

5 solutions for ...

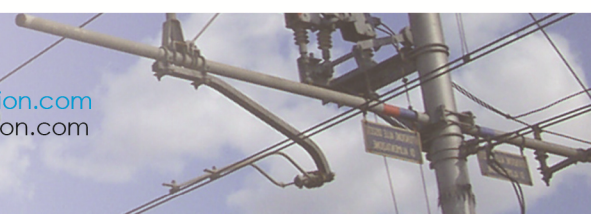
... measuring **Overhead Line**



Picture	Description	Product Name	height	stagger	wear	max speed
	<b>Portable</b> 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.	<b>CAT-P</b> <sub>ortable</sub>	●	●		0 km/h
	Portable <b>Trolley</b> for continuous measuring of overhead line parameters. The laser scanner automatically measures height & stagger related to the kilometric position along the line.	<b>CAT-T</b> <sub>rolley</sub>	●	●		4 km/h
	On <b>Vehicle</b> 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>	<b>CAT-V</b> <sub>ehicle</sub>	●	●		360 km/h
	On <b>Vehicle</b> equipment installable on the roof of any vehicle for contactless detection and measure of height, stagger and <b>WEAR</b> of overhead line contact wires. <i>Installable on any type of railway Vehicle.</i>	<b>CAT-VW</b> e h i c a r c l e	●	●	●	360 km/h
	On <b>Pantograph</b> equipment for measuring height, stagger and <b>WEAR</b> of overhead line contact wires, by the use of <b>LATERAL</b> lasers installed on the pantograph.	<b>CAT-LW</b> a t e r a l	●	●	●	50 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	CAT-LW
	Portable	on manual Trolley	on Vehicle roof	on Vehicle roof with Wear measure	on Pantograph with Lateral measure of wires Wear
max speed	0 km/h	4 km/h	360 km/h	360 km/h	50 km/h
Height of OHL	●	●	●	●	●
Stagger of OHL	●	●	●	●	●
Wear of OHL	CAT-PW	CAT-TW	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			●	●	●

	CAT-P	CAT-T	CAT-V	CAT-VW	CAT-LW
max speed	0 km/h	4 km/h	360 km/h	360 km/h	50 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	1'000 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	1'000 Hz
Wear of OHL	range			from 0% to 45% of nominal diameter	from 0% to 100% of nominal diameter
	accuracy			2% of nominal diameter	0.1 mm
	measuring rate			from 1'000 to 18'000 Hz	1000 Hz

