

并联机器人

选型手册

Parallel Robot Selection Manual

D3PMZ



● 型号和符号

机型	型号	负载	控制器类型	控制柜类型	视觉
D3PMZ	800	P3: 3KG	A1: ATOMCONTROL	E1: ATOM-01 E2: ATOM-02 E3: 定制	F0G0: 无视觉 FXGX: 有视觉
	1100				
	1300				
	1400				
	1600				

● Model and Symbol

Robot type	Type	Load Type	Control Type	Control Cabinet	Vision Type
D3PMZ	800	P3: 3KG	A1: ATOMCONTROL	E1: ATOM-01 E2: ATOM-02 E3: Custom	F0G0: Without vision FXGX: With vision
	1100				
	1300				
	1400				
	1600				

D3PMZ-800-P3



高速度
高精度
高稳定性
一体铸造

High speed
High precision
High stability
Whole body cast

◆ 标准循环时间小于0.5s,满足追求最高速度和最经济需求

The standard cycle time is less than 0.5s, meeting your pursuit for the maximum speed and economic.

◆ 采用旋转伺服电机下置设计，轻松满足高精度旋转作业需求

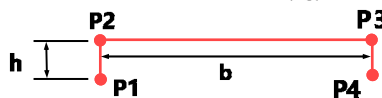
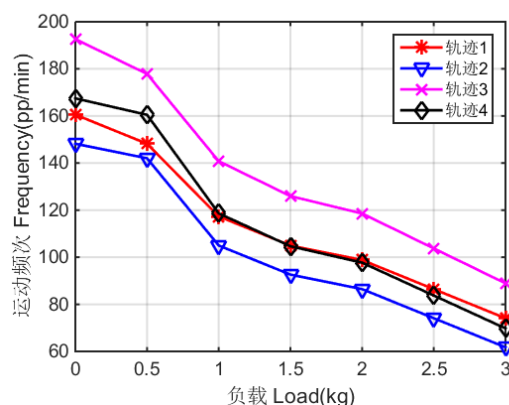
Advanced design of the rotational motor on moving platform, enables the robot to be easily achieve high rotation precision.

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型号 Type		D3PMZ-800-P3
轴数 Axes		3+1
最大负载 Payload		3kg
机器人本体 Manipulator	重量 Weight	67.5kg
	工作空间直径 Diameter	800mm
重复定位精度 repeatability	位置 Position	0.05mm
	旋转 Rotation	0.05°
旋转范围 Rotation range		±360°
允许负载最大旋转惯量 Allowable maximum moment of inertia		0.16kg·m ²
主动臂角度范围 Angle range of actuated arm	上摆 Up	42.5°
	下摆 Down	65.8°
输入电源 Power supply		三相 Three-phase 380VAC -10%~+10%, 49~61HZ
电源容量 Power capacity		6KVA
额定功率 Rated Power		2.35kw
保存温度 Storage temperature		-10°C~70°C
工作环境 Work environment		-10°C~50°C, RH≤80%
防护等级 Protection		IP55

● 负载-频次 Load-Frequency

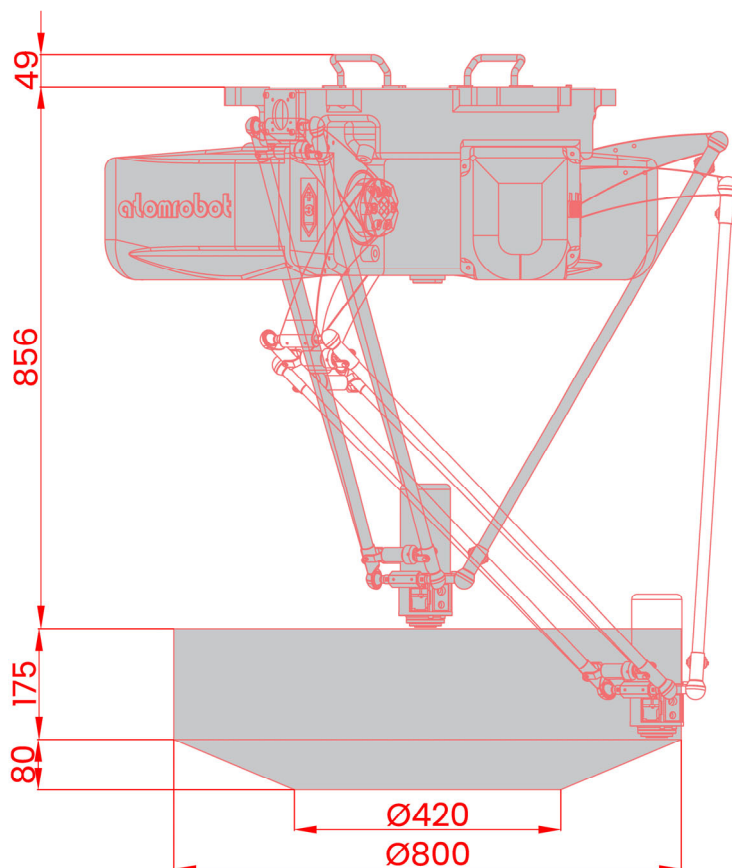


名称 Name	循环模式 Model	运动距离 Distance
轨迹1 Trajectory1	P1→P2→P3→P4→P3→P2→P1	h=25, b=305
轨迹2 Trajectory2	P1→P2→P3→P4→P3→P2→P1	h=25, b=500
轨迹3 Trajectory3	P1→P2→P3→P2→P1	h=25, b=305
轨迹4 Trajectory4	P1→P2→P3→P2→P1	h=25, b=500

特别注意：图中节拍时间在实际条件下测得，但根据实际运用情况的不同（工具数据、路径半径、夹具启动等），节拍时间也会发生变化。

外形尺寸及运动范围

Outline dimensions and Working range (mm)



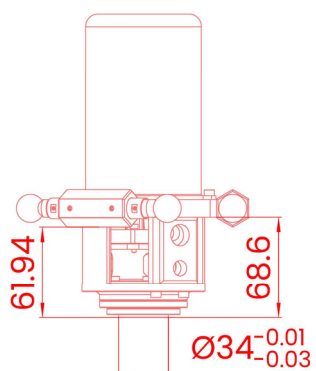
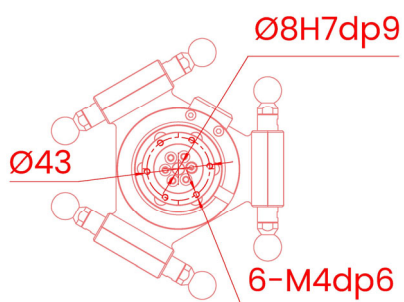
说明:

图示下部加深部分为机器人末端下表面几何中心的运动范围，上部为圆柱空间，并在下部向内收敛。

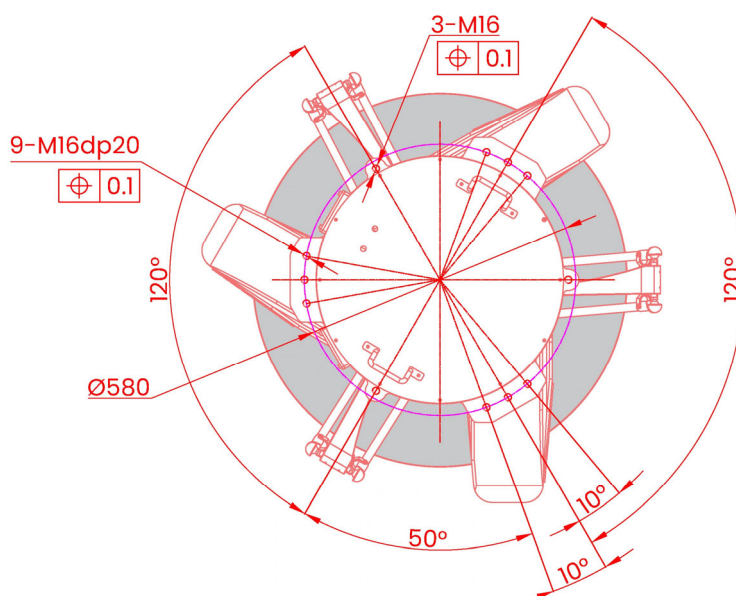
Instruction:

The bottom gray part is the workplace of bottom surface's center point of the end, which is composed of a cylinder at the top and a circular truncated cone at the bottom.

法兰 Flange (mm)



基座安装 Base installation (mm)



D3PMZ-1100-P3



高速度
高精度
高稳定性
一体铸造

High speed
High precision
High stability
Whole body cast

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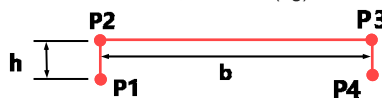
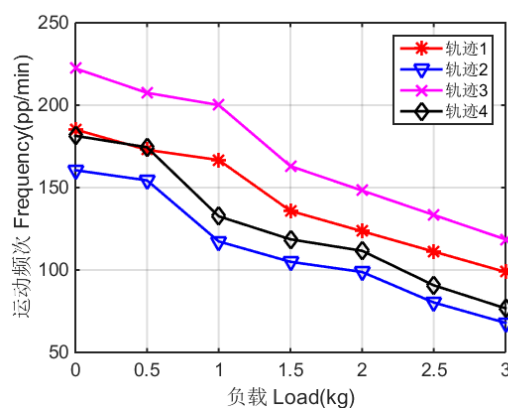
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型号 Type		D3PMZ-1100-P3
轴数 Axes		3+1
最大负载 Payload		3kg
机器人本体 Manipulator	重量 Weight	85kg
	工作空间直径 Diameter	1100mm
重复定位精度 repeatability	位置 Position	0.05mm
	旋转 Rotation	0.05°
旋转范围 Rotation range		±360°
允许负载最大旋转惯量 Allowable maximum moment of inertia		0.16kg·m ²
主动臂角度范围 Angle range of actuated arm	上摆 Up	32.5°
	下摆 Down	68.5°
输入电源 Power supply		三相 Three-phase 380VAC -10%~+10%, 49~61HZ
电源容量 Power capacity		10KVA
额定功率 Rated Power		6.1kw
保存温度 Storage temperature		-10°C~70°C
工作环境 Work environment		-10°C~50°C, RH≤80%
防护等级 Protection		IP55

● 负载-频次 Load-Frequency

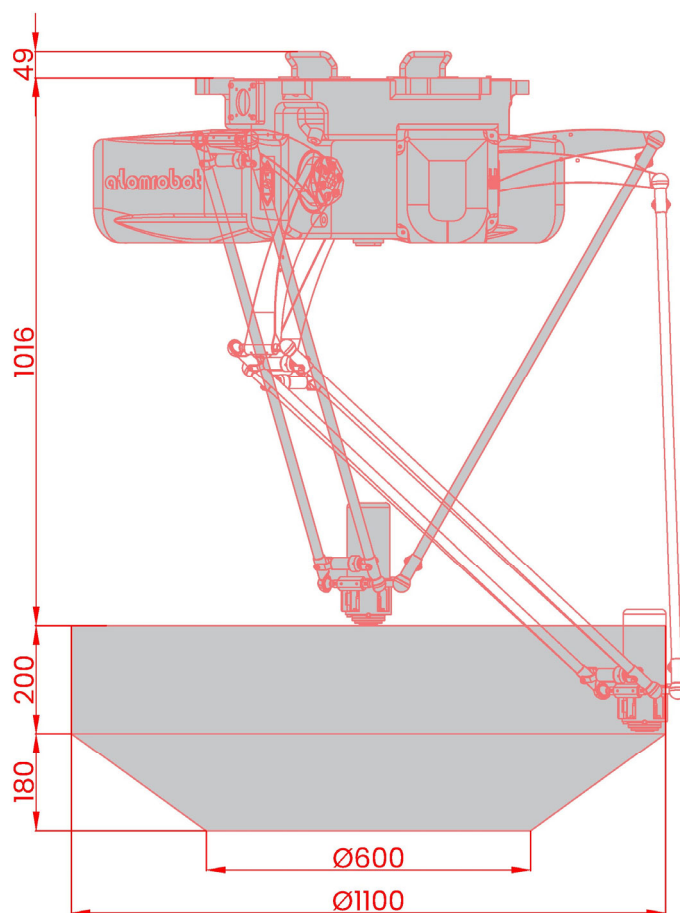


名称 Name	循环模式 Model	运动距离 Distance
轨迹1 Trajectory1	P1→P2→P3→P4→P3→P2→P1	h=25, b=305
轨迹2 Trajectory2	P1→P2→P3→P4→P3→P2→P1	h=25, b=500
轨迹3 Trajectory3	P1→P2→P3→P2→P1	h=25, b=305
轨迹4 Trajectory4	P1→P2→P3→P2→P1	h=25, b=500

特别注意: 图中节拍时间在实际条件下测得, 但根据实际运用情况的不同 (工具数据、路径半径、夹具启动等), 节拍时间也会发生变化。

外形尺寸及运动范围

Outline dimensions and Working range (mm)



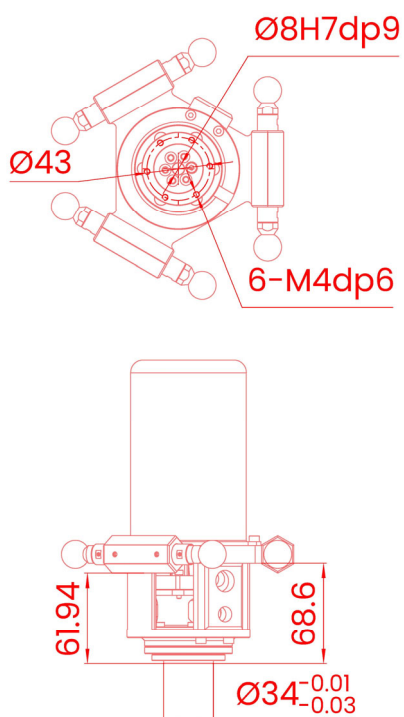
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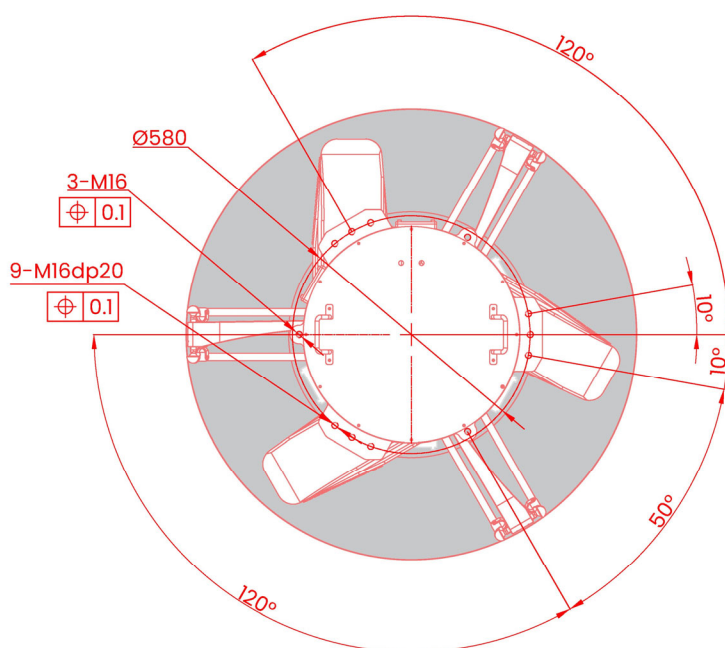
Instruction:

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法兰 Flange (mm)



基座安装 Base installation (mm)



D3PMZ-1300-P3



高速度
高稳定性
大空间
经济实用

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High stability
Large space
Economic & Practi-

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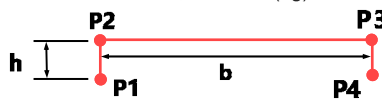
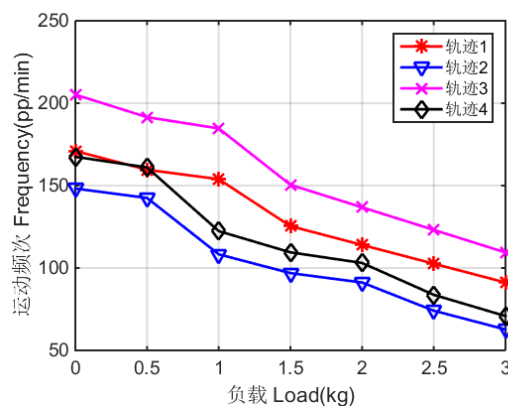
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型号 Type		D3PMZ-1300-P3
轴数 Axes		3+1
最大负载 Payload		3kg
机器人本体 Manipulator	重量 Weight	87.5kg
	工作空间直径 Diameter	1300mm
重复定位精度 repeatability	位置 Position	0.05mm
	旋转 Rotation	0.05°
旋转范围 Rotation range		±360°
允许负载最大旋转惯量 Allowable maximum moment of inertia		0.16kg·m ²
主动臂角度范围 Angle range of actuated arm	上摆 Up	31.5°
	下摆 Down	74°
输入电源 Power supply		三相 Three-phase 380VAC -10%~+10%, 49~61HZ
电源容量 Power capacity		10KVA
额定功率 Rated Power		6.1kw
保存温度 Storage temperature		-10°C~70°C
工作环境 Work environment		-10°C~50°C, RH≤80%
防护等级 Protection		IP55

● 负载-频次 Load-Frequency

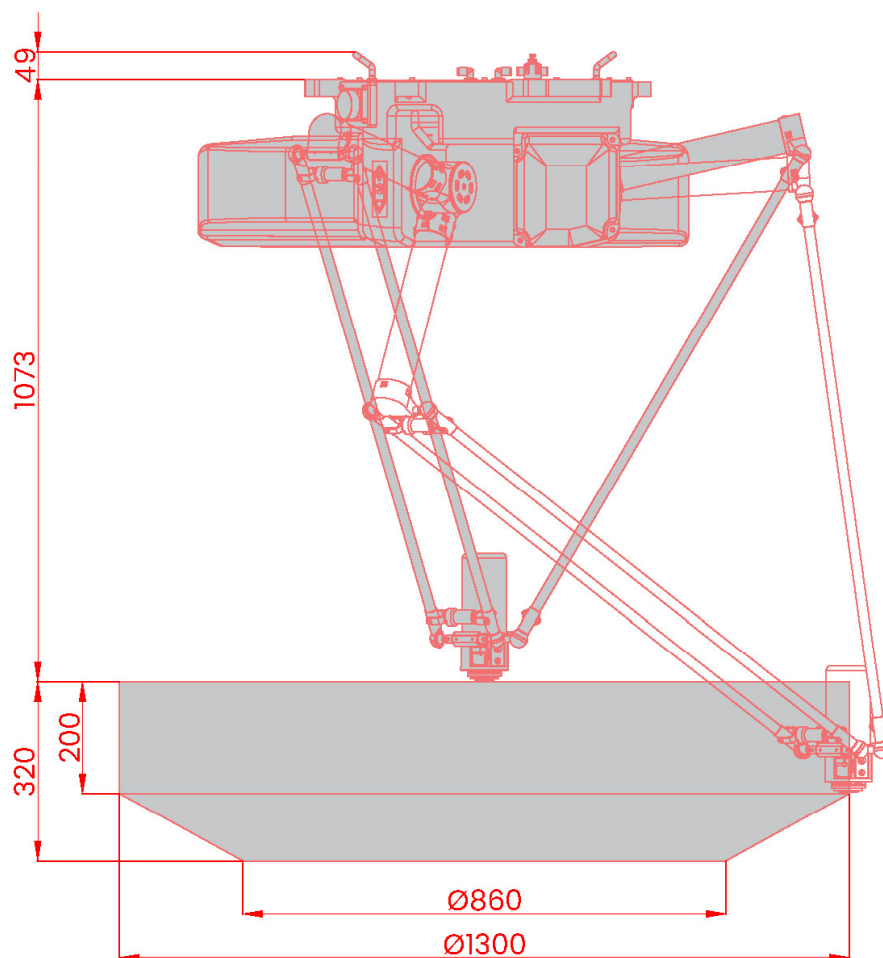


名称 Name	循环模式 Model	运动距离 Distance
轨迹1 Trajectory1	P1→P2→P3→P4→P3→P2→P1	h=25, b=305
轨迹2 Trajectory2	P1→P2→P3→P4→P3→P2→P1	h=25, b=500
轨迹3 Trajectory3	P1→P2→P3→P2→P1	h=25, b=305
轨迹4 Trajectory4	P1→P2→P3→P2→P1	h=25, b=500

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外形尺寸及运动范围

Outline dimensions and Working range (mm)



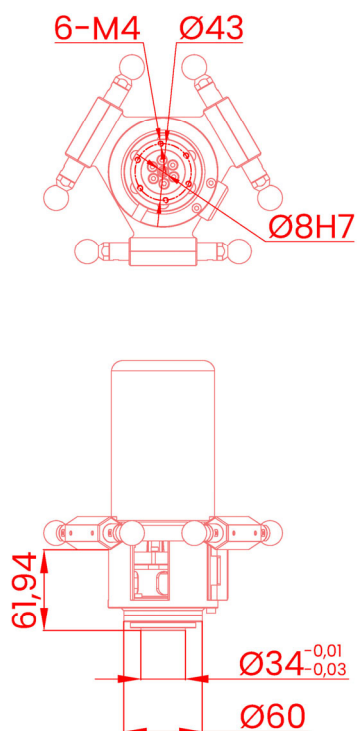
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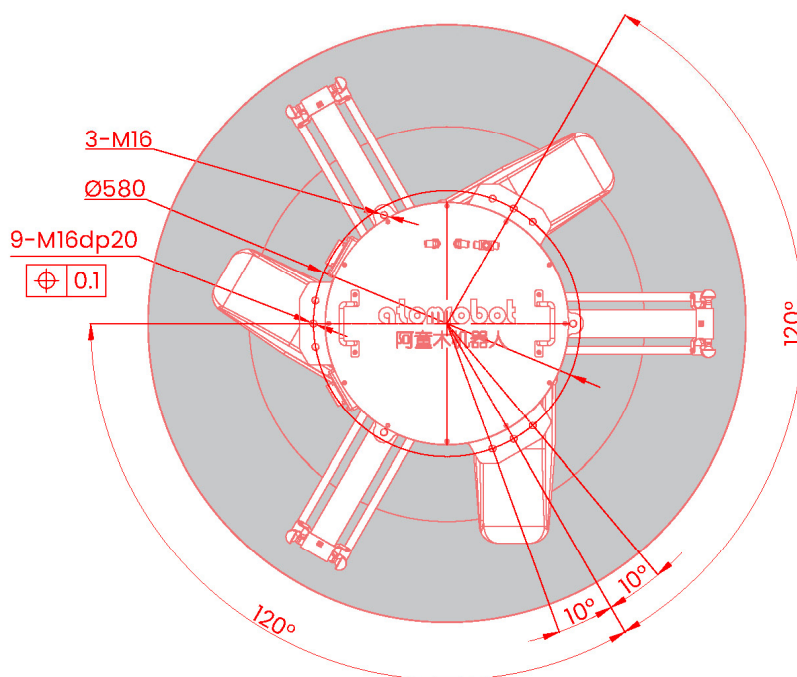
Instruction:

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法兰 Flange (mm)



基座安装 Base installation (mm)



D3PMZ-1400-P3



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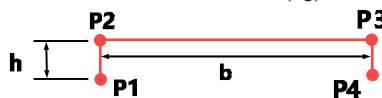
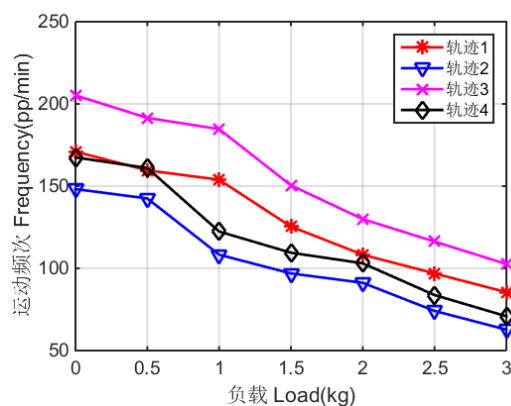
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型号 Type		D3PMZ-1400-P3
轴数 Axes		3+1
最大负载 Payload		3kg
机器人本体 Manipulator	重量 Weight	89.5kg
	工作空间直径 Diameter	1400mm
重复定位精度 repeatability	位置 Position	0.05mm
	旋转 Rotation	0.05°
旋转范围 Rotation range		±360°
允许负载最大旋转惯量 Allowable maximum moment of inertia		0.16kg·m ²
主动臂角度范围 Angle range of actuated arm	上摆 Up	22°
	下摆 Down	76°
输入电源 Power supply		三相 Three-phase 380VAC -10%~+10%, 49~61HZ
电源容量 Power capacity		10KVA
额定功率 Rated Power		6.1kw
保存温度 Storage temperature		-10°C~70°C
工作环境 Work environment		-10°C~50°C, RH≤80%
防护等级 Protection		IP55

● 负载-频次 Load-Frequency

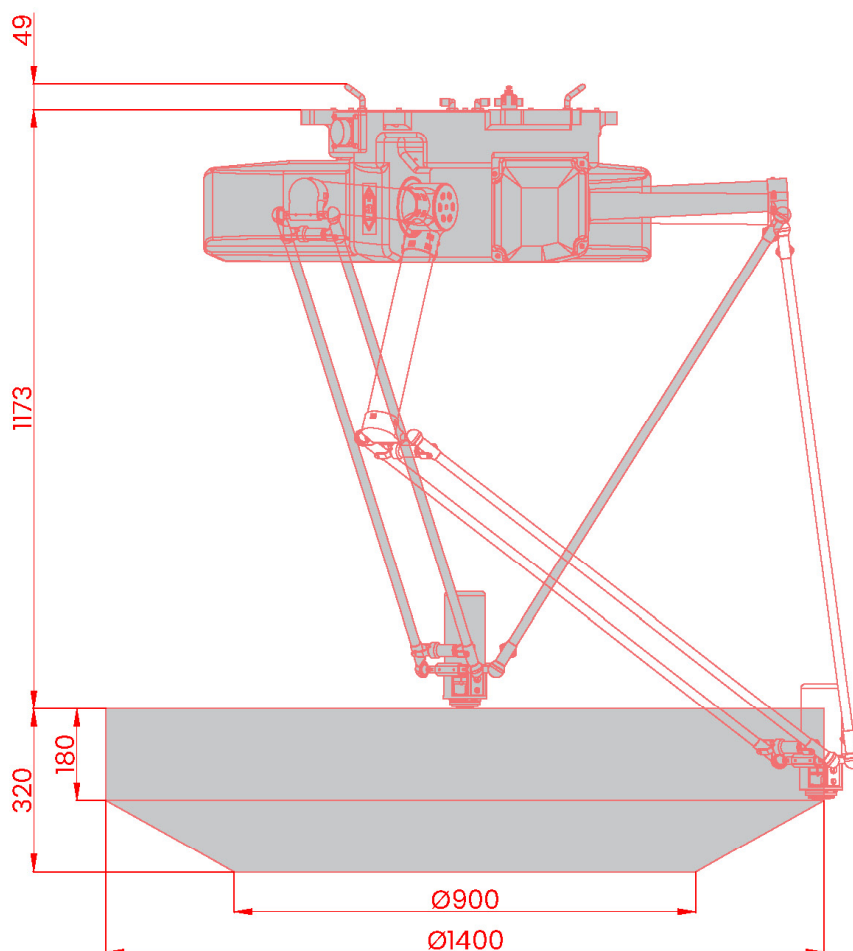


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轨迹1 Trajectory1	P1→P2→P3→P4→P3→P2→P1	h=25, b=305
轨迹2 Trajectory2	P1→P2→P3→P4→P3→P2→P1	h=25, b=500
轨迹3 Trajectory3	P1→P2→P3→P2→P1	h=25, b=305
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外形尺寸及运动范围

Outline dimensions and Working range (mm)



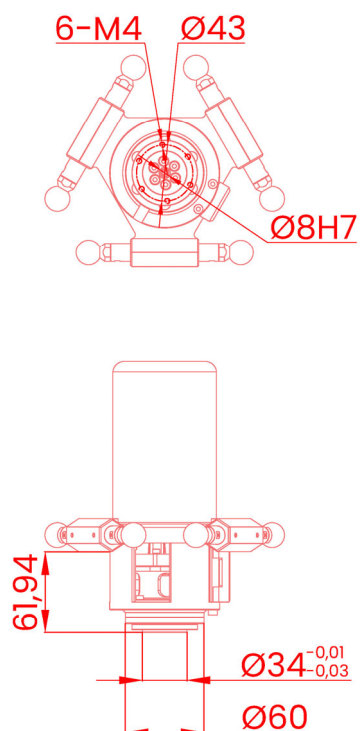
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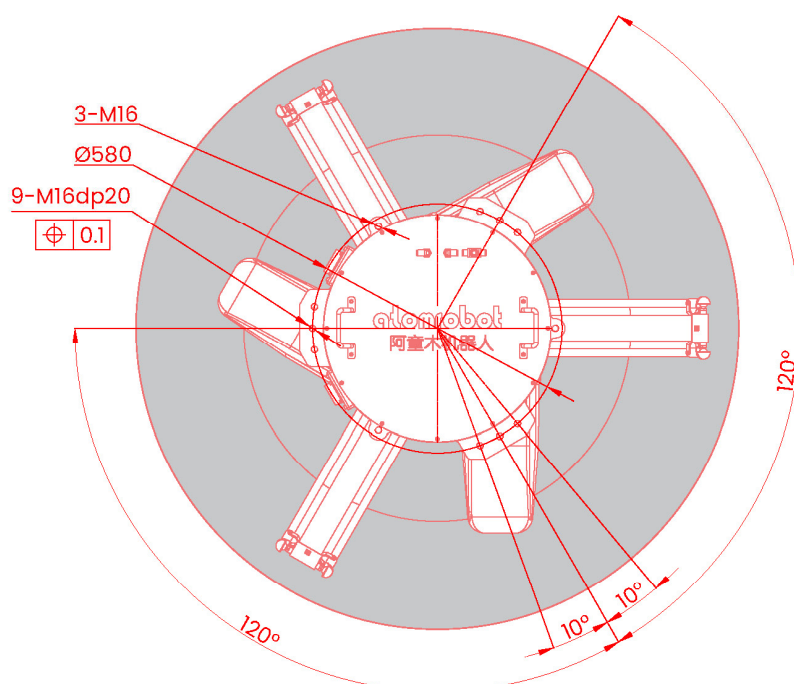
Instruction:

The bottom gray part is the work-place of moving platform which is composed of a cylinder at the top and a circular truncated cone at the bottom.

法兰 Flange (mm)



基座安装 Base installation (mm)



D3PMZ-1600-P3



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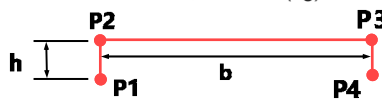
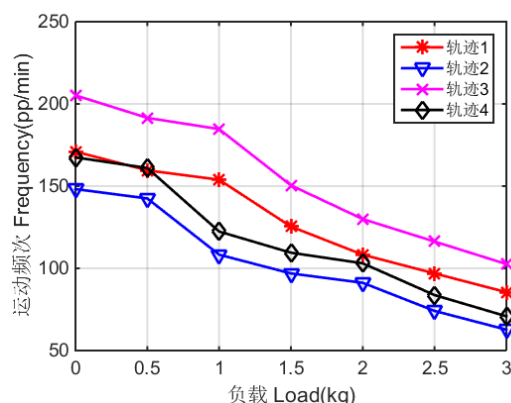
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型号 Type		D3PMZ-1600-P3
轴数 Axes		3+1
最大负载 Payload		3kg
机器人本体 Manipulator	重量 Weight	92.7kg
	工作空间直径 Diameter	1600mm
重复定位精度 repeatability	位置 Position	0.05mm
	旋转 Rotation	0.05°
旋转范围 Rotation range		±360°
允许负载最大旋转惯量 Allowable maximum moment of inertia		0.16kg·m ²
主动臂角度范围 Angle range of actuated arm	上摆 Up	22°
	下摆 Down	76°
输入电源 Power supply		三相 Three-phase 380VAC -10%~+10%, 49~61HZ
电源容量 Power capacity		10KVA
额定功率 Rated Power		6.1kw
保存温度 Storage temperature		-10°C~70°C
工作环境 Work environment		-10°C~50°C, RH≤80%
防护等级 Protection		IP55

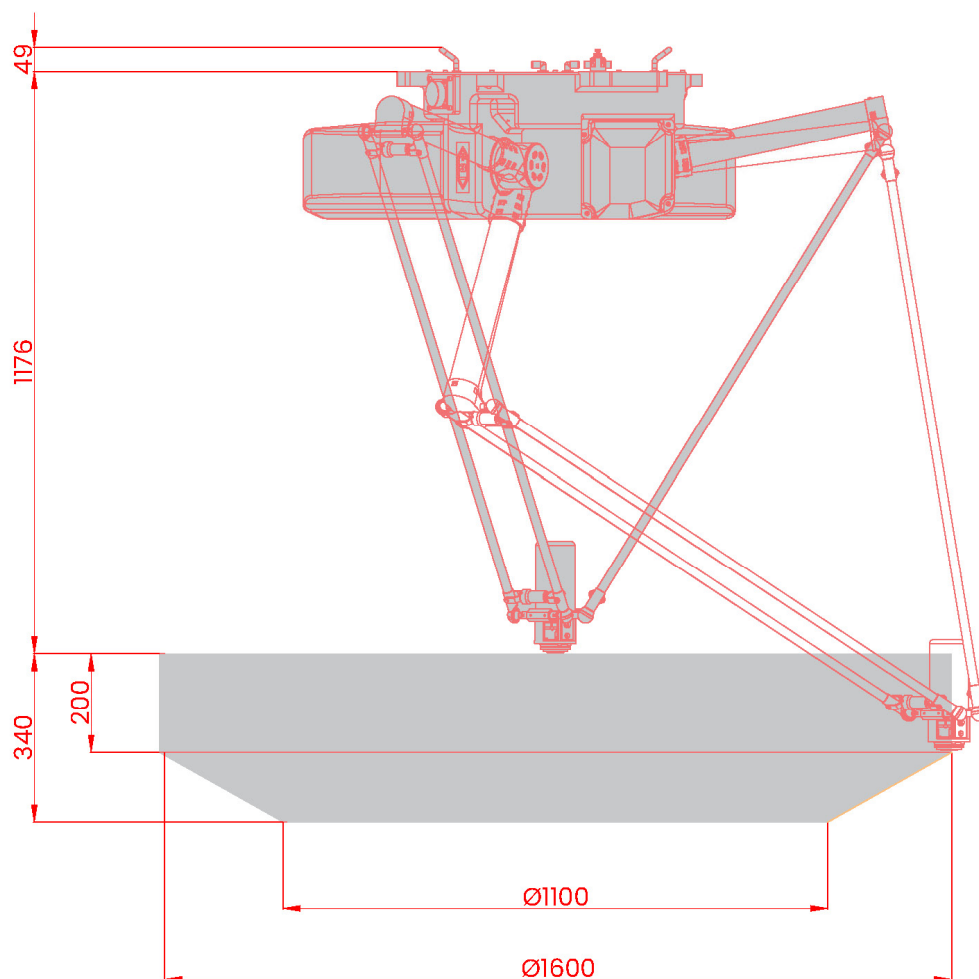
● 负载-频次 Load-Frequency



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轨迹3 Trajectory3	P1→P2→P3→P2→P1	h=25, b=305
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外形尺寸及运动范围 Outline dimensions and Working range (mm)



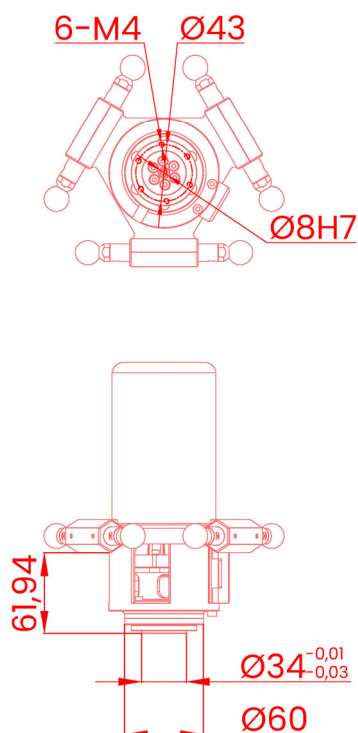
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法兰 Flange (mm)



基座安装 Base installation (mm)

