HLK-2010

Manipulator Jaw Rotate

The HLK-2010 is a light duty jaw rotate unit designed specifically for the EH5 manipulator, but can be retrofitted for any application requiring a jaw rotate function.

All hydraulic connections are ported into the rear of the body and are available in 1/8" NPTF in accordance with ANSI 81.20.3.

The rotate is a rack and pinion design while the jaw function is a double acting actuator. The body and bracket are manufactured of 6082 aluminium with a 50 micron hard anodized surface.

Features

- Constructed from corrosion resistant materials
- Compact & lightweight @ only 3.24kg (7.14lb) in water
- Rotate range of 180 degrees and a jaw opening of 154mm at the end of the jaw tines

HLK-2010

Technical Specifications

General	
Function	Jaw & Wrist Rotate
Materials	316 Stainless Steel, 6082 Aluminium
Product Finish	Hard Anodised
Seal Material	Nitrile/NBR/Buna-N, PTFE
Ports	1/4" NPTF (ANSI 81.20.3)
Dimensions	(L) 295mm x (W) 116mm x (D) 75mm (11.6" x 4.56" x 3")
Weight in Air	4.13kg (9.1lbs)
Weight in Water	3.24kg (7.14lbs)
Wrist Travel (Degree)	180 Degrees
Jaw Opening	154mm (6")
T-Handle Groove Diameter	12.7mm (1/2")

Hydraulic Performance	
Maximum Working Pressure	140bar (2000psi)
Flow	0.5lpm to 6lpm (0.13gpm to 1.32gpm)
Fluid Type	Mineral: DIN 51524, ISO 11158, ISO 6743-4, ASTM D6158 Synthetic: Panolin Atlantis, HLP-Synth
Viscosity	16cSt to 220cSt. VG 22-32 Recommended
Temperature	5-60°C (41-140°F)
Cleanliness Requirements	ISO 4406:19/17/14, NAS 1638:8, AS4059:9A/8B/8C

Forces	
Wrist Torque	18.7Nm @ 140bar (13.8lbf.ft @ 2000psi)
Jaw Force	630N @ 140bar (141.63lbf @ 2000psi)
Soft Rope Cut Diameter	19mm (3/4")

Environmental	
Operational Depth	6000msw (19,680ft)
Operating Temperature	5-60°C (41-140°F)
Storage Temperature	0-70°C (32-158°F)
Humidity	0% to 100% Condensing

Saab UK - World leader in electric underwater robotics

Phone: +44 (0) 1489 898000 Web: www.saabseaeye.com Email: solutions@saabseaeye.com