



ROSON 40 kN

Thrust system - for all cable route and pipeline survey

Features:

- Proven wheel drive thrust system
- Deployable from any available vessel
- 2000 metres water depth rating
- Easy exchange of cone size: 2, 5 or 10 cm² cones

Roson 40 kN thrust system

Reliable and cost-effective in-situ seabed testing

Accurate, reliable soil data from soft soils at large water depths, and that at minimum cost. That is a promise that the Roson entirely lives up to from the very first moment it was designed. Over the years further improvements have made the Roson to a sophisticated, yet simple and effective tool for in-situ soil testing of the seabed.

Functioning

The Roson is deployable from any vessel with a moonpool or an A-frame. The CPT string is pushed into the soil by means of two friction wheels, driven by electrical motors. The friction wheels are pressed against each other by means of a hydraulic cylinder, thus holding the CPT string fixed inbetween them. This configuration allows for adjustment of the force working on the CPT string. Therefore, the same drive unit can be used for different CPT string sizes. Only the friction wheels and dirt wiper need to be changed to accommodate 2, 5 or 10 cm² cones and rods.

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in
every field"*

Standard features

- Seabed detection switch
- Two-directional frame inclinometer located in the data acquisition system
- Total load sensor for indication of the total pushing force
 - Limit switches for end-of-stroke detection
- Depth encoder to measure the penetration depth
- Suitable for battery operated system (see S17)
- Suitable for umbilical operated system (see S18)

Options

Conversion kits to operate the Roson 40 kN with different cone and CPT string sizes (2, 5 or 10 cm²), consisting of:

- 2 friction wheels
- 2 sets of dirt wipers
- top stopper / cable caterpillar connection

Specifications drive unit

Water depth rating	2000 metres
Driving speed	20 mm/s
Pushing/pulling force	40 kN with 10 cm ² (36 mm OD) CPT string
	20 kN with 5 cm ² (25 mm OD) CPT string
	10 kN with 2 cm ² (16 mm OD) CPT string
Dimensions	1540 x 1120 x 350 mm ³
Wheel diameter	Ø 350 mm

The rod support frame

Dimensions seabed frame	footprint	2000 x 2000 mm ²
	lifting point height	2665 mm
	working height	minimum 1765 mm plus required penetration depth
Weight	2200 kg in air	
Impact protection	heavy duty rubber fenders all around	

The standard frame is supplied with guiding rods for 3 and 5 metre pushes.

We reserve the right to change specifications without prior notice.
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