

并联机器人

选型手册

Parallel Robot Selection Manual

D2



• 型号和符号

D2	1000	P5	A1	E1	FXGX
机型	型号	负载	控制器类型	控制柜类型	视觉
D2 DD2	1000	P5: 5KG P15: 15KG P35: 35KG P50: 50KG	A1: ATOMCONTROL	E1: ATOM-01 E2: ATOM-02 E3: 定制	F0G0: 无视觉 FXGX: 有视觉
	1200		A2: KEBA CONTROL		
	1300				

• Model and Symbol

D2

1000

P5

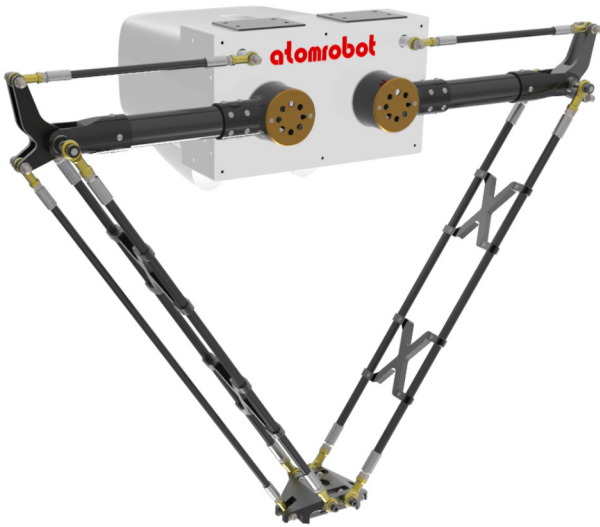
A1

E1

FXGX

Robot type	Type	Load Type	Control Type	Control Cabinet	Vision Type
D2 DD2	1000	P5: 5KG P15: 15KG P35: 35KG P50: 50KG	A1: ATOMCONTROL	E1: ATOM-01 E2: ATOM-02 E3: Custom	F0G0: Without vision FXGX: With vision
	1200		A2: KEBA CONTROL		
	1300				

D2-1000-P5



高速度
高精度
高稳定性
低成本

High speed
High precision
High stability
Low cost

- ◆ 标准循环时间小于0.4s,满足追求最高速度和低成本需求

The standard cycle time is less than 0.4s, meeting your pursuit for the maximum speed and the lower cost.

- ◆ 特殊的平面并联机构设计, 低成本实现平面高速运动

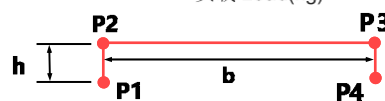
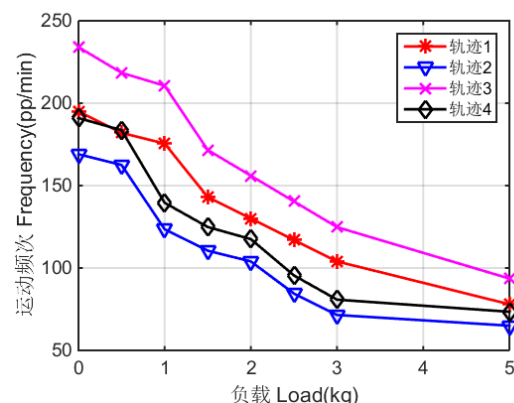
Advanced design of planar parallel mechanism, make the robot get high speed movement at low cost.

- ◆ 非常适于食品、医药等行业的高速生产作业, 主要用于小型物料的装配、搬运、分拣等

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型号 Type		D2-1000-P5
轴数 Axes		2
最大负载 Payload		5kg
机器人本体 Manipulator	重量 Weight	55kg
	工作空间宽度 Diameter	1000mm
重复定位精度 repeatability	位置 Position	0.05mm
	旋转 Rotation	—
旋转范围 Rotation range		—
允许负载最大旋转惯量 Allowable maximum moment of inertia		—
主动臂角度范围 Angle range of actuated arm	上摆 Up	34°
	下摆 Down	75°
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		4kw
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

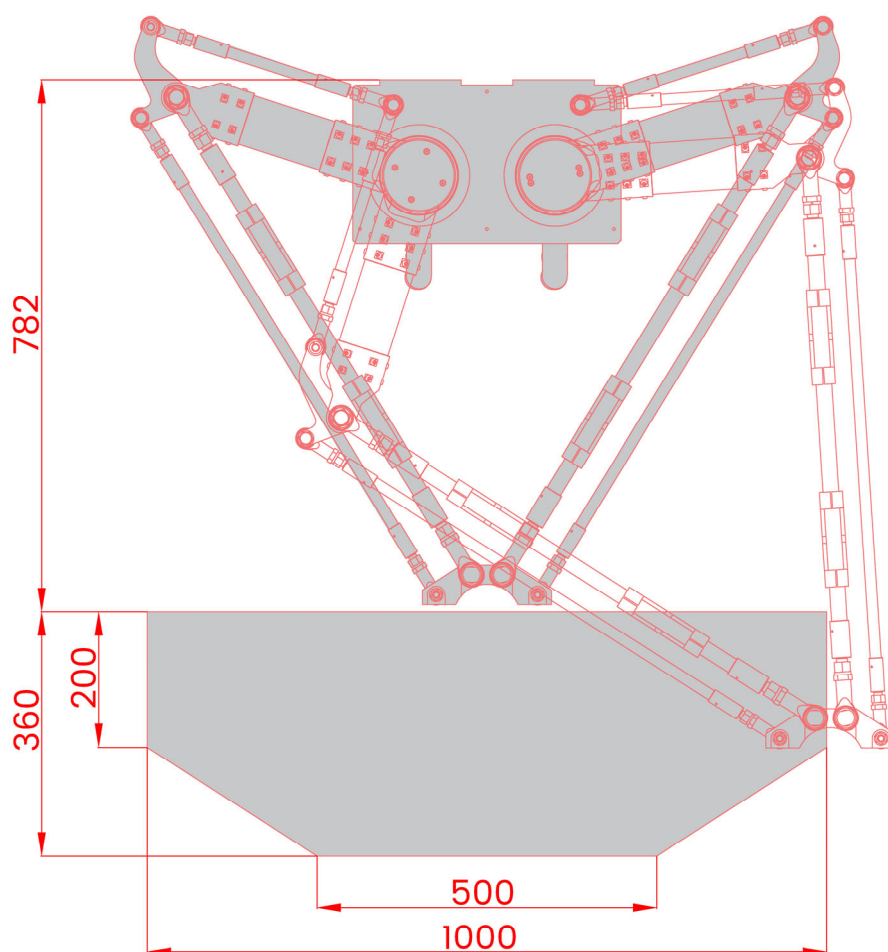
● 负载-频次 Load-Frequency



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)



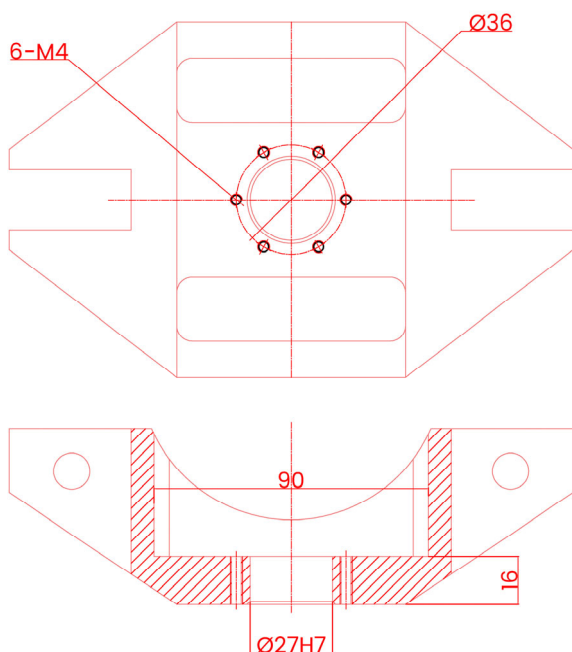
说明:

图示下部加深部分为机器人动平台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。

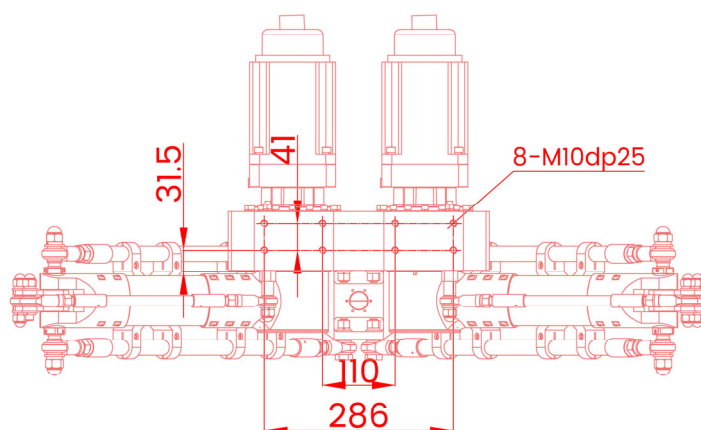
Instruction:

The bottom gray part is the workplace of the center point of bottom surface 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)



D2-1000-P15



大负载
高精度
高稳定性
低成本

High load
High precision
High stability
Low cost

- ◆ 标准循环时间小于0.66s,满足追求最高速度和大负载需求

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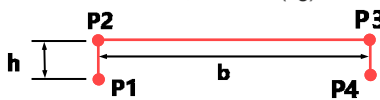
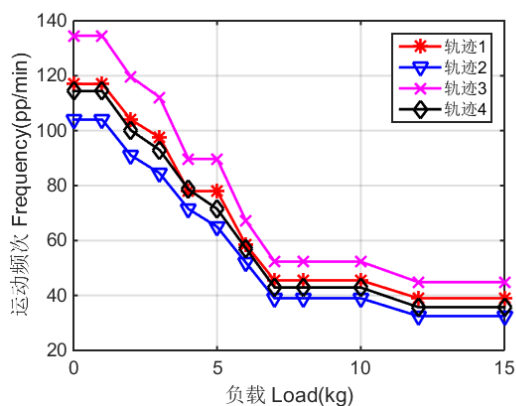
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型号 Type		D2-1000-P15
轴数 Axes		2
最大负载 Payload		15kg
机器人本体 Manipulator	重量 Weight	60kg
	工作空间宽度 Diameter	1000mm
重复定位精度 repeatability	位置 Position	0.05mm
	旋转 Rotation	—
旋转范围 Rotation range		—
允许负载最大旋转惯量 Allowable maximum moment of inertia		—
主动臂角度范围 Angle range of actuated arm	上摆 Up	25°
	下摆 Down	77°
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		4kw
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

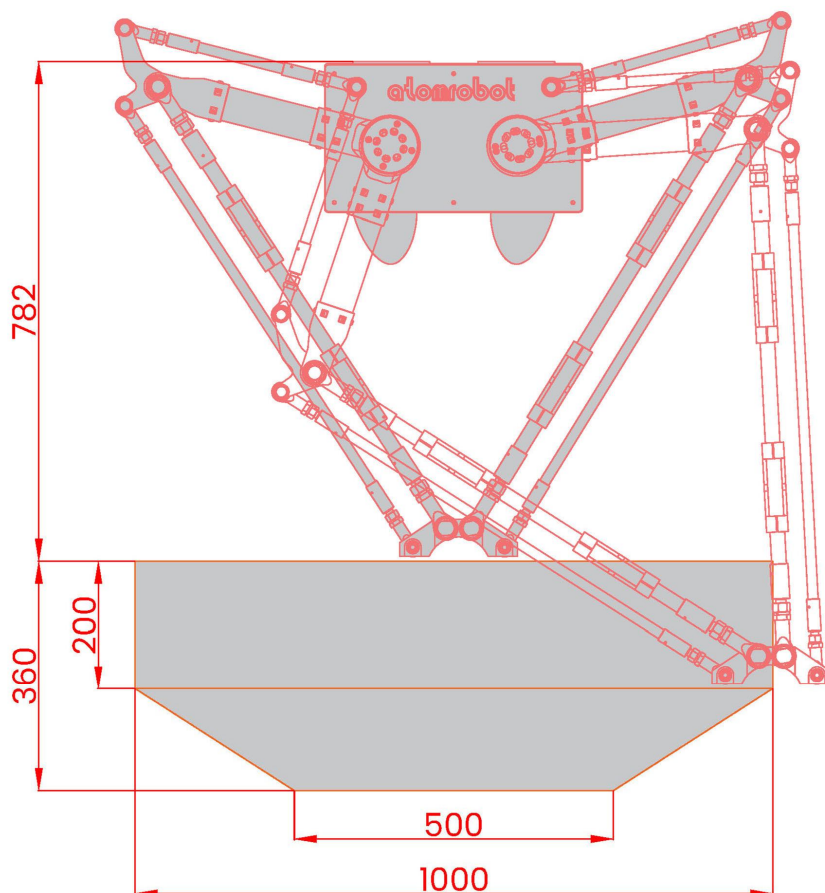
● 负载-频次 Load-Frequency



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)



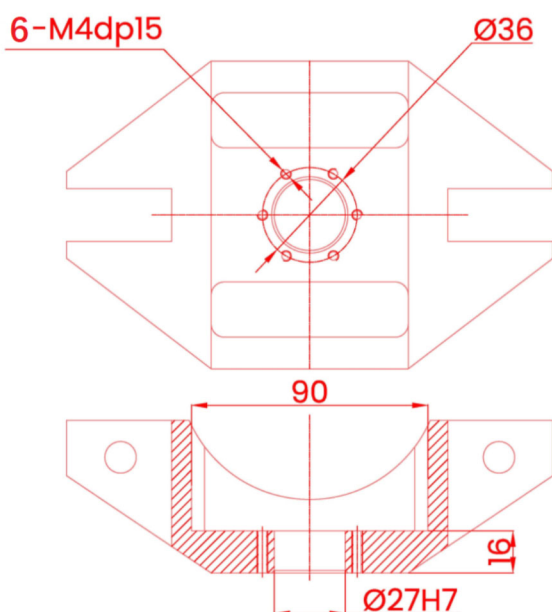
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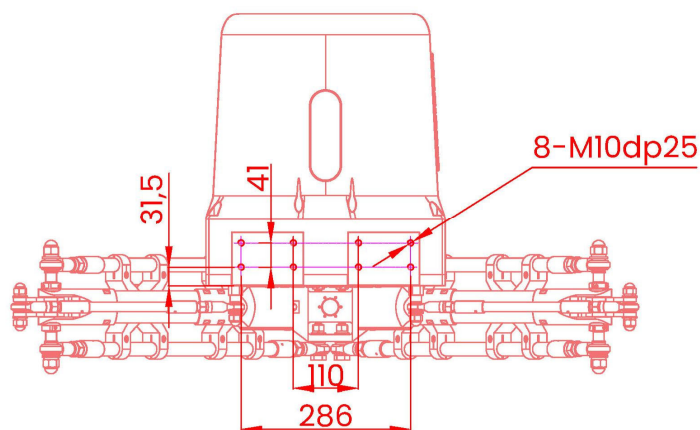
Instruction:

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法兰 Flange (mm)



基座安装 Base installation (mm)



D2-1300-P15



大负载
高精度
高稳定性
低成本

High load
High precision
High stability
Low cost

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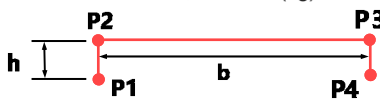
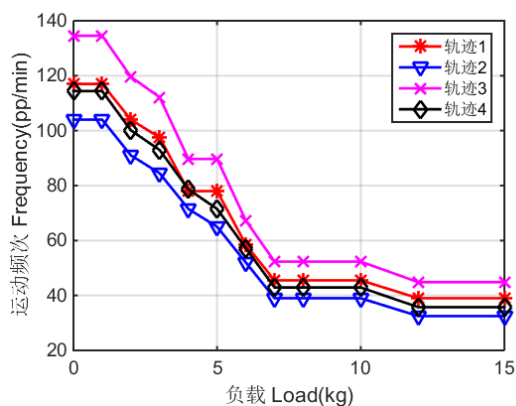
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型号 Type		D2-1300-P15
轴数 Axes		2
最大负载 Payload		15kg
机器人本体 Manipulator	重量 Weight	60kg
	工作空间宽度 Diameter	1300mm
重复定位精度 repeatability	位置 Position	0.05mm
	旋转 Rotation	—
旋转范围 Rotation range		—
允许负载最大旋转惯量 Allowable maximum moment of inertia		—
主动臂角度范围 Angle range of actuated arm	上摆 Up	25°
	下摆 Down	77°
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		4kw
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

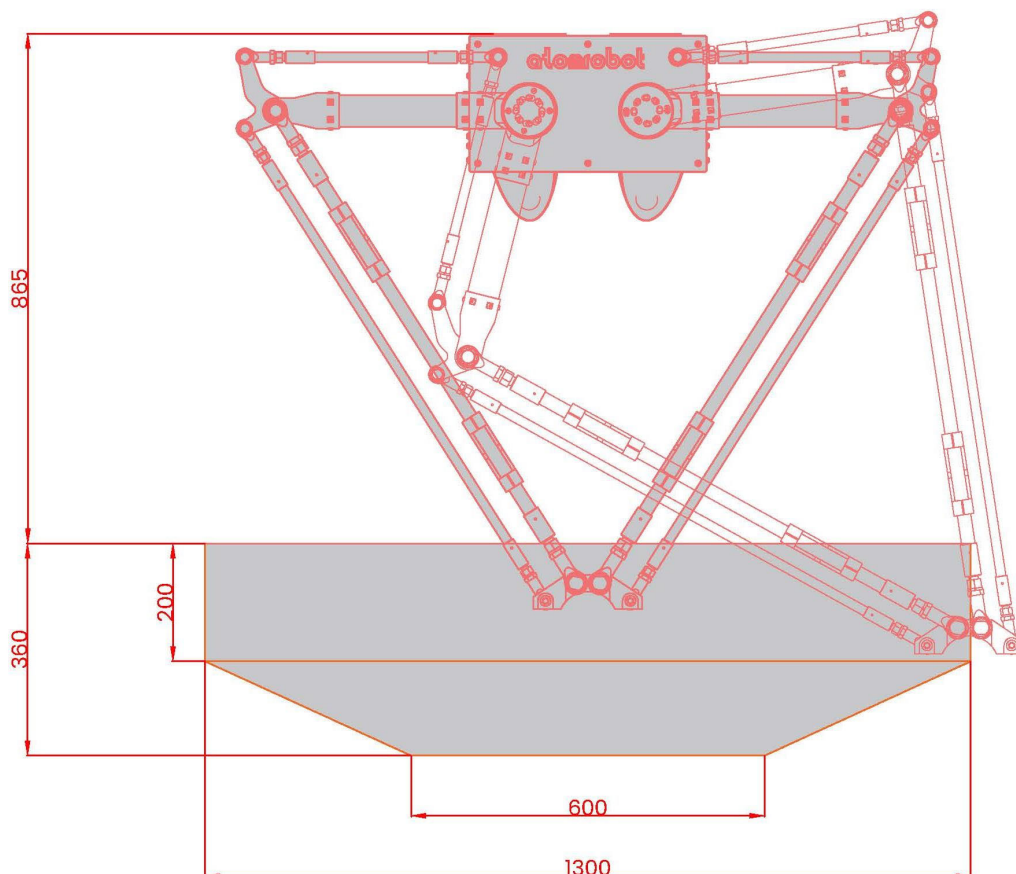
● 负载-频次 Load-Frequency



名称 Name	循环模式 Model	运动距离 Distance
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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)



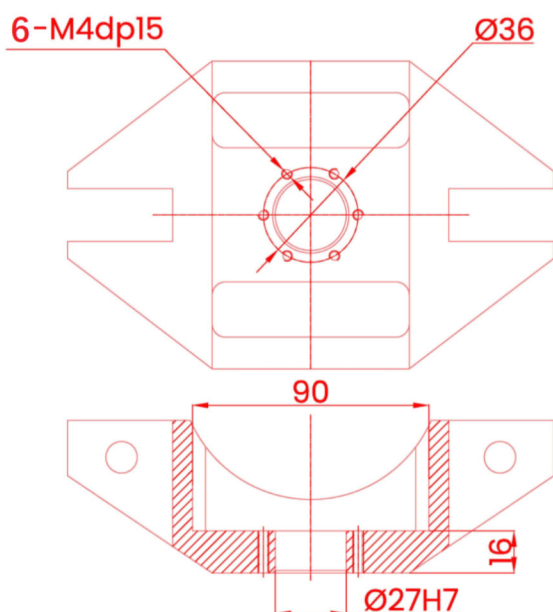
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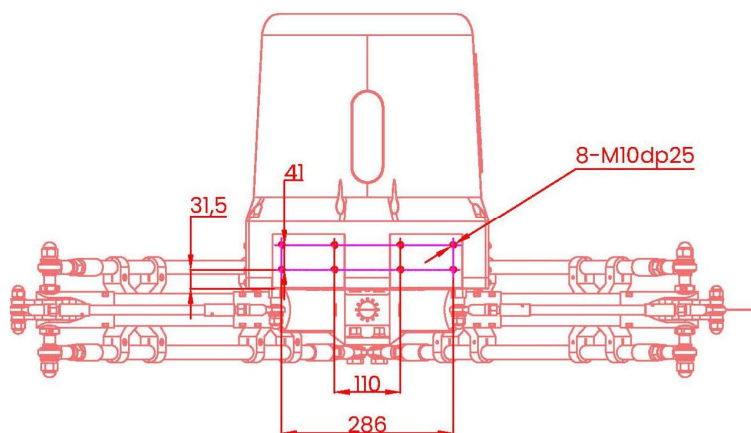
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The bottom gray part is the work-place of the center point of bottom surface of moving platform, which is composed of a cylinder at the top and a circular truncated cone at the bottom.

法兰 Flange (mm)



基座安装 Base installation (mm)



DD2-1000-P35



超大负载
高精度
高稳定性
低成本

Super-high load
High precision
High stability
Low cost

- ◆ 标准循环时间小于0.75s,满足追求最高速度和最重负载需求

The standard cycle time is less than 0.75s, meeting your pursuit for the maximum speed and the maximum load.

- ◆ 特殊的双平面并联机构设计, 低成本实现平面高速运动

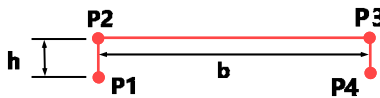
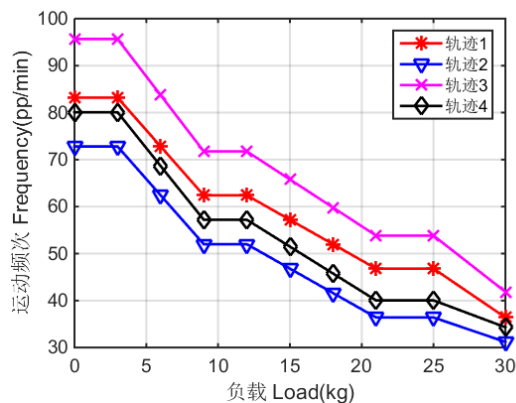
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型号 Type		DD2-1000-P35
轴数 Axes		2
最大负载 Payload		35kg
机器人本体 Manipulator	重量 Weight	170kg
	工作空间直径 Diameter	1000mm
重复定位精度 repeatability	位置 Position	0.05mm
	旋转 Rotation	—
旋转范围 Rotation range		—
允许负载最大旋转惯量 Allowable maximum moment of inertia		—
主动臂角度范围 Angle range of actuated arm	上摆 Up	25°
	下摆 Down	77°
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		4kw
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

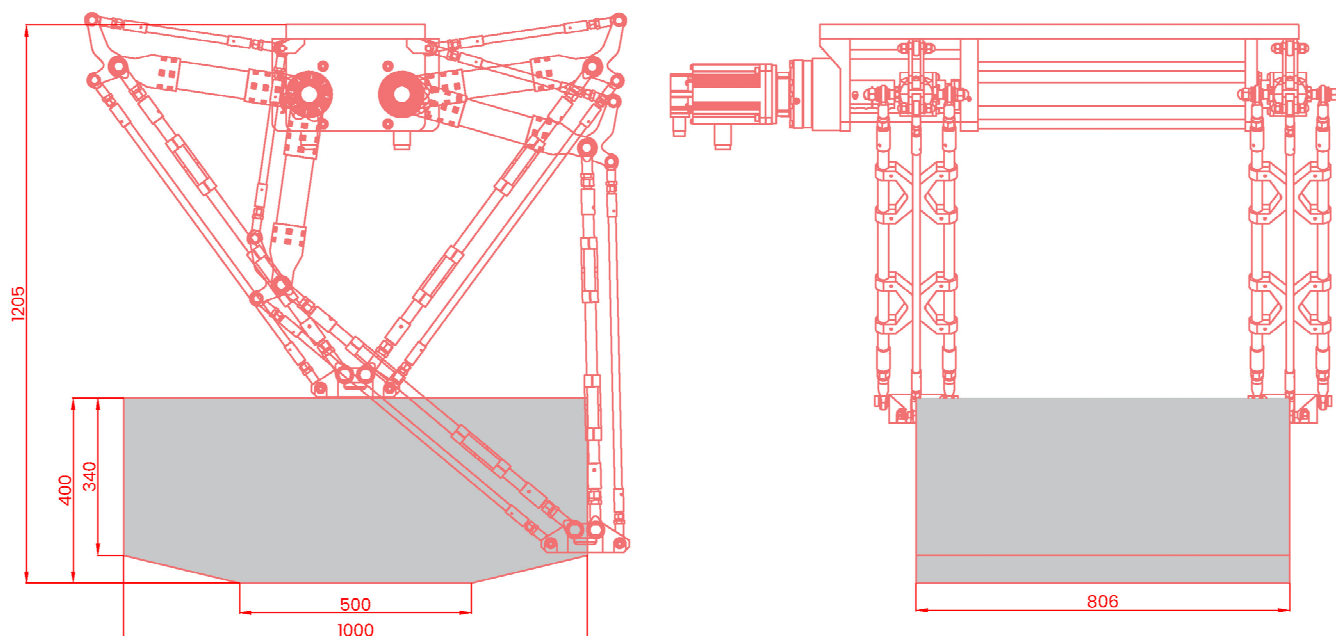
● 负载-频次 Load-Frequency



名称 Name	循环模式 Model	运动距离 Distance
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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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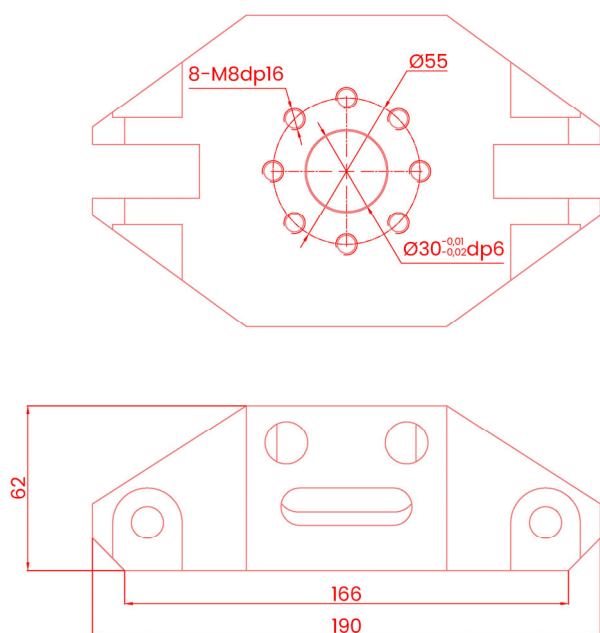
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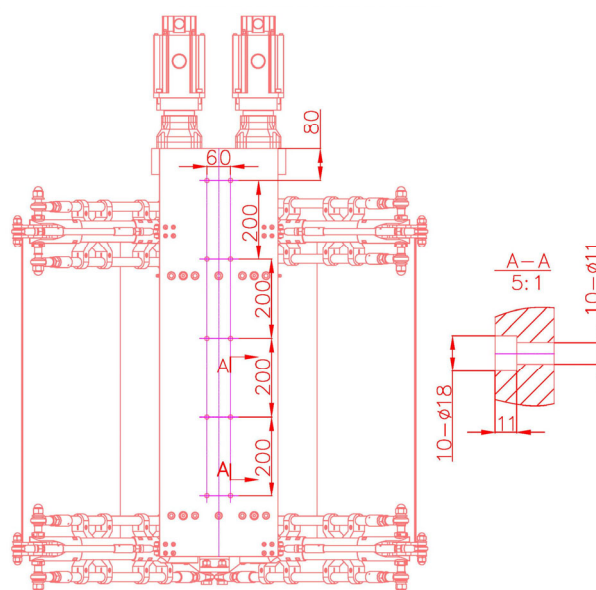
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法兰 Flange (mm)



基座安装 Base installation (mm)



DD2-1200-P50



超大负载
高精度
高稳定性
低成本

Super-high load
High precision
High stability
Low cost

- ◆ 标准循环时间小于0.75s,满足追求最高速度和最重负载需求

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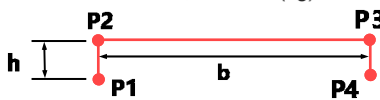
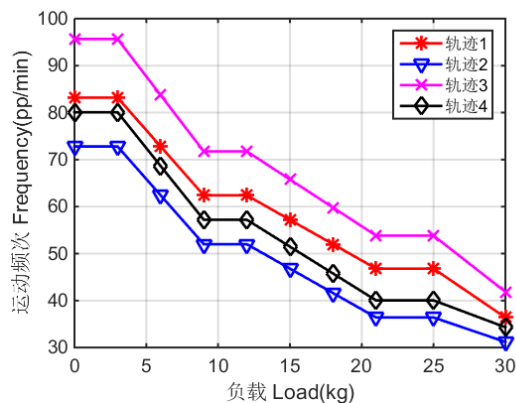
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型号 Type		DD2-1200-P50
轴数 Axes		2
最大负载 Payload		50kg
机器人本体 Manipulator	重量 Weight	230kg
	工作空间直径 Diameter	1200mm
重复定位精度 repeatability	位置 Position	0.05mm
	旋转 Rotation	—
旋转范围 Rotation range		—
允许负载最大旋转惯量 Allowable maximum moment of inertia		—
主动臂角度范围 Angle range of actuated arm	上摆 Up	25°
	下摆 Down	77°
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		4kw
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

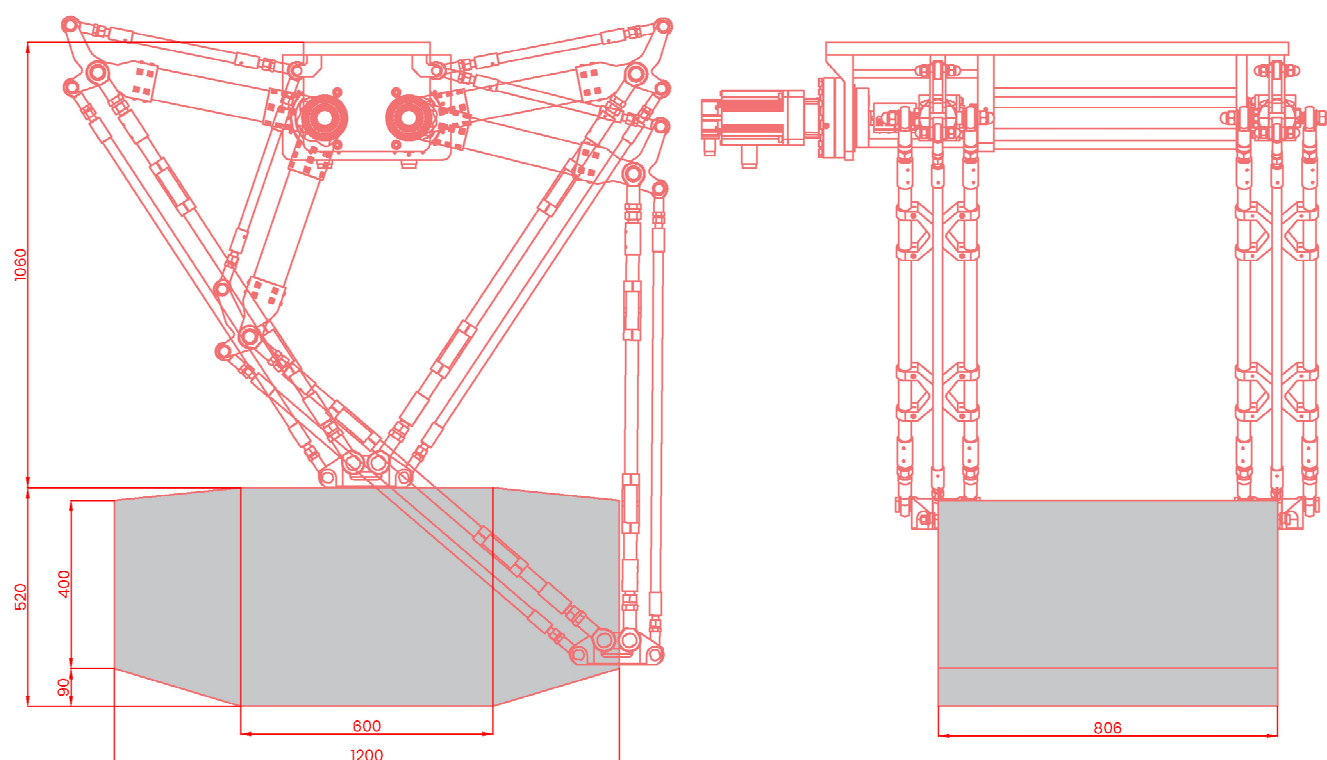
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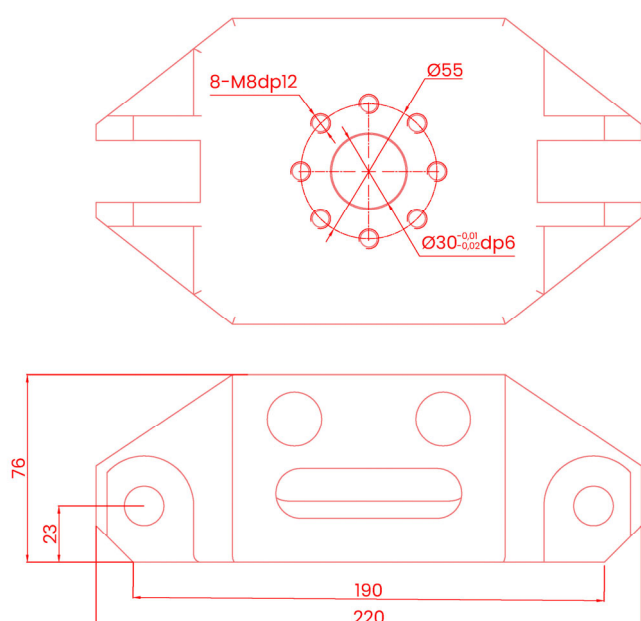
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法兰 Flange (mm)



底座安装 Base installation (mm)

