

SMD MD3 Plow System



MD3 Jetting Cable Plow

Trench Depth	3 meters
Pull Force	80 tonnes maximum
Size (l x b x h)	9.3m x 5.0m x 4.4m
Weight	20 tonnes
Cable type	All telecom cable, 1.5meters bend radius throughout
Repeaters	All telecom repeaters up to 400mm diameter
Depth Rating	1,500 MSW
Soil Types	Very soft clay to firm clay, all sands
Handling	By tow rope using lifting drawbar
Control System	From surface using sophisticated control system

MD3 plow rated to 1500m

Including :

- Surveillance system (lights, 2 x ROS pan & tilt units)
- Subsea pod complete with fiber optic transmission
- 2 x CCD B&W cameras
- 1 x CCD Color zoom camera

Hinge Depth Control

Additional central hinge depth control system allows plow towing assembly and bell-mouth to be contained close to the seabed in all plowing conditions. Zero plow sinkage needed up to 2.0 meters trench depth.

Repeater Burial Flaps

Hydraulically deployed repeater burial system for trenching of repeaters, used in conjunction with the narrow share.

Burial Depth Arm

Instrumented arm to directly measure burial depth

Lay Cable Wheel

Instrumented wheel, sprung loaded onto cable route measured speed and distance relative to (stationary) cable.

Cable Slipper

Dynometer type cable slipper, mounted I share (above seabed level) for improved as laid tension measuring accuracy.

Power Van

Topside power van in 10ft ISO container, including all transformers, circuit protection, air conditioning unit.

Plow Jetter System

MD3 plow includes forward mounted jet burial tool with hydraulic cylinder deployment and under-heel jetting. Includes 250kW submersible motor/pump set, Umbilical system including 2700m of armored umbilical and floatation, slip ring for winch, deck cable between power van and winch, surface and subsea electrical terminations, subsea mechanical termination suitable for the plow ROV type umbilical winch with spooling gear etc. including winding on the umbilical cable.

Control Cabin

Control cabin custom built into 20ft ISO container and fully fitted with cupboards, shelves, desk. Complete with 3 bay control console, high capacity A/C, power system, processor system and plow software.

Independent co-pilot station

Allowing plow and diagnostics screens to be run independently at operators positions simultaneously.

Fourth console bay

Mounted behind main working area providing additional rack space.

Umbilical system

Umbilical winch and 4,000m of buoyant umbilical cable. Umbilical winch complete with junction boxes, slip ring and 4,000m of buoyant umbilical cable suitable for plow operations to 1,500m (does not require additional floatation).