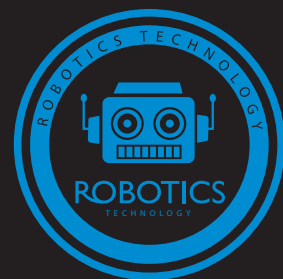


HYDRAULIC ROBOT

HYDRA-MP3



HYDRA-MP series are six DOF (degree of freedom) robot manipulators. It was designed to provide high flexibility for robot applications.

MP3 finally looks like a motor-based manipulator by virtue of its invisible hose outside of the actuators and links.

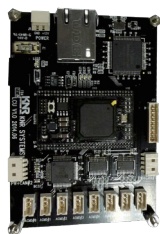
DOF	6
Payload	70 kg(at 210bar)
Actuator	Hydraulic Rotary Type
Weight	90kg
Joint Sensor	19bit absolute encoder
Servo Valve	STAR, model-700

SPECIFICATIONS

	J1	J2	J3	J4	J5	J6
Motion Range(degree)	-50 ~ 50	-105 ~ -5	-50 ~ 50	-105 ~ -5	-50 ~ 50	5 ~ 105
Actuator	RH300	RH300	RH500	RH500	RH1000	RH1000
Max. Torque(Nm)	300	300	500	500	1,000	1,000



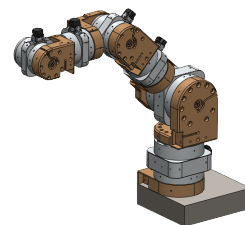
SYSTEM CONFIGURATION



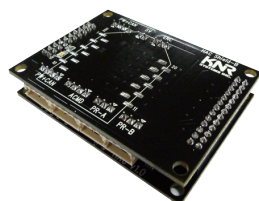
LCU (Limb Control Unit)

- Hard Realtime(1kHz)
- FK, IK Kinematics and Jacobian
- UDP/CAN Communication
- Analog signal In/Out

UDP/IP



Simulator/Interface



HAC (Hydraulic Actuator Controller)

- Hard Realtime(5kHz)
- PID, Force Control
- CAN Communication
- Analog signal Input
- PWM signal Output

Analog



Robot