

Panto300.20

Plug-and-play panto
Panntograph

+ Based on service proven design

- Improved design of trusted Panto300 service proven solution since 2013.
- For Locomotives and EMUs/XMUs pantograph.

+ Upgraded for maximized performance

- High current capacity.
- Aluminium kinematic structure enhancing dynamic behaviour.
- Improved panhead design boosting current collection quality.

+ One versatile pantograph for all networks

- Only one pantograph for all EMUs and locomotives.
- Ready for all networks, TSI certified product.
- Increased pantograph extension to 2571mm.
- Up to 250km/h.
- AC/DC high current.

+ Flexible

- 16 plug-and-play options.
- Easy integration of options.
- Different current connection points.
- Different air connection points possibilities.



+ Lighter solution

Depending on version **4 to 16kg saved** compared to previous design thanks to:

- New articulation system
- Improved panhead design
- Improved components design

+ Compact on the roof

- Increased reach of the pantograph with **same space allocation on the roof.**
- Low housed height.

Technical characteristics	
Line voltage	1500 - 25 000 V
Drive	Air bellows
Rated current	2400 A
Contact force	60 – 140 N
Operating input pressure	6 – 10 bar
Weight	Ca. 165 kg
Without insulators	Approx 134kg
Max. speed	250 km/h
ADD	Pneumatic
Min. Housed height	550 mm
Min. Operational height	750 mm
Max. extension	3200 mm + 100
Max working height	3150 mm
Max working range	2570 mm
Lateral stiffness (working height of 2950 mm)	26 – 27 mm

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Lock&Load

Carbon strip replacement system
Current Collector

+ Maintenance time reduction

- Carbon strip replacement time reduced **from 30min to 2min.**
- Mechanical, pneumatic and electric connection replaced by **one clicking system.**
- **Only one tool** required.





+ Less risk of damage during maintenance

- Reduction of attachment points up to **75%.**
- **Minimize the risk of human mistake** during strip replacement.



+ Extended coverage of Automatic Dropping Device

- **Mechanical and electrical connections** also covered by Automatic Dropping Device function.

Technical characteristics		
	Value	Advantage
	<ul style="list-style-type: none"> • Unique Lock & Load clicking system • All connection points between carbon strip and pantograph controlled by ADD 	<ul style="list-style-type: none"> • 95% less maintenance time • LCC reduction • Only 1 tool for assembly
	<ul style="list-style-type: none"> • Stainless steel Pin (male part) • Strong design • Replacement for studs, screws and ADD components 	<ul style="list-style-type: none"> • Reduces the number of components at carbon strips by up to 37 parts
	<ul style="list-style-type: none"> • Stainless steel coupling (female part) • Strong spring mechanism • Replacement for nuts, washers and ADD components 	<ul style="list-style-type: none"> • Long lifetime (will be replaced with overhaul)
	<ul style="list-style-type: none"> • Long lifetime of sensitive parts (ADD components, electrical braids and terminals) 	<ul style="list-style-type: none"> • Reduction of failures in replacement process

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