ER12-1400

EFORT

ER12-1400,
Maxium payload 12 kg with maxium reach 1391 mm.

Highlights

The ER12-1400 robot has a maximum load of 12 kg and an arm span of 1391 mm, which is characterized by a wide working range and strong load capacity;
The highly rigid wrist design and control algorithm can improve the positioning accuracy and dynamic performance of the robot. The repetitive positioning accuracy can reach 0.03 mm, the positioning time is 0.2 s;
3The fully enclosed mechanical body is not only compact in structure, but also covers a small area of 260 mm * 260 mm. It has high dust-proof and waterproof performance and secondary protection characteristics
for special applications.

Applications

It can be used for handling operations (machine tending), sorting, assembling, grinding, polishing, Arc welding, etc.

Industries

Suitable for PCB, electronic manufacturing, plastic,
metal parts and other industries.

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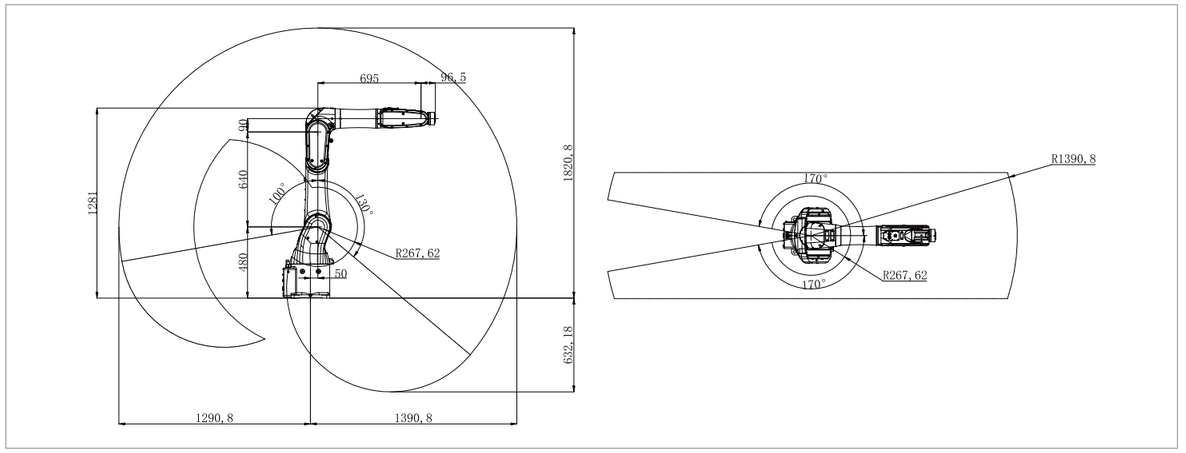
SPECIFICATIONS

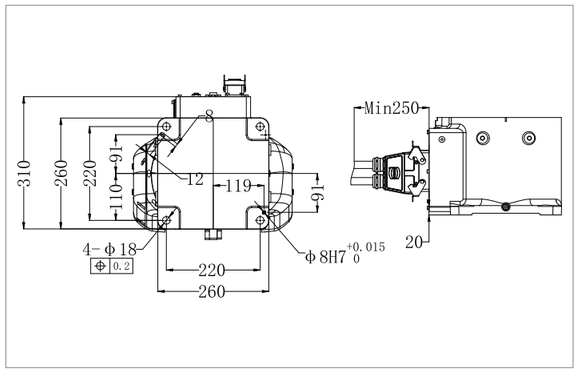
Model		ER12-1400
Type		Articulated
Controlled axes		6 Axes
Max. payload on wrist		12 kg
Repeatability		±0.03 mm
Robot weight		90 kg
Reach		1391 mm
Robot IP grade		IP65 / IP67 (Wrist)
Cabinet IP grade		IP20/ IP54 (Optional)
Drive mode		AC servo drive
Installation		Floor, Wall, Upside-down
Installation enviroment	**Ambient temperature**	0~45 ℃
	Ambient humidity	RH≤80% (No dew nor frost allowed)
	Vibration acceleration	4.9 m/s² (＜0.5 G)

Allowable load moment at wrist	**J4**	25 N·m
	J5	25 N·m
	J6	12 N·m
Allowable load inertia at wrist	**J4**	0.78 kg·m²
	J5	0.78 kg·m²
	J6	0.3 kg·m²
Maximum speed	**J1**	200°/sec
	J2	180°/sec
	J3	220°/sec
	J4	400°/sec
	J5	420°/sec
	J6	600°/sec
Motion range	**J1**	±170°
	J2	+100°/-130°
	J3	+193°/-75°
	J4	±190°
	J5	±120°
	J6	±360°

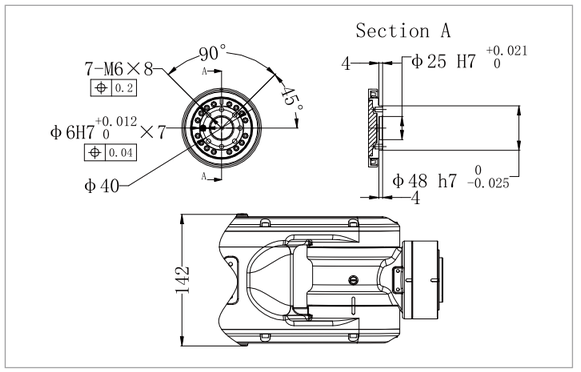
OPERATING SPACE



BASE MOUNTING SIZE



END FLANGE MOUNTING SIZE



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