



Specification

BACKFILL SCAR 2 (13m/15m)

Max. Operating Depth	3000m + (practical limitations apply)
Catchment Area	13m - 15m (depending on configuration)
Speed Range	0-1000m/hour
Tow Force (Design Load)	75Te
Steering	Duplicates vessel route: self-correcting bridle
Minimum Turning Radius	< 50m
Weight	75Te/80Te
Length (assembled)	14.0m/15.0m
Width (assembled)	13.8m/15.8m
Height (assembled)	3.7m/3.7m
Transportation	All SCAR Seabed Systems are road transportable

SCAR Seabed System Backfill

The SCAR Seabed System family currently includes 3 system models - SCAR 1, SCAR 2&3 and SCAR MAX. SCAR 1 is the original SCAR system design, and is capable of clearing a 10m swathe in route preparation mode and trenching to 1.4m in pre-cut trenching mode, each in a single pass. With all SCAR systems, far greater clearance widths/trench depths are possible using multipass techniques. SCAR2 & 3 are the next generation of the SCAR 1 tool, and these include a removable share option as well as compatibility with the 13m and 15m pass Route Preparation and Backfill systems. Most recently, the SCAR MAX system has been developed as the strongest and most powerful pre-cut trenching plough in the world (able to withstand through chassis loads of up to 1000Te). SCAR MAX can deliver pre-cut trenches of up to 3m in a single pass. All three models encompass the ESS design philosophy of safe, simple and robust, and are tailored to deliver the most risk averse and cost effective trenching solution available on the market.

Clients Include:



“...because we think differently”



SCAR Seabed System Backfill



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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SCAR Backfill Capabilities

The modular SCAR Seabed System has been developed to deliver an all-in-one or one-part solution for the trenching and burial of subsea cables, pipelines and umbilicals.

The Backfill system provides burial for products laid within a pre-cut trench by returning the spoil excavated during the trenching phase. SCAR backfill offers catchment widths of 13m and 15m as standard.

Integrated levelling beam reduces spoil profile heights following backfill.



SCAR Backfill Key Features:

- ⚙ Low risk – no part of the tool inside the trench
- ⚙ Unique soil deposit system reduces risk of product upward movement
- ⚙ Adjustable mouldboard width
- ⚙ Controllable volume of spoil passage through mouldboards
- ⚙ Variable soils capacity
- ⚙ 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
- ⚙ Accurate positioning on seabed



SCAR Seabed System

- ⚙ Available Configurations:
 - Route Preparation/Boulder Clearance
 - Trenching - pre-cut/post-lay/multipass
 - Backfill
 - SUST (SCAR Uninterrupted Soils Testing)
- ⚙ Available Models:
 - SCAR 1 – (10m catchment area)
 - SCAR 2 – (13m-15m catchment area)
- ⚙ Economic cost per metre
- ⚙ Low mobilisation costs
- ⚙ 5 to 75 tonne pull capacity - smaller tow forces allow smaller support vessels hence lower fuel consumption, increased efficiency and reduced CO2 emissions
- ⚙ Very high power to weight ratio
- ⚙ <50m turning circle
- ⚙ Road/container transportable
- ⚙ Can operate in deep or shallow water and at shore ends
- ⚙ Robust design with single moving part and no hydraulic or electrical connections - significantly reduced tool downtime and offshore spread and personnel costs
- ⚙ Suitable for the Oil & Gas, Renewables & Interconnector 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.**