EFORT

ESR6-700Z20

ESR6-700Z20,
Maxium payload 6 kg with maxium reach 700 mm.

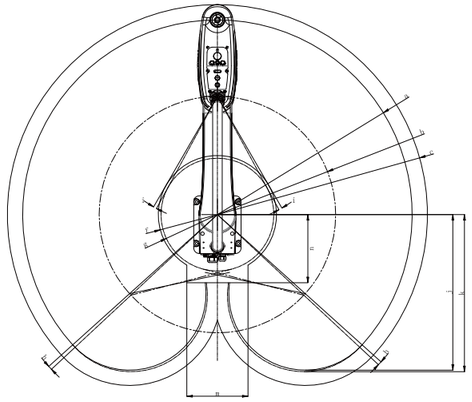
- **Highlights**
  1. High rhythm and high precision
  The fastest standard cycle time can reach 0.375 s, and the robot positioning accuracy can reach 0.02 mm.
  2. High rigidity and low vibration
  Robot body mode and rigidity enhancement, combined with vibration suppression and active vibration suppression 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		ESR6-700Z20
Reach		700 mm
Max. payload on wrist	Rated	2 kg
	Maximum	6 kg
Robot weight		20 kg
Maximum speed	J1+J2	8590 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		0.375 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 enviroment	Ambient temperature	5~40℃
	Ambient humidity	RH≤80% (No dew nor frost allowed)

*The final interpretation right belongs to EFORT Intelligent Robot Co., Ltd. Any updates will be made without prior notice.

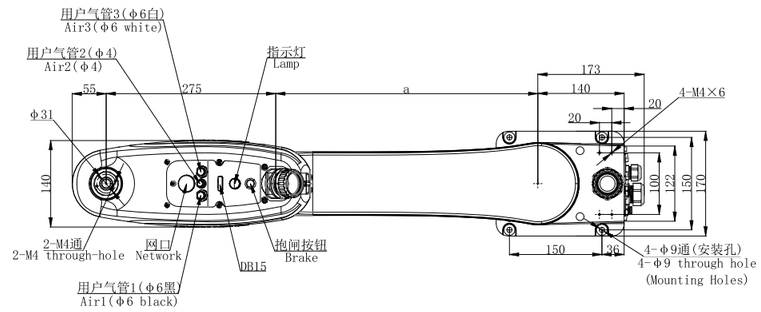
OPERATING SPACE



ESR6系列不同臂长机型运动范围参数
ESR6 series range of motion parameters for different arm lengths

机型名称 The name of the model	ESR6-500Z20	ESR6-600Z20	ESR6-700Z20
a. 第1轴臂长+第2轴臂长（mm） a. 1st axis arm length+2st axis arm length (mm)	500	600	700
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)	555	655	755
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 2st joint (°)	150		
f. 运动范围 f. Range of motion	138.1	162.6	232.0
g. 机械停止位的范围（mm） g. The range of mechanical stop bits (mm)	132.3	155.4	225.4
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 2st joint (°)	1.5		
j. 后方运动范围（mm） j. Rear range of motion (mm)	425.6	492.5	559.4
k. 后方机械停止位的范围 k. The range of the rear mechanical stop bits	428.5	496.6	564.8
m. 运动范围 m. Range of motion	240	220	220
n. 运动范围 n. Range of motion	245		

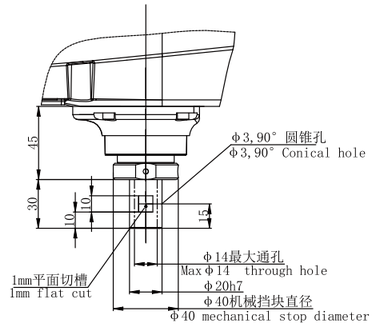
BASE MOUNTING SIZE



ESR6系列不同臂长机型参数
ESR6 series with different arm lengths

机型名称 The name of the model	ESR6-500Z20	ESR6-600Z20	ESR6-700Z20
a	225	325	425
b	565	575	585

END FLANGE MOUNTING SIZE



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