

4 solutions for ...

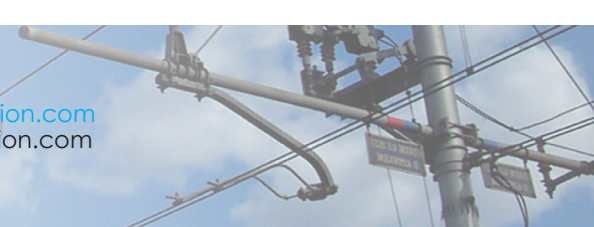
... measuring **Overhead Line**



Picture	Description	Product Name	height	stagger	wear	max speed
	Portable device for immediate and quick measurements of overhead line parameters in discrete positions along the line. The laser scanner measures automatically and quickly height and stagger.	CAT-P _{ortable}	●	●		0 km/h
	Portable Trolley for continuous measuring of overhead line parameters. The laser scanner automatically measures height & stagger related to the kilometric position along the line.	CAT-T _{rolley}	●	●		4 km/h
	On Vehicle equipment for continuous contactless measuring of overhead line height and stagger, related to the kilometric position of the vehicle along the line. <i>Installable on any type of railway Vehicle.</i>	CAT-V _{ehicle}	●	●		360 km/h
	On Vehicle equipment installable on the roof of any vehicle for contactless detection and measure of height, stagger and WEAR of overhead line contact wires. <i>Installable on any type of railway Vehicle.</i>	CAT-VW e h i c l e	●	●	●	360 km/h



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measuring Overhead Line

Overhead line diagnostic and measuring equipments

- = included
- = optional

	CAT-P	CAT-T	CAT-V	CAT-VW
	Portable	on manual Trolley	on Vehicle roof	on Vehicle roof with Wear measure
max speed	0 km/h	4 km/h	360 km/h	360 km/h
Height of OHL	●	●	●	●
Stagger of OHL	●	●	●	●
Wear of OHL			CAT-VW	●
Gps position	●	●	●	●
Kilometric chainage		●	●	●
Vehicle speed		●	●	●
Video of Wires	●	●	●	●
Video of Pantograph			●	●
Video of Panorama		●	●	●
Pictures of contact wires surface			●	●
Compensation of vehicle's movements			●	●
Accelerometers on pantograph			●	●
Pantograph's Voltage			●	●
Pantograph's Current			●	●
Thermographic inspection			●	●
Excel exportation	●	●	●	●
Position of all catenary wires	●	●	●	●
Height gradient		●	●	●
Pole's position and distance from tracks	●	●	●	●
Pantograph pushing force			●	●
Pantograph Arcs			●	●

	CAT-P	CAT-T	CAT-V	CAT-VW
max speed	0 km/h	4 km/h	360 km/h	360 km/h
Height of OHL	range	from 3 to 8 m		
	accuracy	1 cm		
	measuring rate		from 25 to 200 Hz	from 25 to 18'000 Hz
Stagger of OHL	range	from -100 to +100 cm		
	accuracy	1 cm		
	measuring rate		from 25 to 200 Hz	from 1'000 to 18'000 Hz
Wear of OHL	range	from 0% to 45% of nominal diameter		
	accuracy	2% of nominal diameter		
	measuring rate			from 1'000 to 18'000 Hz

