

TECHNICAL SPECIFICATION

SCHILLING ROBOTICS HD WORK CLASS ROV SYSTEM



ROVOP

KNOWLEDGE IN DEPTH

SCHILLING ROBOTICS HD WORK CLASS ROV SYSTEM

MODEL

Schilling Robotics HD Work Class

MANUFACTURER

Schilling Robotics

PERFORMANCE, PEAK THRUST

Forward/Aft/Lateral 900 kgf

Vertical – Up/Down 850 kgf

SPECIFICATIONS

Depth rating	3000msw
Length	2500mm
Width	1700mm
Height	1900mm
Payload	250kgs
Safe Working Load	6700kg
Through-Frame Lift	3000kg
Weight In Air	3500kg
Vertical DAF	3.0
Horizontal DAF	1.0
(DAF – Dynamic Amplification Factor)	
TMS tether length	850m

EQUIPMENT FIT

Manipulators	Schilling T4 7F and Rigmaster 5F	
Low Light Camera	Insite	Mercury
Color Zoom Camera	Insite	Pegasus
Docking Camera	Insite	Aurora
Depth Sensor	Teledyne	MRU
Heading and Dynamic Motion Sensor	CDL	MRU
Doppler	RDI	Navigator 1200kHz
Strobe	Novatech	ST400 AR
Sonar	Tritech	DST
Lights (8)	ROS	MVLED 26VDC
Pan and Tilt (2)	Schilling	Electric Programmable
Valve Pack (2)	Sub Atlantic	8 Function
Hi Flow Valve Pack (1)	Schilling	3 Function

PROPULSION

HPU	150shp	112kW
Main Pump	Eaton	135cc
Nominal Operating Pressure	207Bar	3,000psi
Max Operating Pressure	275Bar	4,000psi
Thrusters	Sub Atlantic	SA380-40x7
System Flow, at 3,000psi	216LPM	57GPM

HYDRAULICS – AUXILIARY CIRCUIT

Auxiliary Pump	Rexroth A10VSO	45cc
Nominal Operating Pressure	207Bar	3,000psi
Max Operating Pressure	275Bar	4,000psi
Maximum Flow, at 3,000psi	72LPM	19 US GPM
Spare Functions		11

SYSTEM POWER REQUIREMENTS

500KVA 3-Phase 440V / 60Hz

Key performance figures include Station Keep Dynamic positioning capability as standard, tightly integrated with accurate power management and thruster feedback. The integrated modular design philosophy enables rapid maintenance in the field, with change out of key modules of the HPU and power supplies possible in under one hour.