

# Type III Tether Management System

The Type III tether management system (TMS) uses the latest PSS tether path geometry and has high capacity, simple tether route, tether load sensing and proportional speed control. It is suitable for all work-class ROVs.

The TMS stores and deploys the ROV tether cable so that the ROV motion is decoupled from motions of the main umbilical to the surface vessel. It allows the ROV to operate at a greater operating radius from the deployment point.

The docking box used on the underside of the TMS has a powerful two stage latching action that structurally locks the ROV to the TMS for deployment and recovery through the sea surface. ROV packages of up to 8000kg can be deployed.

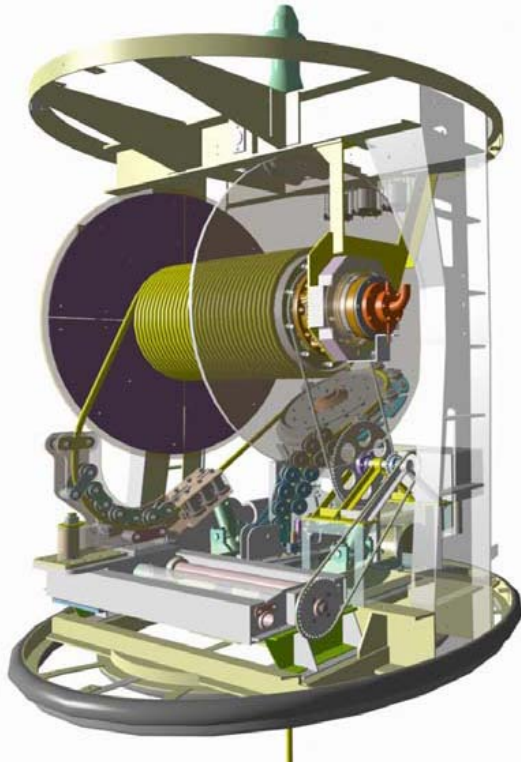
The top lifting cone can be a PSS standard design of customer specified bullet, to suit an existing A-Frame.

The Type III TMS has a gentle tether route which will maximise the operating life of any matched tether.

## Features

- 4000 m Depth rating
- Up to 38 m/min variable tether speed
- Net ROV weight 8000 kg
- Tether line pull 600 kgf
- Up to 1050 m tether @ dia 27 mm
- Gentle tether handling
- Tether load sensing
- Auto-render overload protection





The Type III TMS tether route is shown.

When hauling-in, the main drum pulls the tether across the rollers and the main sheave provides a controlled resistance to keep the tether tensioned within the TMS.

When paying-out, the sheave wheel gently grips the tether in a groove and pulls against a controlled drum resistance.

The control system is specially configured so that starts and stops are ramped.

Tether length counting is accurately recorded by a dedicated measurement roller. Tether tension is measured by a load sensor.

The spooling is mechanically driven so that the ROV can still pull off full tether even when the TMS is now powered.

## Specifications

Tether diameter:	25-45 mm
Capacity (dia 27 mm tether):	1050 m
Capacity (dia 35 mm tether):	635 m
Maximum line pull (inner layer):	600 kgf (adjustable)
Depth rating:	4000 m
Haul in speed (average):	38 m/min max
Weight in air (excluding tether):	2680 kg
Maximum load rating of umbilical connection:	11000 kg (3 g rating-proof load 33000 kg)
Maximum load rating of ROV docking box:	8000 kg (3g rating-proof load 24000 kg)
Diameter:	2100 mm (incl rubbing strip)
Narrowest width:	1650 mm
Height:	2306 mm
Grooved drum shell:	Standard

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The specification details are illustrative for marketing purposes only. Actual equipment may be different as a result of product improvement or other reasons. Specific interface and performance information should be reconfirmed at time of order placement.