

# TYCO Sea Stallion 1 Cable Burial System



## TYCO SEA STALLION 1 Plow

### FLOW SYSTEM SPECIFICATION

**Manufacturer** EB (IHC ENGINEERING BUSINESS LTD UK)

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

**Rated Water Depth** ..... 1,500 meters

**Maximum Burial Depth with sinkage**.....3.0m.

**Cable Diameter** ..... 15 - 150mm

**Tow Tension at Plow**.....100 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 1 is an EB SS3 Plow uniquely designed and capable of a 100 Ton bollard pull. It can trench and bury submarine cable to a depth of 3.0 meters, in up to 1,500 meters of water depth, and operate in a wide variety of seabed environments, ranging from sand to firm clays.

**tyco**

Telecommunications

**System Components Weights and Dimensions**

<b>Length</b>	<i>maximum.....</i>	<b>13.8 meters</b>
<b>Width</b>	<i>maximum.....</i>	<b>5.4 meters</b>
<b>Height</b>	<i>maximum.....</i>	<b>5.3 meters</b>
<b>Weight</b>	<i>Dry .....</i>	<b>32 tons</b>

**Operational Parameters**

<b>Minimum Soil Strength .....</b>	<b>5 kPa</b>
<b>Minimum Lay Cable Bend Radius .....</b>	<b>1.5 meters</b>
<b>Repeater maximum Diameter.....</b>	<b>350 mm</b>
<b>Maximum size of Splice Box in the share.....</b>	<b>266 mm</b>
<b>Cable Diameter .....</b>	<b>15 - 150 mm</b>
<b>Maximum side slope of the seabed. ....</b>	<b>30°</b>
<b>Maximum up / down slope of the seabed. ....</b>	<b>30°</b>

**Surveillance Equipment**

<b>Cameras .....</b>	<b>4</b>
<b>Lights.....</b>	<b>10</b>
<b>Sonar .....</b>	<b>Mesotech</b>
<b>Pan &amp; Tilts.....</b>	<b>2</b>

The Plow System, SEA STALLION 1 is self contained using 20-foot vans (modified ISO containers) for control cabin, maintenance and spares, as well as Hydraulic Power Unit for topside launch and recovery.

The depth of burial is hydraulically adjustable from 0-2.8m trench depth by moving the skid arms and stabilizers, remotely controlled from surface. Stabilizers maximum range 0 to 3.0m to allow sinkage for deep burial in softer conditions

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.