

Python800-B20

Applicable Industries

Transportation and loading/unloading, dispensing, gluing, assembly and inspection processes in electronics, food, medicine, daily chemicals, and semiconductors.

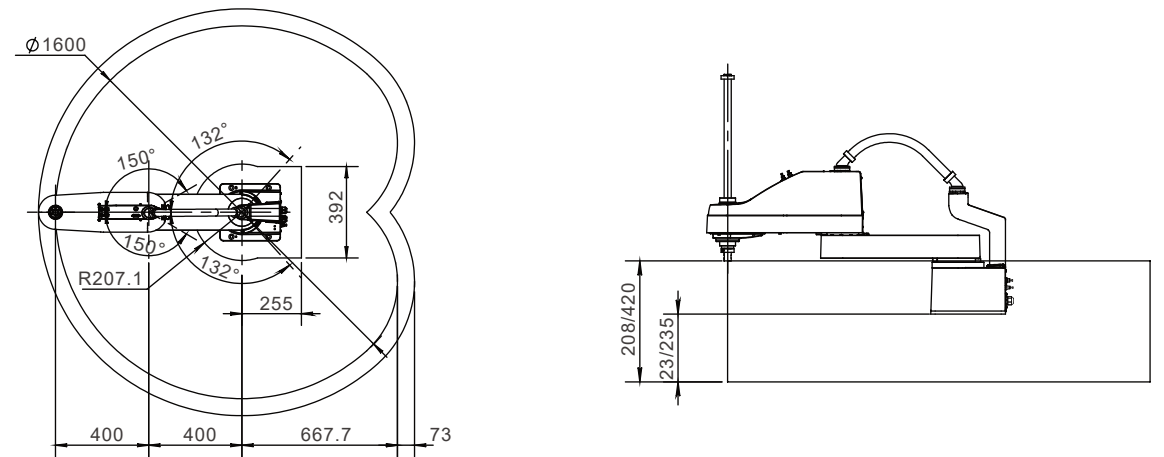
Product features	
Rated load	10kg
Max. load	20kg
Number of axes	4
Installation type	Floor-mounted



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Robotic arm length	Robotic arms 1 & 2	800mm
	Robotic arm 1	400mm
	Robotic arm 2	400mm
Max. operating speed	Joints 1 & 2	8830mm/s
	Joint 3	1600mm/s
	Joint 4	1600°/s
Repeat positioning accuracy	Joints 1 & 2	±0.025mm
	Joint 3	±0.01mm
	Joint 4	±0.01°
Joint 4 allowable inertial torque	Rated	0.02kg·m ²
	Max.	0.3kg·m ²
Working range	Joint 1	±132°
	Joint 2	±150°
	Joint 3	208/420mm
	Joint 4	±360°
25/305/25	0.1kg	0.41s
	1kg	0.43s
	3kg	0.46s
Power supply voltage		Single-phase AC 220 V-240 V, 50/60 Hz
Rated power		2.4kW
Ambient temperature		0-45°C
Relative humidity		5-95%
Installation aperture		160x210mm; 4-φ12
Electrical interface		15-channel custom I/O
Airway		φ6*2+φ4*2
Weight		40 kg (excluding cables)
I/O interface		4-channel configurable digital I/O 8-channel universal digital I/O (8 additional I/O channels can be added) 2-channel encoder input
Ethernet		2
USB		2
RS232\RS485		1
EtherCAT		1
Communication protocol		Modbus-RTU/TCP、Socket

Working range (unit: mm)



Technical drawing of the DB15 robot arm, showing front, side, and top views with dimensions and labels A through E.

Front View (Left):

- Top flange: 2-M5 ∇ 10, 58, 4, 30, 1 $\times$.
- Arm body: 436/648, 627, 235, 208/420, 1 $\times$.
- Mechanical stop: $\varnothing 45$, 1 $\times$.
- Stroke clearance of the mechanical stop position: $\times$.

Side View (Right):

- Top flange: 20, 6 $\begin{smallmatrix} +0.012 \\ 0 \end{smallmatrix}$, 160, 50, 210, 245, 259, 4- $\varnothing 12$.
- Arm body: 170, 73, 400, 400.
- Mechanical stop: $\varnothing 6 \begin{smallmatrix} +0.012 \\ 0 \end{smallmatrix}$.

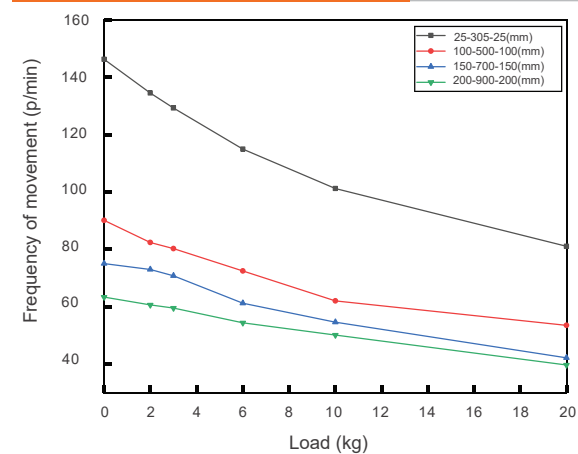
Top View (Bottom):

- Labels: A, B, C, D, E.
- Dimensions: 80, 194, 162, 12, 627, 235, 208/420, 1 $\times$.
- Stroke clearance of the mechanical stop position: $\times$.
- 90 or more reserve space for cables.

Details:

- Detail A:** 1 mm flat surface slotting, A through hole with a max. diameter of $\varnothing 18$, $\varnothing 25$ h7 axis diameter, $\varnothing 45$ mechanical stop position diameter.
- Detail B:** 1 $\times$, 10/10, 30.
- Detail C:** 4-M4 ∇ 12, $\varnothing 35$, 60°.
- Detail D:** User air pipe $\varnothing 6$, DB15, User air pipe $\varnothing 4$.

Load - Frequency



Moving trajectory

Cyclic mode

$P1 \rightarrow P2 \rightarrow P3 \rightarrow P4 \rightarrow P3 \rightarrow P2 \rightarrow P1$

	25	90	100	150	200
$h \text{ (mm)}$	25	90	100	150	200
$b \text{ (mm)}$	305	400	500	700	900

*: Any changes resulting from upgrading our products will not be notified separately.