



## Parallel Robot

# D3PM-3/800-355

The standard cycle time is less than 0.5s to meet the demand for maximum speed and economics.

Rotary servo motor is installed on moving platform to meet the requirements of high-precision rotary operation easily

Widely used in the food and beverage, pharmaceutical, electron, and healthcare industries of small workpieces for handling, sorting, measuring, assembling, inspecting, testing and other applications

## SPECIFICATIONS

Robot Version D3PM-3/800-355

Axes. 3+1

Maximum Payload 3kg

Maximum Working Diameter 800 mm

Working Height 355 mm

Rotation Angle  $\pm 360^\circ$

Mounting Inverted

Manipulator Weight 67.5 kg

Angle Range of Active Arm

Upper Arm  $42.5^\circ$

Lower Arm  $65.8^\circ$

Position Repeatability  $\pm 0.05$  mm

Angular Repeatability  $\pm 0.05^\circ$

Max. Load Moment of Inertia  $31 \times 10^{-4}$  kg.m<sup>2</sup>

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

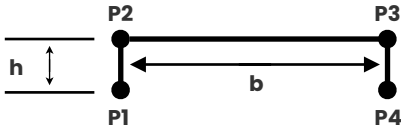
Humidity Range Max. 90%

Protection IP55





## LOAD-FREQUENCY

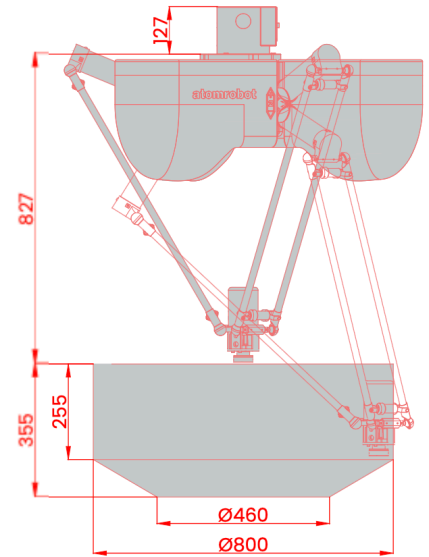


- Trajectory 1 h=25,b=305 P1 - P2 - P3 - P4 - P3 - P2 - P1  
 Trajectory 2 h=25,b=305 P1 - P2 - P3 - P4 - P3 - P2 - P1  
 Trajectory 3 h=25,b=305 P1 - P2 - P3 - P2 - P1  
 Trajectory 4 h=25,b=305 P1 - P2 - P3 - P2 - P1

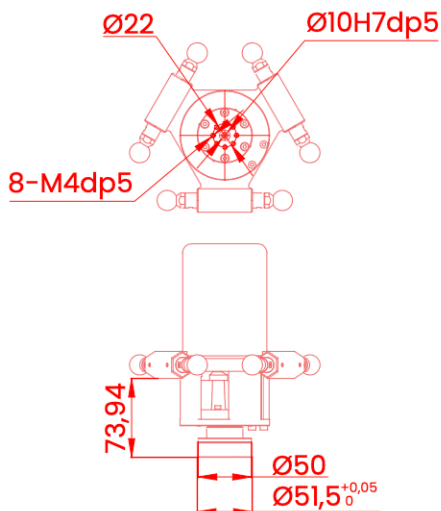
| Cycles/min   | 0.00kg | 0.50kg | 1.00kg | 1.50kg | 2.00kg | 2.50kg | 3.00kg |
|--------------|--------|--------|--------|--------|--------|--------|--------|
| Trajectory 1 | 160.55 | 148.20 | 117.33 | 104.98 | 98.80  | 86.45  | 74.10  |
| Trajectory 2 | 148.20 | 142.03 | 104.98 | 92.63  | 86.45  | 74.10  | 61.75  |
| Trajectory 3 | 192.66 | 177.84 | 140.79 | 125.97 | 118.56 | 103.74 | 88.92  |
| Trajectory 4 | 167.47 | 160.49 | 118.62 | 104.67 | 97.69  | 83.73  | 69.78  |

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)

