



Parallel Robot

D3P-3/800-255

The standard cycle time is less than 0.45s to meet the demand for maximum speed and minimum volume.

Special rotation axis hinge design easily meet the needs of high-intensity high-frequency repetitive motion.

Widely used in the food and beverage, pharmaceutical, and healthcare industries of small materials for picking, packaging and handling.



SPECIFICATIONS

Robot Version D3P-3/800-255

Axes. 3+1

Maximum Payload 3kg

Maximum Working Diameter 800 mm

Working Height 255 mm

Rotation Angle $\pm 360^\circ$

Mounting Inverted

Manipulator Weight 88.8 kg

Angle Range of Active Arm

Upper Arm 30.2°

Lower Arm 63.6°

Repeatability

Position Repeatability ± 0.05 mm

Angular Repeatability $\pm 0.1^\circ$

Max. Load Moment of Inertia 31×10^{-4} kg.m²

Power Requirements

Supply Voltage 220V/380V/3-Phase 220V/1-Phase 49-61 HZ

Rated Power 2.35 kW

Transformer rating 6kVA

Environment Requirements

Storage Temperature $-10^\circ\text{C} \sim 70^\circ\text{C}$

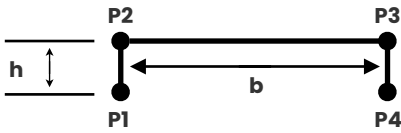
Working Temperature $-10^\circ\text{C} \sim 50^\circ\text{C}$

Humidity Range Max. 90%

Protection IP55



LOAD-FREQUENCY

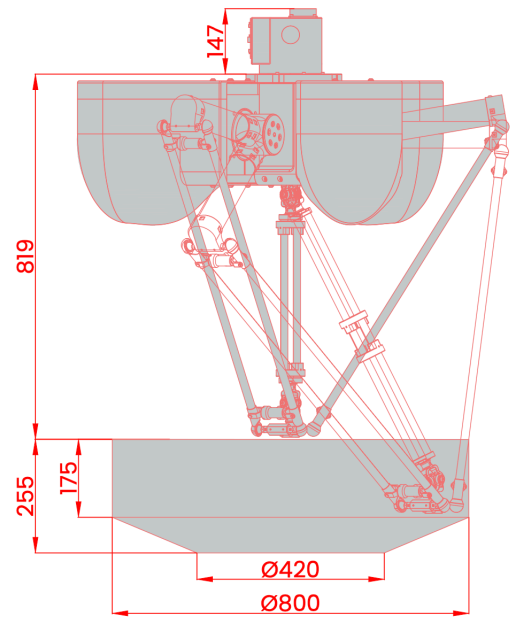


- Trajectory 1 $h=25, b=305$ P1 - P2 - P3 - P4 - P3 - P2 - P1
- Trajectory 2 $h=25, b=305$ P1 - P2 - P3 - P4 - P3 - P2 - P1
- Trajectory 3 $h=25, b=305$ P1 - P2 - P3 - P2 - P1
- Trajectory 4 $h=25, b=305$ P1 - P2 - P3 - P2 - P1

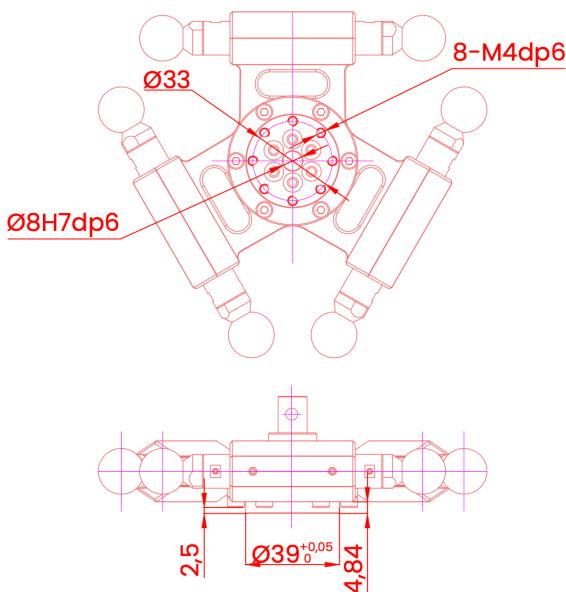
Cycles/min	0.00kg	0.50kg	1.00kg	1.50kg	2.00kg	2.50kg	3.00kg
Trajectory 1	169.00	156.00	123.50	110.50	104.00	91.00	78.00
Trajectory 2	156.00	149.50	110.50	97.50	91.00	78.00	65.00
Trajectory 3	202.80	187.20	148.20	132.60	124.80	109.20	93.60
Trajectory 4	176.28	168.94	124.87	110.18	102.83	88.14	73.45

The cycle times are measured under real conditions, but may vary depending on the actual application.

Dimensions & Range of Motion (mm)



Flange (mm)



Mounting Base (mm)

