## **EFORT**

# ESR10-3-550Z15

ESR10-3-550Z15 is a customized SCARA robot specialized in screw driving and dispensing, Maxium payload 10 kg with maxium reach 560.5 mm

Rated

Maximum

J1+J2

J3

J4

J1

J2

J3

J4

J1+J2

J3

J4

Rated

Maximum

#### Highlights

 1. High rhythm and high precision
Tailored for high-speed and high-precision automatic screw locking tasks and adhesive coating

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.

Suitable for industries such as electronic manufacturing, toys, household appliances, instruments, and equipment.

Model

Reach

Robot weight

Standard cycle time

**Electric lines** 

**Pneumatic lines** 

J3 downward force

#### **SPECIFICATIONS**

Max. payload on wrist

Maximum speed

Motion range

Repeatability

J4 allowable moment of inertia



ESR10-3-550Z15

560.5 mm

5 kg

10 kg

24 kg

8320 mm/sec

800 mm/sec

/

±132°

±150°

150 m m

/

±0.025 mm

 $\pm 0.01 \ \text{mm}$ 

/

/

/

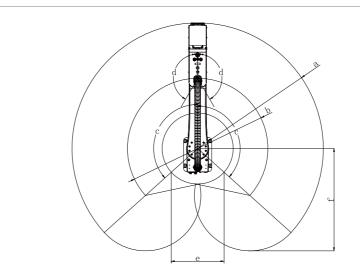
/

D-Sub 15-Pin

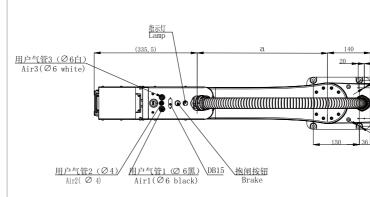
φ4 mmx1,φ6 mmx2

200 N

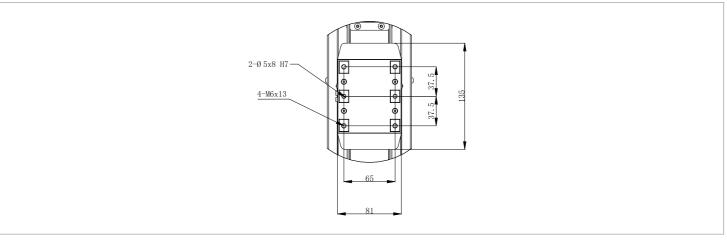
#### **OPERATING SPACE**



### **BASE MOUNTING SIZE**



#### **END FLANGE MOUNTING SIZE**



Information Release Time 2025/04

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Installation Floor Ambient temperature 5~40°C Installation enviroment 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.

ESR10螺丝机系列不同臂长机型运动范围参数 ESR10 screw robot series range of motion parameters for different arm lengths				
机型名称 The name of the model	ESR10-3-750Z15	ESR10-3-650Z15	ESR10-3-550Z15	
a.最大运动范围(mm) a.Maximum range of motion(mm)	760. 5	660.5	560. 5	
b.第1轴臂长(mm) b.lst axis arm length (mm)	425	325	225	
c.第1关节运动范围(') c.Range of motion of the 1st joint(')	132			
d.第2关节运动范围(') d.Range of motion of the 2st joint(')	150			
e.运动范围 e.Range of motion	319.5	268	267.5	
f.后方运动范围 f.Rear range of motion	619.5	553	486	

-09 通 (安装孔) 4-⊘9 through hole Mounting Holes

ESR10螺丝机系列不同臂长机型参数 ESR10 screw robot series with different arm lengths				
机型名称 The name of the model	ESR10-3-750Z15	ESR10-3-650Z15	ESR10-3-550Z15	
a	425	325	225	
b	642.5	586	555.5	