



TYPHOON MK2 150

Heavy Duty Work Class ROV



OVERVIEW

The Typhoon is a 150HP heavy work class ROV with a proven 3000msw depth rating. It is designed and built in Australia to be a cost effective and client-focused answer to your ROV needs. The Typhoon can be installed in an ROV hanger, or supplied with a Control and Workshop container for installation on deck.

FEATURES

Electronic Architecture

Distributed node control including automated heading and station hold. Expandable RS485 network with a range of quick-change PCB's for different applications. Dual redundant control and modem interface.

Manipulators

Two manipulators on extendable TMT Z Extensions are provided. The Z Extension provides 300mm of controlled movement in the Z axis (fwd-aft) for manipulators. A third central Z Extension is available for tooling. Manipulator options include:

- Schilling Conan, 7-function, Master / Slave
- Schilling T4, 7-function, Master / Slave
- Schilling RigMaster, 5-function, rate
- Schilling Atlas, 7-function, rate
- TMT Guidepost Grabber, 2-function, rate

Tooling Interface

5x 0-15L/min, 3000psi for Tooling
8x 0-15L/min, 3000psi for Manipulators
3x 0-8L/min, 3000psi proportional for Tooling
2x High Flow 0-76L/min, 0-3000psi
1x Ultra High Flow direct to main 0-238L/min HPU
10x Medium Flow direct to secondary 0-78L/min HPU
See overleaf for standard tooling options

Tether Management System

The Typhoon ROV is designed to suit Perry Type 5A TMS. Other TMS models are available as an option.

ROV Instrumentation

- Sonar system
- CDL TOGSNAV with:
 - Depth sensor
 - DVL
 - North seeking gyro compass
 - Temperature sensor



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ROV

Depth Rating	3000msw
Length	3.5m
Width	1.8m
Height	2.2m
Weight	5300kgs
Frame Proof Load	30,000kgs
Through Frame Lift	2700kg (upgrade to 4500kg)

ROV THRUST

Four Vertical and Four Horizontal Thrusters	
Forward / Astern	1000kg
Lateral PORT / STBD	800kg
Vertical Up / Down	800kg

ROV HPU

150HP (Max)	
238L/min (Primary) @ 207bar (3000psi)	
76L/min (Auxiliary) @ 207bar (3000psi)	
Variable Axial Piston Pumps	

ROV ELECTRICAL SYSTEMS

Frequency	60Hz ± 5%
Voltage	440VAC ± 5%
ROV HPU	200kVA, 3250VAC
ROV Instruments	6kVA, 2400VAC
Pan & Tilt	2x Front 1x Rear
Lights	6x 24VDC LED 2x 120VDC SeaLite LEDs

Cameras:

Colour Zoom	2x Kongsberg OE14-367A
High Definition	1x Kongsberg OE15-101C
Black & White	3x Kongsberg OE15-109
Colour	1x Kongsberg OE14-111

Data Channels	4 Aux. Data Channels
Sonar	Kongsberg 1171 Sonar Head
Navigation System	CDL TOGSNAV

MANIPULATORS

Standard:

Schilling Conan, 7-function, Master / Slave
Schilling Atlas, 7-function, rate
TMT Guidepost Grabber, 2-function, rate

Optional:

Schilling T4, 7-function, Master / Slave
Schilling Atlas, 7-function, rate
Schilling RigMaster, 5-function, rate

EMERGENCY RECOVERY DEVICES

Strobe	Novatech ST400A
Acoustic Beacon	2x ULB-362PL

20' CONTROL VAN - OPTION

Length	6.1m
Width	2.4m
Height	2.75m
MGM	16,000kg
Non-Hazardous Area	Standard
HVAC	2x 7kW

20' WORKSHOP - OPTION

Separate wet and dry working areas	
Lifting Rail	1000kg
HVAC	7kW
Workbench, Storage, Spares	

DECK HPU - OPTION

Hydraulic Power	22kW
Operating Pressure	0 to 250bar
Maximum Pressure	250bar
Maximum Output Flow	50L/min

A-FRAME - OPTION

Safe working load	15T
Design factor	3.0 global
Outreach	4.0 m
Dimensions	6.0L x 4.0Wm
Gross weight	27,000kgs
Boom extension	2.0m
Sheave wheel diameter	1200mm
Hydraulic damping	+/- 10°
Latch rotation	355°

WINCH - OPTION

Pull (1 st layer)	18T @ 0-50m/min
Pull (top layer)	12T @ 0-70m/min
Pull Brake Holding Load	180% FLT (min.)
Drum capacity	3000m of 32.6mm dia. cable
Drum dimensions	2100mm O/D x 1300mm PCD x 2000mm. Approx..
Power Required	175kW duty approx.

AVAILABLE ROV TOOLS

Gasket Ring Tool	Gasket Installer
Guide Wire Cutter	Hotstabs
Guide Post Cutter	Water blasters
Mini Dredge	PH Meter
Rig Floor Monitor	Fluid Transfer Skid
Smart Torque Tool	Guidewire Latch
Plate Handling Tool	Systems
Smart Level	Current Meter
CP Probe	Megga Digger
Densitometer	

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