

7 function work class manipulator - HLK-40500



- 1 - Azimuth yaw
- 2 - Shoulder pitch
- 3 - Elbow pitch
- 4 - Forearm roll
- 5 - Wrist pitch
- 6 - Wrist rotate.
- 7 - Dual function gripper & cutter.



Feedback pots provide capability for manipulator positioning feedback better than 1 minute/degree without initialisation requirement.

The **HLK-40500 Manipulator** is a work class, rugged seven-function arm. It incorporates the HLK- 20100 continuous Jaw Rotate Mechanism which also has the unique 19mm diameter rope cutter. The arm incorporates a flange to facilitate port or starboard mounting configurations on the slew plate. The slew plate is designed to enable the arm to swing across the front of the vehicle and also 30° to the outside. The arm also uses the HLK-11050 (44.5mm bore) hydraulic cylinders to give **ADDITIONAL LIFTING CAPACITY**. The elbow joint incorporates a **HELICAL ROTATOR** with hollow axle shaft for hydraulic hose porting. The helical rotator has a unique advantage over vane types which inherently leak and therefore do not hold position when under load. Helical devices are non-reversible and therefore remain in a static position when a load is applied.

The arm is plumbed with the HLK-17000 series fittings. Hydro-lek provides swageable adaptors to provide connection to most industry standard equipment.

Specification

Dimensions

Length of arm	1500mm
Length of slew plate	410mm
Height (Stowed)	800mm
Width	180mm

Capacities

Rotate	360° continuous
Torque at 140 bar (across ports)	38Nm
Lift capacity at full reach at 160 bar	150Kg
Max working pressure	210 bar

Weight

Weight in air	45Kg
Weight in water	32Kg

Construction

316 SS Epoxy hard coated
HE 30 Hard anodised aluminium

Porting

To suit HLK-17000 series