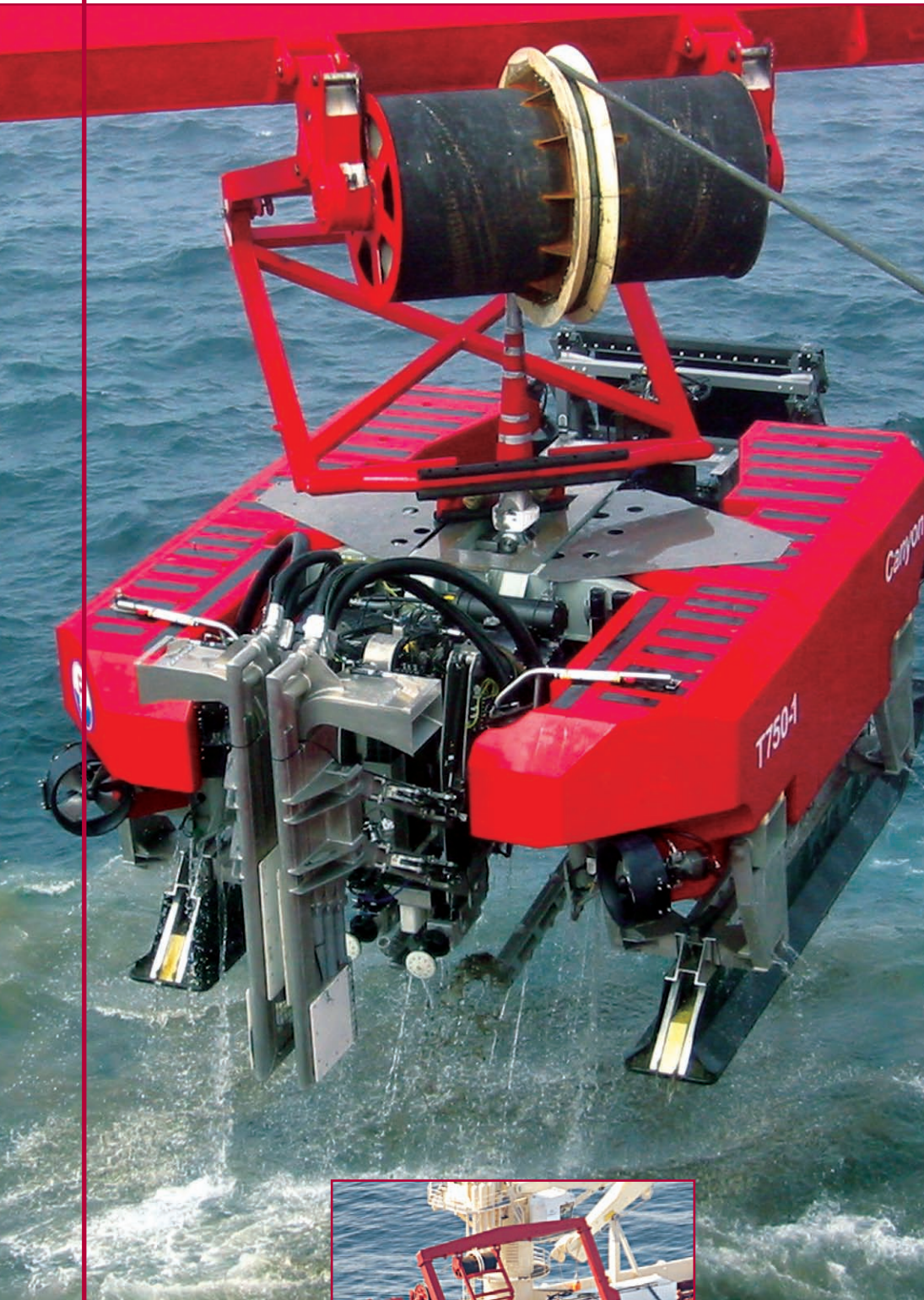
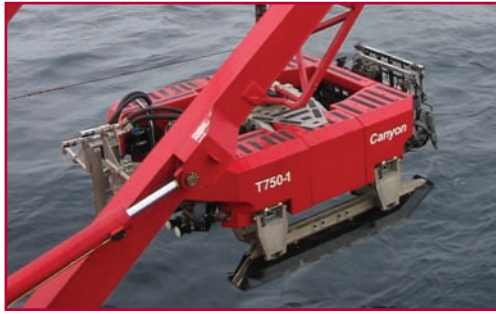


Supertrencher I Trenching System

The powerful Supertrencher I is a purpose built ROV based trenching system designed to trench and backfill deepwater flowlines, umbilicals and cable products. This impressive system is capable of operating in tracked, free fly or pipe follow modes. The unique jetting system allows each trench to be customized based on soil conditions and desired trench results. Out-of-straightness (OOS) tolerances are very easily maintained as a result of the trencher's ability to allow customized burial depth control.

The system is capable of burying pipes up to 71cm (28 in.) diameter to burial depths of 2 meters in soil strength conditions up to 100kPa. The Supertrencher I can be configured to perform total trench soil eduction for flow-line trenching, then perform customized trench backfilling at a rapid rate (depending on soil strengths). It can also be utilized for deep post lay burial of submarine cable and umbilical products in varying soil strengths up to 100kPa and to a depth of 3 meters.





Supertrencher I is equipped with a dual high-pressure and dual low-pressure water pump jetting system that ensures the trench formed is clear, stable and as free from debris as possible.

The system is a true representation of advanced trenching and burial technology. It has established an impressive record of accomplishment in a full range of soil and environmental conditions on a variety of projects including world record burial of deepwater flowlines, umbilicals and submarine power and telecommunications cables.

APPLICATIONS

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

- Flowline trenching and custom backfilling to 2m depth
- Burial of umbilicals and power cables to 3m depth
- Burial of submarine telecommunications products to 3m depth
- Burial and installation of seismic cables and array systems
- Support of construction installation of flowlines, cables and array systems
- Detection and tracking of surface-laid and buried products
- Product burial depth determination and logging
- Manipulation of cable product using cutters, grippers and surface recovery tools

VEHICLE

- 750 hp (3 x 250 hp electric motors)
- 2,500m (8,200 ft.) rated
- 4 x horizontal and 4 x vertical thrusters

GEOMETRY

- Maximum seafloor gradient \pm 18 degrees

DIMENSIONS

- Length: 5.5m (18 ft.)
- Width: 3.75m (12 ft.)
- Height: 3.2m (10.5 ft.)
- Weight: 23,000 kg (50,700 lb.)

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
- 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

- Minimum soil bearing in tracked mode 5kPa
- Capable of burial in soil strengths up to 100kPa

SYSTEM SENSORS AND TOOLS

- Auto altitude, heading and depth control
- Pitch and roll control
- TSS dual track 440 pipe tracker
- TSS dual track 350 cable tracker
- 2 x Trittech super seeking dual frequency profilers
- 12 x 250 watt lights (dimnable in pairs)
- 2 x TA40, Rate controlled 7-function manipulators

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.)

WINCH

- Safe Working Load: 25,000 kg (55,120 lb.)
- Umbilical Length: 1,800m (5,900 ft.)

Dimensions:

- Length: 6.4m (21 ft.)
- Width: 4.1m (13.5 ft.)
- Height: 5.9m (19.5 ft.)

Specifications Subject to Change



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