

EFORT

# ESR10-700Z20

ESR10-700Z20,  
Maxium payload 10 kg with maxium 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.

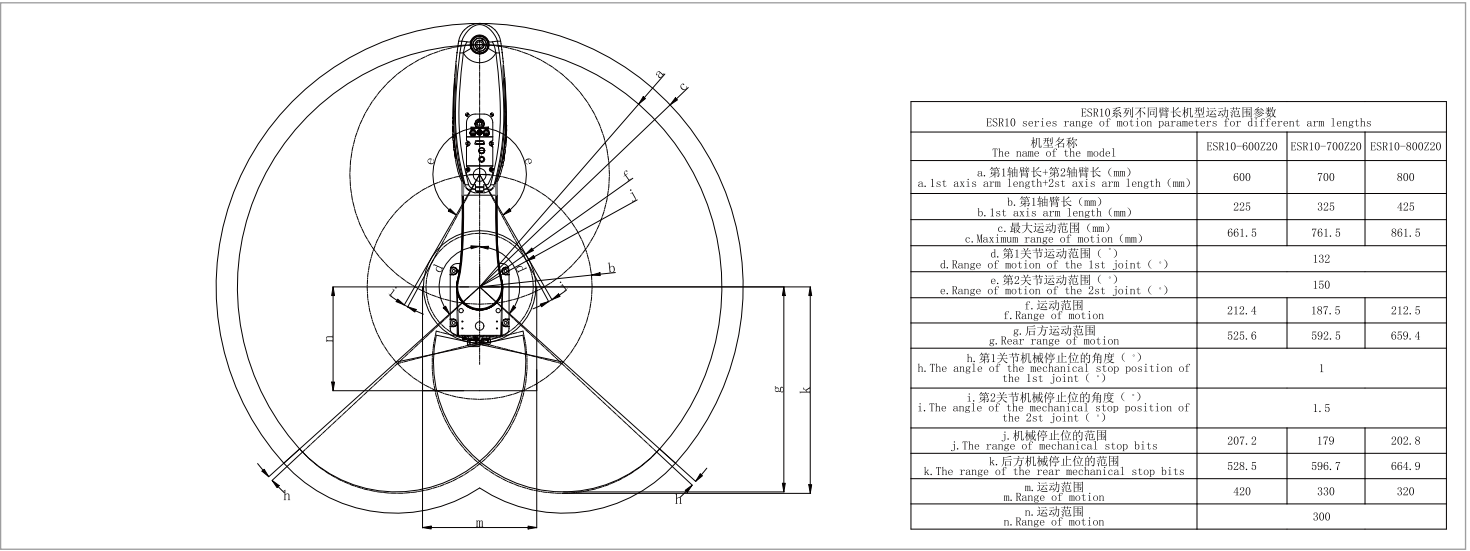


## SPECIFICATIONS

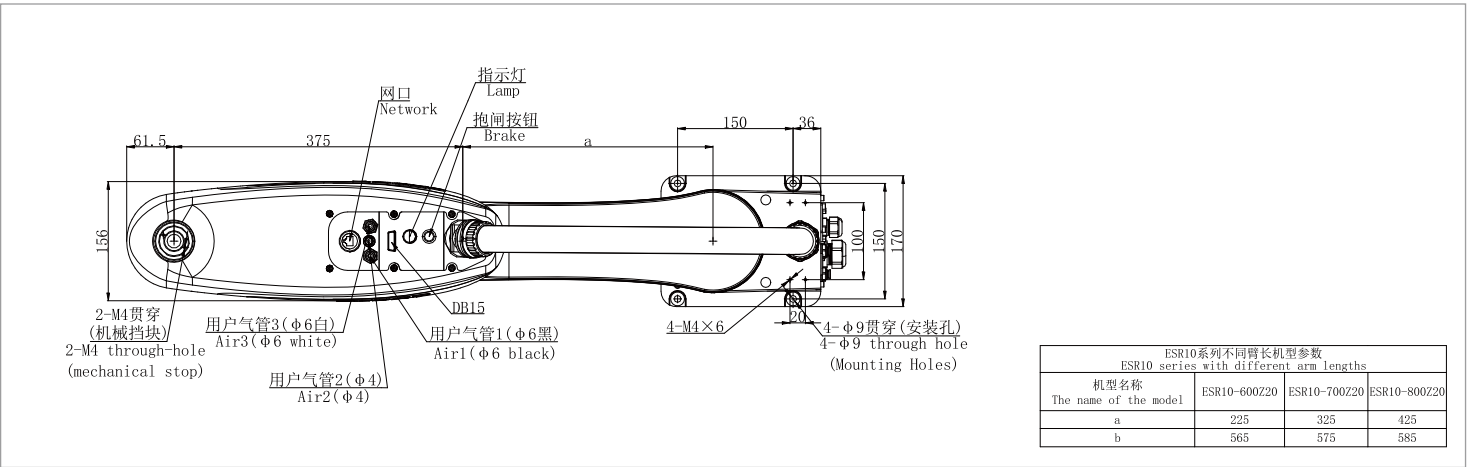
|                                |                     |                                   |
|--------------------------------|---------------------|-----------------------------------|
| Model                          |                     | ESR10-700Z20                      |
| Reach                          |                     | 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·m <sup>2</sup>            |
|                                | Maximum             | 0.3 kg·m <sup>2</sup>             |
| Electric lines                 |                     | D-Sub 15-Pin                      |
| Pneumatic lines                |                     | φ4 mmx1,φ6 mmx2                   |
| J3 downward force              |                     | 200 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.

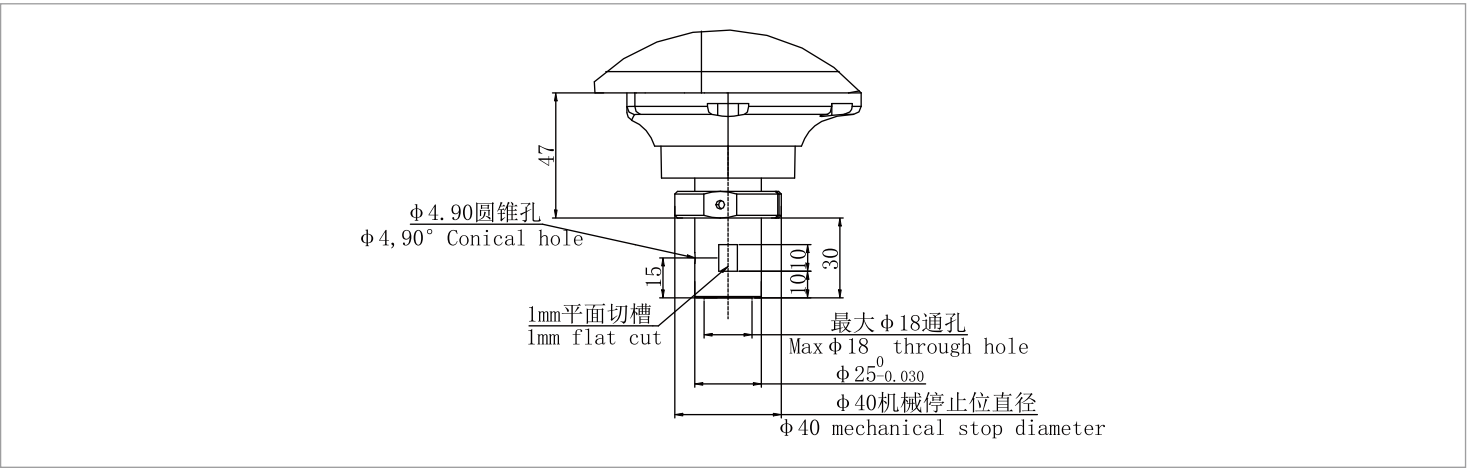
## OPERATING SPACE



## BASE MOUNTING SIZE



## END FLANGE MOUNTING SIZE



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