

Mechanized Testing Nuclear



Pool inspection from ID

DEKRA Industrial – Mechanized Testing has developed a manipulator for the inspection of pools and tanks.

Belt driven Scanner attached to the inspection object surface by means of underpressure. The crawler design is based on DEKRA standard motion system units and allows for UT- and ET- probes of varying configurations as well as a laser for distance measuring. The Probes are fitted on a linear unit perpendicularly orientated to the driving belts and different stroke lengths are possible.

A camera can be added to facilitate positioning in tight areas. The attachment force is maintained by a pancake motor driven thruster. A crawler based on magnetic adhesion is also developed for ferritic materials. An austenitic cladding up to 10 mm is no limitation.

The unique design principles allow that the global position on the inspection object remains certain even after a change of direction.

This is possible by the way of turning the scanner round the rotation center suction sealing ring. The scanner belt drives are pneumatically pushed away from the surface by the center sealing ring and the scanner can in this position easily be rotated without losing the global position, to instantly be driven in a new direction.

Technical specification:

L x W	600 x 400 mm
Thickness	45 mm
Weight	8 kg
Speed	75 mm/s, typically (higher speed is possible)
Probes	UT Phased Array and ET Array, depending on object
Power Supply	24 V/48 V, down in Water, 220 V to Motion Control Unit



Rataosk - Independent Suction Scanner

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With reservations for errors and changes.

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