



Specification

Max. Operating Depth	3000m + (Practical operational limits apply)
Max. Operating Diameter	Pre-Cut: Unlimited Simultaneous: 500mm
Trench Depth	0 - 5m+ in multipass mode, depending on soils
Speed Range	0-5000m/hour
Tow Force (Design Load)	25-250Te
Steering	Duplicates vessel route: self-correcting bridle
Turning Circle	<50m
Weight	Variable ballast 17-40Te
Length	Assembled: 9.7m Unassembled: 8m
Width	Assembled: 5.3m Unassembled: 2.4m
Height	Assembled: 2.9m Unassembled: 2.6m
Transport Container Dimensions	2.44m x 12.1m x 2.9m



SCAR Trench Crawler

Post trenching, the SCAR crawler can be deployed to guide the cable into the bottom of the trench during the lay operation. SCAR crawler can be set with its tracks at 35 degrees to match the angle of the trench. Cable guides will be fitted to the SCAR crawler.

Clients Include:



ECOSSE
Subsea Systems

“...because we think differently”

Established in 1996, Ecosse Subsea Systems is known as an innovative provider of both products and services for all offshore installation requirements and has earned a global reputation for outstanding service delivery. Ecosse is an industry frontrunner in the delivery of trenching, subsea lifting and technology development services and expertise and are providers of onshore and offshore Personnel to the Oil & Gas, Renewables and Interconnector markets.

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“...because we think differently”



SCAR Seabed System Cable/Pipeline/ Umbilical Configuration

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SCAR Cable/Pipelay/Umbilical Capabilities

The SCAR Modular Trenching System has been developed to deliver an all-in-one or one-part solution to trenching and pipeline, umbilical and cable lay operations.

The system has the capacity to work in deep water, near shore and onshore. Can be deployed dry for shore approaches.

Inherently simple and robust– reduced downtime, low maintenance.

The required trenching depth can be cut first before any handling of the product. The plough also has the capability to simultaneously lay and bury the product; and carry out remedial trenching.

Summary of product-mode compatibility:

	Cable	Pipeline	Umbilical
Pre-cut	✓	✓	✓
Simultaneous trenching, lay, burial	✓		✓
Post lay	✓	✓	✓
Remedial*	✓	✓	

*suitable for decommissioning requirements



SCAR Cable Plough Key Features:

- ⊗ Low risk - multipass without cable
- ⊗ Unique soil deposit system reduces risk of product upward movement
- ⊗ Fully adjustable mouldboard width
- ⊗ Controllable volume of spoil passage through mouldboards
- ⊗ Variable soils capacity
- ⊗ Has all the durability associated with the SCAR Plough
- ⊗ Can be launched and recovered from a range of vessels in high sea states - no A-frame required. No crane required if stern roller available
- ⊗ Variable Bollard Pull requirement
- ⊗ Low risk, product is clear of cutting surface
- ⊗ Accurate positioning, steerability and transitions; can follow curves
- ⊗ Bespoke feeder / cradle will be designed to meet cable manufacturer requirements

Why SCAR?

Subsea Trenching System SCAR Plough:

- ⊗ Available configurations:
 - Seabed Preparation/Boulder Clearance
 - Trenching Plough pre-cut/post lay
 - Umbilical Plough (multi-pass)
 - Backfill Plough
- ⊗ Economic cost per metre
- ⊗ Low Mobilisation Costs
- ⊗ 5 to 250 tonne pull capacity – smaller tow forces allow smaller support vessels hence low fuel consumption, more efficient and reduced CO² emissions
- ⊗ Very high power to weight ratio
- ⊗ <50m turning circle
- ⊗ Road/container transportable – available worldwide
- ⊗ Can operate in deep or shallow water and at shore ends
- ⊗ Decommissioning applications
- ⊗ Suitable for both the Oil & Gas and Renewables sectors

With rough terrain a speciality, SCAR is robust and reliable in conditions too difficult for conventional ploughs to handle.

SCAR is safe, simple & robust.