

# Sea Stallion power cable plough

## Product overview

The Sea Stallion cable plough range has an extensive track record spanning almost 20 years in the burial of subsea cables. The latest generation boasts significant improvements over early versions whilst still incorporating the robust highly effective multi-bladed share system.

Considerable effort has resulted in reduced vessel fuel costs and improved the cable handling combined with the latest Ethernet control system.

## Customer specific

Working directly with clients to deliver tailored subsea solutions the plough is customisable to meet project-specific requirements. The plough can be upgraded throughout its life cycle to confront new challenges using the latest technologies.

The plug & play design of the control equipment ensures customer components can be easily integrated using the self-diagnostic, multi-drop down, distributed control system. All IHC EB control systems are fully compliant with IEC 61508.

## Customer benefits

Reduced costs:

- lower vessel fuel consumption
- increased operational window
- turnkey supply of equipment and vessel
- responsive 24/7 worldwide service
- attractive financing available.

## Key technical features

Better cable protection:

- pivoting bellmouth®
  - ultra-cable friendly cable path with reduced bend angles especially lowering the plough through the water column
  - lower residual cable tension
- lowering tow points
  - reduced skid forces vessel fuel costs
  - increased stability for better penetration
- full monitoring of cable tension and position.

## Safe and environmentally friendly

- buoyant umbilical, no requirement for floats
- biodegradable oil as standard.

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## Specification

|                         |                                                        |
|-------------------------|--------------------------------------------------------|
| Trench depth            | 0.0m to 3.3m                                           |
| Soil strength           | 5kPa to 350kPa                                         |
| Cable OD                | Ø30mm to Ø300mm                                        |
| Cable MBR               | 5.0m                                                   |
| Tow force               | 150Te (continuous)                                     |
| Steering                | ±10°                                                   |
| Water depth             | 1,500m                                                 |
| Weight in air           | 50Te (with jetting fitted)                             |
| Dimensions<br>(on deck) | length 14.1m<br>width 6.0m<br>height 6.6m (drawbar up) |

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## Operation

|                   |                                  |
|-------------------|----------------------------------|
| Share             | aggressive, multi blade          |
| Plough handling   | lifting drawbar                  |
| Cable handling    | simultaneous lay & trench        |
| Umbilical         | buoyant                          |
| Launch & recovery | sea State 5 ( $H_{sig} = 3.0m$ ) |

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## Control

|                 |                                                                |
|-----------------|----------------------------------------------------------------|
| SCADA           | ethernet                                                       |
| Instrumentation | comprehensive with full data<br>logging and remote diagnostics |

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## Surveillance (typical)

|         |                             |
|---------|-----------------------------|
| Cameras | 3 off low light, colour etc |
| Lamps   | 6 off dimmable LED's        |
| Heading | gyro or compass             |
| Sonar   | obstacle avoidance          |

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## Options

|                    |                                                                                                                                                                   |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Jetting, dilation® | 150kW in share tips<br>beach operation                                                                                                                            |
| Post lay burial    | subsea cable load/unload <ul style="list-style-type: none"><li>• crane,</li><li>• bellmouth tines</li><li>• tipping trough</li><li>• pivoting depressor</li></ul> |
| Umbilical          | ultra-low loss 6kV                                                                                                                                                |

All details are typical. Please contact [uk@royalihc.com](mailto:uk@royalihc.com) for any client specific requirements.

