

BACKFILL PLOUGH

SPECIFICATION SHEET



BACKFILL PLOUGH

KEY FEATURES

The Backfill Plough has a proven track record in the backfill of trenched product by returning the spoil to a trench formed by one of DeepOcean's ploughs, including the AMP500 and APP.

The backfill operation provides thermal insulation and a reduced risk of thermally induced upheaval buckling. With a maximum tow force of 150te, the ploughs are capable of backfilling all soil types.

The plough has specially designed skids which travel inside the trench for positive trench following, which increases the quality of the backfill.

- PROVIDES THERMAL INSULATION
- POWER STEERING SYSTEM FOR BETTER CONTROL
- SUITABLE FOR ALL SOIL TYPES
- ANY PRE-TRENCHED PRODUCT MAY BE BURIED

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The Backfill Plough is not limited to these parameters and can be modified by DeepOcean to complete worksopes in excess of its current configuration.

PARTICULARS

OPERATING DEPTH	Up to 1000m
BACKFILLING CAPACITY	0.5 - 2.5m trench
BACKFILLING METHOD	Passive blades inclined at 40° to the centre line of plough
SPOIL VOLUME RETURN RATE	Up to 100% of spoil returned (from within 8.5m of trench centreline)
COMPACTION	Trailing roller (optional). Can exert up to 40te of downward force
STEERING	Active power steering at an angle of 7° horizontal offset of tow wire angle from straight ahead
TOW FORCE	Design Load 150te (onset yield at 350te)
LENGTH	24m
WIDTH	11m with skids stowed, 24m with skids fully open
HEIGHT	8m

WEIGHT

IN AIR	135te including docking head
IN WATER	62te additional uplift can be provided by airfilled buoyancy chambers

VEHICLE POWER

POWER	Dedicated power pack
ELECTRIC MOTOR	50kW 3 phase, 4 pole, 1000V 50/60 Hz Oil filled and pressure compensated Temperature sensor
HYDRAULIC PUMPS	Constant displacement gear pumps

CHASSIS

Connections provided to allow air supplied from deck to fill chassis, reducing ground pressure in line with AMP500

SURVEILLANCE EQUIPMENT

- 3 x Monochrome SIT Cameras. Spare capacity for 2 additional units
- 1 x Electricity Powered Unit. Spare capacity for additional unit
- 5 x Subsea Lamps 150W, 110 V
- 4 x Off Profiling Sonar, 2 fore, 2 aft
- 1 x Off O/A Sonar Head 0-100m range, forward
- 1 x Marinus Gyro
- 0.3 -30m range Echo Sounder
- x1 Benthos Hydrophone

PRODUCT HANDLING

Backfill Plough does not contact product so any pre-trenched product may be buried



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DeepOcean accepts no responsibility for and disclaims all liability for any errors and/or omissions in this production.

SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE

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