

# Schilling ATLAS 7R Manipulator

THE ATLAS is a new class of heavy-duty manipulator known as the dexterous grabber. It has been designed to lift heavy loads, while being lightweight and easy to control and for use together with WeSubsea dredging equipment.

With six degrees of freedom and a high lift capacity (250kg at full extension), the ATLAS gives operators the freedom and strength to perform a wider range of heavy-duty jobs in harsh subsea environments.



## Specifications

- No depth limitations
- Reach: 1,664mm
- Standard depth: 6,500 msw
- Weight in air: 73kg
- Weight in water: 50kg
- Lift at full extension: 250kg
- Maximum lift, nominal: 500kg
- Standard gripper opening: 198mm
- Grip force, nominal: 4,448N
- Wrist torque, nominal: 205Nm
- Wrist rotate, continuous: 6-35rpm

## Hydraulic Requirements

- Fluid: mineral, glycol, or synthetic
- Viscosity: 10-200 cSt
- Available flow: 5.7 - 19 lpm
- Max. pressure: 3,000 psi
- Max. fluid temperature: 54°C
- Fluid cleanliness: ISO 4406 14/11

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# iVP Control System – Manipulator Accessories

THE iVP is a long established, field proven fully proportional intelligent valve pack based on industry standard Wandfluh valves, which fulfil the needs of all hydraulic control requirements such as complex tooling skids, tracked vehicles, tether management systems, tool deployment units and manipulator arms.



## Specifications

- Electronic – 100Hz loop control 100Hz Loop Control
- Hydraulic working pressure – 300 Bar (max)
- Depth rating – 3000msw
- P, T, Fill & Drain – 3/8" BSPP
- NG3 valve – 1/4" BSPP
- Material – 6082T6 Al Hard Anodised to BS5599 Dyed Black & Dichromate Sealed to 50 Microns
- Weight in air – 29Kgs
- Weight in water – 21Kgs
- App dims – 508 x 186 x 180 (in mm, centre to centre of mounting holes)
- Power – 24v DC smoothed & regulated
- Data – RS232/RS422 (for use with ROV MUX)

## System Components

- 8 function iVP – Transit case – 10 pin whip
- Topside laptop plus control software – Compensator plus fill kit
- Xbox wireless controller – Deck test box plus cable
- Operating manual – Deck test lead

## Key Features

- Modular intelligent valve pack (iVP)
- Proportional control throughout
- Cost effective field proven technology
- 8 functions – expandable to 12, flexible
- Embedded processor for instant start-up
- Standard manipulator software
- External sensor capability
- Optional single channel video overlay
- Integrated comms link
- Fully self-contained system

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