Features

- 4 degrees of freedom manipulator
- Compact & lightweight @ 11.2kg (24.6lb) in water
- Lift of 40Kg at full reach
- Continuous wrist rotate and a jaw opening of 154mm (6")
- Incorporates 19mm soft rope cutter

Product Overview

The HLK-4200 manipulator is a 4 Function rate controlled manipulator making use of an HLK-25000 jaw rotate offering continuous rotation on the wrist and a jaw opening range of 154mm (6") and a softline cutting capability of 19mm (3/4") from the back side of the jaw plates.

This manipulator was specifically developed for use on observation to light duty work class vehicles to provide manipulation capabilities and is ideal for applications such as jetting and brushing operations, debris clearance, valve turning and bolt torquing, rope cutting, cable repair, biological and geological sampling, archaeological work, transponder and probe installation, salvage and recovery.
Product Specifications

General
Degrees of Freedom 4
Control Type Rate Controlled
Materials 316 Stainless Steel, 6082 Aluminium
Seal Materials Nitrile/NBR/Buna-N, PTFE
Product Finish Hard Anodised, Painted
Ports 1/8" BSPP (ISO 1179)
Dimensions Refer to Drawing
Weight in Air 13.8kg (30lb)
Weight in Water 11.2kg (24.6lb)
Maximum Reach 600mm (23.6")
Wrist Travel Continuous
Jaw Opening 154mm (6")

Hydraulic Performances
Max. Working Pressure 140bar (2000psi)
Flow 0.5lpm to 6lpm (0.13gpm to 1.58gpm)
Fluid Type Mineral: DIN 51524, ISO 11158, ISO 6743-4
Synthetic: Panolin Atlantis, HLP-Synth
Viscosity 16cSt to 220cSt. VG 22-32 Recommended
Fluid Temperature 5-60°C (41-140°F)
Cleanliness Requirements ISO 4406:19/17/14, NAS 1638:8, AS4059:9A/8B/8C

Performances
Wrist Torque 60Nm @ 140bar (44lbf.ft @ 2000psi)
Jaw force 690N @ 140bar (155lbf @ 2000psi)
Soft Rope Cutting Diameter 19mm (3/4")
Lift at Full Extension 40kg (88lb)

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