

TYCO Sea Stallion Shore End Cable Burial System



TYCO SEA STALLION Shore End Plow

FLOW SYSTEM SPECIFICATION

Manufacturer EB (IHC ENGINEERING BUSINESS LTD UK)

Type Telecommunication, submarine cable burial
Power & oilfield umbilical burial,

Rated Water Depth 1,000 meters

Maximum Burial Depth with sinkage.....2.0m.

Cable Diameter up to 200mm

Tow Tension at Plow.....50 Ton Bollard Pull

(NB: Host vessel's tow winch capacity, bollard pull and operational environment may dictate maximum pulling force)

The Cable Plow System TYCO SEA STALLION Shore End Plow is an EB made Plow uniquely designed for shore end burial operations and capable of a 50 Ton bollard pull. It can trench and bury submarine cable to a depth of 2.0 meters, in up to 1,000 meters of water depth, and operate in a wide variety of seabed environments, ranging from sand to firm clays.

System Components Weights and Dimensions

Length	<i>maximum..... 8.0 meters</i>
Width	<i>maximum..... 4.2 meters</i>
Height	<i>maximum..... 4.0 meters</i>
Weight	<i>Dry 12 tons</i>

Operational Parameters

Minimum Soil Strength	5 kPa
Minimum Lay Cable Bend Radius	1.5 meters
Repeater maximum Diameter.....	180 mm
Maximum size of Splice Box in the share.....	180 mm
Cable Diameter	up to 200 mm
Maximum side slope of the seabed.	30°
Maximum up / down slope of the seabed.	30°

Surveillance Equipment

Cameras	2
Lights.....	4
Sonar	Mesotech
Pan & Tilts.....	1

The Plow System, SEA STALLION Shore End Plow, is self contained using 20-foot vans (modified ISO containers) for control cabin, maintenance and spares, as well as a 10 foot ISO container for the Hydraulic Power Unit for topside launch and recovery.

The depth of burial is hydraulically adjustable from 0-1.6m trench depth by moving the skid arm, remotely controlled from surface.

A full sensor instrumentation suite allows the operator to continuously monitor Tow Tension, Depth of Burial and plow system status. The sensor information and video is transmitted to the operator console in the control van via an electro-optical umbilical cable.