

Remote Auxiliary Work Pack (RAWP)

SPECIALIST TOOLS

Product Number:
SSA-0547-DR-1001-00



The RAWP Backpack tooling unit is designed to attach to the rear of a Work-class ROV and generates hydraulic power to drive underwater tooling devices. The hydraulic power unit (HPU) on the Backpack is powered by the main pump on the host ROV. The host ROV also provides hydraulic pilot signals to control the operation of the Backpack. The 2 X 16 Litre reservoirs on the Backpack contain oil which is independent of the host ROV's main system. This ensures that any unintentional water contamination or other problem with the Backpack hydraulic system does not affect the propulsion system of the host ROV.

- The RAWP Backpack tooling unit is a general purpose tooling intervention unit designed to provide the hydraulic power to subsea tooling using oil independent from the ROV hydraulic system. The Backpack incorporates a hydraulic motor and pump assembly to which the motor is driven from the "Clean" ROV hydraulic system.

The Backpack HPU pump intakes oil from a dedicated compensated reservoir which is independent from the ROV hydraulic system. This ensures that the ROV hydraulic oil does not encounter contamination during tooling operations. The Backpack HPU motor is supplied oil via a motor control manifold.

The motor control manifold comprises of several cartridge type valves that control the speed in which the backpack motor operates. The operator has the choice of selecting "Low Flow" output of 30 LPM or alternatively "High Flow" output of 100 LPM from the pump by selection of the designated hydraulic pilot control signals.

When operating the 5 station valve pack, it is recommended that the pump must operate in Low Flow mode. If a tooling output flow demand greater than 30 LPM is required, The user must operate the backpack in High Flow mode.

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| Product Number | SSA-0547-DR-1001-00 |
| Materials | Aluminium frame fitted with 3000 Meter Rated Buoyancy |
| Depth Rating | 3000msw (9,842ft) |
| Hydraulic Performance Data | <p>HPU Output Pressure 207 Bar</p> <p>Pump Low Flow Output 30 LPM (Based on input of 45 LPM @ 210 bar from ROV)</p> <p>Pump High Flow Output 100 LPM (Based on input of 145 LPM @ 210 bar from ROV)</p> <p>Jupiter Valve Pack fitted Proving Proportional Pressure and Flow Control</p> <p>1 x NG6 Pressure & Flow Control Proportional Valve drives use stable 12 bit Constant Current Drive</p> <p>Pressure Control Valve has 250 bar transducer to monitor tool pressure</p> <p>4 x NG3 Bi-directional solenoid valves with externally adjustable fully shrouded meter out throttles</p> <p>4 x Bi Directional Solenoid Valves</p> <p>(Optional Jupiter High Flow Valve Pack Available)</p> |
| Weight in Air | 650 kg (1433 lbs) |
| Weight in Seawater | 110 kg (242.5 lbs) |
| Width | 889 mm |
| Length | 1,205 mm |
| Height | 1,340 mm |

