

ATLAS POSITIONING CONTROL SYSTEM GEN 3

RELIABLE
HIGH PRECISION
UPGRADED FROM GEN 2 TO GEN 3



Description

Next-level precision and control with the Atlas PCS GEN 3 Upgrade Kit.

The Atlas PCS GEN 3 Upgrade Kit gives your Atlas Manipulator full position control. By combining servo hydraulics, magnetic sensors, and a master controller, this upgrade allows for smooth and accurate movements.

Once installed, it boosts the Atlas 7F's performance to a level similar to high-end systems like the T4 Manipulator Arm. The built-in sensors give live position feedback, helping you control speed and movement with greater accuracy.

With PCS GEN 3, your Atlas arm becomes faster, more precise, and easier to handle — even in demanding tasks.

The Kit is easily installed on any standard Atlas 7F and does not require any further adjustments or equipment for operation. All joints are operated by servo valves, while jaw and jaw rotation are proportionally controlled.

Critical operational performance such as load capacities, equipment reliability and easy maintenance procedures are not reduced or changed.

The system can be remotely operated from any onshore location.

Typical Operations

- ▣ Stab Operations
- ▣ Valve Operations
- ▣ Small Tool Handling
- ▣ Heavy Tool Handling
- ▣ Precision Tasks

Features

PCS Upgrade Kit:

- ▣ High precision
- ▣ Live Feedback from joints / rotation
- ▣ Master controller with pendant arm and large display
- ▣ Ixys VJU Studio software
- ▣ Camera Option

Atlas 7F Manipulator:

- ▣ High force, lift capacity – 250Kg
- ▣ Robust and reliable
- ▣ Cost efficient
- ▣ Low downtime
- ▣ Service & user friendly

SPECIFICATIONS

ATLAS POSITIONING CONTROL SYSTEM GEN 3

General Technical Specifications

| | |
|---|--------------------------|
| Type | PCS GEN 3 |
| Dimensions L x W x H | 306 mm x 174 mm x 172 mm |
| Weight PCS (in air / submerged) | 13 / 9 Kg |
| Weight Atlas Manipulator (in air / submerged) | 73 / 50 Kg |

Environmental Data

| | |
|-----------------------|---------------|
| Depth Rating | 3000 MSW |
| Operating Temperature | -10°C - +60°C |
| Storage Temperature | -30°C - +70°C |

Electrical Data

| | |
|----------------|-------------------------|
| Supply Voltage | 24 VDC |
| COMS | Ethernet-Modbus UDP/TCP |

Electrical Interface

| | |
|-----------------|------------------------------|
| COM1 (main) | Glenair FCR 5506-2008-0004 |
| COM2 (spare) | Shell size 15 blinding plate |
| COM3-7 (Sensor) | Scorpion 116-06-FCR-00-1000 |

Hydraulic Data

| | |
|---------------------------------------|---|
| Supply Pressure (from ROV) | 210 Bar |
| Supply Flow (from ROV) | 5-19 L/min |
| Fluid Compatibility Supply (from ROV) | Mineral Oil VG 22/32 (10-200 cSt / optimal 25 – 35 cSt) |

Hydraulic Interface

| | |
|-----------------|----------|
| ROV Supply | 1/4" BSP |
| ROV Return | 3/8" BSP |
| ROV Compensator | 1/4" BSP |

Kit Includes

Servo Valve Pack
Master Controller w/Pendant Arm
Sensor Package w/Magnets
Cables & Brackets

