

ESR50-1200Z40

A white industrial robot arm, specifically the Efort model, is shown against a light gray background. The robot has a vertical mast with a horizontal boom extending from it. The word "EFORT" is printed in red on the side of the mast. The arm is positioned in a way that shows its profile and the end effector at the bottom.

1. High rhythm and high precision
The fastest standard cycle time can reach 0.52 s, and the robot positioning accuracy can reach 0.03 mm.
2. High rigidity and low vibration
Robot body mode and rigidity enhancement, combined with vibration suppression and active vibration suppression functions, effectively reduce vibration.
3. Easy to maintain and scalable
The detachable structure of cables and batteries allows for the replacement of robots inside the device.

It can be used in handling, sorting, assembly, etc.

Suitable for industries such as lithium batteries, automotive electronics, and photovoltaics.

Model		ESR50-1200Z40
Reach		1200 mm
Max. payload on wrist	Rated	20 kg
	Maximum	50 kg
Robot weight		128 kg
Maximum speed	J1+J2	8500 mm/sec
	J3	1120 mm/sec
	J4	645°/sec
Motion range	J1	±160°
	J2	±148°
	J3	400 mm
	J4	±360°
Repeatability	J1+J2	±0.03 mm
	J3	±0.02 mm
	J4	±0.01°
Standard cycle time		0.52 s
J4 allowable moment of inertia	Rated	1 kg·m ²
	Maximum	2.45 kg·m ²
Electric lines		D-Sub 15-Pin+15-Pin
Pneumatic lines		φ6 mmx2,φ8 mmx1
J3 downward force		/
Installation		Floor
Installation enviroment	Ambient temperature	5~40°C
	Ambient humidity	RH≤80% (No dew nor frost allowed)

Technical drawing of a mechanical part showing a front view and a cross-section A-A.

Front View Dimensions:

- Total height: 100
- Height of the flat cut: 50.5
- Width of the flat cut: 30
- Base diameter: $\phi 32_{-0.025}^0$

Cross-section A-A:

- Angle: 30°
- Diameter: $\phi 23$

Annotations:

- 平面切槽深1mm (Flat cut 1mm deep)

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