



## Gemma Catenary construction and renewal train

The advanced catenary construction and renewal train 'Gemma' assures rapid and effective overhead wiring construction or renewal.

### Customer benefits

- 10 -20% cost-savings on twin contact wire renewal
- 20 - 30% reduction of service interruptions required by renewing two sectors during one service interruption period
- The service interruption period required is 4 hours for a 1200 m sector and 6.5 hours for two sectors, depending on the local circumstances
- Single-track service interruption is possible because the Gemma works within the structure clearance of the out-of-service track
- Guaranteed wire tension and recorder ensure demonstrable quality; post-installation work is not required
- Ergonomic and OSHA-compliant; a vast improvement for the staff

### Technical data

- Maximum speed with a Ravot (locomotive): 90 km/h
- Independent maximum speed: 40 km/h
- Maximum operating speed (radiographic): 0 - 6 km/h

### Operation

- Max. tractive effort: 500 kg – 3000 kg
- Wire type: 70 mm<sup>2</sup> – 240 mm<sup>2</sup>
- Working height: 4,800 mm – 8,300 mm
- Wire drums: 2 units
- Wire drum capacity: max 3,200 m<sup>2</sup>, 100 mm<sup>2</sup> on each

drum

### Dimensions and weights

- Length: 19,240 mm / Width: 3,140 mm
- Weight: 79.5 ton
- Wheel base: 13,000 mm
- Wheel base of bogies: 1,800 mm
- Minimum curvature radius: 12,000 mm

### Running permits

- Netherlands (Railned)
- Germany (EBA)
- Belgium (Infrabel)

### Contact wire renewal

A separate overhead drum wagon will be situated with the Ravot for overhead lines consisting of two contact wires. The contact wire can then be replaced in one process.

### Overhead wire construction

The 16/25 kV overhead wiring system is designed to pull the carrier cable and the contact wire in one process. The feeder line and earth cable can also be pulled in one process, depending on the distance between the centre of the track and the catenary support.



**Strukton**  
Rail

Westkanaaldijk 2, 3542 DA Utrecht, P.O. Box 1025, 3600 BA Maarssen, the Netherlands  
Tel.: +31 (0)30 240 72 00. Fax: +31 (0)30 248 66 01. E-mail: info@struktonrail.com. Website: www.struktonrail.com