



## Specification

### SCAR MAX

Max. Operating Depth	3000m + (practical limitations apply)
Trench Depth	0 - 3m (single pass) Up to 5.2m and 7.4m in subsequent passes
Speed Range	0-1000m/hour
Tow Force (Design Load)	1000Te
Steering	Duplicates vessel route: self-correcting bridle
Minimum Turning Radius	< 75
Weight	105Te
Length (assembled)	23.6m
Width (assembled)	15.4m
Height (assembled)	6.2m
Transportation	SCAR Max System is road transportable

## SCAR Seabed System SCAR Max

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”

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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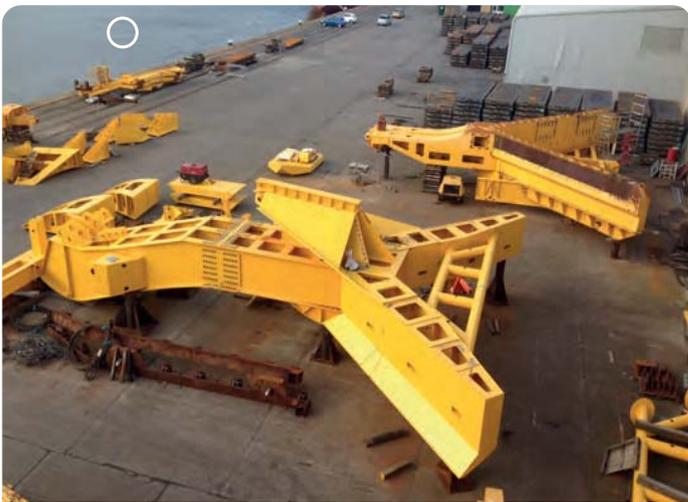
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## SCAR Seabed System SCARMAX

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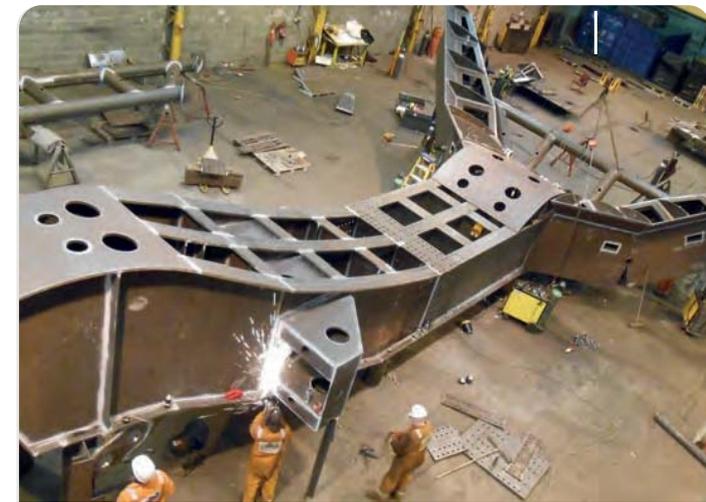
## SCAR MAX Capabilities

**The SCAR Max plough has been developed to deliver an efficient and cost-effective trenching tool, best suited for extremely rough terrain, with SUST advanced soils testing technology for lay route soils assessment.**

The system has been designed to handle all operations for trenching, including: pull to shore of pipelines/ interconnectors, deep water trenching (3000m) and boulder clearance operations.

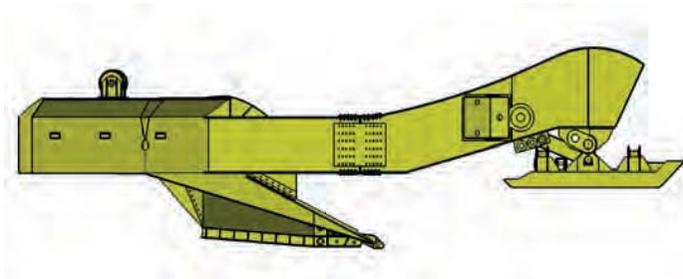
Inherent simplicity by design ensures robustness and hence greatly reduced down time compares to other complex subsea ploughing systems.

Multipass mode – designed to allow in trench cutting, ensuring an unconstrained trench depth is achievable. Simple launch and recovery system mitigating the need for heavy cranes or A-frames. Increased vessel choice from the spot market.



## SCAR MAX Key Features:

- ⚙️ Designed to cut trenches from shore to deep water (circa 3000m).
- ⚙️ Capable of pre-cut trenching cables, umbilicals, interconnectors and pipelines to 3m DOL in single pass.
- ⚙️ Unique design allows 'in trench' multi-pass ploughing to achieve up to 12m DOL for anchor/iceberg scour subsea asset protection.
- ⚙️ SUST head technology allows efficient uninterrupted soils testing for full lay route trenchability and soil burial protection index assessments.
- ⚙️ No A-frame or heavy cranes required, as the launch and recovery system utilises existing vessel stern rollers and winches.
- ⚙️ Rapid mobilisation and deployment, through compartmentalised design for road transportability SCAR Max can be deploys quickly and cost effectively compared to other subsea trenching tools.
- ⚙️ Steerability proven using the existing SCAR 1/SCAR 2 plough principles



## SCAR Seabed System

- ⚙️ Available Configurations:
  - Route Preparation/Boulder Clearance
  - Trenching - pre-cut/post-lay
  - Umbilical and cable ploughing
  - Backfill
- ⚙️ 1000Te max pull capacity. Designed to achieve the deepest trenches for greatest asset protection
- ⚙️ Low mobilisation costs, assembled onshore off the project critical path and loaded quickly and efficiently to the vessel
- ⚙️ Road transportable and designed to ship as freight around the globe enabling reduced costs compared to other plough's requiring dedicated vessels for mobilisation
- ⚙️ Suitable for the Oil & Gas, Renewables & Interconnector sectors
- ⚙️ Developed for use on multi-purpose AHTS' for lower cost and greater flexibility

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