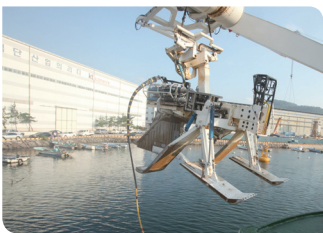
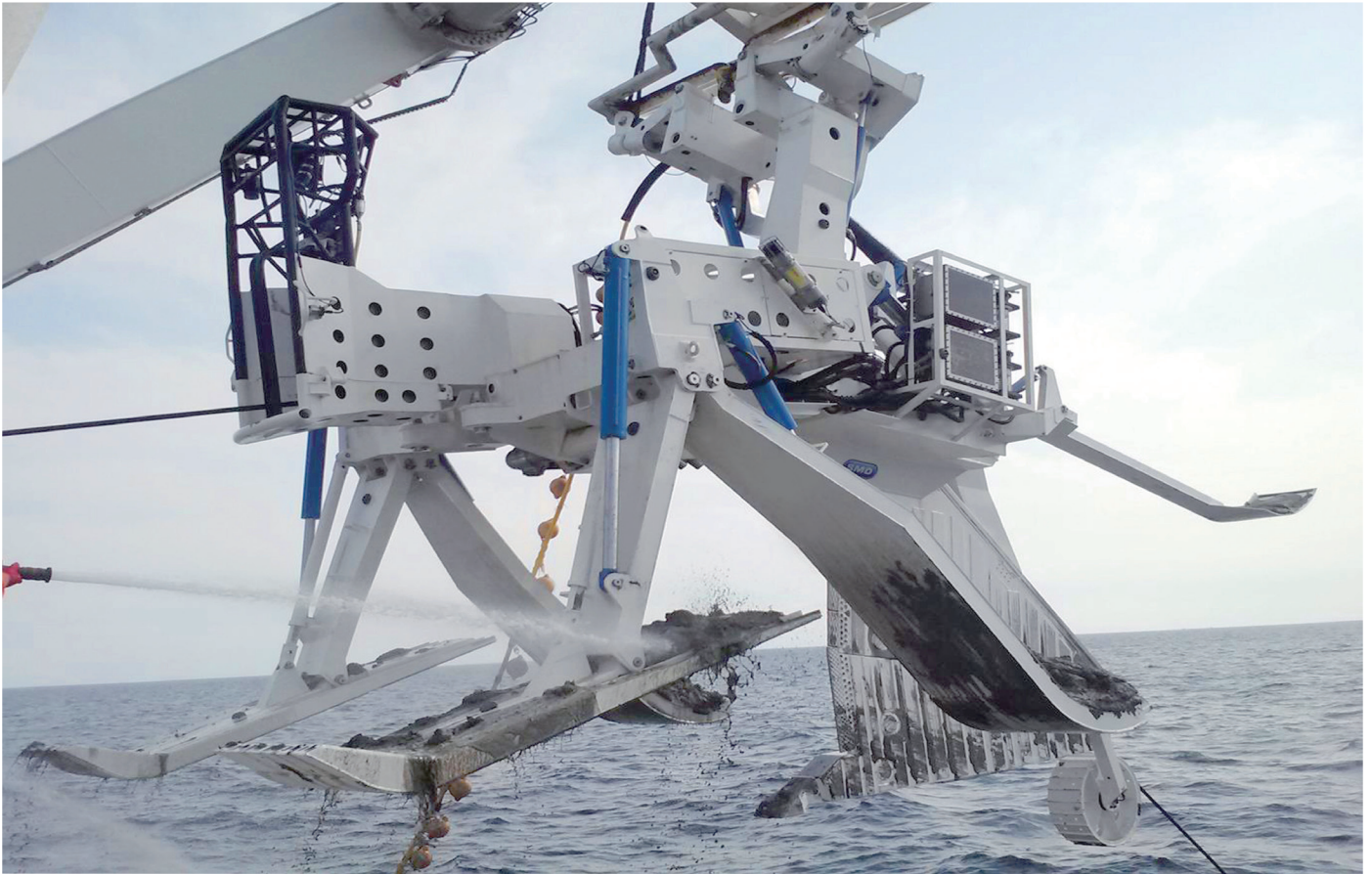


MD3XT PLOUGH



MD3XT was manufactured by SMD in 2013, and has been recognised globally as setting the standard in cable ploughing, reliably trenching in most soils including clays and sands. Using patented technology, the plough is designed to minimise pull force requirements and provide effective trenching capability from zero to 3.3m depth. Its performance is able to be enhanced with jetting upgraded and coupled with a tow winch, umbilical and LARS system.

MD3XT PLOUGH

Weight

Air Weight	27.5ton
Submerged Weight	22.0ton

Dimensions

Skid Down	9.49m (L)
Drawbar Down	5.50m (H)
Over Stabilisers	5.08m (W)

Operation

- Pulled by tow wire from surface vessel	
Operating Depth	1,500m
Towing Force	10ton to 80ton (0m to 2.2m deep) 50ton (2.2m to 3.3m deep)
Max. Permissible pull at Plough	80ton
Burial Depth	Up to 3.3m
Cable Size	17mm to 90mm Diameter
Repeaters	Up to 380mm Diameter
Cable Splice Boxes	Up to 150 Diameter
Cable Bend Radius	Minimum along the cable path 1.5m
Soil Type	Any, with Good Rock Ripping Ability
Cable Tracking	Lateral Cable Angle Potentiometer and TV Camera
Ploughing Speed	Up to 1m/s Depending on Seabed Condition

Operating Conditions

Operating Temperature	+40C to -4C
Ambient Temperature	+50C to -15C

Hydraulics

Fittings Motor	3-Phase, 2kV, 50/60Hz, 15kW
Reservoir	100litres Working Capacity

Subsea Jetting System

Motor / Pump Sets	2 X 250kW submersible motor / Pump sets
Jets	- 1 X set with Different Nozzle Diameters - 1 X set of Nozzle Blanks
Power Control	- Main Share Jet tool consumption up to 500kW - Switch each 250kW supply to front jet tool or share

Subsea Electronics and Telemetry

Test Pressure	1.25 X Working Pressure
Mounting	Anti Vibration Type

Instrumentation

Pressure Transducers	- Water Depth - Depressor Pressure - Hydraulic System
Jetting Transducers	Water Pressure (X2)
Linear Transducers	Hydraulic Oil Reservoir Volume
Altitude	Echo Sounder (Range 0.6m to 30m)

Surveillance

Cameras	3 X Near-SIT Camera (Kongsberg Simrad)
Lamps	5 X 150w 245v LED (Bowtech)
Sonar	Obstacle Avoidance (Tritech, Super seaking)
Pan and Tilt	Sub-Atlantic, 24V Pan and Tilt Unit
Hydrophone	For Noise Monitoring - Benthos