

E FORT

ESR6-500Z20

ESR6-500Z20,
Maximum payload 6 kg with maximum reach 500 mm.

■ Highlights

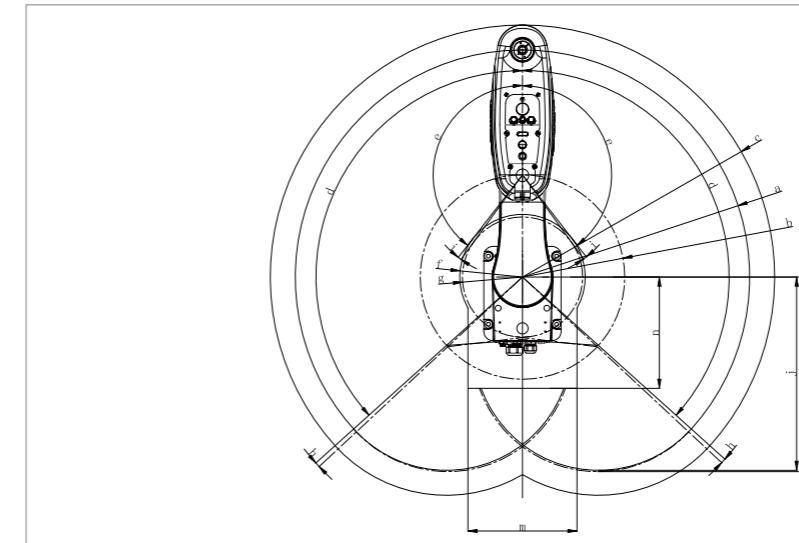
1. High rhythm and high precision
The fastest standard cycle time can reach 0.346 s, and the robot positioning accuracy can reach 0.02 mm.
 2. High rigidity and low vibration
Robot body mode and rigidity enhancement, combined with vibration suppression and active vibration suppression functions, effectively 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

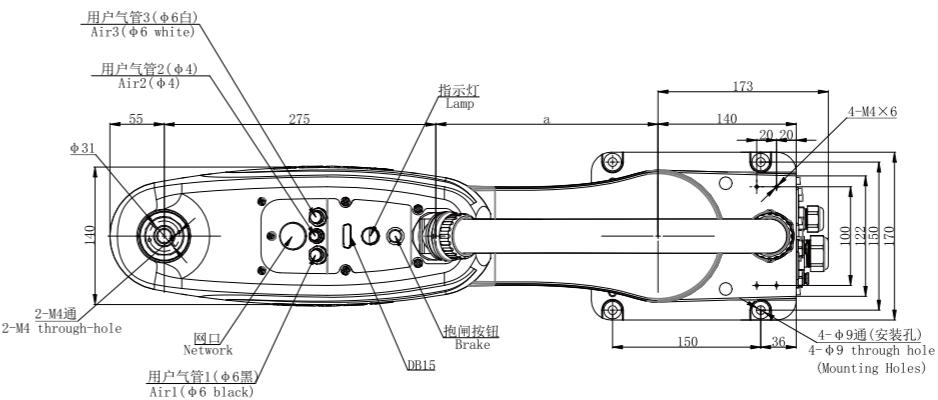
Model	ESR6-500Z20	
Reach		500 mm
Max. payload on wrist	Rated	2 kg
	Maximum	6 kg
Robot weight		18 kg
Maximum speed	J1+J2	7120 mm/sec
	J3	1100 mm/sec
	J4	2000/sec
Motion range	J1	±132°
	J2	±150°
	J3	200 mm
	J4	±360°
Repeatability	J1+J2	±0.02 mm
	J3	±0.01 mm
	J4	±0.01°
Standard cycle time		0.346 s
J4 allowable moment of inertia	Rated	0.01 kg·m²
	Maximum	0.12 kg·m²
Electric lines		D-Sub 15-Pin
Pneumatic lines		Φ4 mmx1, Φ6 mmx2
J3 downward force		100 N
Installation		Floor
Installation environment	Ambient temperature	5~40°C
	Ambient humidity	RH≤80% (No dew nor frost allowed)

OPERATING SPACE



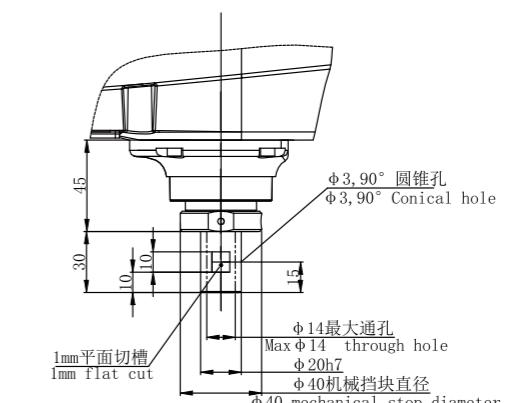
ESR6 series range of motion parameters for different arm lengths		
机型名称	ESR6-500Z20	ESR6-600Z20
a. 第1轴伸长-第2轴伸长 (mm)	500	600
b. 第1轴伸长 (mm)	225	325
c. 第2轴伸长 (mm)	225	325
c. 最大运动范围 (mm)	555	655
d. Range of 1st joint motion (°)	132	
e. Range of 2nd joint motion (°)	150	
f. 运动范围	138.1	162.6
g. The range of vertical motion (mm)	132.3	155.4
h. The angle of the first joint mechanical stop position (°)	1	
i. The angle of the second joint mechanical stop position (°)	1.5	
j. 停止范围 (mm)	425.6	492.5
k. 第二关节机械停止范围 (mm)	428.5	496.6
l. a. 运动范围	240	220
m. b. 运动范围		220
n. Range of motion		245

BASE MOUNTING SIZE



ESR6 series with different arm lengths		
机型名称	ESR6-500Z20	ESR6-600Z20
a	225	325
b	565	575

END FLANGE MOUNTING SIZE



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