

EFORT

ESR10-600Z20

ESR10-600Z20,
Maximum payload 10 kg with maximum reach 600 mm.

■

Highlights

1. High rhythm and high precision
The fastest standard cycle time can reach 0.36 s, and the robot positioning accuracy can reach 0.02 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, and the built-in camera network cable enables various communication extensions.

■

Applications

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

■

Industries

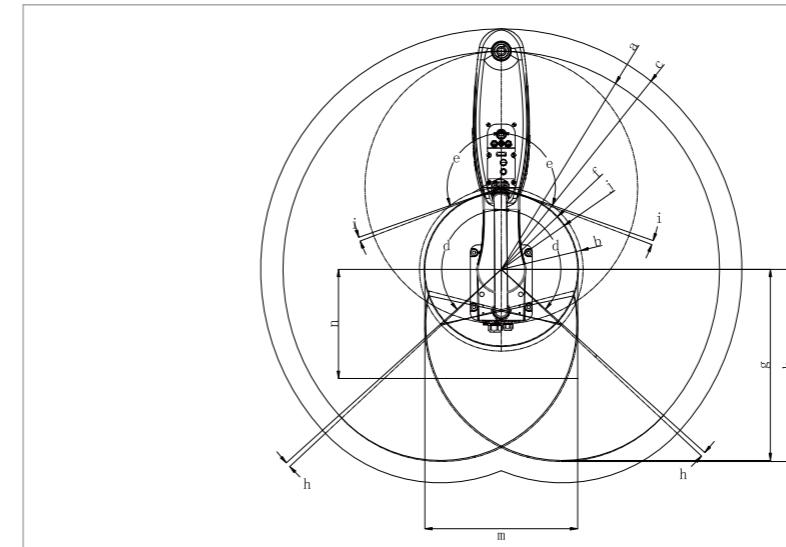
Suitable for industries such as electronic manufacturing, lithium batteries, automotive electronics, and photovoltaics.

SPECIFICATIONS

Model		ESR10-600Z20
Reach		600 mm
Max. payload on wrist	Rated	5 kg
	Maximum	10 kg
Robot weight		22 kg
Maximum speed	J1+J2	9100 mm/sec
	J3	1500 mm/sec
	J4	2500/mm/sec
Motion range	J1	±132°
	J2	±150°
	J3	200 mm
	J4	±360°
Repeatability	J1+J2	±0.02 mm
	J3	±0.01 mm
	J4	±0.01°
Standard cycle time		0.36 s
J4 allowable moment of inertia	Rated	0.02 kg·m ²
	Maximum	0.3 kg·m ²
Electric lines		D-Sub 15-Pin
Pneumatic lines		Φ4 mmx1, Φ6 mmx2
J3 downward force		200 N
Installation		Floor
Installation environment	Ambient temperature	5~40°C
	Ambient humidity	RH≤80% (No dew nor frost allowed)

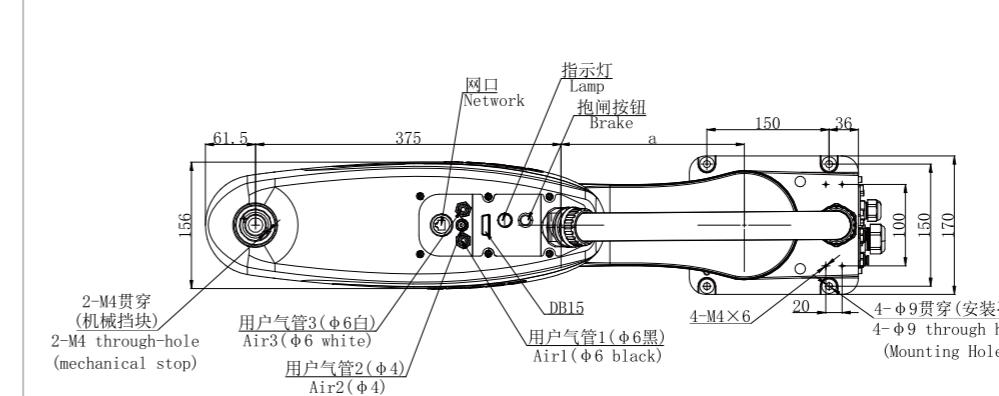


OPERATING SPACE



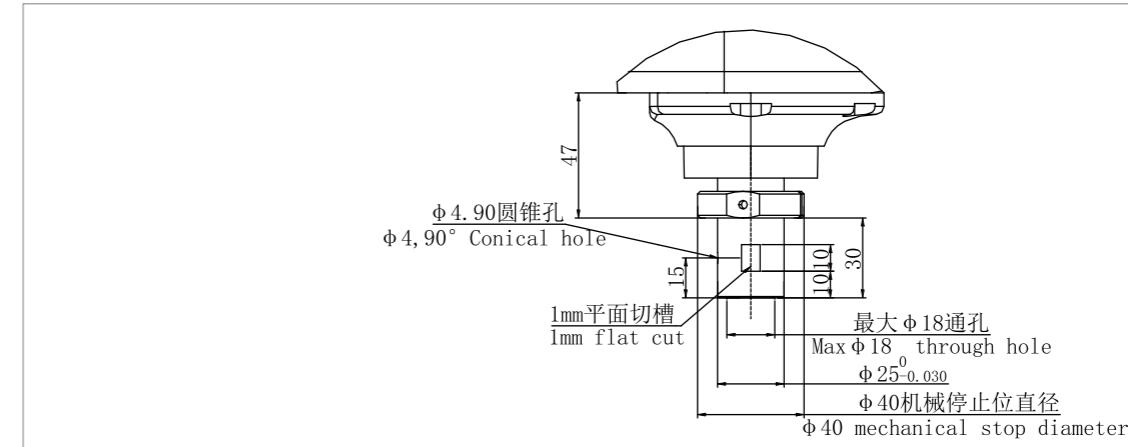
ESR10 series range of motion parameters for different arm lengths		
Model name	ESR10-600Z20	ESR10-700Z20
a. 1st轴臂长+2nd轴臂长 (mm)	600	700
b. 1st axis arm length (mm)	225	325
c. 最大运动范围 (mm)	661.5	761.5
d. 第1关节运动范围 (°)	132	
e. 第2关节运动范围 (°)	150	
f. 第3关节运动范围 (°)	212.4	187.5
g. 后方运动范围	525.6	592.5
h. 前方运动范围	1	
i. 第2关节机械停止位的角度 (°)		1.5
j. 第1关节机械停止位的角度 (°)		
k. 机械停止位的范围	207.2	179
l. 后方机械停止位的范围	528.5	596.7
m. 前方机械停止位的范围	420	330
n. 运动范围		320
o. Range of motion		300

BASE MOUNTING SIZE



ESR10 series with different arm lengths		
Model name	ESR10-600Z20	ESR10-700Z20
a	225	325
b	565	575
c	425	585

END FLANGE MOUNTING SIZE



Information Release Time 2024/09

PHONE: (00 86) 400-052-8877
ADDRESS: No.96 East Wanchun Road, China(Anhui) Pilot Free Trade Zone Wuhu Area, Wuhu, Anhui Province, China
WWW.EFORT.COM.CN

EFORT Intelligent Equipment Co., Ltd.