Boskalis

EQUIPMENT SHEET

MEGALODON
PRE-TRENCH & BACKFILL PLOUGH



FEATURES

The Megalodon provides our customers with a pre-trench and backfill cable protection solution. The plough can handle up to 150 t continuous pull force and is designed to perform in an extensive range of challenging soil conditions along planned cable routes.

The plough share profile is designed such that it requires the lowest possible bollard pull to achieve a wide variance of trench depths, limits the environmental footprint and enable Boskalis to efficiently trench and provide the necessary cover.
The Megalodon is designed to work along cable routes that are cleared by the T-Rex XL boulder clearance tool.

The Megalodon is equipped with state-of-the-art subsea sensor technology in order to position and monitor the plough as accurately as possible.

MAIN DATA

Dimensions (L x W x H):	
ploughing mode(1)	16.5 x 6.7 x 7.7 m
backfill mode (2)	15.3 x 8.8 x 8.7 m
Design strength	Sustained pull load: 150 t
Peak load	250 t
Towing system	Tow wire with weak link required
Operating water depth	Maximum: 500 m
Weight in-air/submerged weight:	
in ploughing mode	54.7 t/41.34 t
in backfill mode	61.3 t/46.93 t
Max. steering angle	11 degrees
Max. pitch and roll	15 degrees
Operation temperature	10 - 35 °C

PERFORMANCE TRENCHING

Trench profile	Y-shape or Shallow V (depending on soil conditions)
Trench depth	up to 2.1 m (single or multi-pass)
Soil strength	10 - 600 kPa

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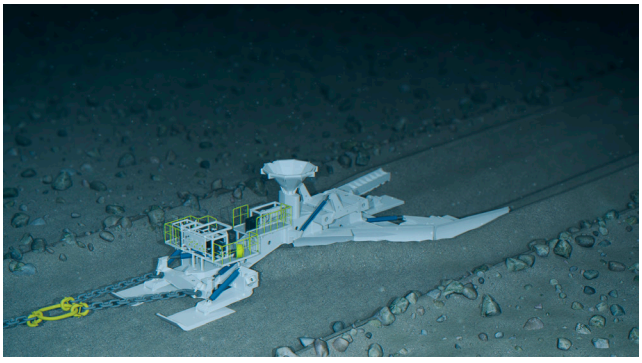
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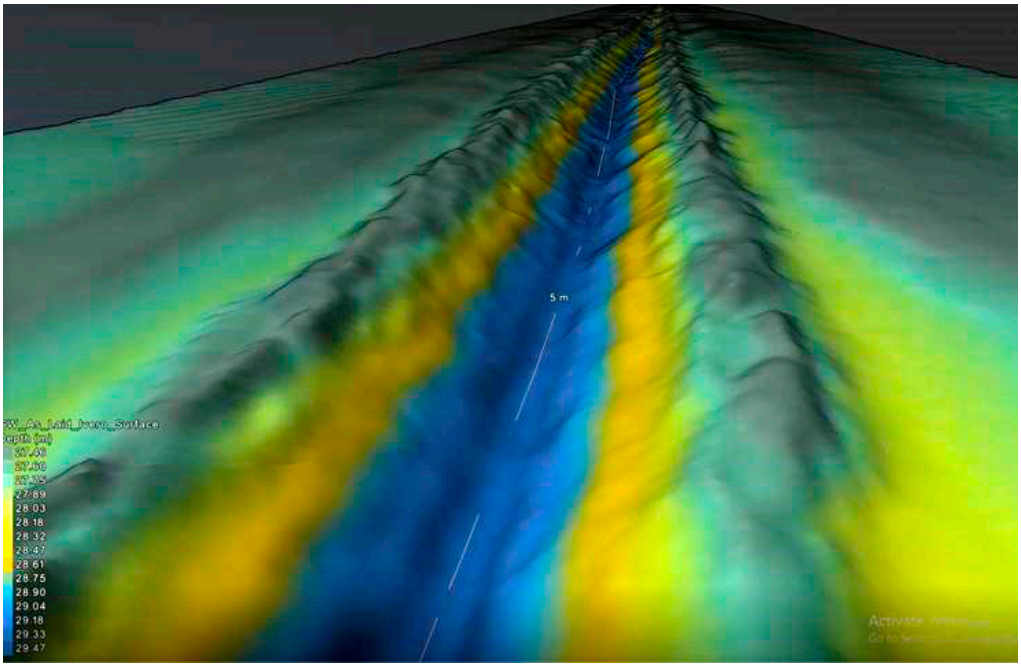
PERFORMANCE BACKFILL	
Backfill blade width	9 m
Skids	Forward and aft skids for stability

MECHANICAL	
Construction	High-strength steel chassis
Wear parts	Replaceable wear-resistant steel

INSTRUMENTATION & SURVEILLANCE	
Cameras	2 x low light cameras 2 x colour cameras
Lamps	4 x LEDs
Pan and tilt	3 x P&T unit
Force	0 - 200 t load pins in tow points
Heading/inclination	iXblue Rovins and Octans
Plough geometry	Linear Transducers in cylinder and rotary sensors on hinge points for redundancy
Profiler and sonars	1 x Obstacle avoidance sonar 4 x Profiling sonars 2 x Gemini multibeam sonars 2 x Altimeters
Additional survey capacity	2 x RS232, spare power & ethernet connections

OTHER EQUIPMENT	
Umbilical system	Standard winch system 1,200 m of floating umbilical Max. 30 m/min line speed
Control system	Integrated control room
Shallow water positioning buoy	For operations in shallow water (<10 m)





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