# ER70-1900



# ER70-1900,

Maxium payload 70 kg with maxium reach 1901 mm.

## ■ Highlights

Thanks to the high stiffness structure, with high-speed intelligent palletizing application software, the takt is improved by 20%, bring customers more efficiency:

Multiple specific application software could be integrated, with soft PLC and a variety of field bus interface, which enable customers easily face various application challenges;

High performance collision detection function helps safety realization.

#### Applications

It can be used in grinding, polishing, handling operations, palletizing, etc.

## Industries

Suitable for auto parts, photovoltaic, food and beverage, building materials, logistics and warehousing and other industries.



# EFORT Intelligent Equipment Co., Ltd.

PHONE: (00 86) 400-052-8877

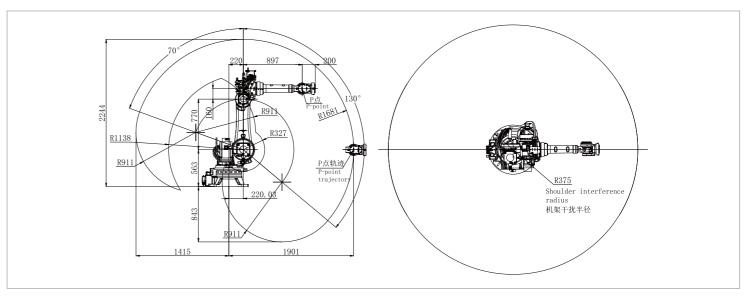
ADDRESS: No.96 East Wanchun Road, China(Anhui) Pilot Free Trade Zone Wuhu Area, Wuhu, Anhui Province, China WWW.EFORT.COM.CN

# **SPECIFICATIONS**

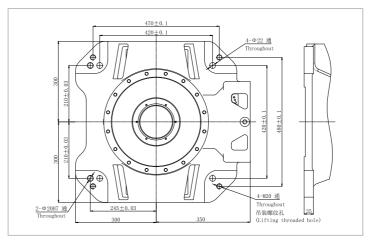
| Type Articulated  Controlled axes 6 Axes  Max. payload on wrist 70 kg  Repeatability ±0.06 mm  Robot weight 545 kg  Reach 1901 mm  Robot IP grade IP54/IP67 (Wrist)  Cabinet IP grade IP54  Drive mode AC servo drive  Installation Floor  Ambient temperature 0~45 °C  Ambient humidity RH≤80% (No dew nor frost allowed)  Vibration acceleration 4.9 m/s² (<0.5 G)  |                       |  |                                   |
|---|-----------------------|--|-----------------------------------|
| Controlled axes  Max. payload on wrist  70 kg  Repeatability  ±0.06 mm  Robot weight  545 kg  Reach  1901 mm  Robot IP grade  IP54/IP67 (Wrist)  Cabinet IP grade  IP54  Drive mode  AC servo drive  Installation  Floor  Ambient temperature  Ambient temperature  Ambient humidity  Vibration  FH ≤ 80% (No dew nor frost allowed)  | Model                 |  | ER70-1900                         |
| Max. payload on wrist  70 kg  Repeatability ±0.06 mm  Robot weight 545 kg  Reach 1901 mm  Robot IP grade IP54/IP67 (Wrist)  Cabinet IP grade IP54  Drive mode AC servo drive  Installation Floor  Ambient temperature 0~45 °C  Ambient humidity RH≤80% (No dew nor frost allowed)  Vibration 4.0 m/s² (<0.5 €)  | Туре                  |  | Articulated                       |
| Repeatability ±0.06 mm  Robot weight 545 kg  Reach 1901 mm  Robot IP grade IP54/IP67 (Wrist)  Cabinet IP grade IP54  Drive mode AC servo drive  Installation Floor  Ambient temperature 0~45 °C  Ambient humidity RH≤80% (No dew nor frost allowed)  Vibration 4.0 m/s² (<0.5 €)  | Controlled axes       |  | 6 Axes                            |
| Robot weight  Reach  1901 mm  1954/IP67 (Wrist)  Cabinet IP grade  IP54  Drive mode  AC servo drive  Installation  Installation  Ambient temperature  Ambient humidity  Vibration  A or 1/2 ( < 0.5.5.)   | Max. payload on wrist |  | 70 kg                             |
| Reach  Robot IP grade  IP54/IP67 (Wrist)  Cabinet IP grade  IP54  Drive mode  AC servo drive  Installation  Floor  Ambient temperature  Ambient humidity  FH≤80% (No dew nor frost allowed)  Vibration  A Drive mode  Accuracy Ambient Accuracy Ambient Accuracy Accura | Repeatability         |  | ±0.06 mm                          |
| Robot IP grade  IP54/IP67 (Wrist)  Cabinet IP grade  IP54  Drive mode  AC servo drive  Installation  Floor  Ambient temperature  Ambient humidity  Vibration  A o m/2 ( < 0.5.5.)   | Robot weight          |  | 545 kg                            |
| Cabinet IP grade  Drive mode  AC servo drive  Installation  Floor  Ambient temperature  Ambient temperature  Ambient humidity  Vibration  A D m /2 ( < 0.5.5.)  | Reach                 |  | 1901 mm                           |
| Drive mode  Installation  Ambient temperature  Installation  Ambient temperature  Ambient humidity  RH≤80% (No dew nor frost allowed)  Vibration  A D m /2 ( < 0.5.5.)  | Robot IP grade        |  | IP54/IP67 (Wrist)                 |
| Installation Floor  Ambient temperature 0~45 °C  Installation enviroment Ambient humidity RH≤80% (No dew nor frost allowed)  Vibration A.O. m./-2 ( < 0.5.5.)   | Cabinet IP grade      |  | IP54                              |
| Ambient temperature 0~45 °C  Installation enviroment  Ambient temperature 0~45 °C  Ambient humidity RH≤80% (No dew nor frost allowed)  Vibration A.O. m./-2 (< 0.5.5.)  | Drive mode            |  | AC servo drive                    |
| Installation enviroment    Complete   Content   Content | Installation          |  | Floor                             |
| enviroment   RH \le 80% (No dew nor frost allowed)  |                       |  | 0~45 °C                           |
|   |                       |  | RH≤80% (No dew nor frost allowed) |
|   |                       |  | 4.9 m/s <sup>2</sup> (<0.5 G)     |

| Allowable load<br>moment at wrist  | J 4 | 182 N·m     |
|------------------------------------|-----|-------------|
|                                    | J5  | 182 N·m     |
|                                    | J6  | 120 N·m     |
|                                    | J 4 | 12.68 kg·m² |
| Allowable load<br>inertia at wrist | J 5 | 12.68 kg·m² |
|                                    | J6  | 10 kg·m²    |
|                                    | J1  | 210°/sec    |
|                                    | J2  | 160°/sec    |
| Maximum speed                      | J3  | 190°/sec    |
| махіпшті эреец                     | J 4 | 310°/sec    |
|                                    | J 5 | 270°/sec    |
|                                    | J6  | 400°/sec    |
|                                    | J1  | ±180°       |
|                                    | J2  | +70°/-130°  |
| Mation range                       | J3  | +175°/-80°  |
| Motion range                       | J 4 | ±360°       |
|                                    | J 5 | ±115°       |
|                                    | J6  | ±450°       |

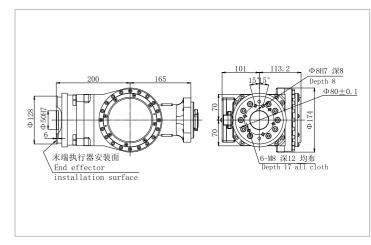
## **OPERATING SPACE**



## **BASE MOUNTING SIZE**



# **END FLANGE MOUNTING SIZE**



Information Release Time 2024/12