



TVS Rubber – Corporate profile



Introduction

Product range

Facility

Manufacturing capability

Design and product testing capability

Founded by T V Sundaram Iyengar in 1911, TVS Mobility serves as the holding company for businesses managed by the T S Rajam family.

TVS Mobility provides end-to-end mobility solutions, and it is committed to delivering world-class products and services.

Its group companies specialize in manufacturing, supply chain solutions, auto retail, aftermarket distribution, and services to a range of clients – both domestic and international.

TVS MOBILITY

25

Countries

US\$3 Bn.

Revenues

25,000

Workforce

TVS MOBILITY



TVS Rubber

Tailor made products for automotive, defense, railways, textile, mining, construction, and other industries



TVS Argomm

High precision safety critical parts like O-Rings, seals, gaskets used in automobile, Oil & Gas and pneumatics



Shore

Rubber and silicon hoses for Bus, Commercial vehicles, Rail, Marine, Industrial and off highway vehicles



TVS Airsprings

Air Springs used in truck, bus and train suspensions

TVS MOBILITY



TVS Eurogrip

Tyres used for 2 & 3 wheelers, ultra-light trucks, agricultural, industrial & Off highway vehicles



SUN TWS

Off-highway solid and pneumatic tyres



TVS Tread

Retread products, pre-cured tread rubber and other materials



TVS Sensing Solutions

Sensing solutions, solenoids, electromechanical assembly, switches & controls, input devices for EV, IoT

TVS MOBILITY



TVS Supply Chain Solutions

Manages 25 Mn. Sq. ft. of warehouse space present in 25 countries



TVS Automotive

Car services, accessories, insurance & roadside assistance



TVS Associated Auto Parts

Distribution of automobile components, spare parts & consumables



TVS Mobility Pvt. Ltd.

Dealerships for vehicle sales, service and parts. More than 150 outlets across India

Shore Auto



Organic Rubber Hoses



EPDM Hoses



Flexible Convoluted Hoses



Silicone Coolant Hoses



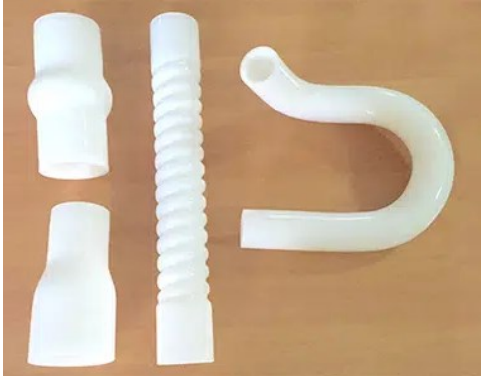
Turbocharger / Charge-Air-Cooler Hoses / Air-intake Hoses



Flame Retardant Railway Hoses



Marine Hoses



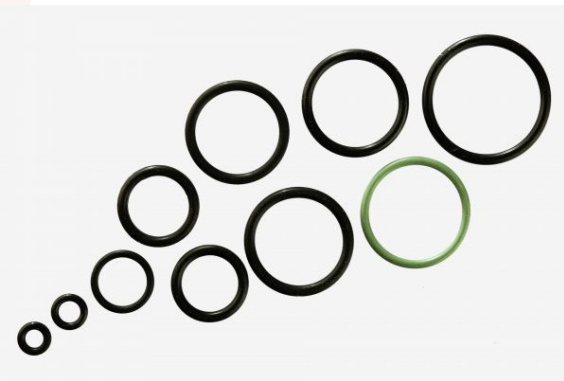
Transparent Platinum Cured Hoses

Transparent Platinum Cured Hoses

Silicone Heater Bulk Hose

TVS ARGOMM

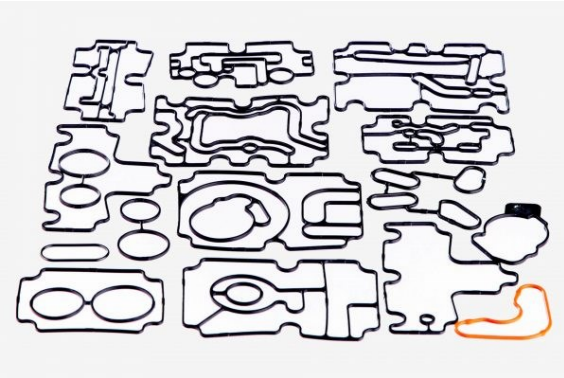
- TVS Argomm Pvt. Ltd. Is a joint venture between Sundaram Industries Pvt. Ltd. And Argomm S.p.A., Europe.
- Manufactures end to end sealing solutions for Automotive brake systems, Fuel injection, Power Steering, Engine, Air & Exhaust management, Sensors, etc.
- Product segments include O-Rings, Lip Seals, Gaskets amongst others
- Caters to critical Sealing solutions for Water filtration, Industrial Pneumatics, Oil & Gas, White Goods and others.



O-Ring



Fuel Injection Gasket



Frame Gasket Air Brakes



Seals



Brake Seals



Fuel Injector Seals



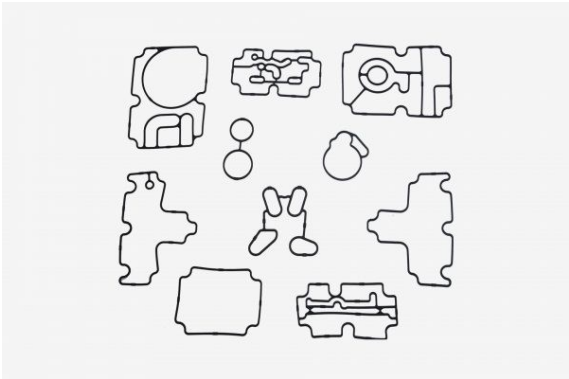
Grommets for Auto Electrical



Umbrella Valve, Fuel Injection
A TVS MOBILITY GROUP COMPANY



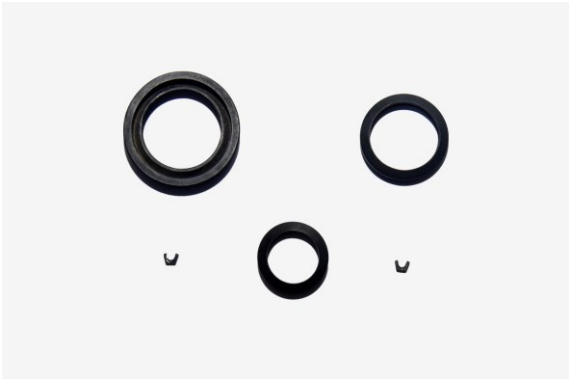
Liquid Silicon Parts



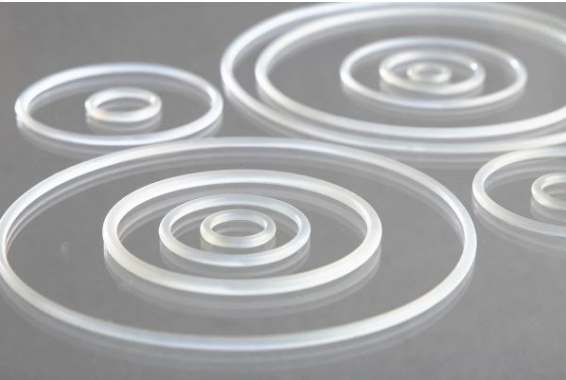
Profile Gasket



X Ring



U Ring



Silicone O-rings



Specialised Seals



Seals for Oil & Gas



Seals for Industrial Pneumatics

TVS Rubber

- We, Sundaram Industries Pvt. Ltd. are a leading Rubber compound developers and manufacturer of Rubber and Polymer products for various applications.
- We have a dedicated team of technologists in R&D, Manufacturing and Testing Lab.
- We have a Inhouse NABL accredited lab.
- Our Tool room houses VMC, CNC lathe, EDM, surface and cylindrical grinding, pantograph machines.
- Well connected with road (NH) Air and sea routes.
- Warehouses in India and overseas

Leading the Way in Rubber Solutions

60 +

Years of Excellence in Rubber

500 +

Rubber recipes in library

10 +

Industry segments catered

20 +

Countries serviced



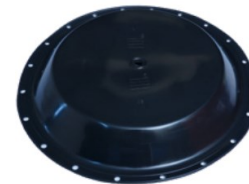
Metal to rubber bonded part: Engine mount



Rubber moulded part: Boot for joystick



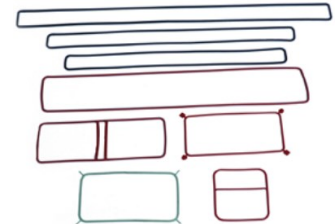
TPE part: Bellows



Fabric reinforced rubber part: Diaphragm



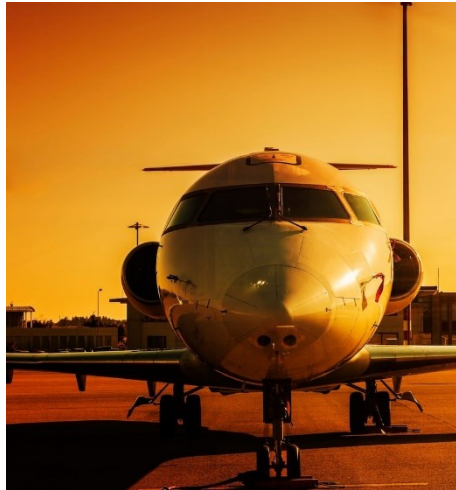
Rubber isolator part: Circuit braker component



Silicon & Rubber gaskets: HVAC



Automotive



Aerospace



Marine



Railways



Defence



Valves



Agriculture



Construction



Renewable Energy



Transmission & Distribution

Extreme operating temperatures



Extreme performance requirement

Exposure to UV & moisture



Lite weight

Exposure to chemicals & oils



Fire retardant

Abrasion resistance



EN45545 HL3

Certified
Compounds

Silicone Rubber

Chloroprene

EPDM

Compounds meet following specifications as per EN45545 HL3

1. Smoke generation
2. Heat release rate
3. Burning behavior
4. Toxicity

Introduction

Product range

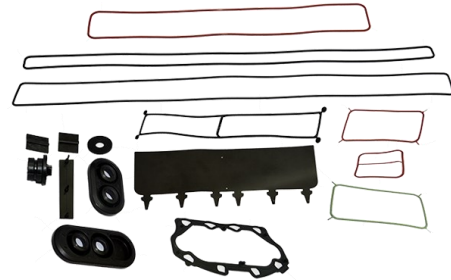
Facility

Manufacturing capability

Design and product testing capability



Anti vibration mounts



HVAC Systems



Steering system



Gear shift lever boots



Wiring harness system



Hydraulic brake system



Air brake system



Parking brake system



Oil seals



Trim parts



Other automotive parts



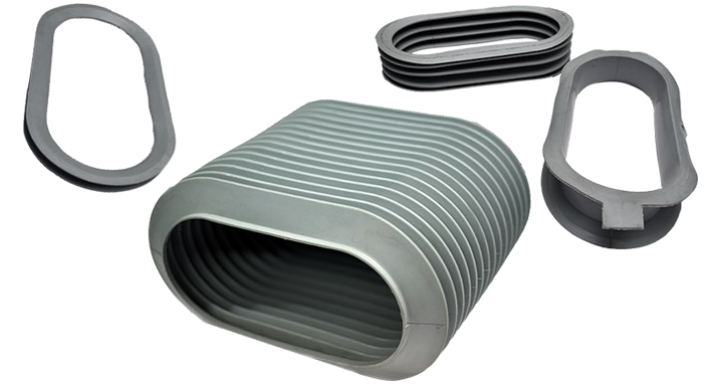
Defence

Various moulded rubber parts which demand high level of quality and endurance to perform in tuff terrain and environment.



Construction equipment

Seals, dust covers, gaskets, rollers, concrete pump accessories, etc.



Railways

Moulded rubber parts in large dimensions which are used in railway suspension systems, sealing requirements etc.



Textile

Specific moulded products for textile machinery manufacturers.



Thermal plant

special products for thermal plants such as seals and belts which are used in bowl mills, conveyors, gravimetric feeders etc.

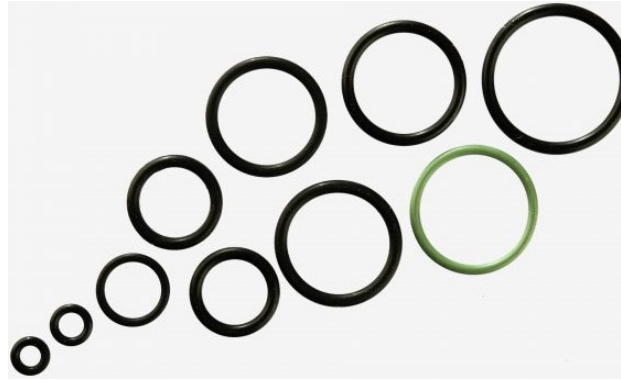


Industrial valves

Specialized valve diaphragm, seals and gaskets for large diameter industrial valves



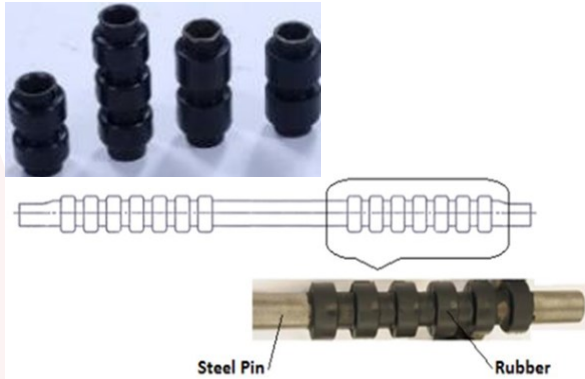
Tank wheel



Seals



Shields



Track pin



Rubber pad used in tank wheels

- Road wheel rubberization
- Support roller wheel rubberization
- Assembly rubber pad for tracks
- Gama seal
- Servicing and reconditioning of track link



Rubber track



Spherical rubber bearing



Spheriblocs



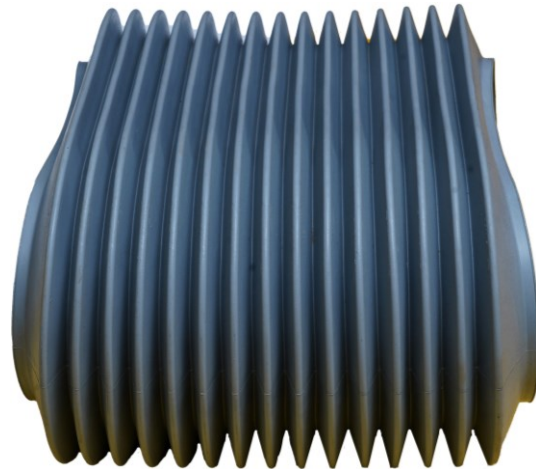
Conical spring



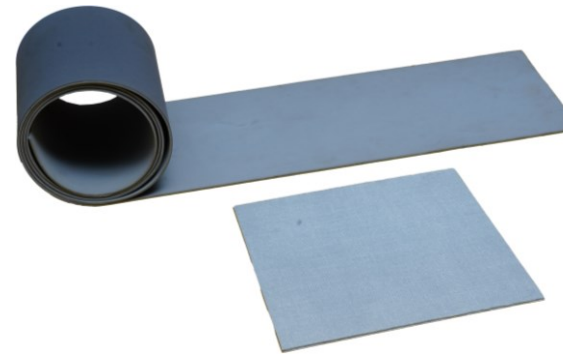
Air suspensions



Dampers



Gangway parts



Flat stock 1mm to 6mm thick

Tested for European railway standard for fire safety - EN45545 HL3

Material	Set requirements
EPDM & Silicon	R22/R23/R24
CR (Neoprene)	R24



Bellow



Rubber coupling



Fabric reinforced
rubber hose

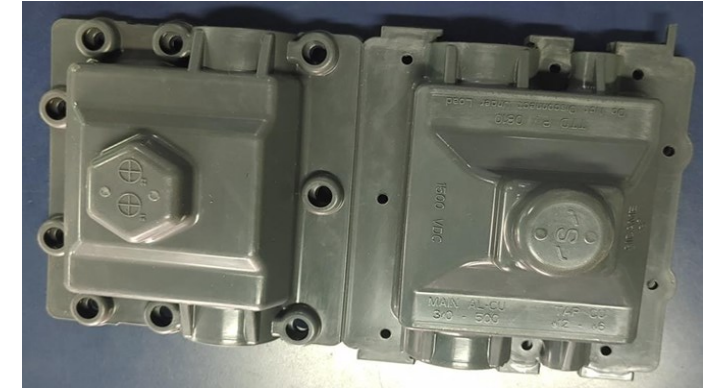




Diaphragm
- Valves segment



Gravimetric feeder belt
- Thermal segment



Mounts - Solar segment



Mounts - Wind segment



Pivot bush
- Air suspension segment



Metal to rubber bonded parts



Introduction

Product range

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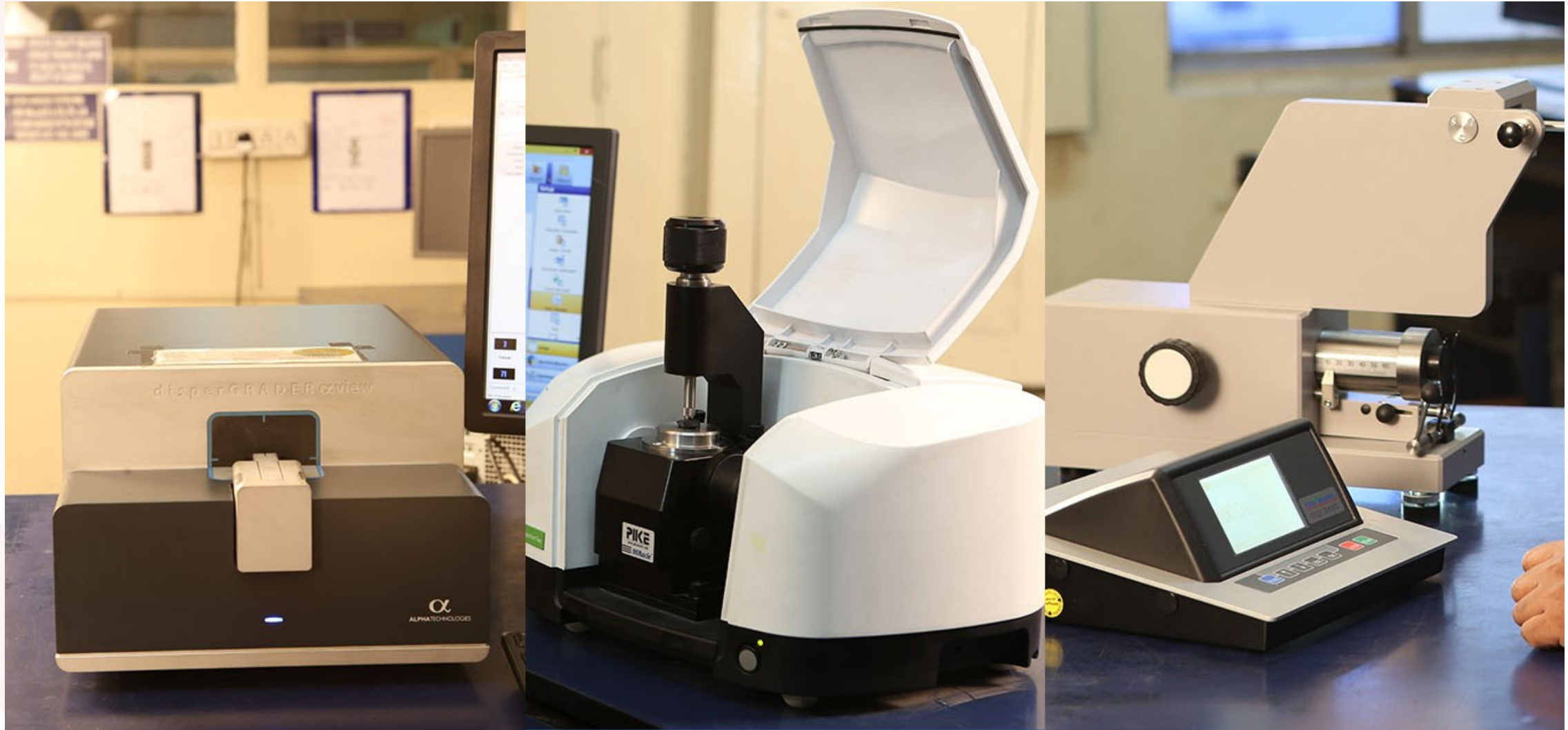
Design and develop compound to meet the specific requirement of rubber compound and test specifications. Dedicated kneaders to mix various polymers with computerized process monitoring system, automated chemical, carbon and oil weighing systems.



Semi-automatic compound preforming equipment which has highly sensitive controls for shape, weight and dimension of preformed slugs consistently.



State of the art equipment for testing compounds and to ascertain their quality before moulding. Facility houses DSC FTIR, dispersion analyser, environment chambers, tensile testing and many more.



In-house design & engineering centre for development of prototype and mass production multi cavity moulds. The state-of-the art equipment include CNC Lathe, VMC, spark erosion, pantograph milling and other necessary equipment.



Automated metal phosphating lines which ensures absolute cleaning and service preparation of metallic parts before taking up for moulding. Degreasing, adhesive coating, phosphating and shot blasting.



State of the art moulding equipment which include [compression, vaccum compression, transfer moulding, vertical injection and horizontal injection](#), equipped with process control monitoring system to ensure repeatability and consistency in quality of moulding.



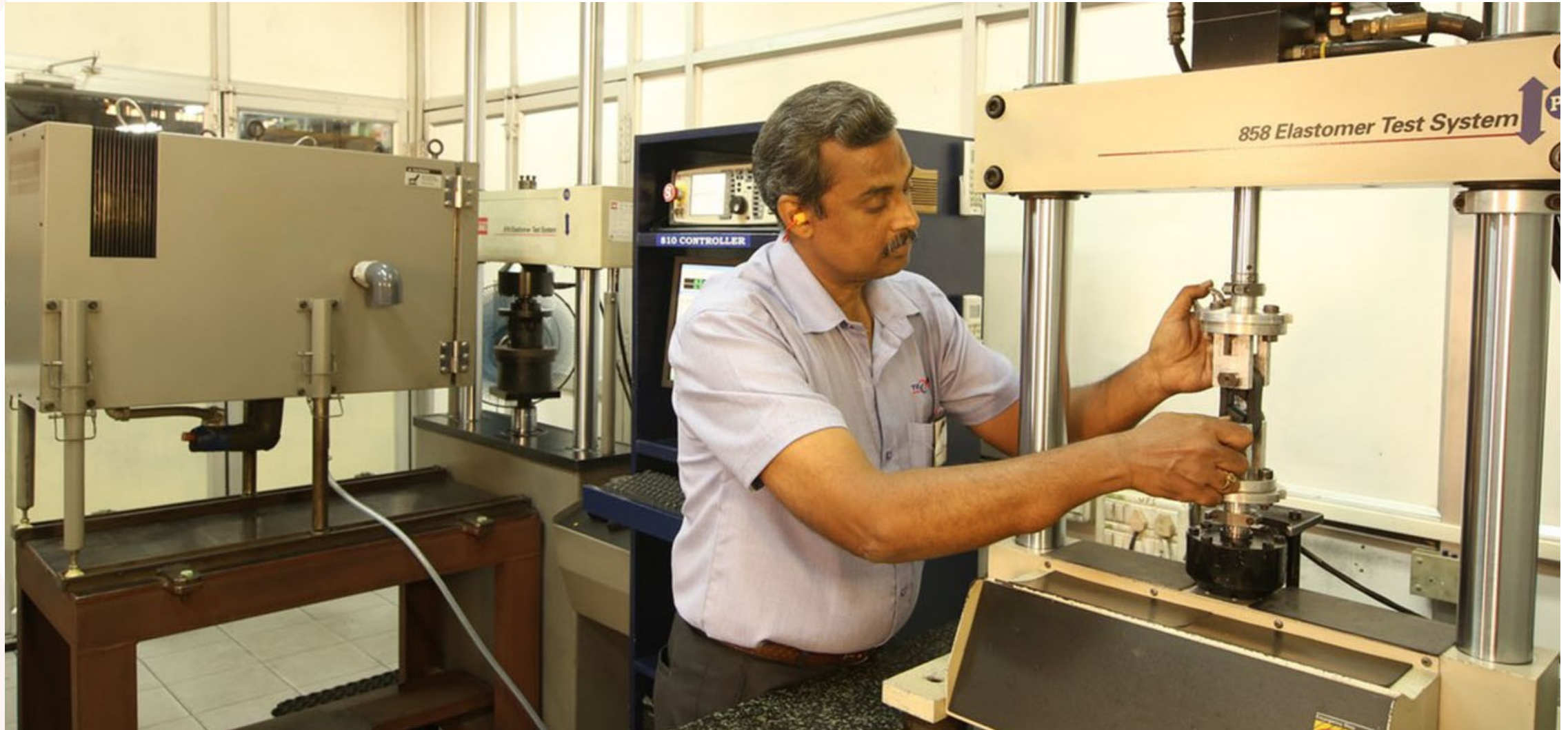
Facility equipped with semi automated de-flashing and finishing of molded parts.

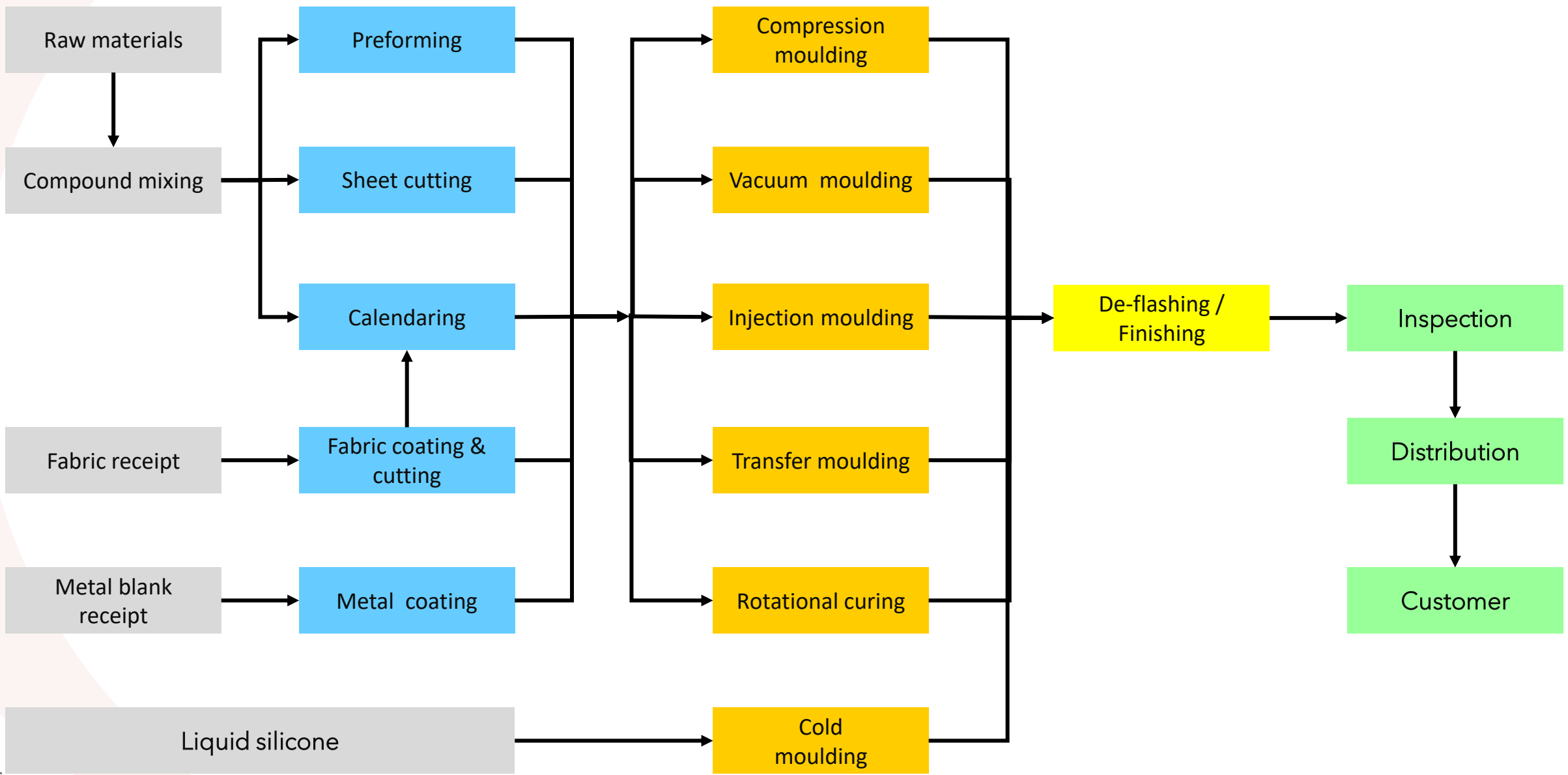


Trained inspectors ensuring defect free components



Dedicated department to design and develop test rigs challenging the customers' requirement on performance and endurance in various moulded parts.





Introduction

Product range

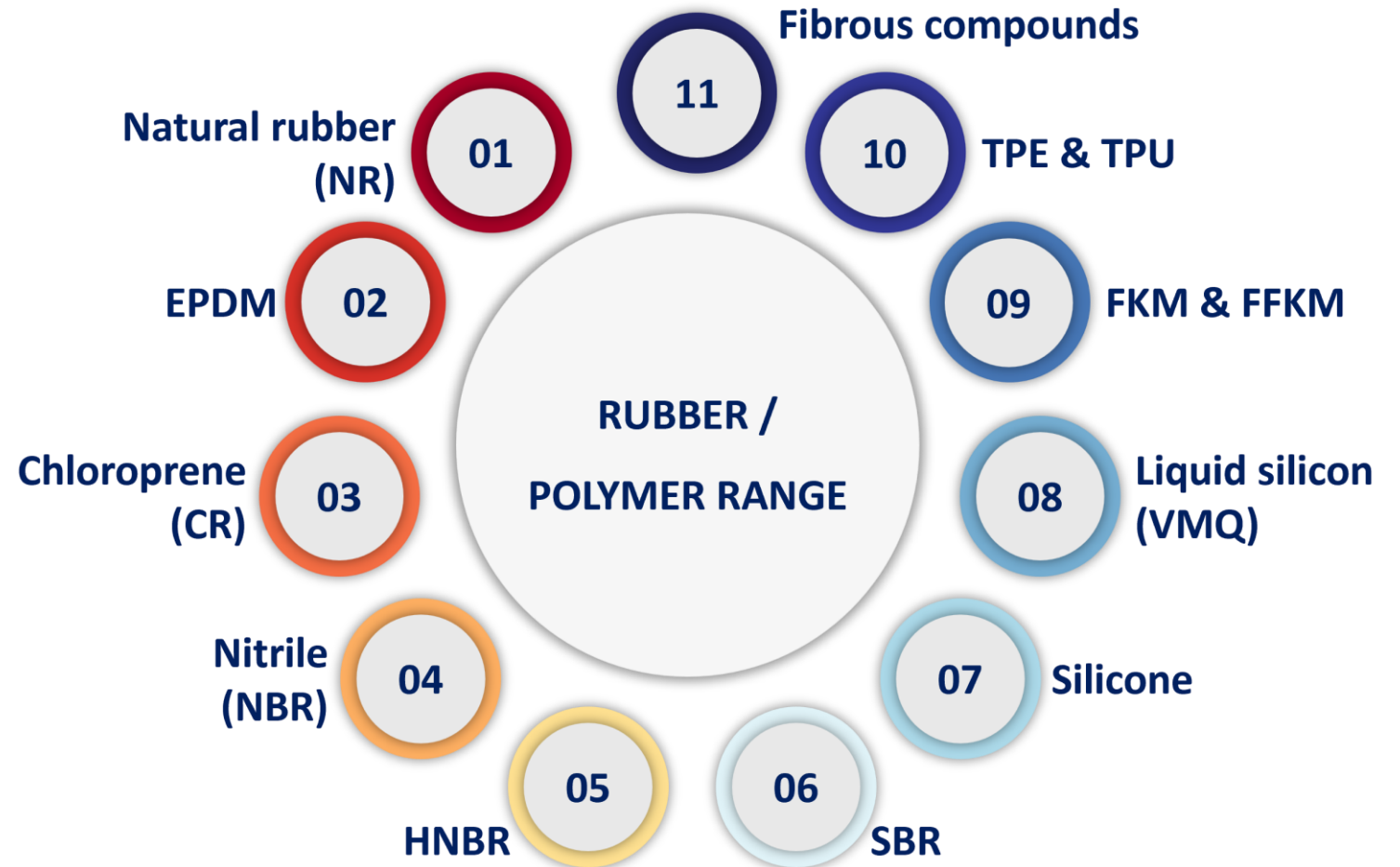
Facility

Manufacturing capability

Design and product testing capability

- Exclusive prototype facility
- Over 500 different rubber recipes in library
- Quick access of existing recipes by keying-in basic rubber properties
- On-line data integration with mixing unit
- Separate small-scale kneader to reflect production mixing conditions
- Reverse engineering capabilities

Black & Colour Compounds



- Rubber compounding facility has fully computerized chemical weighing systems with Poka-Yoke in place
- Mix are barcoded and stored in a fully airconditioned vertical storage facility with FIFO system.
- Preformers for making rubber slugs of correct weight and shapes
- Capable of sourcing steel, cast iron and aluminium parts
- Tool room housing VMC, CNC lathe, EDM, surface and cylindrical grinding, pantograph machines

System certifications

1. IATF 16949
2. IRIS
3. ISO 9001:2015
4. ISO 45001:2018
5. NABL Accredited lab

Special quality awards

1. TPM from JIPM
2. Q1 from Ford
3. VDA 6.3 from Wabco & ZF
4. SQ Mark from Hyundai
5. ASES from Renault Nissan



Introduction

Product range

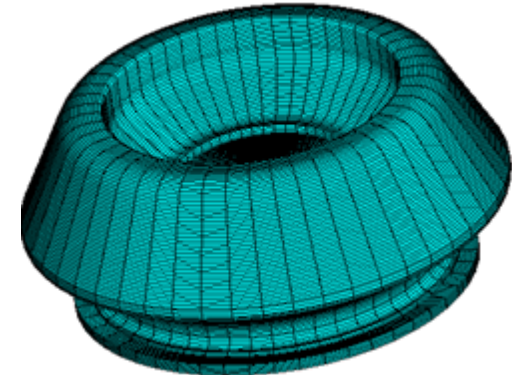
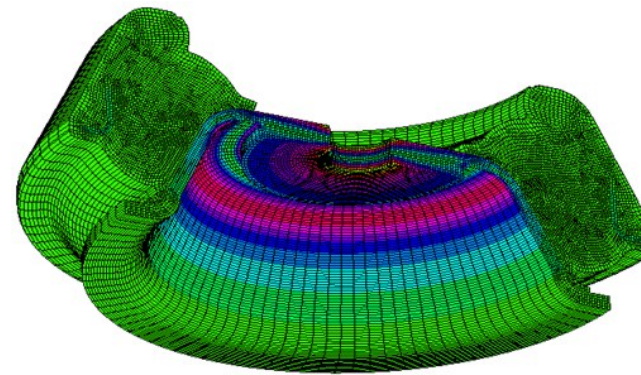
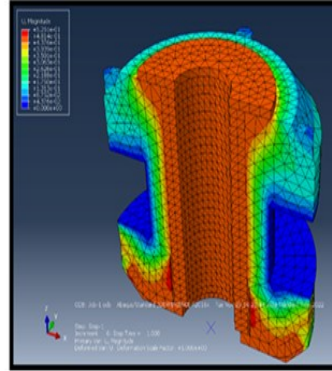
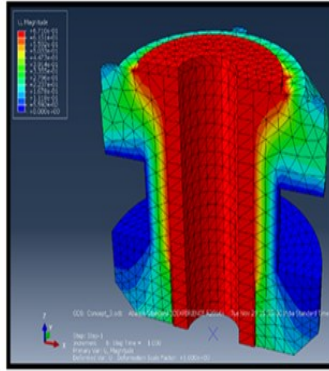
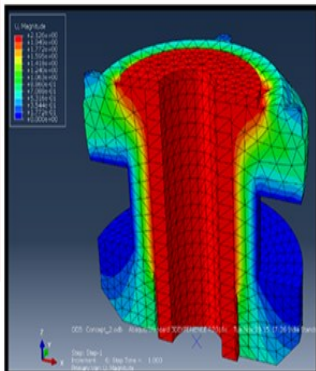
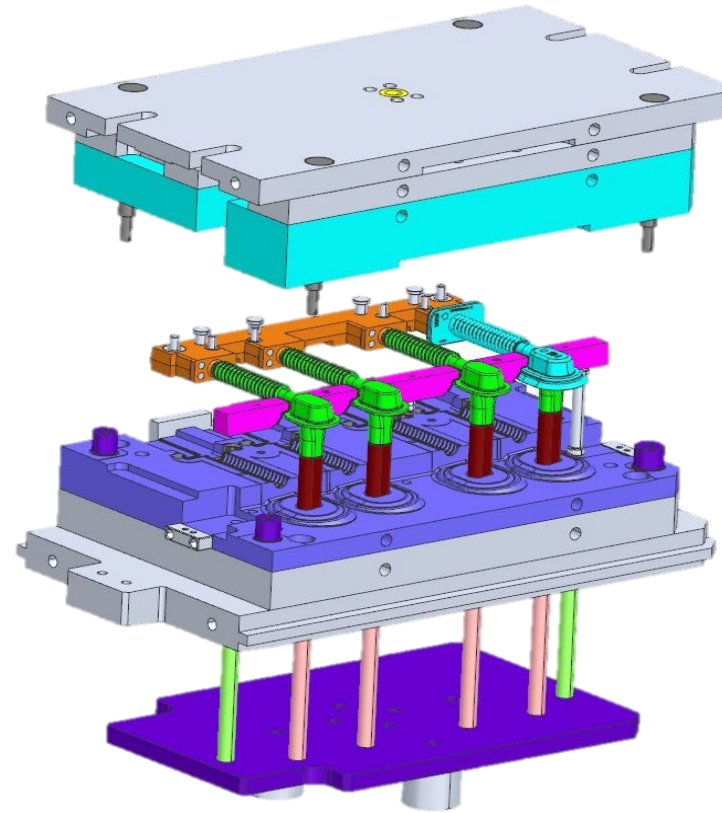
Facility

Manufacturing capability

Design and product testing capability

::: Design Capabilities

- 20+ Engineers and 10+ rubber technologists
- CAD/CAM interfacing
- Shared CAE facilities for Non-linear analysis
- Wide usage of TGR/TGW approach
- We use ABAQUS, SIEMENS NX and AUTOCAD software for designing

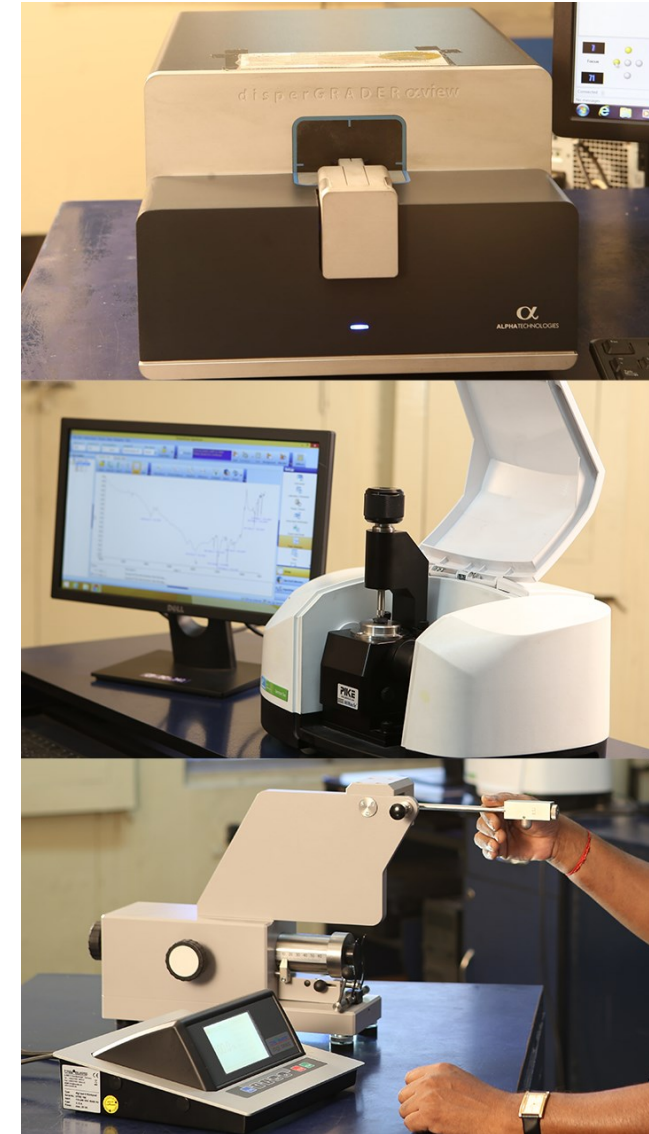


Product testing facilities

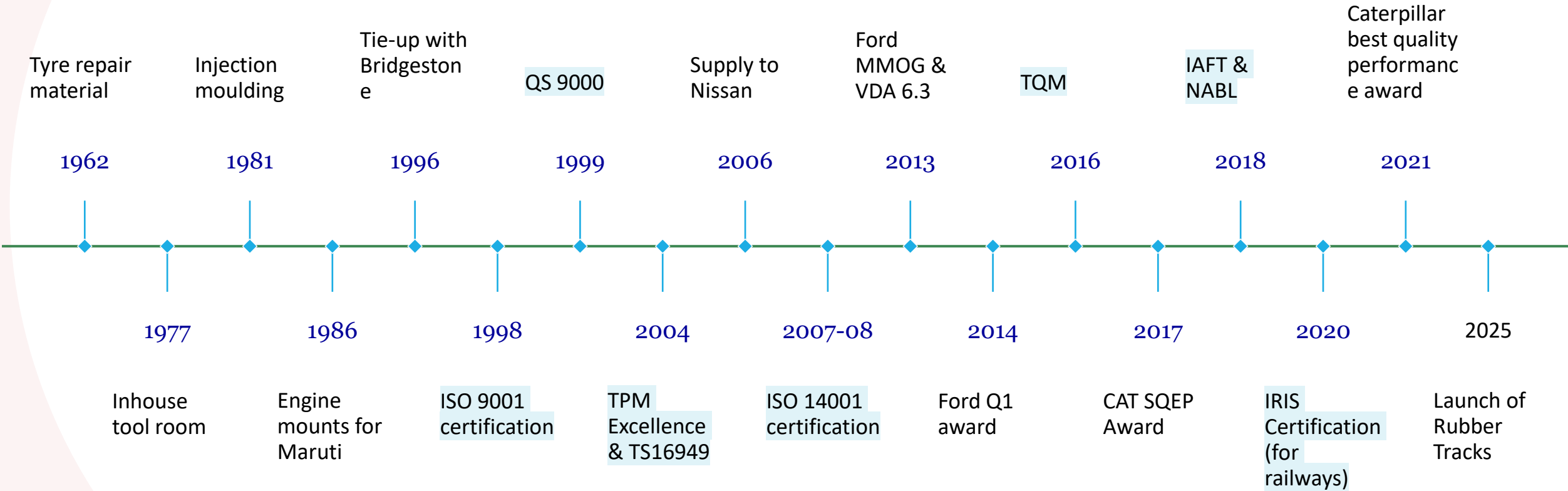
- 1. 50 Tons bi-axial testing equipment
- 2. 1 Ton static & 100 HZ dynamic testing equipment with environmental chamber
- 3. 2 Tons static & 100 Hz dynamic testing equipment
- 4. 10 Tons uni-axial endurance testing equipment with environmental chamber
- 5. 5 Tons bi-axial testing equipment
- 6. Radial test, Torsinol test, Axial test, Cardanic / conical test

State-of-the art laboratory housing

- | | |
|--|----------------------------|
| 1. Micro hardness tester | 8. Low temperature cabinet |
| 2. Dispersion analyser | 9. Demattia flex testing |
| 3. Thermo gravimetric analyser (TGA) | 10. Din abrasion tester |
| 4. Differential scanning calorimeter (DSC) | 11. Oscillating rheometer |
| 5. FTIR Spectroscopy | 12. Moving die rheometer |
| 6. Zwick UTM | 13. Specific gravity meter |
| 7. Ozone chamber | |



Significant Milestones



1. Strong knowledge of rubbers and polymers - enables us to suggest solutions for your development.
2. Catering to diverse industry segments with varied requirement - provides ample exposure to rubber applications and enhance our manufacturing capability.
3. Skilled human work force with technologists working in all functions – Constant process improvements in PQCDSM
4. Constant investments in modern equipment, R&D and training– makes us stay updated to industry trends and improvise our offerings.
5. Flexible manufacturing process – to handle different SKUs and deliver them on time in full.
6. NABL accredited testing laboratory and advanced manufacturing equipment delivering products certified to national and international quality, test standards and requirements.
7. Well established and stringent quality control – ensuring reliable and quality supplies.





TVS has a legacy of more than 100 years. The name you can trust on and build great partnerships.



One stop end-to-end solution - right from design and development to finishing – every operation is performed in-house.



We understand the importance of supply chain - Shorter delivery timeline and on time supplies.



Well networked supply chain to deliver products to any of your global facility



We will be your partner in growth. Not only meeting your specification – we go beyond to assist with your product enhancement and development plans.

Thank You

End of presentation. Thanks for your valuable time

Sundaram Industries Private Limited

Factory: Usilampatti Road, Kochadai, Madurai 625061, Tamil Nadu

Marketing office: No 14, Sudharshan Building 5th Floor, Whites Road, Royapettah Chennai 600014

Contact: +91 452 434 8888 | sirf.mktg@tvsrubber.com | <https://tvsrubber.com>