Arc Welding Robot

EFORT

ARC12-1400

ARC12-1400 is a medium payloads robot.
Maxium payload 12 kg with maxium reach 1469 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

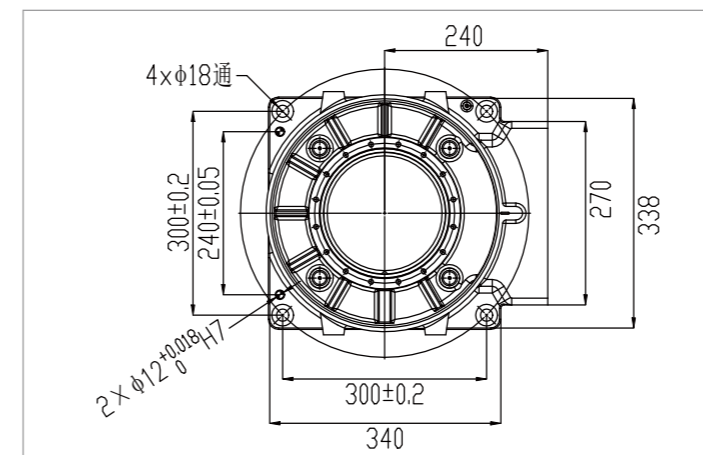Suitable for metal parts, auto parts, steel structure and other industries.

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）

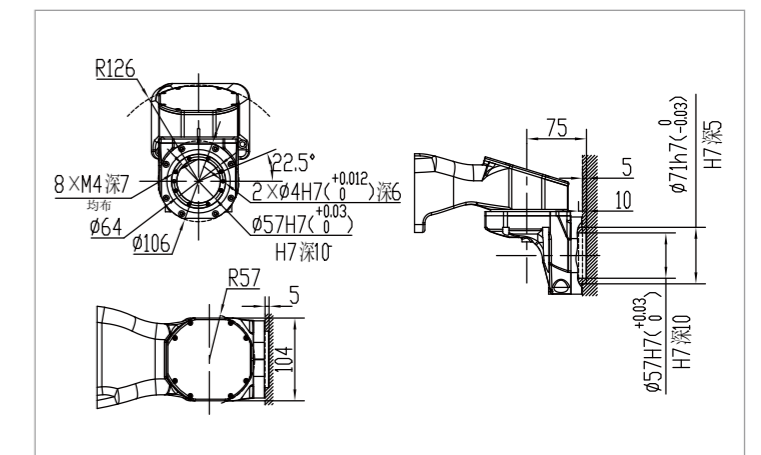|		
Allowable load moment at wrist	J4	26 N·m
	J5	26 N·m
	J6	11 N·m
Allowable load inertia at wrist	J4	0.9 kg·m²
	J5	0.9 kg·m²
	J6	0.3 kg·m²
Maximum speed	J1	265°/sec
	J2	255°/sec
	J3	270°/sec
	J4	450°/sec
	J5	450°/sec
	J6	700°/sec
Motion range	J1	± 170°
	J2	+85°/−150°
	J3	+175°/−85°
	J4	± 190°
	J5	± 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
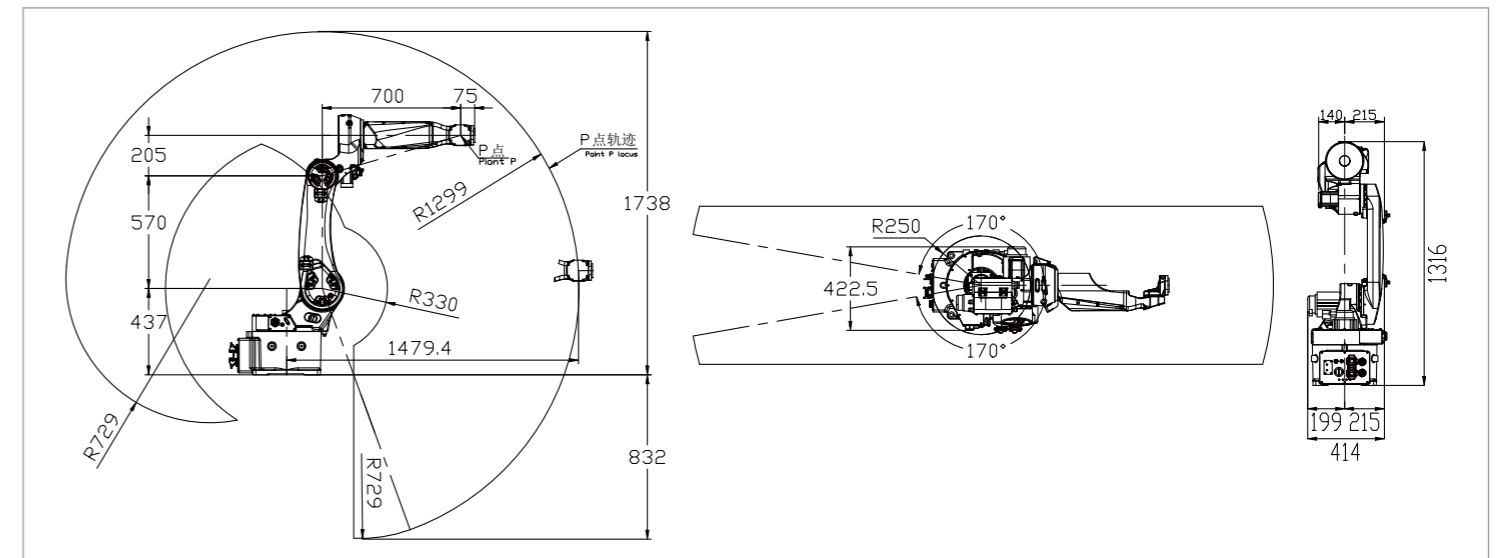
BASE MOUNTING SIZE

END FLANGE MOUNTING SIZE