



PANTOGRAPH

For Safe & Efficient
Power Transfer in Railway System

SEQUOIA

— SAFETY PRODUCTS —

www.sequoia-safety.com | www.surlongroup.com



Surlon

Vision | Innovation | Engineering

Pantograph: Engineered for Safe Current Collection

Sequoia Safety pantographs are equipped with highly advanced Protective mechanisms to ensure safe and reliable operation. These protective features respond automatically to abnormal conditions, preventing electrical overloads and mechanical overstress. By reducing the risk of damage during faults or sudden disruptions, they significantly enhance operational continuity and long-term system integrity.

Built-in Safety Features

ADD - Auto Drop Device

Automatically lowers the pantograph in case of loss of contact or electrical fault, protecting both the equipment and the catenary.

ORD - Over Reach Detection

Accurately detects excessive extension beyond the safe limits and triggers a controlled drop to prevent mechanical damage.

TECHNICAL SPECIFICATIONS

- Maximum Operating Speed: 250 km/h
- Rated Current (Running): 600 A
- Rated Voltage: 25 kV AC
- Rated Current (Standstill): 80 Amps.
- Working Range:
 - High Reach Pantograph - 150 mm – 3600 mm
 - High Speed Pantograph - 100 mm – 2200 mm
 - Freight Pantograph - 250 mm – 2200 mm
- Locked Down Height: 295 ± 5 mm
- Electrical Clearance: ≥ 250 mm
- System Weight: Approx. 180 kg (without insulators)



FREIGHT PANTOGRAPH



HIGH REACH PANTOGRAPH

FIRST IN INDIA

Fully designed, developed & engineered high-reach rail Pantograph, proudly made in India by the Surlon Group.

High-Speed Performance and Proven Reliability

Our pantograph is designed for modern electric traction systems, combining compact construction with high mechanical stability and ease of maintenance. With a robust structure and safety features integrated into its core design, it delivers reliable performance under the toughest operating conditions.

KEY FEATURES

COMPACT AND LIGHTWEIGHT DESIGN

Engineered for high-speed rail applications with reduced roof load and space efficiency

RELIABLE & COST-EFFECTIVE

Designed for durability & efficient performance while minimising lifecycle costs

INTEGRATED CONTROL SYSTEMS

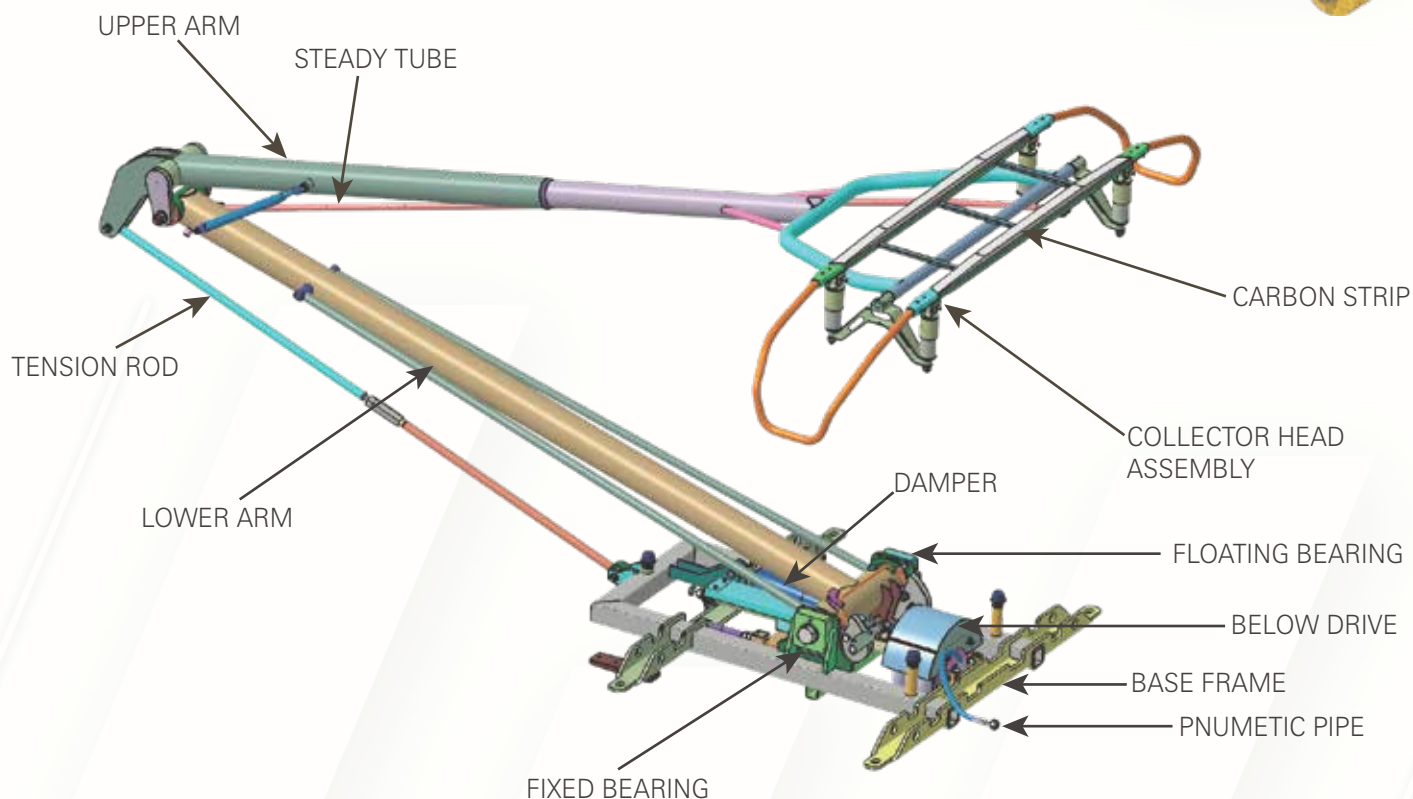
Available with a full range of pantograph control options for seamless operation.

LOW MAINTENANCE

Features long-life grounding contacts and simplified servicing for reduced downtime.



HIGH SPEED PANTOGRAPH



Proven Solutions for Modern Rail Systems Backed by Global Standards

Sequoia's pantographs are engineered to deliver reliable current collection under highspeed, high-vibration conditions. With a robust structure, modular design, and ease of maintenance, our systems are built to meet the demands of modern electric locomotives.



Compliance & Certifications

Manufactured in strict accordance with internationally recognised standards and safety regulations:

- IEC 60949-1
- IEC 61373
- IEC 62486

Key Applications

- Indian Railway Locomotives
 - High Reach Pantograph
 - High Speed Pantograph
 - Freight Pantograph
- Metro Coaches
- Individually Configured Pantograph
(Adapted for Customer Requirements)



LINKEDIN



SURLON GROUP



SSPPL



BROCHURES

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