



SVK Electronics
NDT Systems & Solutions

Design and manufacture of
non-destructive testing equipment

HeatScan Internal Pipe Inspection System PEC version



Combines the magnetic method with alternating magnetization
and the pulsed eddy current method

Magnetic method with alternating magnetization:

- ✔ allows pipeline inspection without surface preparation,
- ✔ allows detection of corrosion and penetration defects in pipes through a deposit layer of up to 35 mm thick,
- ① requires passing a current through the pipe, which results in additional costs and time for digging pits on both sides of the inspected section, laying cables, and connecting the pipe to a current generator.

Due to the laying of cables, this method is difficult, and often impossible, to use for inspecting pipes under highways, railways and bridges.



Pulsed eddy current method:

- ✔ suitable for pipelines located under highways, railways, and bridges,
- ✔ requires access from only one side of the pipe, saving time and money on excavation and subsequent road surface restoration.





Replaceable probes allow the use of both the magnetic method with alternating magnetization and the pulsed eddy current method.

Technical specifications

	HeatScan PEC	
	alternating magnetization	pulsed eddy current
Number of pits for access to the pipe	2	1
Number of cables from the pipe to the current generator	2	0
Range of tested diameters	DN400-DN1400	DN400-DN1400
Range of pipe wall thicknesses	1.5-12 mm	1.5-16 mm
Length of pipe available for inspection	300 m	300 m
Amount of deposits on the internal pipe surface	up to 35 mm	up to 50 mm
Sizes of detected/measured defects	• penetration defect, Ø 6 mm • corrosion damage, Ø 30 mm and depth 20% of the wall thickness	• corrosion damage, Ø 40 mm and depth 30% of the wall thickness
Performance	up to 120 m/h	up to 60 m/h
Number of passable bends	4 pieces	4 pieces
Tee passing	yes	yes
Measurement error with remaining thickness in the defect zone	15%	10%
Relative humidity	100%	100%
Range of operating temperature	-20°...+70°C	-20°...+70°C
Pressure	101.3 kPa	101.3 kPa

The method is used in other devices



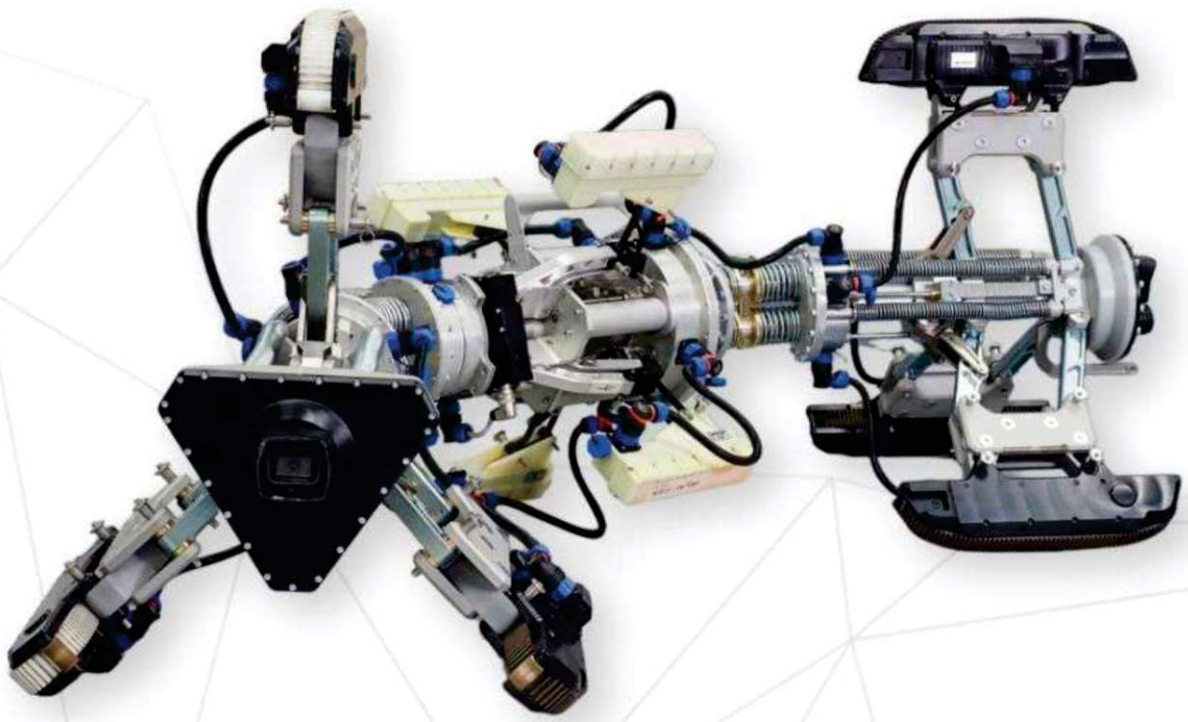
The **PE4332 pulsed eddy current flow detector** detects metal corrosion under insulation without its dismantling.

The PE4332 detects corrosion:

- under insulation;
- under fire protection;
- under any coating.



The compact **PE1437 pulsed eddy current flow detector** detects corrosion through dirt, rust, and paint up to 100 mm thick.



Authorized Distributor :



AK NDT & INDUSTRIAL SUPPLIES
PRECISION BEYOND MEASURE