

EFOFT

ESR10-700Z20

ESR10-700Z20,
Maximum payload 10 kg with maximum reach 700 mm.

■ **Highlights**

1. High rhythm and high precision
The fastest standard cycle time can reach 0.385 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**

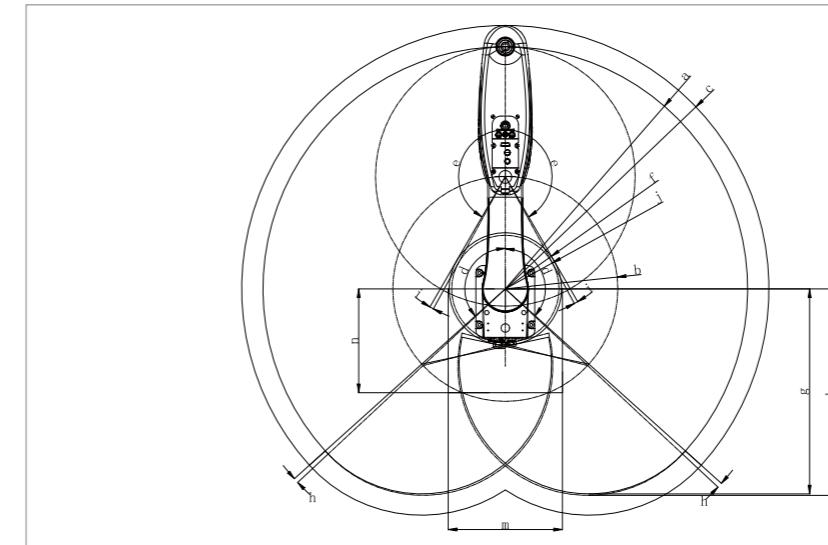
- Suitable for industries such as electronic manufacturing, lithium batteries, automotive electronics, and photovoltaics.

SPECIFICATIONS

Model		ESR10-700Z20
Reach		700 mm
Max. payload on wrist	Rated	5 kg
	Maximum	10 kg
Robot weight		23 kg
Maximum speed	J1+J2	9800 mm/sec
	J3	1500 mm/sec
	J4	2500/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		0.385 s
J4 allowable moment of inertia	Rated	0.02 kg·m²
	Maximum	0.3 kg·m²
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)

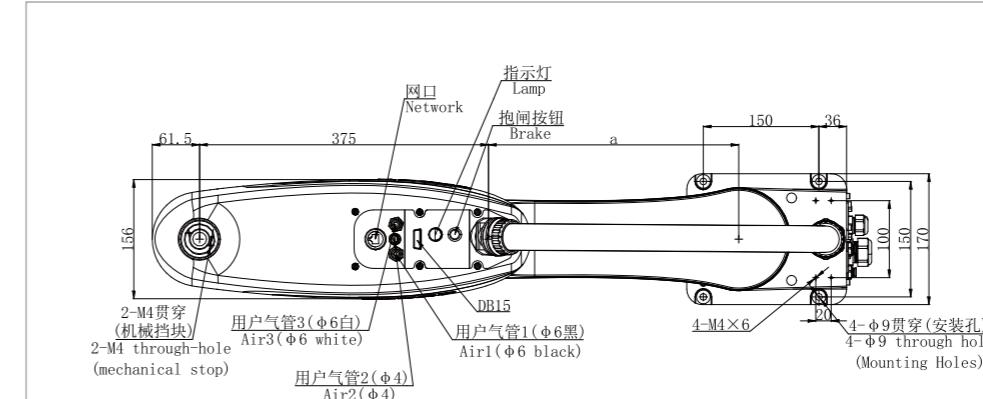


OPERATING SPACE



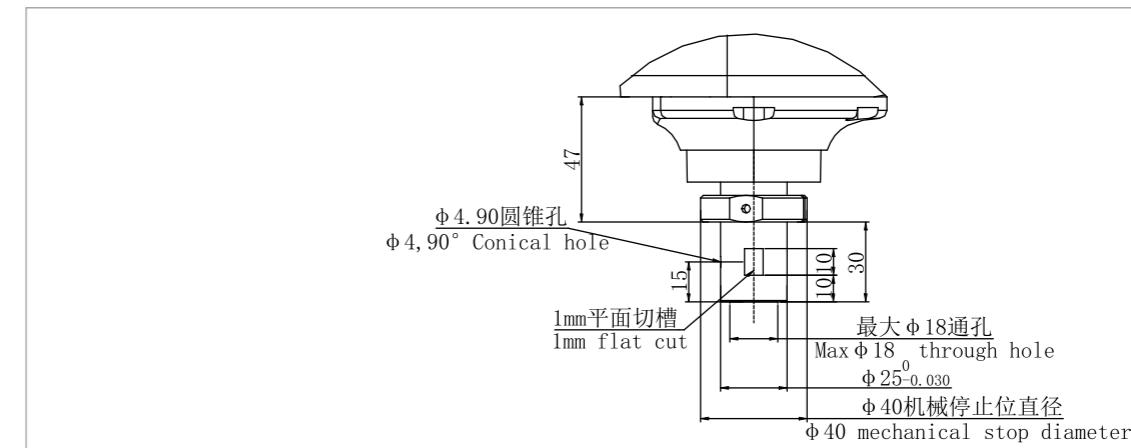
ESR10 series range of motion parameters for different arm lengths			
机型名称 The name of the model	ESR10-600Z20	ESR10-700Z20	ESR10-800Z20
a. 第1轴臂长+第2轴臂长 (mm) a. 1st axis arm length + 2nd axis arm length (mm)	600	700	800
b. 第1轴臂长 (mm) b. 1st axis arm length (mm)	225	325	425
c. 最大运动范围 (mm) c. Maximum range of motion (mm)	661.5	761.5	861.5
d. 第1关节运动范围 (°) d. Range of motion of the 1st joint (°)	132		
e. 第2关节运动范围 (°) e. Range of motion of the 2nd joint (°)		150	
f. 运动范围 f. Range of motion	212.4	187.5	212.5
g. 后方运动范围 g. Rear range of motion	525.6	592.5	659.4
h. 第1关节机械停止位的角度 (°) h. The angle of the mechanical stop position of the 1st joint (°)		1	
i. 第2关节机械停止位的角度 (°) i. The angle of the mechanical stop position of the 2nd joint (°)		1.5	
j. 机械停位的范围 j. The range of mechanical stop bits	207.2	179	202.8
k. 后方机械停止位的范围 k. The range of the rear mechanical stop bits	528.5	596.7	664.9
m. 运动范围 m. Range of motion	420	330	320
n. 运动范围 n. Range of motion		300	

BASE MOUNTING SIZE



ESR10 series with different arm lengths			
机型名称 The name of the model	ESR10-600Z20	ESR10-700Z20	ESR10-800Z20
a	225	325	425
b	565	575	585

END FLANGE MOUNTING SIZE



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