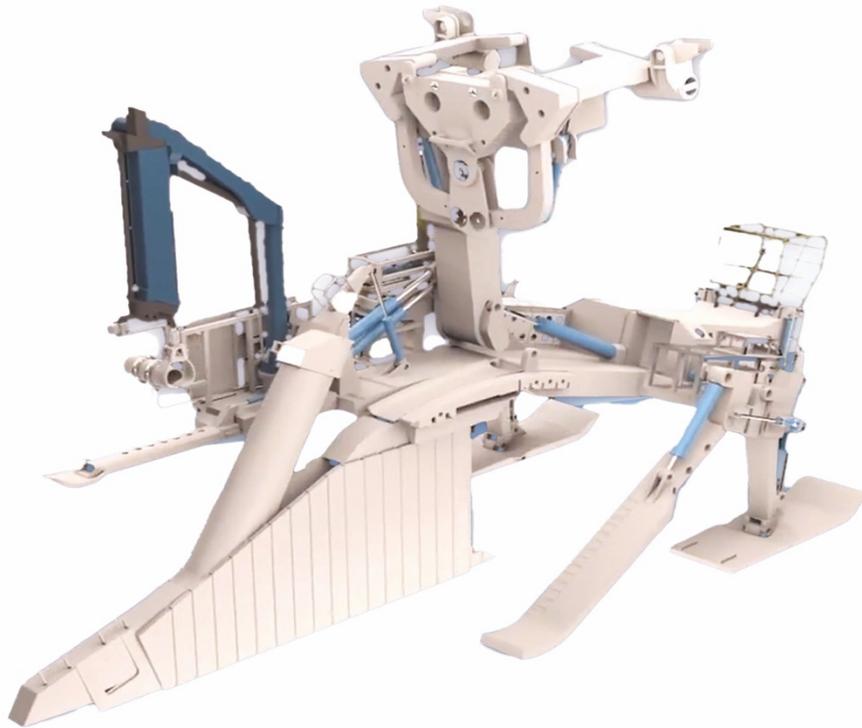


# HEAVY DUTY PLOUGH

BURIAL TOOL



## ≡ DESCRIPTION

The technologically advanced Heavy Duty HD3 Plough is based upon a proven and successful industry accepted design, several of which are in operation today. The HD3 Plough is capable of burying large diameter cables with large bend radii and is suitable for flexi pipes. Features include subsea jet assisted ploughing to reduce bollard pulls in sands and a subsea crane for remote loading and unloading.

The HD3 Plough is able to work with both single cables and also bundled cables. It comes fully equipped with a high degree of instrumentation and surveillance equipment as standard.

## TECHNICAL SPECIFICATIONS

### KEY FEATURES

- 3M cable MBR
- Share suitable for cable size up to 350 mm
- 150 tons bollard pull
- 3.3 m depth for burial adjustable
- Subsea cable loading and unloading capabilities
- Subsea pumps for jet assisted ploughing
- Single and bundled cables ploughing capability
- Comprehensive instruments and surveillance

### OPTIONS

- Remote operation beach kit
- Surface fed pumps

### CABLE OPERATIONS KEY FEATURES

All performance figures quoted are nominal, actual performance is dependent on environmental conditions prevailing at the time of operations.

#### GENERAL

Depth Rating	500 m
Dimensions (LxWxH)	15 m x 6.5 m x 7.0 m
Weight	47 tons (share size dependent)
Burial Depth	Up to 3.3 m
Maximum Tow Force	150 tons
Depth Control	Continuously variable between 0 m and 3.3 m using front skids and hinged chassis
Soft mud capacity	5 kPa min

#### CABLE LOADING / UNLOADING CONFIGURATION

Remote subsea crane mounted aft with 3 tonne 3 m MBR grab and 12 m lift capacity

High lift slewing depressor

Hydraulic thruster for alignment during landing

Cylinder actuated bellmouth tines

Surveillance system for positioning during landing

Starboard stabilizer slewing capability to facilitate loading

### SUBSEA JETTING SYSTEM

Configuration	High flow, low pressure water used to fluidise in front of plough share
Pump	250kW mixed flow pump
Pressure	6 bar
Flow Rate	800 m <sup>3</sup> /hr

### SUBSEA ELECTRONICS

Cameras	Enhanced Low Light CCD, Colour with manual zoom, Mini Observation Camera
Lamps	LED lamps
Sonar	Obstacle avoidance sonar, Gemini sonar
Gyro	iXBlue Octans
Bathy / Altimeter	Tritech SK704 / Tritech PA500