

# *Supertrencher II Trenching System*

The Supertrencher II Trenching System was designed specifically to trench and backfill deep-water flowlines, umbilicals and cable products. The system has 600 horsepower available and is capable of operating in tracked, free fly or pipe follow modes. The Supertrencher II's unique jetting and backfill tooling systems allow each trench to be customized based on soil conditions and desired trench profile. The trencher utilizes several different techniques and features to allow customized burial depth control. As a result, product burial out-of-straightness (OOS) tolerances are easily maintained.

This system is capable of burying pipes up to 61 cm (24 in.) diameter to burial depths of 2.0m (6 ft 6 in.) depending on soil strength conditions. It can also be utilized for deep (up to 3,000 meters) post lay burial of submarine cable and umbilical products in varying soil strengths.





### **APPLICATIONS**

The Supertrencher II trenching system is suitable for the following applications:

- Flowline trenching and mechanical backfilling to 2.0m DOC
- Burial of umbilicals and power cables to 2.5m depth BOT
- Burial of submarine telecommunications products to 3.0m depth BOT
- Burial and installation of seismic cables and array systems
- Product burial depth determination and logging

### **VEHICLE**

- 600 hp
- 3,000m (9,840 ft.) rated
- 4 x horizontal and 3 x vertical thrusters

### **GEOMETRY**

- Subsea slopes of +/- 18 degrees in pitch and roll
- Free fly and tracked modes

### **DIMENSIONS**

- Length: 3.8m (12 ft. 7 in.)
- Width: 3.6m (11 ft. 9 in.)
- Height: 8.26m (27 ft. 1 in.)
- Weight: 14,700 kg including 200 kg payload

### **JETTING SYSTEM**

- 2 x high pressure hydraulically driven water pumps
- 2 x electrically driven water pumps
- Active cable friendly depressor with depth of burial feedback

- Width between Eductors: 780mm
- Jetter separation 750mm
- Jetter separation adjustable for passing repeaters and anodes
- 2m interchangeable flowline jet trenching tool
- 2m interchangeable flowline trench eductor and/or dredging tool
- Interchangeable trench backfill tool attachment
- 3 x interchangeable jet trenching tools (1m, 2m and 3m)
- Forward jetting tool for miscellaneous burial activities

### **SOIL STRENGTHS**

- 5 to 100 kPa

### **SYSTEM SENSORS AND TOOLS**

- Auto altitude, heading and depth control
- Pitch and roll control
- TSS dual track 440 pipe and cable tracker
- Pipe roller system
- 2 x TA40 Rate controlled 7-function manipulators
- 2 x Trittech super seeking dual frequency profilers
- 12 x 250 watt lights (dimnable in pairs)

### **CAMERA SYSTEMS**

(All are PAL Format)

- Low Light: 1 Navigator
- Miniature Color: 2 Inspection
- Color: 2 Zoom and focus, 2 Miniature observation
- Pan and Tilt: 4 (non-feedback)
- Tilt: 2 (non-feedback)

### **A-FRAME**

- Type: Hydraulically powered
- Safe Working Load: 25,000 kg (55,120 lb.)
- Outboard Reach: 26.7 Te

### **WINCH**

- Safe Working Load: 25,000 kg (55,120 lb.)
- Umbilical Length: 3,300m (10,824 ft.)

Dimensions:

- Length: 5.2m (17 ft.)
- Width: 3.4m (11 ft.)
- Height: 3.8m (12.5 ft.)

*Specifications Subject to Change*



[www.HelixESG.com](http://www.HelixESG.com)

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