Arc Welding Robot

EFORT

ARC12-1400

ARC12-1400 is a medium payloads robot.
Maxium payload 12 kg with maxium reach 1479 mm.

- **Highlights**
  Thanks to the large and hollow design, the cable can be routed in a hollow way, effectively improving the service life of the cable, and the posture change in a narrow space is more flexible;
  High-rigid gearbox with strong impact resistance helps customers challenge various application scenarios;
  Thanks to the high stiffness transmission design and advanced trajectory algorithm, the improved robot accuracy performance helps customers to face variety of application scenarios.
- **Applications**
  It can be used in Arc welding applications.
- **Industries**
  Suitable for metal parts, auto parts, steel structure and other industries.

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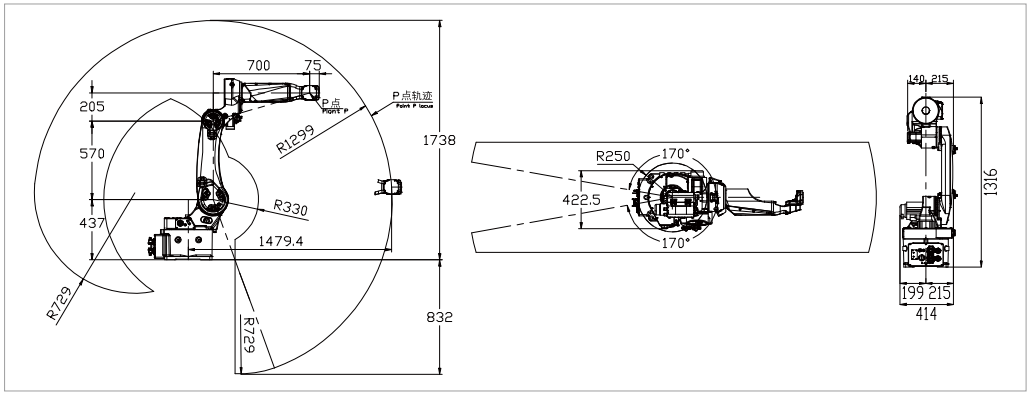
SPECIFICATIONS

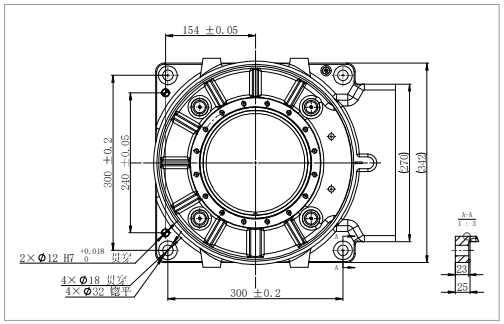
Model		ARC12-1400
Type		Articulated
Controlled axes		6 Axes
Max. payload on wrist		12 kg
Repeatability		±0.03 mm
Robot weight		165 kg
Reach		1479 mm
Robot IP grade		IP54 / IP67 (Wrist)
Cabinet IP grade		IP54
Drive mode		AC servo drive
Installation		Floor, Upside-down, Wall
Installation enviroment	**Ambient 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**	26 N·m
	J5	26 N·m
	J6	11 N·m
Allowable load inertia at wrist	**J4**	0.9 kg·m²
	J5	0.9 kg·m²
	J6	0.3 kg·m²
Maximum speed	**J1**	265°/sec
	J2	255°/sec
	J3	270°/sec
	J4	450°/sec
	J5	450°/sec
	J6	700°/sec
Motion range	**J1**	±170°
	J2	+85°/-150°
	J3	+175°/-85°
	J4	±190°
	J5	±190°(The connect outside robot body.) ±140°(The connect inside robot body.)
	J6	±450°(The connect outside robot body.) ±220°(The connect inside robot body.)

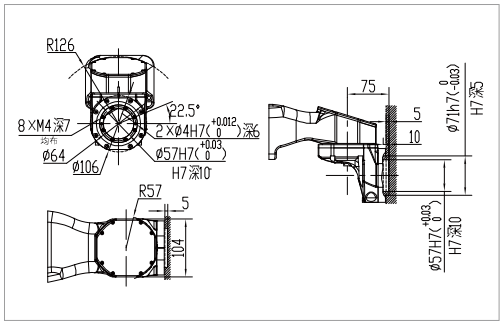
OPERATING SPACE



BASE MOUNTING SIZE



END FLANGE MOUNTING SIZE



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