



## Company Profile



## Varroc Elastomers Pvt. Ltd.

(An ISO-TS 16949 -2002 Certified Company)

M 191/2 MIDC Waluj, Aurangabad, Maharashtra, India

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# **Contents**

1. Brief history & Background
2. Our Products
3. Our Technology
4. Our Infrastructure
5. Our Quality Assurance
6. Our Customers
7. Our Uniqueness

# **Annexure**

1. Company Data
2. Customer List
3. Machinery List
4. Testing and Measuring Equipment

## Background and History

History is a guide to navigation in perilous times. History is who we are and why we are the way we are

Varroc Elastomers Pvt. Ltd is a world class automotive rubber and rubber to metal bonded components manufacturing company located at Aurangabad, Maharashtra, India. Varroc Elastomers is a part of Varroc Group ([www.varrocgroup.com](http://www.varrocgroup.com)), a \$ 600 Million group, specialized in manufacturing and marketing of world class automotive components.

Varroc group was established in 1990 as Varroc Engineering Pvt. Ltd by Mr. Tarang Jain, a young and dynamic business personality well known in corporate world. The group has 17 plants in Western and Northern India, one plant at IMES, Sp.z.o.o., Poland and one plant at IMES, S.p.A, Italy.

In 1995 Varroc Engineering started making rubber parts. In 2001, Mr. P J Swamy, Director of Engineering Rubber Research Institute, got associated with Varroc group as a consultant. Mr. P. J. Swamy is a Rubber Technologist with 30 years world wide experience in rubber industry. In 2005, the rubber business of Varroc was spinned off into a different company as a joint venture with Mr. P. J. Swamy. Consequently, a new company, Varroc Elastomers Pvt. Ltd had been incorporated on 22nd Nov 2005 with Mr. P. J. Swamy as the Managing Director.

The business continued for two more years in the same premises of Varroc Engineering. In Dec 2006, the operations, then existing in a small portion of Varroc Engineering, had been shifted into the new premises built on a two acre- 8100 sq m- 87000 sq ft - plot at M 191/2 MIDC Waluz, Aurangabad.

## Our Products

When the product is right, you don't have to be a great marketer.  
-- Lee Iacocca

At Varroc Elastomers, we make rubber and rubber to metal bonded parts for:

- Auto Sector- Two Wheelers
- Auto Sector- Three Wheelers
- Auto Sector- Four Wheelers
- White Goods- Washing Machines & Refrigerators
- Non Automotive –Electrical Industry

### Auto Sector- 4 Wheelers

- Engine Mounts
- Body Mounts
- Silent block bushes
- Air Hoses

### Auto Sector- 3 Wheelers

- Engine Mounts
- Body Mounts
- Air Ducts
- Bellows

### Auto Sector- 2 Wheelers

- Bellows
- Handle Bar Grips
- Silent Block Bushes
- Air Ducts
- Connecting Tubes
- Stay Assemblies
- Dampers
- Bump stops
- O-Rings

### Electrical Industry

- Panel Gaskets
- Packing sheets
- Cushion Rubbers

### White Goods Industry

- Outer Tube Buffers
- Cock Valve Packing's
- Bearing case washers



## Our Technical Competence

Once a new technology rolls over you, if you are not a part of the steam roller, you are a part of the road.

Our technical competence is born out of a combined experience of over 80 years of the key personnel in the areas of

- a) Compound Design
- b) Compound Mixing
- c) Product Design
- d) Tool Design and Fabrication
- e) Product testing
- f) Value Engineering

### Compound Design

- We have the capability to design compounds to any international standards like ASTM, BIS and JIS involving polymers like NR, SBR, NBR, HNBR, EPDM, Neoprene, NBR/PVC, Viton, Polyacrylic and Silicon.
- We have a baby mill to design and mix development compounds.

### Product Design Technology

- We have the capability to design Anti Vibration parts if the vehicle design data is made available to us.
- If operating conditions are made known to us, we can design products for suspension and sealing applications as well as general applications.

### Our Tool Design Technology

- We have the capability to design and fabricate our own tools to very close tolerances and excellent finish and tool life.
- Our corporate tool design centre has one of the best design facilities in the country.

### Product Testing

- We have the capability to design and develop product testing machines (SPM) to simulate the end use conditions.

### Value Engineering

- By getting involved at the beginning of development of a component, we can help in
  - Deciding an ideal polymer
  - Optimum compound properties
  - Optimum product design

## Our Infrastructure

When you don't invest in infrastructure you are going to pay sooner or later.

Our infrastructure has been created to translate our technological capabilities into manufacturing excellence to earn customer delight by consistently improving upon

- a) Productivity
- b) Quality
- c) Cost
- d) Delivery

### Infrastructure - Mixing

- Mixing is done on a plc controlled 40 liter Farrel Banbury that has a capacity to mix 250 T compound in a month.
- We also have
  - Kneader (40 ltr)
  - Two roll Mills
  - 14"\*36" (2 nos)

### Infrastructure - Chemical Batching

Chemical batching is done using a PLC based system to ensure no errors while selecting and weighing chemicals.

### Infrastructure - Phosphating

Surface preparation is done in a semi automatic, 11 tank, zinc phosphating plant that ensures even and homogenous film to achieve excellent bonding.

### Infrastructure - Shot Blasting

Surface preparation is also done in a semi automatic shot blasting machine that ensures in preparing sheet metal components for excellent bonding.

### Infrastructure - Bonding Agent Application

Bonding Agent Application is done in a semi automatic plant that ensures even and homogenous film to achieve excellent bonding.

### Infrastructure - Molding

We have a most modern, plc controlled injection and hydraulic molding set up with machines that

- Operate at consistent temperature and pressure.
- Have automatic mould opening to ensure correct molding time.
- Have plunger fitted molds that ensure
  - Minimum damage to moulds.
  - Minimum strain to the operator.
  - Easy de mold of components.

We have the following three injection and twenty nine hydraulic molding machines to mould components of critical dimensions

<b>Tonnage</b>	<b>Type</b>	<b>Nos.</b>
<b>100 T (Desma Make)</b>	Injection	1
<b>250 T (Fuouam, Taiwan Make )</b>	Injection	2
<b>300 T</b>	Hydraulic	2
<b>250 T</b>	Hydraulic	4
<b>200 T</b>	Hydraulic	12
<b>160 T</b>	Hydraulic	1
<b>150 T</b>	Hydraulic	2
<b>100 T</b>	Hydraulic	2
<b>075 T</b>	Hydraulic	6

### Infrastructure - Tool Room

We have the following tool room facilities to make prototype moulds and mould maintenance

- CNC turning lathe
- Milling machine
- Radial drilling machine
- Catia unigraphics

## Our Quality Assurance

Quality is never an accident, it is always the result of high intention, sincere effort, intelligent direction and skillful execution, and it represents the wise choice of many alternatives.

All our quality systems are certified conforming to

- ISO-TS 16949 -2002 &
- DIN EN 90012000 by TUV



In addition to TS and ISO requirements, we have a very exhaustive and step wise quality control system that ensures filtering of any non compliance before it moves to next stage as encapsulated in our quality policy



## Quality Assurance - Rubber Compound (Processing)

To ensure defect free processing, all compound batches are tested for

- **Density**
- **Rheological Properties**
  - Scorch Time
  - Optimum Cure Time
  - Maximum Torque
  - Reversion Time
- **Flow Properties**
  - Mooney Viscosity
  - Mooney Scorch

## Quality Assurance - Rubber Compound (Homogeneity)

To ensure compound homogeneity, batches are periodically tested for

- **Curative Dispersion Index**
- **Thermo gravimetric Analysis**
  - % Ash
  - % Polymer
  - % Carbon
  - % Oil

## Quality Assurance - Rubber Compound (Physical Properties)

To ensure compound compliance to customer specifications, batches are periodically tested for

- Hardness (100% batches)
- Tensile Strength
- Elongation @ Break
- Modulus
- Rebound Resilience
- Tear Strength

## Quality Assurance - Rubber Compound (Endurance Properties)

To ensure that the products perform well in actual usage, compound batches are periodically tested for

- Compression Set
- Tension Set
- Ageing Resistance
- Hysteresis
- Oil Resistance
  - Volume Change
  - Hardness Change

## Quality Assurance - Phosphating

- Bath Concentration
- Immersion Time
- Coating Thickness

## Quality Assurance - Bonding Agent Application

- Viscosity Control
- Film Thickness
- Drying Time

## Quality Assurance - Molding

For achieving excellent molding each machine is monitored and controlled such that there is uniformity of

- Temperature
- Pressure
- Time
- Loading Time
- De Molding Time
- Platen parallelism

## Product Testing Facilities

To assure that our customers get the products of specified dimensional, functional and endurance properties, we have customized test facilities to suit different products and customer requirements.

- Load deflection characteristics
- Bond Testing
- Endurance Testing
- Vacuum Testing for Hoses

## Our Customers

Just as a man is known by the company he keeps, a company is known by the customers it keeps, we are proud to have in our list several esteemed organizations too many we are a Single Source



**ENDURANCE**  
*Complete Solutions*



A detailed list of our clients is given in Annexure 2

## Our Uniqueness- Why Customers should prefer us

Always give more in service, than you receive in payment, and customers will beat a path to your door."

-- Denis Waitley

There are several rubber product manufacturing companies in India but what makes Varroc Elastomers the most preferred supplier to several OEMs are

- Zero warranty for 100 % products and 100% customers
- On time deliveries DOL
- In house NBR /PVC blending
- A perfectly linear process lay out with near zero backtracking
- A factory within factory set up to do compound mixing in house
- Provision to double the mixing and molding capacity at short notice
- Fully visual management system where things speak up for themselves
- The agility of a small organization with the stability and strength of a big company
- Financially sound and investment friendly company
- Lean organization with dedicated people who have a track record of turning out extraordinary performance leading to less over heads
- Can develop prototype samples in 10 days after clearance
- Can fabricate and get the multi-cavity mould approved in 25 days after clearance
- Can add molding machines, if needed, in three months time
- Good at sustaining run rate there by giving no surprises to customers

# Contact

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## Annexure 1

### COMPANY Data

<b>Name of the Company</b>	<b>VARROC ELASTOMERS PVT.LTD</b>
<b>Quality Certification</b>	<b>ISO/TS 16949-2002</b>
<b>Nature of Company</b>	<b>Private Limited</b>
<b>Date of Establishment</b>	<b>22 November 2005</b>
<b>Registered New Address</b>	<b>E-4, MIDC Industrial Area, Waluj, Aurangabad-431136</b>
<b>Contact Nos.</b>	<b>0240-2556227</b>
<b>Fax No.</b>	<b>0240-2564540</b>
<b>E-mail Address</b>	<b>swamy.pj@varrocgrou.com</b>
<b>Annual Turn over</b>	<b>(USD) 5 million / (INR) 25 crores</b>
<b>Name of the Bankers</b>	<b>a. The Saraswat Co-op Bank Ltd, Aurangabad – 431136 b. HDFC Bank Ltd, Aurangabad – 431001</b>
<b>PAN of Income Tax</b>	<b>AACCV 1519L</b>
<b>Service Tax No.</b>	<b>AACCV 1519LST0001</b>
<b>VAT TIN</b>	<b>27430577492 v w.e.f. 07.12.06</b>
<b>CST TIN</b>	<b>27430577492 c w.e.f. 07.12.06</b>
<b>Plot Area</b>	<b>8100 m<sup>2</sup> OR 87000 SFT</b>
<b>Built Up Area</b>	<b>3000 m<sup>2</sup> OR 87000 SFT</b>
<b>Sanctioned Load</b>	<b>900 kw or 450 kva</b>
<b>Generator</b>	<b>200 kva</b>
<b>Number of staff</b>	<b>50</b>
<b>Number of indirect labor</b>	<b>250</b>
<b>Web site</b>	<b>www.varrocelastomers.com</b>

## Annexure -2

### List of Customers (Alphabetical Order)

1. Aryan Venture
2. Atul Auto Ltd.
3. Aurangabad Auto Engineering Pvt.Ltd.
4. Aurangabad Electrical Ltd.
5. Autocomp Corporation Panse Pvt Ltd.
6. Badve Engineering Ltd. (3wh Chassis Division)
7. Bajaj Auto Ltd.
8. Chandan Polymers Pvt Ltd.
9. Chandra Industries
10. Dhoot Transmission Pvt Ltd.- A'bad.
11. Endurance Magneti Marelli Shock Absorbers (I) Pvt.
12. Endurance Systems
13. Engg Enterprises Jaysinghpur
14. Ess Dee Industries - Chakan
15. High Technology Transsystems (I)Pltd
16. Jayco Industries
17. Joy Engg.Compound
18. Kaizen Plastomould Pvt Ltd.
19. K-Pri
20. Larson & Tubro Ltd Csvg Ebg,
21. Lombardini India Pvt.Ltd.
22. Lumax Auto Technologies Ltd. Unit-1
23. M/S. Baroda Timber Trading Co
24. Mahale Filter Systems Ltd.- Pune
25. Mahindra & Mahindra Ltd.- Nashik
26. Minda Corporation Ltd.- Pune
27. Piaggio Vehicles Pvt Ltd
28. Polyset Plastics Pvt. Ltd.
29. R K Packaging
30. Rohit Exhust System Pvt. Ltd.
31. Royal Enfield Motors
32. Sangam Steel Sheets - Alandi
33. Sanshu Industries
34. Shree Ganesh Press -N- Coat Ind Pvt
35. Sps Plastics Pvt Ltd.
36. Standard Spring & Metal Pressing Works
37. Top-Tech Electricals
38. Varroc Engg. Pvt. Ltd.- Vepl-I
39. Varroc Polymer Pvt. Ltd. (Vppl-I)
40. Videocon Industries Ltd.
41. Vishwas Moulders

## Annexure – 3

### List of Machinery

Sr.No.	Description	Qty.
1.	Hydraulic Presses	32 Nos
2.	Injection Presses	03 Nos
3.	HYD 25T	01 Nos
4.	MIXING MILL	03 Nos
5.	KNEADER	01 Nos
6.	BANBURY	01 Nos
7.	EXTRUDUDER	02 Nos
8.	BELL CUTTER	01 Nos
9.	LAB MILL	01 Nos
10.	SEMI AUTO WEIGHING SYSTEM	01 Nos
11.	LATHE M/C	02 Nos
12.	RADIAL DRILLING M/C	01 Nos
13.	MILLING M/C	01 Nos
14.	CNC M/C	01 Nos
15.	WELDING M/C	01 Nos
16.	POWER SAW	01 Nos
17.	BENCH GRINDER	01 nos
18.	PHOSPHATING PLANT	01 nos
19.	SHOT BLASTING M/C	01 nos
20.	BENCH GRINDER	14 Nos
21.	BELT POLISHER (GRINDER)	01 Nos
22.	LEATHER WHEEL ATTACHED POLISHER/GRINDER	01 Nos
23.	BOND TESTING M/C	03 Nos
24.	DRILLING M/C	02 Nos
25.	VACCUME TESTING M/C	01 Nos
26.	ENDURANCE TESTING M/C	01 Nos
27.	HEAT SEALING M/C	01 Nos
28.	FATIQUE TESTING M/C( Engine f. block)	01 Nos
29.	PNUMATIC TORQUE GUN(MIRANDA)	02 Nos
30.	PNUMATIC GRINDER KOBE MAKE	06 Nos
31.	D.G. SET 200 KV	01 Nos
32.	SCREW AIR COMP.	03 Nos
33.	RECI AIR COMP.	02 Nos
34.	D.G. CONTROL PANNEL 300 AMP	01 Nos
35.	MAIN ACB PANNEL	01 Nos
36.	Transformer	01 Nos
37.	Cooling Tower	01 Nos

## Annexure – 4

### List of Testing Equipment

Sr.No.	Description	Qty.
1	RHEOMETER	01 Nos
2	VISCOMETER	01 Nos
3	TENSILE TESTER	01 Nos
4	HARDNESS TESTERS	03 Nos
5	SPECIFIC GRAVITY TESTER	01 Nos
6	AGING OVENS	03 Nos
7	COMPRESSION SET APPARATUS	03 Nos
8	ANALYTICAL BALANCE	01 Nos
9	VERNIER CALIPERS	08 Nos
10	MICROMETERS	06 Nos
11	DEPTH GAUGE	02 Nos
12	RADIUS GAUGES	04 Nos
13	PLUG GAUGES	125 Nos
14	SNAP GAUGES	30 Nos
15	THREAD RING GAUGES	12 Nos
16	ENDUARNCE TEST MACHINE FOR ENGINE FOUNDATION BLOCK	01 Nos
17	ENDUARNCE TEST MACHINE FOR MM HOSE	01 Nos
18	VACCUM TEST MACHINE FOR MM HOSE	01 Nos