



NEW CATENARY SYSTEM

Innovation for safe and installation-friendly conductor stringing near live lines

NO INDUCTIVE IMPACT

ON THE CABLE

1 ROLLER BLOCK

FOR FOUR CABLES

2 CONDUCTORS

REPLACED SIMULTANEOUSLY

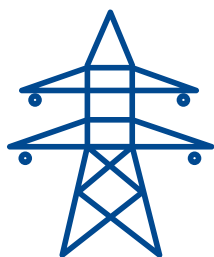
TOOL-FREE

INSTALLATION

DOUBLE SAFETY

MEASURES INTEGRATED

TRANSMISSION GRIDS



The New Catenary System is a proven safety solution developed by Omexom with Sepa-Tech and Seilflechter for conductor stringing near energized overhead lines. It provides reliable cross-protection, reduces conductor movement risks, and improves installation safety while maintaining efficiency. Combining lightweight roller blocks, insulated rope, and a secure containment design, it offers a safer, simpler, and high-performing method for bundle conductor installation.



THE CHALLENGE

- Safe conductor stringing near energized lines requires high control and protection
- Conventional protection methods can be time-consuming and difficult to install
- Bundle conductor installations need effective cross-protection to prevent contact and movement
- Utilities need lightweight, easy-to-deploy systems that reduce installation complexity without compromising safety

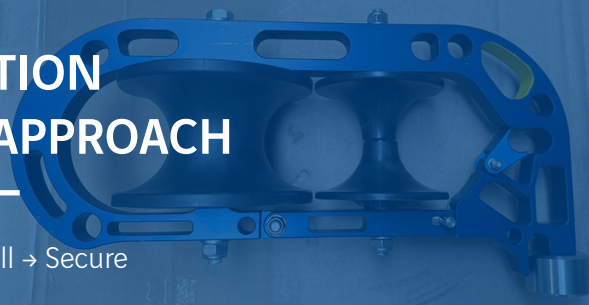


KEY BENEFITS

- Reliable cross-protection during conductor stringing operations
- Lightweight, easy-to-deploy design for faster installation
- Double safety concept for enhanced operational security
- Designed for safe work near energized transmission lines
- Supports simultaneous replacement of two conductors

THE SOLUTION THE CATENARY APPROACH

Protect → Install → Pull → Secure



Catenary Roller Blocks (Single Rope)

- Ultra-lightweight: 2.7 kg with a verified 11 kN workload.
- Secure roller design: rope remains enclosed to prevent detachment.
- Use of high-strength aluminum (EN AW 7075) and reinforced polyamide (PA6 GF30).
- Tool-free installation and removal.
- Enhanced stability through asymmetric weight distribution.
- Pre-mounted axial stops every 10 m, with optional additional stops.

Catenary Roller Blocks (Quad Bundle)

- Weight of only 11.8 kg with verified workload of 11 kN.
- Designed specifically for quad-bundle conductor applications.
- Secure rope containment and stable operational behavior.
- High-tensile aluminum frame construction.
- Tool-free assembly and removal.

High-Performance Catenary Rope

- Easy installation with tool-free assembly and removal.
- High electrical insulation tested to DIN 61192:2010-02.
- UV-resistant, non-corrosive, and water-resistant construction.
- Flexible, lightweight design with a rugged protective outer layer.
- Noise-reducing properties for improved operation.



TYPICAL USE CASE: Protection and conductor stringing operations on transmission lines where work must be performed safely in proximity to energized circuits, including single and quad-bundle conductor applications.

OMEXOM

For any questions regarding this solution, please contact:

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Download the digital one-pager
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