

## JA090 Joint motor product introduction



## 1. Product features

- (1) Compact structure: fixed rotor compact structure, built-in encoder and driver;
- (2) Fast response: small moment of inertia, fast dynamic response;
- (3) Precise control: low torque ripple, easy speed control and precise positioning;
- (4) Compact and precise: the outer diameter is only 90mm, with large hollow thread hole, ultra-light weight, effectively ensuring the reasonable dead weight ratio of the robot;
- (5) Out of the box: Joint motor can be used directly to connect the drive manipulator.

## 2. Application scenario

Joint morto can provide multiple degrees of freedom for a variety of machines. Such as bionic robot, collaborative robot, welding robot, exoskeleton robot and other fields, to meet the needs of industry, scientific research, business, medical and other industries,It has widely application, stable quality, large shipment.





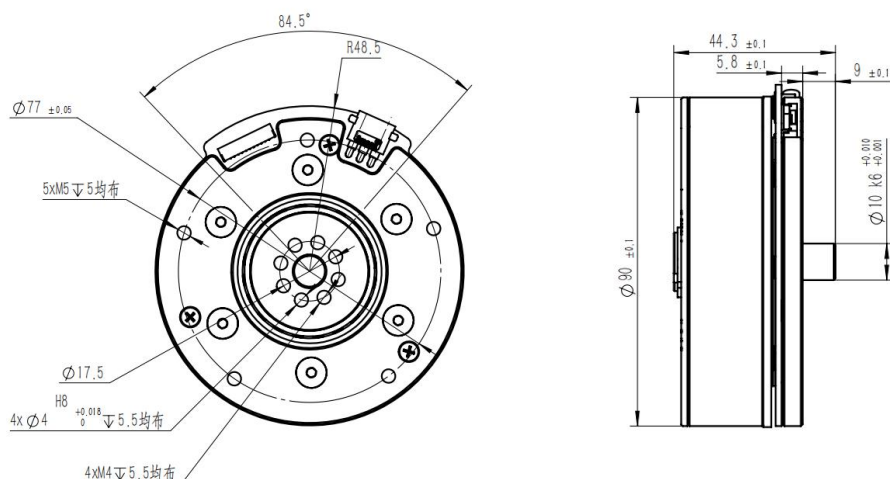
### 3. Parameter table

|   |                          |      |      |      |
|---|--------------------------|------|------|------|
| 1 | rated voltage (VDC)      | 24   | 36   | 48   |
| 2 | no-load revolution (rpm) | 1177 | 1758 | 2354 |
| 3 | no-load current (A)      | 0.27 | 0.36 | 0.39 |
| 4 | rated power (W)          | 108  | 170  | 230  |
| 5 | rated revolution (rpm)   | 934  | 1480 | 2015 |

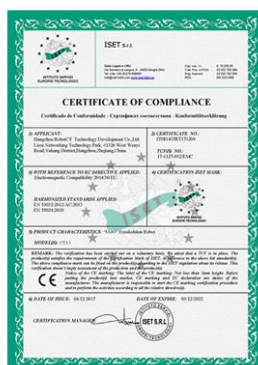
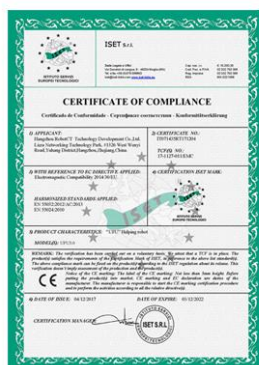
|    |                              |       |       |       |
|----|------------------------------|-------|-------|-------|
| 6  | rated torque (Nm)            | 1.1   | 1.1   | 1.1   |
| 7  | DC side current (A)          | 5.7   | 5.7   | 5.8   |
| 8  | input power (W)              | 128   | 193   | 258   |
| 9  | maximum efficiency (%)       | 84    | 88    | 89    |
| 10 | peak current (A)             | 12    | 12    | 12    |
| 11 | peak torque (Nm)             | 2.5   | 2.5   | 2.0   |
| 12 | peak running time (s)        | 120   | 120   | 120   |
| 13 | wire resistance ( $\Omega$ ) | 0.372 | 0.372 | 0.372 |
| 14 | wire inductance (mH)         | 0.682 | 0.682 | 0.682 |
| 15 | pole number                  | 13    | 13    | 13    |
| 16 | phase number                 | 3     | 3     | 3     |
| 17 | Gear ratio                   | 14.8  | 14.8  | 14.8  |

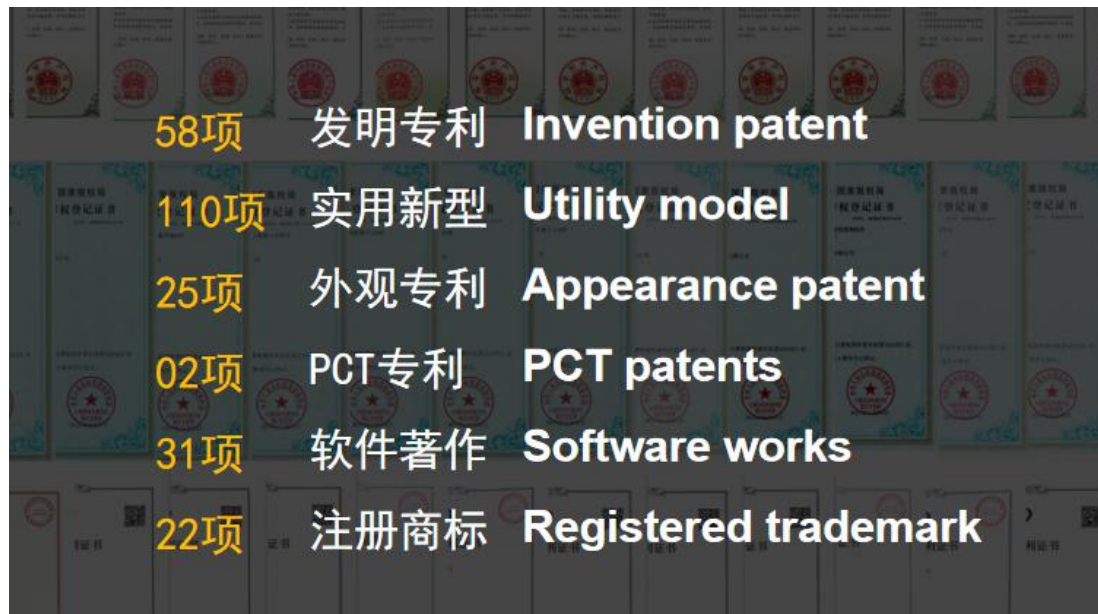
The above parameters are for reference only. Our product technology is constantly updated and upgraded, and we also accept customers' customization and development.

## 4. Product details



## 5. Factory and Qualification





## 6. After-sales service

- 1、 All the products produced by our company, our company can provide installation, debugging, and technical training.
- 2、 After installation and commissioning, the quality warranty is one year (except for wearing parts and man-made damage),We provide maintenance throughout the whole life cycle.
- 3、 Carry out field maintenance, field operation and technical training from time to time.
- 4、 After-sale contact information:+86-0571-89167832。
- 5、 Service content: If the equipment is out of order, first communicate by telephone. If the problem cannot be solved, our company will come to the site to solve the problem as soon as possible. After-sales service includes not only equipment maintenance but also technical support. Our technicians can conduct on-site technical training and provide a complete set of solutions. Professional technical

personnel at any time to follow the user's use of equipment.