



**SEQUOIA**  
SAFETY PRODUCTS

A  **Surlon** Group Company  
Vision | Innovation | Engineering



## CABLE CLEAT

Our Cable Cleats are engineered to securely fix, retain, and support cables, ensuring long-term reliability and safety. Designed in-house and trusted by DMRC, these cleats are crafted from 304/316 stainless steel, offering superior protection against the harshest environmental conditions and deterring cable theft.

Built to meet IEC 61914 standards, our cleats are the perfect solution for securing high-tension (HT) cables, combining durability with performance for critical infrastructure needs.



## POLYAMIDE LINER

Developed by Sequoia Safety, our Polyamide Liners are trusted by DMRC and Mumbai Metro to ensure safe and efficient cable management. These liners provide a secure foundation for high-voltage cables, preventing current leakage and minimizing the risk of electrical damage or localized overheating.

### BENEFITS OF POLYAMIDE LINER

#### ENHANCED ELECTRICAL SAFETY

Prevents current leakage, ensuring reliable performance.

#### PROTECTION AGAINST HAZARDS

Shields against voltage hazards and localized overheating.

#### LOWER TOTAL COST OF OWNERSHIP (TCO)

Reduces maintenance needs and extends equipment life.



## PG CLAMP COMPRESSION TYPE

SEQUOIA SAFETY has recently developed Compression Clamps designed to connect copper cables of the same or varying cross-sections, ensuring full current flow and optimal performance. Trusted by DMRC, these clamps are installed using hydraulic compression tools and are ideal for heavy industrial applications.

### APPLICATION

- JUMPER CONNECTIONS
- ELECTRICAL CONNECTIONS



Main Conductor	Main Conductor	Branch Cable	Compression Tool	Dimensions [mm]			
				H	L	D	d
Compression Clamp [65/26]	Catenary 65 mm <sup>2</sup>	Jumper 26 mm <sup>2</sup>	SQ 700	48	30	8	11
Compression Clamp [65/164]	Catenary 65 mm <sup>2</sup>	Jumper 164 mm <sup>2</sup>	SQ 700	48	30	19	11
Compression Clamp [120/120]	Catenary 120 mm <sup>2</sup>	Jumper 120 mm <sup>2</sup>	SQ 700	48	30	17	14.5
Compression Clamp [65/120]	Catenary 65 mm <sup>2</sup>	Jumper 120 mm <sup>2</sup>	SQ 700	48	30	17	11
Compression Clamp [120/26]	Catenary 120 mm <sup>2</sup>	Jumper 26 mm <sup>2</sup>	SQ 700	48	30	8	14.5
Compression Clamp [145/165]	Feeder Wire 145 mm <sup>2</sup>	Jumper 165 mm <sup>2</sup>	SQ 700	48	30	19	19

## T-TYPE & NORMAL PARALLEL GROOVE CLAMPS - BOLT TYPE

SEQUOIA SAFETY's Parallel Groove and T-Type Clamps are designed to connect two parallel conductors and Contact Wire respectively.

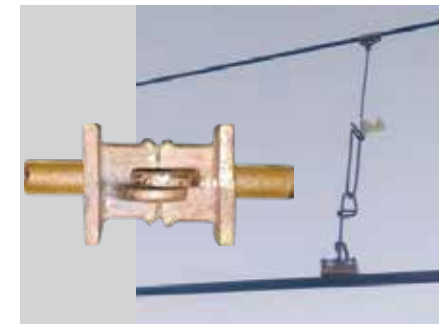
**NORMAL PG CLAMP**



**'T' TYPE CLAMPS**



**PG CLAMPS**



## HYDRAULIC CRIMPING TOOL

### TECHNICAL SPECIFICATION

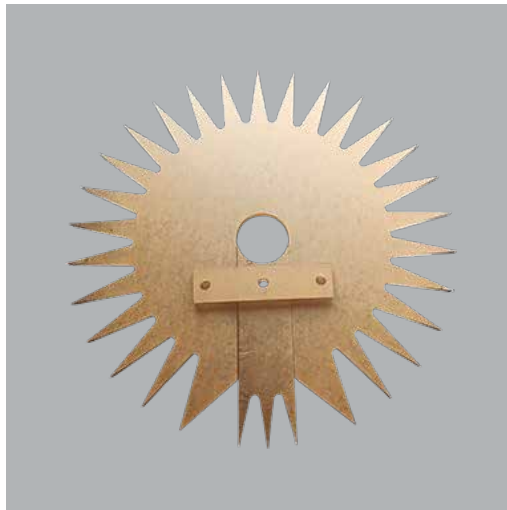
- Model No:- SQ-700D
- Crimping Profile:- For crimping
- Various Compression type connector, as like: 65/26, 65/164, 120/120, 65/50 etc
- 'T' Type connector, 26 Sqmm, 164sqmm, 120 sqmm etc
- Crimping Capacity: -10mm<sup>2</sup> to 630mm<sup>2</sup>.

### CRIMPING DIES

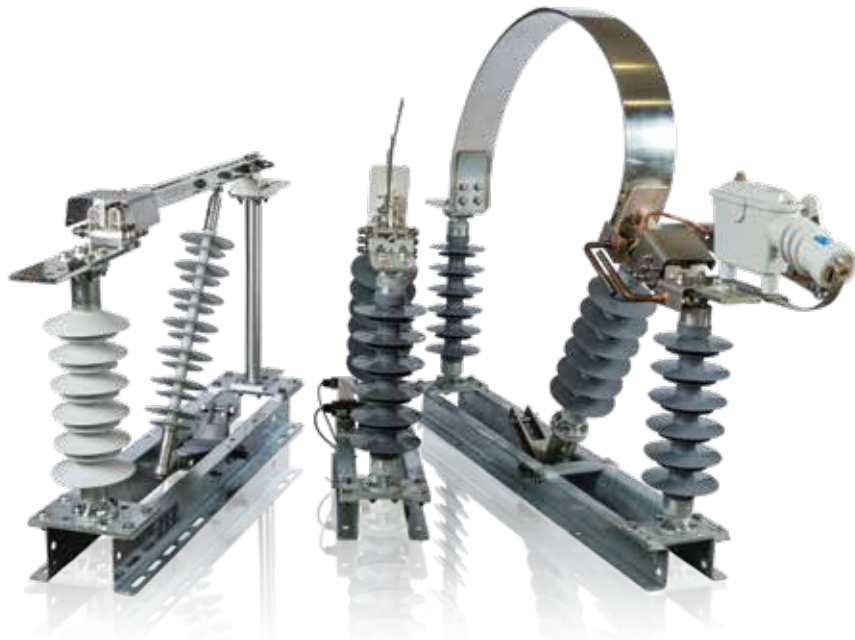
- Special crimping die for compression type connector (Size 65-164 sq. mm, 65-26 sq. mm, 164-145 sq. mm & 164-164 sq. mm).
- Hexagonal die for 164 sq. mm & 26 sq. mm for compression cum bolted type-Tconnector.



## ANTI BIRD DISK



**Railway Electrification**  
Switching Devices Swiss Engineered



**ROCS**

Water seepage within tunnels can cause corrosion on conductor rails, compromising performance and safety. To prevent corrosion and bi-metallic corrosion between the conductor rail and contact wire, Sequoia Safety provides a comprehensive plastic protection cover system.

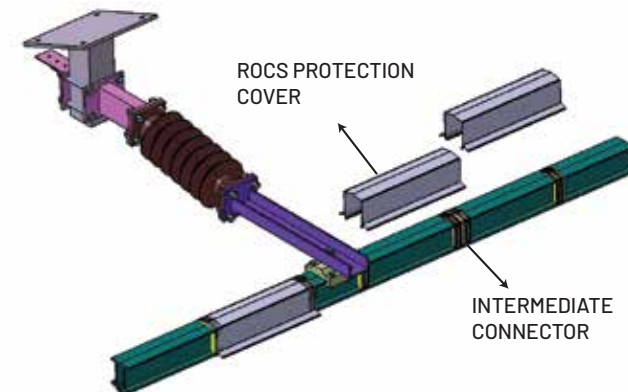


**OUR SOLUTION INCLUDES**

- Protection Covers for conductor rails
- Connectors and End Stopper Covers
- Covers for Cantilever Support Brackets

Features and benefits

- All steel parts either in stainless steel or hot-dip galvanised
- Solid and stable base frame
- Minimal sag for the line-connection thanks to the two fixed terminals
- Fixing on the supporting structure either by clamps (free setting) or screws (holes in the base frame)
- Easy on-site installation and setting
- High reliability: up to 10'000 cycles
- All conducting parts either silver, nickel or tin-plated
- Practically maintenance-free



## HYDRAULIC DAMPERS

Hydraulic dampers are a critical component in the damping systems of passenger coaches, locomotives, and metro vehicles, playing a key role in ensuring smooth dynamic performance and passenger safety. Their reliability and quality are essential for governing the stability and safety of high-speed trains.

At Sequoia Safety, our hydraulic dampers meet the stringent requirements for modern rail and defence applications, designed to perform in high-speed environments. With a focus on innovation and durability, we aim to become a leading manufacturer of safe, high-quality damping solutions for railways and defence systems.

### APPLICATION

- ELECTRIC & DIESEL LOCOMOTIVES
- PASSENGER COACHES (LHB, VANDE BHARAT)
- INTERCAR
- METRO SYSTEMS
- VANDE BHARAT



## SALOON DOOR ROLLER FOR AUTOMATIC DOORS

- Both types of our Saloon Door Rollers were rigorously tested by DMRC on specialized test jigs, successfully completing 2 lakh operations during the first trial phase..
- Since December 2022, these rollers have been undergoing field trials on DMRC trains, delivering satisfactory performance and ensuring smooth, reliable operations.



## HIGH REACH, HIGH SPEED & FRIEGHT PANTOGRAPH

A pantograph is a system of articulated arms mounted on the roof of locomotives, designed to transfer power from overhead contact lines to the electric traction unit. It unfolds and extends along a vertical axis, collecting current through contact strips mounted on the pantograph head. The number and type of contact strips vary based on the current intensity and catenary conditions.

Our pantographs are equipped with advanced features like Auto Drop Device (ADD) and Over Reach Detection (ORD) to ensure safer and more reliable operation in high-speed environments.

### APPLICATION

- INDIAN RAILWAY LOCOMOTIVES
- DELHI METRO COACHES

Customized pantographs tailored to meet individual customer requirements



## COVER FOR 3RD RAIL, RAPID METRO



NORMAL THIRD RAIL COVER



RAMP COVER



EXPANSION JOINT COVER



CABLE TERMINATION COVER

## COVER SUPPORT BLOCK

