- In Land Haulage from port to Warehouse
- Receipt of Container, unloading of Pallets, Entering in WMS, Placing of Pallets in Storage Area
- Updated Stock with relevant Details to Autodynamics, India

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Our Quality Testing Capabilities

We have our **NABL Accredited Lab** with in-house facilities of Research & Technology Centre at Hinjewadi, Pune

Specialized testing outsourced & monitored by ARAI, Auto-Cluster etc. RTC labs under certification of TS 16949 and NABL

NABL Accreditation and scope:

![Certificate of Accreditation](image)

**Auto Dynamics**

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Our Certification:

IATF Certification 16949: 2016

Automotive Management System

Certificate of Compliance

This is to certify that the Automotive Management System for Technical Specifications of AUTODYNAMICS TECHNOLOGIES & SOLUTIONS PRIVATE LIMITED has been independently assessed and is compliant with the requirements of:

IATF 16949:2016

Quality Management System

BSI

Certificate of Registration

QUALITY MANAGEMENT SYSTEM - IATF 16949:2016

This is to certify that:

APL Industries Limited

2393 B-2, Raosom Industrial Estate

APL (India) Limited

Plot No: 279, Village: Puro, Taluka: Nashik

Dist. Pune - 412 107

Maharashtra

IN

operates a Quality Management System which complies with the requirements of IATF 16949:2016 for the following Scope:

The design and manufacture of polymer components and plastic products

For and on behalf of BSI:

Managing Director, BSI India, Verification Audits

BSI Certificate Number: G3937

IATF Number: G3937

Certification Date: 2018-03-17

Latest Issue: 2018-09-17

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...making excellence a habit...

Endorsement: 2018-09-16

Location

APL Industries Limited

2393 B-2, Raosom Industrial Estate

APL (India) Limited

Plot No: 279, Village: Puro, Taluka: Nashik

Dist. Pune - 412 107

Maharashtra

IN

Registered Activities

The design and manufacture of polymer components and plastic products

Including the following remote support functions:

Product development, Engineering Development and Engineering Services Limited

Engineering Services Limited

Implementation of IATF 16949:2016 requirements can be obtained by consulting the organization.

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Product Portfolio:
Below Structural Parts for Cars innovative solution.

1. Front Impact Beam
2. Front End Module
3. Oil-Sump.
4. Foot Rest
5. Seat Pan & Frame, Shell
6. Package Tray/Spare Wheel Box
7. Tailgate Inner
8. Spoiler Support bracket
9. Roof support rails
10. Engine Splash shield
11. Plenum Applique
12. Battery Tray
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Product Portfolio:
Below Exterior Parts for Cars innovative solution.

1. Wheel Rim
2. Mirror Brackets
3. Door side Cladding
4. Door Handle O/I
5. Leg Stiffener
6. Tailgate
7. Roof rail
8. Roof Top
9. Bonnet Structural part
10. Bumper mounting bracket
11. Bumper support bracket
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Product Portfolio:
Below Interior Parts for Cars innovative solution.

1. Arm-Rest and handle
2. Console armrest & structural bracket
3. CCB & Front Fascia
4. Steering wheel armature
5. Air-Vent Brackets
6. Grab/Inner Handle
7. Door carrier module
8. Soft IP Carrier
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2. Console armrest & structural bracket
3. CCB & Front Fascia
4. Steering wheel armature
5. Air-Vent Brackets
6. Inner Handle
7. Door carrier module
8. Soft IP Carrier
Product Portfolio:
Below Commercial Vehicle Parts for innovative solution.
Below Commercial Vehicle Parts for innovative solution.

1. Aero Kit
2. Seat Pan
3. Steering Armature
4. Fender
5. Battery Tray
6. Bumper
7. Wheel deco Bracket
8. Under Run Protective device
9. Front Support Inner
10. Front Panel
11. Foot Rest

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Product Portfolio:
Below Electric Vehicle Parts for innovative solution.

- Car wheel hub using IMC PA+CF30
- Battery Top Cover
- E-Box
- Battery Tray + Spare wheel box
Product Portfolio:
Below 2 Wheeler Bike Parts with innovative solution.

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Below 2 Wheeler Bike Parts with innovative solution.

1. Visor Glass
2. Front Fairing / Head Light Frame
3. Front Fender
4. Engine Guard
5. Side Cover / Panel
6. Seat Base
7. Seat Cover / Tail Cover
8. Rear Fender
9. Rear Mud Flap
10. Cover Chain
Product Portfolio:
Below 2 Wheeler Scooter Parts with innovative solution.
Below 2 Wheeler Scooter Parts with innovative solution.

1. Visor Glass
2. Front Panel
3. Front Fender
4. Storage Box Guard
5. Utility Box Unit
6. Seat Base
7. Side Floor Rail
8. Seat Storage Box
9. Rear Fender
10. Side Cover
11. Steering Cover
Thank You

Delivering Innovative solutions ahead of times to Automotive Industry

Akshay Waghmode
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