

## Triton® ST200 Series Low & Wide ROV



**ST200 series ROV**



### CABLE MAINTENANCE ROV

<b>Depth Rating</b> .....	2,500 MSW
<b>Power</b> .....	200Hp
<b>Configuration</b> .....	Free Fly / Tracked Modes
<b>Control System</b> .....	Single Mode
.....	Fiber Optic PC Based
<b>Burial Performance</b> .....	Up to 1.5 meter Burial in standard configuration.
.....	1m @ 45Kpa
<b>Pressure &amp; Flow Water Jetting System</b> .....	Variable
<b>Lift Point</b> .....	Variable

*ST200 series of free swimming remotely operated vehicles (ROV) has established the benchmark for modern cable working ROV's.*

*This flexible system can operate in both free swimming and tracked mode. Depth rated to 2500m and with a 1.5m burial tool as standard, this package can provide a cost effective solution for all subsea cable tasks.*

**Data Sheet** .....A001-350-051 Issue 1

**Depth Capability** (MSW) .....2500

**Thruster Configuration**

- 4 horizontal thrusters in quad arrangement
- 4 vertical thrusters

**Maximum Speed** (Free-flying)

Forward (knots).....2  
Lateral (knots).....1.8

**Maximum Speed** (Tracked)

Forwards (knots) ..... 1.15

**Dimensions** (Free-flying)

Width excluding tracks (mm).....2000  
Length (mm) .....3100  
Height (mm) .....2200

**Vehicle Weight**

Free Fly configuration (kg) .....6300  
Tracked Mode configuration (kg) .....7000

**Propulsion System**

- 100 HP electro-hydraulic power units 3000 VAC, 3-phase, 60 Hz, 1800 rpm. Variable pressure controlled pumps (2)
- Horizontal thrusters (4)
- Vertical thrusters (4)

**Hydraulic Manifolds**

- 4 function thruster manifolds (proportional valves) (2)
- 10 function solenoid valve manifolds (3)
- 9 function proportional/solenoid valve manifold (1)
- Pump control manifold (2)

**Heading Control** ..... ±2° Auto or Manual

**Depth Control** ..... ±2° Auto or Manual

**Altitude Control** ..... ±2° Auto or Manual

**Automatic Cable Tracking**

- Pre-burial survey
- Burial mode
- Post-burial survey

**Lighting System** (3000 watts total)

- 250 watt lights, 2 per dimming circuit (12)

**Control Systems**

- Surface control - Pentium PC based, database driven software and real-time operating system
- Subsea control - Pentium PC based, 32 bit STD bus

**Spare Data Transmission**

- Real-time video channels available (8)
- Spare fiber optic interface card slot (1)
- Customer solenoid valve drivers (pre-wired) (9)
- Customer digital out (8)
- Customer digital in (8)
- Customer analog out (4)
- Customer analog in (8)
- Full duplex RS232 @ 115 kpbs data channels (4)
- Full/half duplex RS485/422/232 @ 115 kpbs channels (4)

**Jetting System**

- 90 HP hydraulic Direct Water Pumps (2)
- 2650 lpm per pump (at 125 PSI at maximum power)

Note: Variable output control provided with each pump.

**Burial Capabilities**

Cable Types ..... Lightweight and Armored  
Jetter separation ..... Variable to 360mm  
Cohesive Soil ..... Up to 45kPa  
Non-Cohesive Soil ... Sand, Silt and Gravel to 30mm  
Minimum Bearing Strengths ..... 7kPa  
Burial depth:  
..... Variable from 0 - 1500 mm with cable depressor  
Water Pump: .....  
..... 2 X Variable speed hydraulic drive, single stage  
Maximum jet pressure: ..... 8.5 bar  
Maximum water flow: .....8,000 lpm

**Surveillance Equipment**

Cameras: ..... 3 x color  
..... 3 x mono  
Lighting: ..... 12 x 250W, dimmable lamps  
Pan & tilt units: ..... 3 x Pan & Tilt (Tritech)  
..... 1 x Rotator (Hydrda-lek)  
Search & OA sonar: ... 1 x Kongsberg Simrad MS 900  
..... 2 x Tritech SeaKing  
Cable tracking system: .....  
..... TSS 340/350 Dualtrack (combined) System

**Cable Handling**

Manipulators: .....  
..... 2 x 7 function Schilling extended 'Conan' arms.  
Cable cutter: ..... 1 x Webtool HCV100  
Cable gripper: ..... 1 x Slingsby TA17 cable clamp,  
..... cable diameter 15-100mm  
..... 20000kg max. line pull