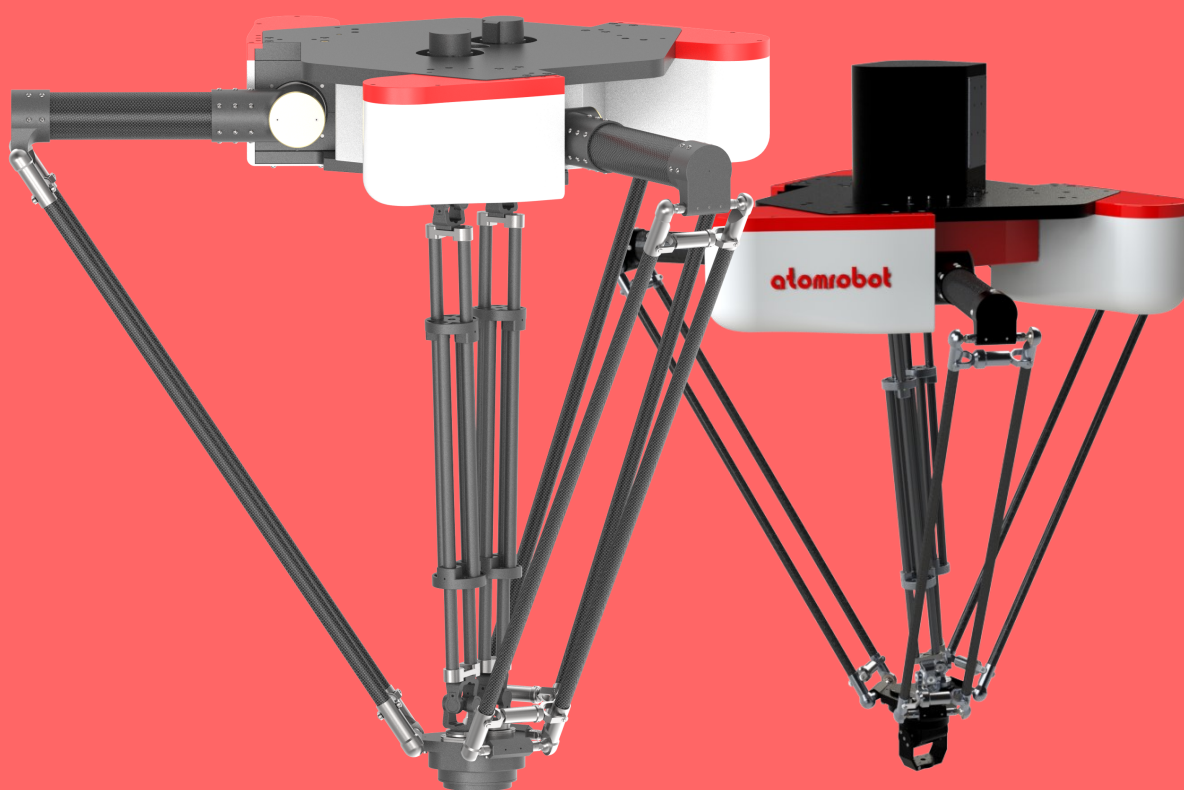


并联机器人

选型手册

Parallel Robot Selection Manual

D5



● 型号和符号

| | D5 | 1200 | P2 | A1 | E1 | FXGX |
|----|------|----------------------|-------------------------------------|--------------------------------------|------------------------|------|
| 机型 | 型号 | 负载 | 控制器类型 | 控制柜类型 | 视觉 | |
| D5 | 800 | P2: 2kg P25: 25kg | A1: ATOMCONTROL A2: KEBA CONTROL | E1: ATOM-01 E2: ATOM-02 E3: 定制 | F0G0: 无视觉 FXGX: 有视觉 | |
| | 1200 | | | | | |
| | 1600 | | | | | |

● Model and Symbol

| | D5 | 1200 | P2 | A1 | E1 | FXGX |
|------------|------|----------------------|-------------------------------------|--|---|------|
| Robot type | Type | Load Type | Control Type | Control Cabinet | Vision Type | |
| D5 | 800 | P2: 2kg P25: 25kg | A1: ATOMCONTROL A2: KEBA CONTROL | E1: ATOM-01 E2: ATOM-02 E3: Custom | F0G0: Without vision FXGX: With vision | |
| | 1200 | | | | | |
| | 1600 | | | | | |

D5-800-P2



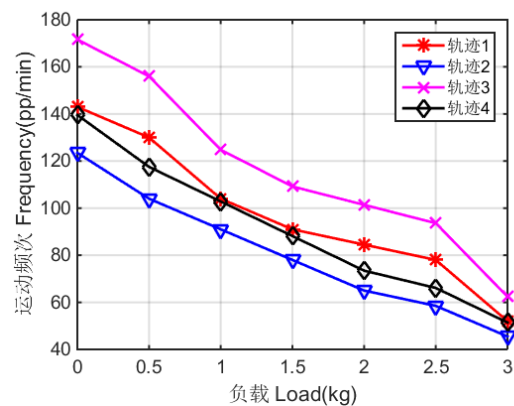
高速度
高精度
高稳定性
高自由度
小巧、敏捷

High speed
High precision
High stability
More degrees
Small and Agile

| | | |
|--|--------------------|--|
| 型号 Type | | D5-800-P2 |
| 轴数 Axes | | 3+2 |
| 最大负载 Payload | | 2kg |
| 机器人本体 Manipulator | 重量 Weight | 85kg |
| | 工作空间直径 Diameter | 800mm |
| 重复定位精度 repeatability | 位置 Position | 0.05mm |
| | 旋转 Rotation | 0.1° |
| 旋转范围 Rotation range | | ±360° |
| 俯仰范围 Vertical rotation range | | ±90° |
| 允许负载最大旋转惯量 (水平旋转) Allowable maximum moment of inertia | | $31 \times 10^{-4} \text{kg} \cdot \text{m}^2$ |
| 主动臂角度范围 Angle range of actuated arm | 上摆 Up | 36.5° |
| | 下摆 Down | 70.5° |
| 输入电源 Power supply | | 三相 Three-phase 380VAC -10%~+10%, 49~61HZ |
| 电源容量 Power capacity | | 3KVA |
| 额定功率 Rated Power | | 2.7kw |
| 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 |

- ◆ 具备3+2自由度，轻松满足复杂摆放场景。
With 3+2-DOF movement in three-dimensional space, robot can be used for more complicated handling operations
- ◆ 标准循环时间小于0.5s,满足追求最高速度和最小体积需求
The standard cycle time is less than 0.5s, meeting your pursuit for the maximum speed and the minimum volume.
- ◆ 特殊旋转轴铰链设计，轻松应对高强度高频次重复运动需求
Advanced design of Hooke joint in the rotational axis, enables the robot to easily cope with the high-intensity repetitive operation.
- ◆ 非常适于狭小空间内作业、3C制造等行业的高速高精生产作业，主要用于小型工件的装配、搬运、检测等
The robot is ideal for narrow space operations, as well as high-speed and high-precision in 3C field. Widely used in assembly, handling and testing of small work pieces.

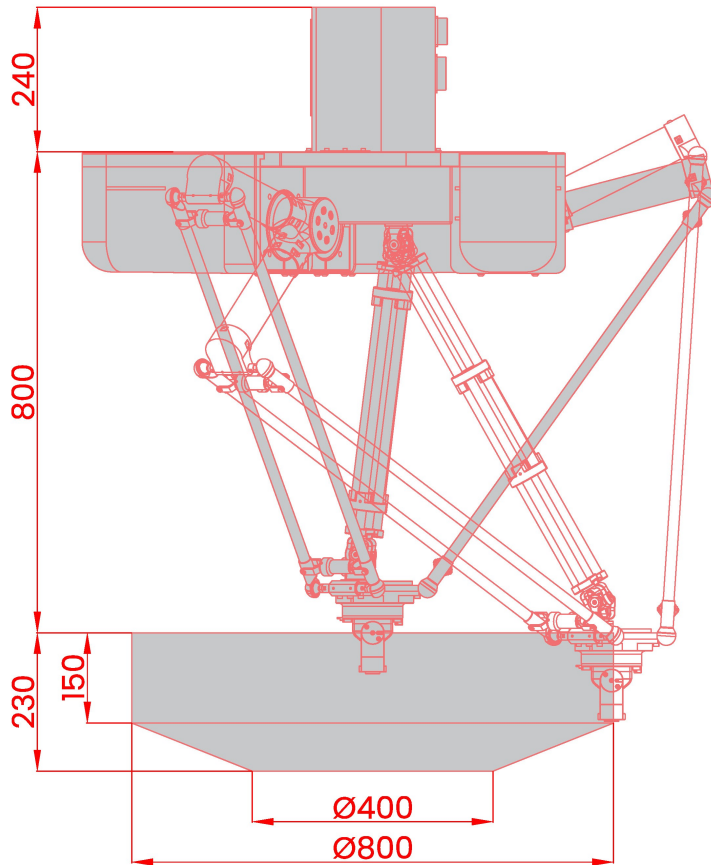
● 负载-频次 Load-Frequency



| 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，并且未包含俯仰运动，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:

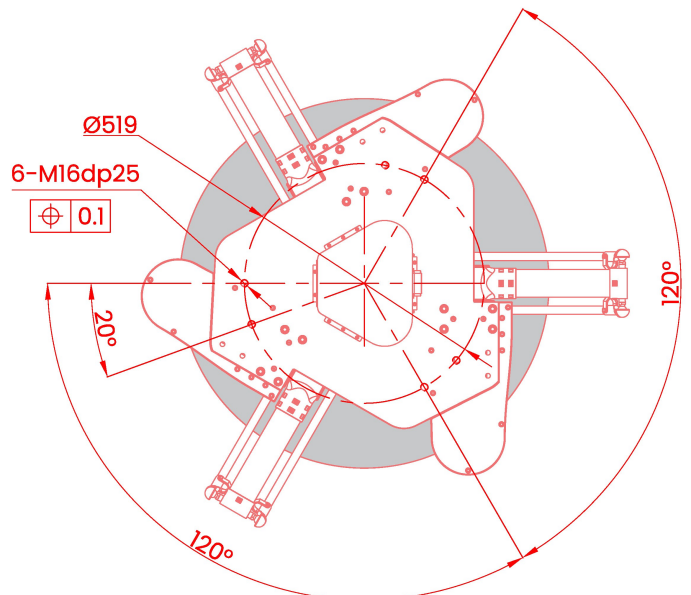
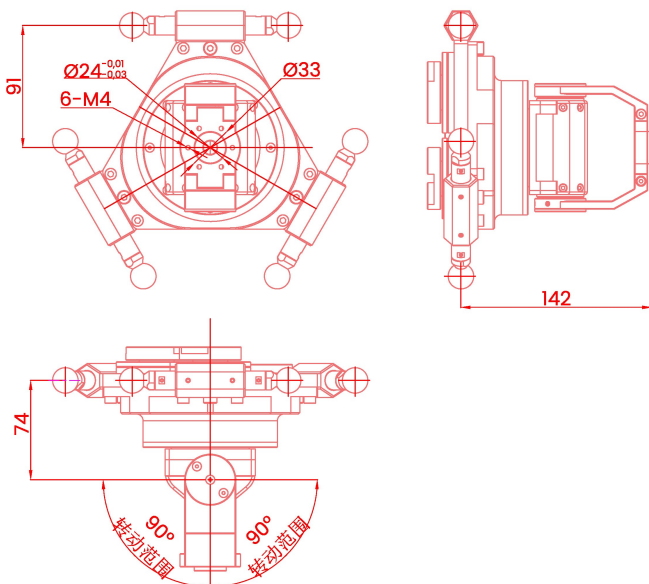
图示下部灰色工作空间代表末端俯仰转轴的中心点所能到达的区域。

Instruction:

The bottom gray workspace in the figure represents the area that can be reached by the center point of the end pitch axis.

法兰 Flange (mm)

底座安装 Base installation (mm)



D5-1200-P2



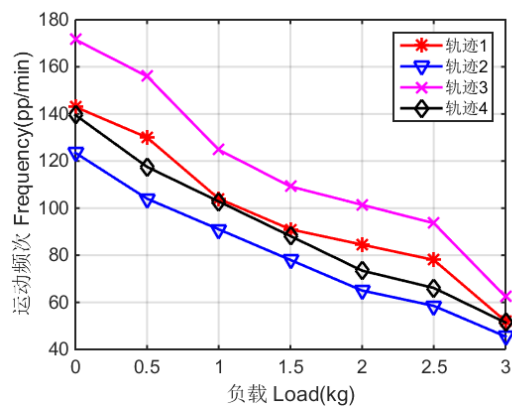
高速度
高精度
高稳定性
高自由度
小巧、敏捷

High speed
High precision
High stability
More degrees
Small and Agile

| | | |
|--|--------------------|--|
| 型号 Type | | D5-1200-P2 |
| 轴数 Axes | | 3+2 |
| 最大负载 Payload | | 2kg |
| 机器人本体 Manipulator | 重量 Weight | 90kg |
| | 工作空间直径 Diameter | 1200mm |
| 重复定位精度 repeatability | 位置 Position | 0.05mm |
| | 旋转 Rotation | 0.1° |
| 旋转范围 Rotation range | | ±360° |
| 俯仰范围 Vertical rotation range | | ±90° |
| 允许负载最大旋转惯量 (水平旋转) Allowable maximum moment of inertia | | $31 \times 10^{-4} \text{kg} \cdot \text{m}^2$ |
| 主动臂角度范围 Angle range of actuated arm | 上摆 Up | 36.5° |
| | 下摆 Down | 70.5° |
| 输入电源 Power supply | | 三相 Three-phase 380VAC -10%~+10%, 49~61HZ |
| 电源容量 Power capacity | | 3KVA |
| 额定功率 Rated Power | | 6.4kw |
| 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 |

- ◆ 具备3+2自由度，轻松满足复杂摆放场景。
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- ◆ 特殊旋转轴铰链设计，轻松应对高强度高频次重复运动需求
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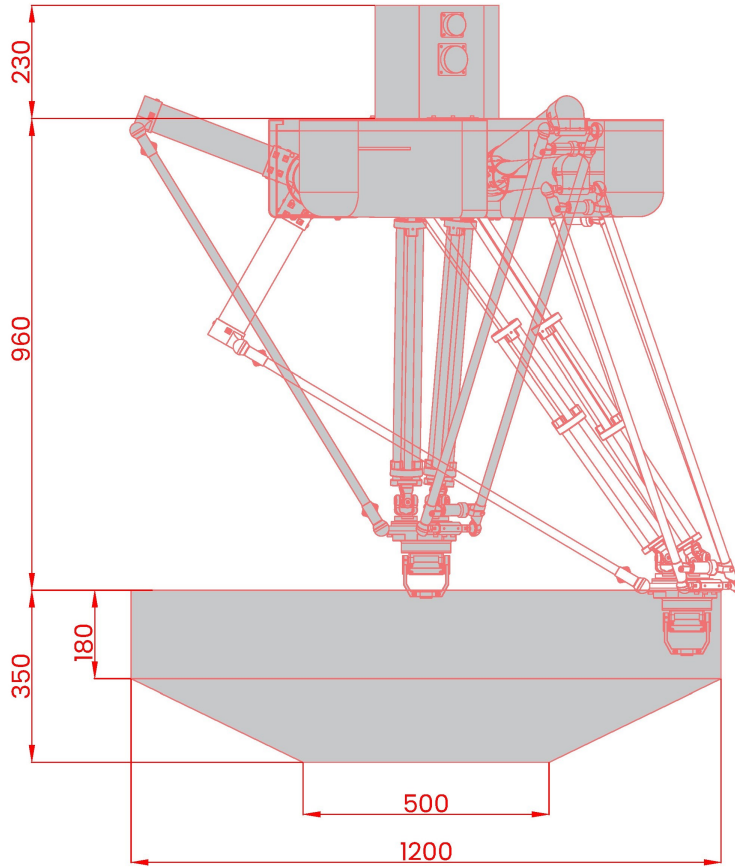
● 负载-频次 Load-Frequency



| 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，并且未包含俯仰运动，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:

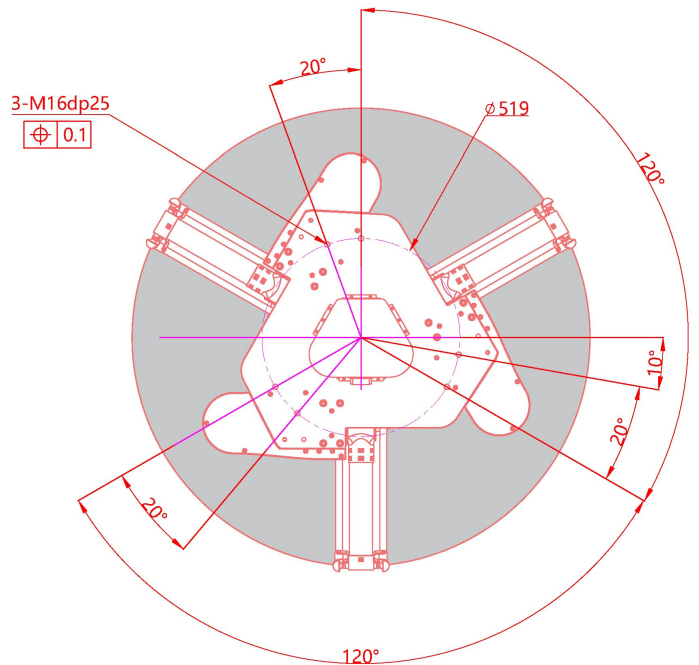
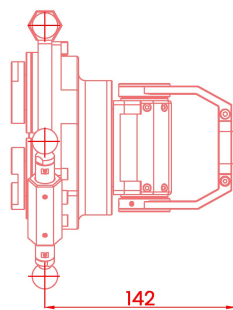
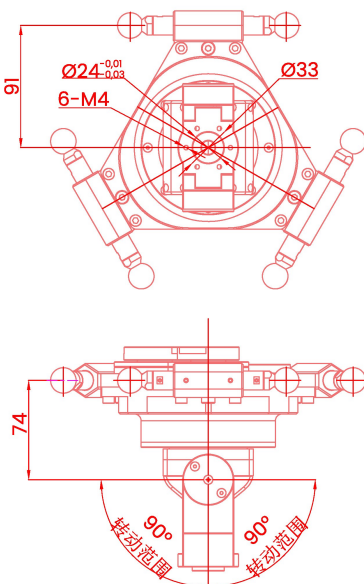
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Instruction:

The bottom gray workspace in the figure represents the area that can be reached by the center point of the end pitch axis.

法兰 Flange (mm)

基座安装 Base installation (mm)



D5-P-1600-P25



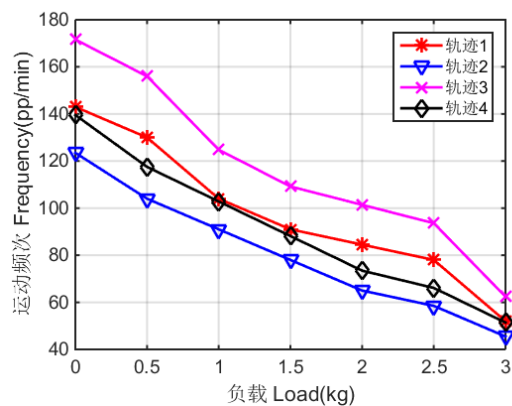
高速度
高精度
高稳定性
高自由度
小巧、敏捷

High speed
High precision
High stability
More degrees
Small and Agile

| | | |
|--|--------------------|--|
| 型号 Type | | D5-P-1600-P25 |
| 轴数 Axes | | 3+2 |
| 最大负载 Payload | | 25kg |
| 机器人本体 Manipulator | 重量 Weight | 150kg |
| | 工作空间直径 Diameter | 1600mm |
| 重复定位精度 repeatability | 位置 Position | 0.1mm |
| | 旋转 Rotation | 0.2° |
| 四轴旋转范围 Rotation range | | ±360° |
| 五轴旋转范围 Rotation range | | ±360° |
| 允许负载最大旋转惯量 (水平旋转) Allowable maximum moment of inertia | | $31 \times 10^{-4} \text{kg} \cdot \text{m}^2$ |
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| 输入电源 Power supply | | 三相 Three-phase 380VAC -10%~+10%, 49~61HZ |
| 电源容量 Power capacity | | 3KVA |
| 额定功率 Rated Power | | 7.5kw |
| 保存温度 Storage temperature | | -10°C~70°C |
| 工作环境 Work environment | | -10°C~50°C, RH≤80% |
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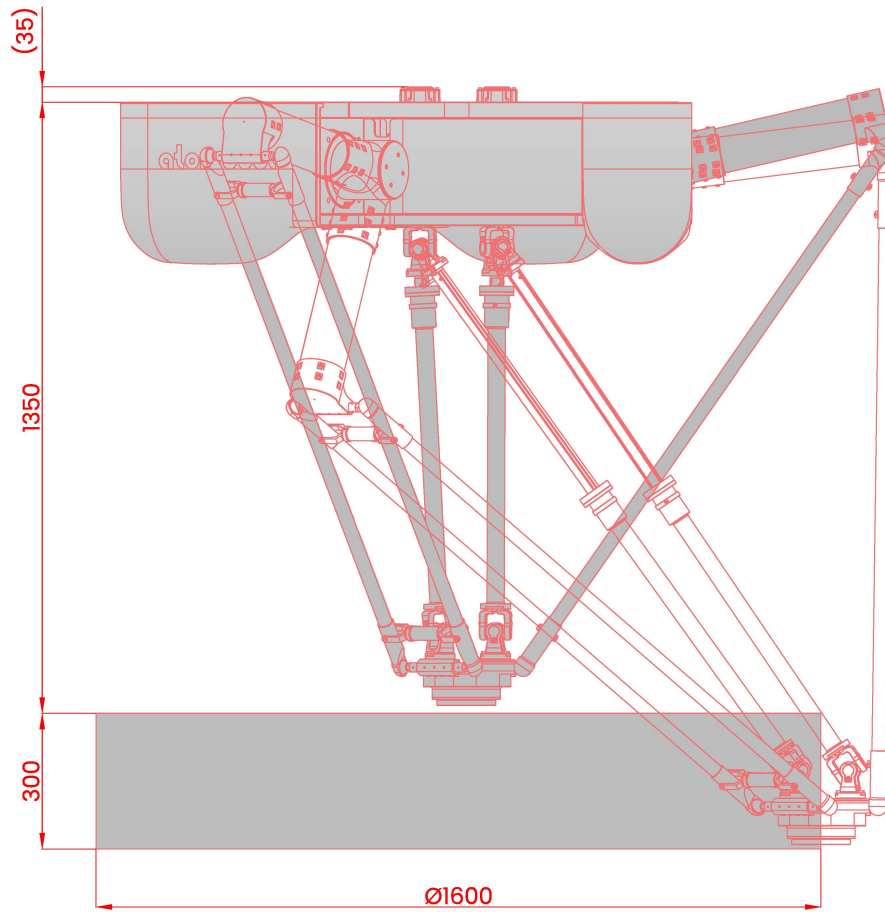
● 负载-频次 Load-Frequency



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|-----------------|----------------------------------|---------------|
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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 |
| 轨迹4 Trajectory4 | P1 → P2 → P3 → P2 → P1 | h=25, b=500 |

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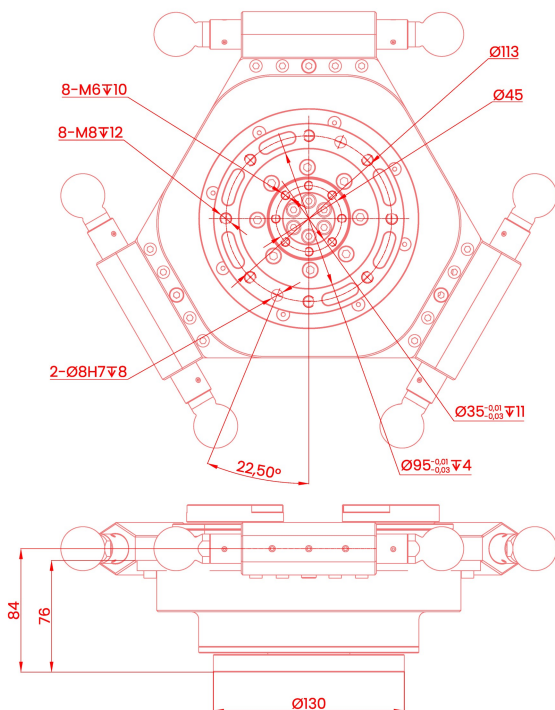
外形尺寸及运动范围
Outline dimensions and Working range (mm)



说明：
图示下部灰色工作空间代表末端中心点所能到达的区域。

Instruction:
The gray work-space at the bottom of the diagram represents the area that can be reached by the end center point.

法兰 Flange (mm)



基座安装 Base installation (mm)

