

SURLON

Surlon Group operates across three specific engineering domains with specialised companies building across the country. Our capabilities are aligned with industry needs, supported by strategically located facilities and a unified supply chain. Each of the four business verticals is focused on delivering high-performing components that are built for demanding applications. From material processing to final assembly, our integrated operations enable consistency, speed and large scalability across projects.



ENGINEERING PLASTICS

SURLON INDIA

Engineering Plastics
Casting, Extrusion,
Moulding, Machining
& Assembly,
Carbon Fibre

MOBILITY

Surlon Durel

Engineered
Components for
Rolling Stock

SEQUOIA SAFETY PRODUCTS

Hydraulic Dampers,
Pantograph,
Cast PUR
Products

SURLON ENGINEERING SOLUTIONS

Draft Gears, Semi
permanent couplers
& damping
systems

AEROSPACE DEFENCE & TELECOM

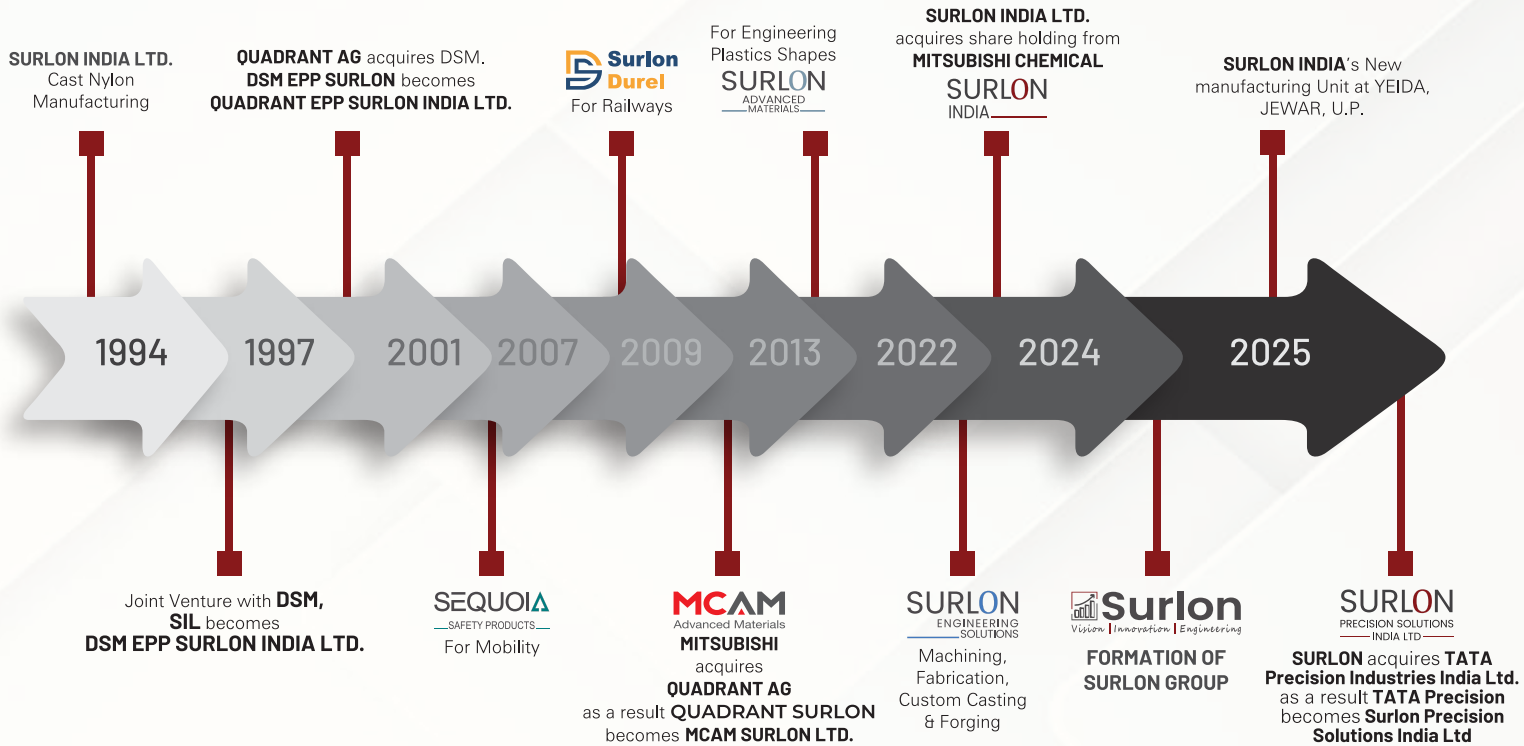
SURLON PRECISION SOLUTIONS INDIA LTD

Precision Machining
For Aerospace,
Defence & Telecom



ABOUT THE COMPANY

We design, develop and manufacture high performing engineering components that meet demanding technical requirements across Aerospace, Semicon, Electronics, Defence, railways, mobility, energy and industrial systems. Every product is built with precision. Every process reflects decades of experience. We solve real-world problems, continuously improve through research and push our ideas further to expand what's possible in modern manufacturing.



OUR PURPOSE

MISSION

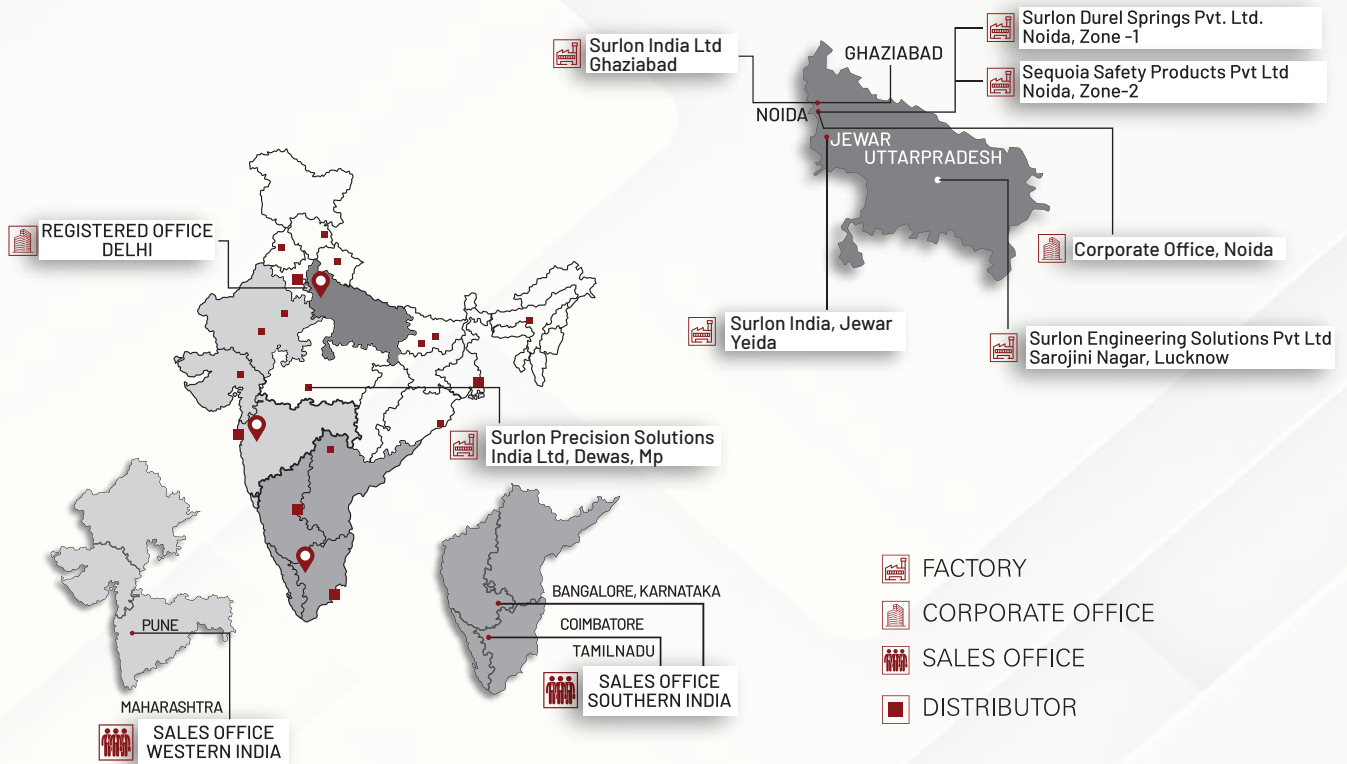
To develop high performing engineering solutions globally with a special focus on innovation, environmental responsibility and evolving customer needs. We strive for excellence in design, execution and client satisfaction through technology, precision and integrity.

VISION

To become a global leader in the advanced material & engineering solutions industry by continuously innovating, investing in tech and building a reliable ecosystem for growth. We aim to become leaders to deliver unparalleled customer satisfaction in the engineering industry.



WHERE WE WORK



SECT. 155, NOIDA, UP
MFG.AREA 34,000 SQ.FT.



SECT. 32, YEIDA, GBN, UP
MFG.AREA 1,30,000 SQ.FT.



UNIT-I, GHAZIABAD, UP
MFG.AREA 25,000 SQ.FT.



LUCKNOW, UP
MFG.AREA 10,000 SQ.FT.



Dewas, Madhya Pradesh
MFG.AREA 30000 SQ.FT.



PROCESS CAPABILITIES

MATERIAL PROCESSING

- Cast Nylon (Polyamide)
- Extrusion
- Cast PU Manufacturing
- Injection Moulding

COMPOSITES

- Composite Parts
- Metal Matrix Composites

RESEARCH & DEVELOPMENT

- Dedicated Research & Design teams focused on innovation
- State-of-the-art Polymer Testing Lab for performance validation
- Robust Inspection Setup for quality assurance

FABRICATION, ASSEMBLY & INSTALLATION

- Expert In-House Welding
- High-Quality Painting Facilities
- Advanced Plasma Cutting
- Streamlined Assembly Setup
- On-Site Installation Support

MACHINING

- State-of-the-Art dedicated Machining for Engineering Plastics – superior accuracy & consistency
- Dedicated Precision Machining for Metal Components – high quality & reliability
- Temperature-Controlled Shop for Plastics – stable dimensions & precision
- Clean Room Manufacturing – contamination-free, high-precision production



KEY STRENGTH AND OPERATIONAL APPROACH



1

WORLD WIDE REACH

Exporting solutions to USA, Europe, UK, Africa, Australia and Asia

2

RISING FOOTPRINT

5 Factories with new 20,000 m² site added in 2025

3

BUSINESS STABILITY

Technically-led YoY growth across core sectors

4

TURNKEY PROCESS

Design, prototype & production supported by tech investment

5

DIVERSE INDUSTRIES

Capital equipment, automobile, railways, aerospace and more

6

ADEPT WORKFORCE

700+ dedicated employees supporting development



SURLON TESTING LAB CAPABILITIES

ISO 9001:2015 CERTIFIED IN-HOUSE LAB FOR TESTING OF INCOMING MATERIAL AS WELL AS FINAL PRODUCTS DELIVERED TO CLIENTS.



MATERIAL CHARACTERISATION

DSC, Specific Gravity Tester, Melting Point Tester & Muffle Furnace to analyse polymer structure, thermal stability and density.



MECHANICAL TESTING

Universal Testing Machine (UTM), Compression Setup, Spring Tester, Servo Hydraulic & Endurance Tester to measure strength, load capacity and fatigue resistance.



SURFACE & WEAR PERFORMANCE

Wear Tester, Friction, Rockwell & Surface Hardness Tester Measure abrasion, Friction and Material hardness.



ENVIRONMENTAL SIMULATION

Hydrolysis Setup, Hot Air Oven and Xenon Arc Chamber test Resistance to heat, Humidity, and UV exposure.



ELECTRICAL & COATING EVALUATION

Meggar Meter, HV & DFT Tester to test insulation resistance, Voltage reliability and Coating thickness uniformity.



DIMENSIONAL INSPECTION CMM, VNM

Profile Projector to verify geometric tolerances, Edge quality and Dimensional precision.



ASSESSMENT

Evaluate technical feasibility with our design team



SELECTION

Choose material basis application needs



PROTOTYPING

Build and test the product prototypes



PRODUCTION

Full scale production with tech investment





DESIGN DRIVEN APPROACH

At Surlon Group, we do much more than manufacture. We visualise, innovate and then engineer solutions. Our in-house design team works at the intersection of your application needs and production feasibility to turn ideas into performance ready components. From concept modeling to testing, each stage is guided by technical precision. We collaborate closely with clients to solve complex design challenges and optimise for real-world use. This approach ensures faster development, better outcomes and long-term reliability right from our first design to the final delivery.

VISUALISE

We approach design from the concept stage with application intent, carefully analysing load paths, operating conditions, material behaviour, and service life to create solutions that are both robust and reliable.

INNOVATE

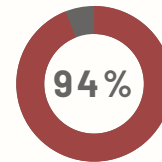
Innovation for us means anticipating industry challenges and co-creating engineering material-based solutions that solve problems before they turn into failures.

ENGINEER

With simulation and FEA, we move beyond appearance to predict real-world performance—ensuring each design withstands load, motion, and time in both production and service.

PRODUCT APPROVAL RATE

94% of our parts are approved in the client review: a result of precise design, application-specific engineering and in-process validation.



CORE PRODUCTS BY COMPANY



ADVANCED MATERIALS IN ACTION

Whether polymers, composites, or metals—our materials are selected based on performance in demanding environments. We design solutions that reduce wear, increase service life, and optimize load capacity across applications.



INTEGRATED ENGINEERING & DESIGN

Our in-house design and prototyping teams help bring complex ideas to life—from machined components to fabricated assemblies and hybrid systems for transportation, energy, and capital equipment. Engineering team is well equipped to carry out simulation and FEA offering robust solutions.



SMART MATERIAL COMBINATIONS

Where needed, we combine metal strength with polymer efficiency and composite resilience, ensuring safety, durability, and high strength-to-weight performance in every final assembly.



At the forefront of polymer engineering, Surlon India delivers advanced material solutions that redefine performance standards. Specialising in high-precision engineering plastics, the company supports critical applications where metal components reach their limits offering lighter, cleaner and more efficient alternatives backed by technical depth and industry experience.

Why These Products?

These engineering polymers outperform metals in applications requiring low weight, self-lubrication, corrosion resistance and electrical insulation. They offer superior wear resistance, lower thermal expansion and better chemical stability, making them more efficient and cost-effective than traditional metal components in high-performance environments.

General Engineering Plastics

- Materials like Cast Nylon, UHMW-PE, POM and PET are used in high-wear applications over commodity plastic. These plastics provide excellent machinability, low friction and moisture resistance, making them ideal for food processing, packaging, agriculture and mechanical systems. Available in various grades to suit sliding, impact or load-bearing conditions.

Our Products

- Metron® PEEK, Metron® PPS ideal for high temperature, chemically resistant applications.
- Engineering Plastics | MetaPOM® (POM H TF), MetaPET® (PET XL), MetaPUR
- Cast & Industrial Nylons | Metalon® (Cast Nylon) in grades including Oil filled, WFM, and MDS
- Specialty & General Polymers | Metalene® (UHMW-PE), PTFE and general-purpose materials like PVC, Polycarbonate, Polypropylene and HDPE.
- Precision-finished parts in rods, sheets, tubes or as CNC-machined components.

Advanced Engineering Plastics

- We offer Metron® PEEK and Metron® PPS in a range of grades, colours and profiles to suit diverse industrial applications. These high-performance polymers are designed for continuous use up to 260°C. With outstanding mechanical strength, dimensional stability and chemical resistance they are chosen to perform in environments where metals corrode, deform or require frequent replacement.





Surlon Durel specialises in engineered polymer-based spring and damping systems used in critical mobility and heavy-duty applications. We supply high-performance components for railways, cranes and material handling equipment, offering solutions that are lighter, maintenance-free and built for long service life in demanding environments.

Our Products

- Polymer Springs for draw gear, coupling systems and buffer applications
- Side Buffers and Dampers for primary and secondary suspension
- Draft Gear Systems, Buffer Springs and Buffers
- Vibration Dampers and Wear Bearings
- Pipe Joint Bells for expansion and flexible alignment
- Customised Components built to your design specifications

For Railways

- Our products are used in buffers, couplers, draft gears and suspension systems across Indian Railways and metro applications. They are engineered for high deflection, consistent energy absorption and fatigue resistance. We are the only manufacturer in India producing side buffers compliant with UIC EN 15551. All components are designed for long service cycles with low maintenance requirements, supporting both conventional and modern rail systems.

For Crane & Material Handling

- We supply dampers, pipe joint bells and polymer shock elements used in cranes, hoists, and gantry systems. These components are designed to reduce mechanical stress during lifting, absorb vibration and allow axial flexibility in joints. Custom sizes, stiffness ranges and profiles are available to suit load capacity and operational conditions in heavy-duty handling environments.





Sequoia Safety pioneers engineering solutions for rail, metro, defence, and industrial sectors, combining advanced technology with a commitment to reliability and safety. Our expertise ensures products that perform under extreme conditions while meeting international quality benchmarks. Guided by continuous innovation, Sequoia strengthens India's Make in India and Atmanirbhar Bharat missions through world-class design and manufacturing excellence.

Our Products

- Hydraulic Dampers & Shock Absorbers for Railways, Metros, Defence Vehicles
- Saloon Door Rollers for Automatic Metro Doors
- Cable Cleats & Polyamide Liners for Electrical Safety
- PG Clamps (Parallel Groove & T-Type) for Jumper and Electrical Connections
- Anti-Bird Discs & Dropper Clips for Overhead Equipment
- Pantographs (High Speed & High Reach) with ADD & ORD safety features
- Covers for 3rd Rail, Rapid Metro and Conductor Rail Protection
- Runflat Tyre Systems for armoured and utility vehicles
- Elastic Rings for Electric Locomotives
- Polyurethane Components including Rollers, Buffers, Scraper Sheets & Custom Industrial Part



Where It's Used

INDIAN RAILWAYS

Primary & Secondary Suspension, High Speed Trains, Metro, Rapid Rail and Inter City Train.

METRO SYSTEMS

Electrical and vibration isolation, door assemblies, safety hardware

DEFENCE MOBILITY

Runflat systems, shock protection, field-resilient Dampers, Durable Suspension Components

Urban Transit & Electrification

Cable Safety Solutions, ROCS Covers, Energy-efficient fittings

INDUSTRIAL APPLICATIONS

Polyurethane Rollers, Buffers, and Custom PU Components for OEMs





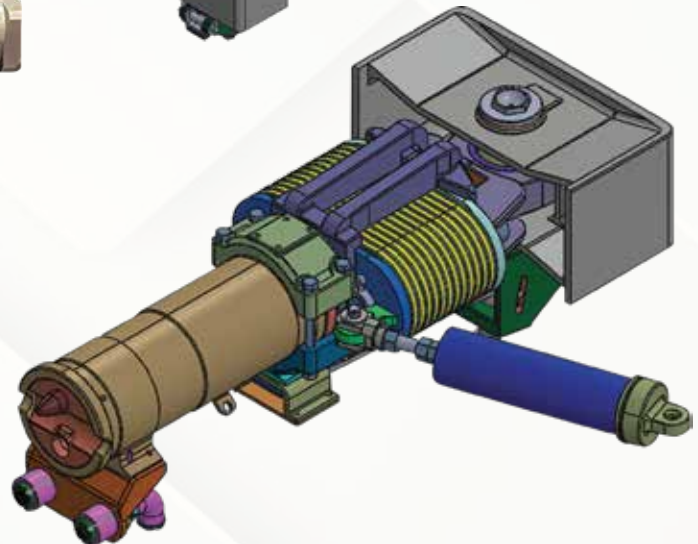
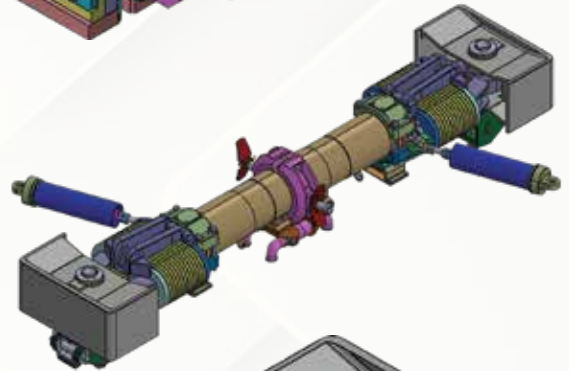
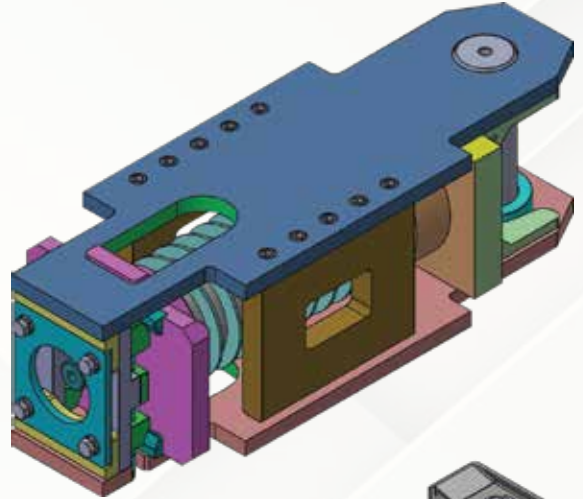
Surlon Engineering delivers durable and high performing complex assemblies for the transportation, infrastructure and industrial sectors. With advanced CNC machining, welding and metalworking capabilities, we offer end-to-end solutions from prototyping to production meeting stringent dimensional, load-bearing and durability requirements.

Engineering-Led Execution

- Our processes are built around precision, repeatability and performance validation. Every part is supported by 3D modelling, FEA & Simulation GD&T-compliant tolerancing and inspection protocols to ensure application-specific reliability.

Our Products

- Precision-machined components in aluminium, steel and composite-backed polymers
- Fabricated assemblies for structural, mechanical and transport applications
- Welded structures and mounts for heavy-duty use
- Custom fixtures and brackets for OEM systems
- Semi permanent couplers, soft draft gear, earthing device, etc.





Surlon Precision Solutions India Ltd. is a trusted name in precision manufacturing, with a legacy that traces back to its origins as Tata Precision Industries (India) Ltd. Known for its strong engineering backbone, the company delivers high-quality, precision-engineered components and assemblies across aerospace, defence and telecommunications. With decades of experience and a sharp focus on consistency and process excellence, Surlon has built a reputation as a dependable manufacturing partner.

Our Expertise

- Precision CNC Machining & Turning
- High-Tolerance Sub-assemblies for Aerospace, Defence, and Telecom
- Critical Components for Automotive & Industrial Applications
- Instrumentation, Analytical Devices & Process Equipment Parts
- Fully Integrated Product Development & Prototyping

Our Products & Applications

- Precision Components for Aerospace & Defence
- Telecom & Satellite Sub-assemblies
- Industrial Machinery & Automotive Parts
- Specialised Instrumentation & Analytical Parts
- Fabricated Structures & Assemblies

Our Advantages

- **PRECISION & QUALITY ASSURANCE**
Stringent QC, metrology, and inspection using industry-leading tools ensure that every product meets the highest standards.
- **STATE-OF-THE-ART FACILITIES**
Modern CNC machinery, clean environments for assemblies, and advanced fabrication capabilities allow us to deliver consistency and reliability.
- **COMPLIANCE & CERTIFICATIONS**
Adherence to aerospace, defence, and industrial norms ensures timely delivery and consistent performance.
- **INNOVATION & SUPPORT**
Our dedicated teams provide full support from design to prototyping, iterative modifications, and value engineering.
- **TRUST & LEGACY**
As part of Surlon India Ltd., the Tech Center is a hub of innovation and excellence in precision engineering, driving long-term partnerships and global competitiveness.





HUMAN RESOURCES

At Surlon Group, we build more than products. We build people. Initiatives like Connect & Collaborate, an engagement platform, encourage open dialogue and team work while experience driven events help strengthen bonds across teams and locations. High employee satisfaction reflects our ongoing commitment to building a people-first organization.



SUSTAINABILITY



GREEN MANUFACTURING

We focus on energy efficiency, waste reduction, and emissions control in all our production processes.



WATER CONSERVATION

Rainwater harvesting and recycling systems are implemented across facilities to preserve this critical resource.



RENEWABLE ENERGY

We've invested in solar power and other clean energy sources to reduce dependency on non-renewables.



AWARENESS & ENGAGEMENT

We run internal campaigns, training programs, and community initiatives to foster environmental responsibility at every level.



LINKEDIN



SURLON GROUP



SURLON INDIA



BROCHURES



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