

ATLAS PRECISION CONTROL SYSTEM

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 Software
- ▣ Camera Option

Atlas 7F Manipulator:

- ▣ High force.
- ▣ Lifting capacity 250 kg.
- ▣ Robust and reliable
- ▣ Cost efficient
- ▣ Low downtime
- ▣ Service and user friendly

▣ The specification details are illustrative for marketing purpose only. Actual equipment may be different as a result of product improvement or other reasons. Specific interface and performance information should be reconfirmed at time of order placement. Envirent AS, Robotvegen 16, 4340 Bryne, +47 477 77 500, sales@envirent.no

SPECIFICATIONS

ATLAS PRECISION CONTROL SYSTEM GEN 3

General Technical Specifications

Type	PCS GEN 3
Part Number	ARM-PCS-
Dimensions L x W x H	306 mm x 174 mm x 172 mm
Weight PCS in air / submerged	13 kg / 9 kg
Weight Atlas Manipulator in air / submerged	73 kg / 50 kg
Depth Rating	3000 MSW

Hydraulic Specifications

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

Hydraulic Interface

Connection ROV Pressure	JIC 6
Connection ROV Return	JIC 6
Connection ROV Compensator	Connected to valve pack (JIC4)

Electrical Interface

Supply Voltage	24 VDC
COMS	Ethernet – Modbus UDP/TCP

Electrical Interface

COM1 (main)	Glenair FCR 5506-2008-2004
COM2 (spare)	Shell Size 15 Blinding plate
COM3-7 (sensor)	Scorpion 116-06-FCR-00-1000

Kit Includes

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



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Inventory List:

Items listed in Inventory List are delivered with the equipment as standard.
Any additional equipment must be specified upon order.

Item	Description	Total Qty	PN
1.	Hydraulic Hose 3/8", Jic 6 Fm – Fm, 4m. SS (Return)	1	
2.	Hydraulic Hose 3/8", Jic 6 Fm – Fm, 4m. SS With Filter integrated 2my(Pressure)	1	
3.	Sparepart Kit for GEN3 PCS	1	
4.	Pigtail	1	
5.	Burton Dummy Connector	1	
6.			
7.			
8.			
9.			
10.			

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