



Power cable plough

Product overview

The Power cable plough is specifically designed for the efficient burial of cables in shallow water. It features a robust chassis that can withstand tow forces up to 180t, to provide cable burial in hard seabed conditions. The Power cable plough has a proven track record for cable burial across a number of offshore projects.

Innovative share design

Unlike other 'vertical knife' ploughs, the forward rake of the Royal IHC Plough share creates an additional down force during operation. This ensures consistent and reliable product burial, even in stiff clays and sands.

Battery or umbilical powered plough

As well as the standard umbilical powered plough, Royal IHC have developed a battery powered option. This would eliminate any associated cost with an umbilical e.g. winch, flotation buoys, installation, etc. as well as freeing up deck space and reducing operational complexity and risk.

Unique benefits

- raked share design maximising trench depth and plough stability
- symmetrical share design reduces tow force
- crane launch option available
- battery powered version available to reduce deck equipment and catenary handling requirements.

Specification

Water depth	0-100m
Trench depth	standard configuration: up to 3.3m (0° aft pitch)
Soil strength	down to 5kpa (minimal skid sinkage) – ploughing
Weight in air	approx. 35t
Dimensions (skids raised)	length: 12.2m (skids fully lowered) width: 5.2m height: 5.4m (top of bellmouth)
Max. tow force	<ul style="list-style-type: none">• up to 150t (sustained force in normal operation)• up to 180t (onset of yield at peak force)
Vertical tow angle	0-15° at max. tow force
Cable	up to 300mm diameter cable
Cable min. bend radius (mbr)	4m (bellmouth, share and depressor)
Depth control	hydraulically adjustable from 0-3.3m trench depth by moving the skid arm, remotely controlled from surface



Power cable plough track record

The Royal IHC Power cable plough originally completed its first trenching campaign back in 2001. Since its debut, the plough has seen repeat orders and has completed many trenching operations for a large number of operators.