

Remotely Operated Crawler



Fugro's ROC.si - *Remotely Operated Crawler for subsea inspection* - is a unique vehicle, designed to locate, track and perform inspections of submarine cables, pipelines and other structures - whether exposed or buried. The ROC.si operates on both dry-land and underwater, and can work in water-depths of up to 200 metres. This versatility makes the ROC.si the perfect vehicle for all shallow water operations where conventional ROV deployment is at its limits.

A dynamic remote sensing platform, the ROC.si is equipped with, but not limited to, a sonar, cameras for visual inspection and video recording, and a cable tracking system that can detect cables buried to several metres. The Crawler can follow cables automatically, constantly collecting depth-data, burial status and video imagery. The automatic tracking of buried cables by the ROC.si has been successfully carried out in numerous shallow-water locations where the use of a conventional ROV was impossible due to the strong currents.

Technical Specifications

Vehicle		Outer diameter	17.9 mm
Total weight in air	1300 kg	Weight	439 g / m
Weight in water	800 kg	Overcoat material	Polyurethane
Max. operational depth	200 m	Tensile force	min. 12000 N
Max. operational speed	3 knots	Min. bend radius	40 cm (80 cm diam)
Tracks Footprint	1m ²	Ethernet comm.	100Base-FX Single Mode
Length	3.3 m	Sensors	
Width	2.3 m	Obstacle Avoidance Sonar	Tritech SeaKing DST
Height	1.5 m	Cameras	Panasonic HCM-381w/pan-tilt
Umbilical		Cable Tracking System	TSS350 or TSS440
Type	Leoni Hybrid Cable	<i>Other sensors can also be accommodated</i>	
Length	320 m		

Specifications are subject to change without notice