



# OCEANPLOUGH 01



## EQUIPMENT SHORT SPECIFICATION

### GENERAL DESCRIPTION

The Heavy Duty Flexibles Plough is designed to trench large diameter flexible products in a wide range of soils. It is able to continuously vary its trench depth between zero and 3m using a combination of articulated chassis and skid control. This provides much greater safety to the product through the full range of trench depths. The high bollard pull of the plough enables it to trench through stiff clays at 1.5m trench depth and even firm clays at full trench depth. The plough can enhance its performance in speed or depth in sands through its 265kW subsea jetting facility which injects water through the share's leading edge and tip. The jets are positioned to minimize soil disturbance into the water column. The plough can be used for post or simultaneous lay and burial. In post lay mode it can load the product without the assistance of divers using on board cranes. The plough is fitted with a powered tow bridle for independent steering and lifted on its tow cable for ease of handling. The also has the capability for diverless loading and unloading

### WEIGHTS AND DIMENSIONS

Plough (on deck):	
Dimensions (LxBxH):	15 m x 6.5 m x 7m
Weight in air:	45 tonnes
Control Cabin:	
Dimensions:	6 m x 2.54 m x 2.74 m
Weight:	12 tonnes
Umbilical Winch:	
Dimensions:	3.5 m x 2.7 m x 3.1 m
Weight in air:	20 tonnes
HPU:	
Dimensions :	1.9 m x 2.4 m x 2.6 m
Weight in air:	5 tonnes

### NOTES

Subsea Surveillance:	
Cameras:	2 x Enhanced low light CCD, 1 x Colour CCD with zoom, 1 x Mono Mini Obs CCD; 3 x Pan & Tilts; 1 x Tilt; 6 x LED Lamps;
Sonars:	1 x OA Sonar; 2 x Profiling Sonars; 1 x hydrophone;
Gyro:	Fiber Optic Gyro
Subsea Hydraulics:	
15 kW HPU drives auxiliary hydraulics using environmentally friendly oil	
Beach Control:	
Operation without umbilical via radio telemetry to the control room on the vessel.	

### PERFORMANCE

Max Water Depth:	beach – 500msw
Max Tow Force:	150 tonnes
Burial Depth:	0 to 3 m max
Product size:	30 mm to 300 mm
Product bend radius:	suitable for products up to 5 m MBR
Remote cable loading lift:	3 tonnes maximum



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