

CTM300 series Mecanum Wheel Module

Product Introduction



Based on the traditional omni-directional mecanum wheel, RoboCT mecanum wheel module integrates hub motor, encoder and special shock absorption system, which has a higher degree of compactness and flexibility. It is a new generation of omni-directional mobile wheel group. The omni-directional motion equipment based on mecanum wheel technology can realize forward, horizontal, oblique, rotation and combination of motion modes, which has significant adaptability and wide application in the scene of limited transfer space and narrow operation channel.

1、 Product features

- Omnidirectional movement, zero radius rotation, flexible posture;
- Support a variety of sports;
- Integrated hub motor, encoder, compact structure, high space utilization;
- Integrated design, simple installation;
- High performance, high precision;
- Support customization.

2、 Application scenario

Mecanum wheel module can be applied to mobile robots, warehousing and logistics robots, AGV, AMR, intelligent parking equipment, general robots and other fields, to meet the needs of different industries such as industry, scientific research, commerce, medical treatment, etc., with a wide range of applications, stable quality and large shipment.

3、 Parameter table

| Parameter | CTM300-7 | CTM300-7R |
|-----------------------------------|--------------------------------------|--------------------------------------|
| Pay load (A set with four wheels) | 200kg | 300kg |
| Peak payload | 300kg | 400kg |
| dimension | 180mm*78mm (without shock absorbers) | 180mm*78mm (without shock absorbers) |
| Net Weight | 5kg | 5kg |

| | | | |
|------------------------|---------------|-------------------|-------------------|
| Roller quantity | | 12 | 12 |
| Configuration | | 45-degree level | 45-degree level |
| Motor | Peak torque | 11N.m | 30N.m |
| | Rating torque | 7N.m | 16N.m |
| Output revolving speed | | 150r/m | 100r/m |
| Voltage | | DC 24V | DC 48V |
| Motor power | | 200W | 200W |
| ambient temperature | | -20°C-70°C | -20°C-70°C |
| Protection level | | Ip44 | Ip44 |
| Hall | | yes | yes |
| Encoder | | Increment encoder | Increment encoder |
| Resolution ratio | | 4096 | 4096 |

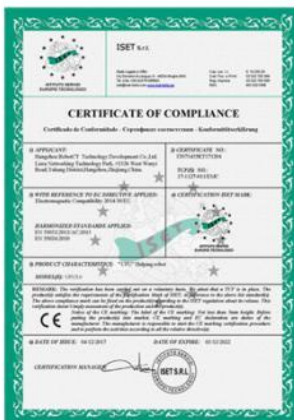
The above parameters are for reference only. Our product technology is constantly updated and upgraded. At the same time, we also accept the customization and development of customers.

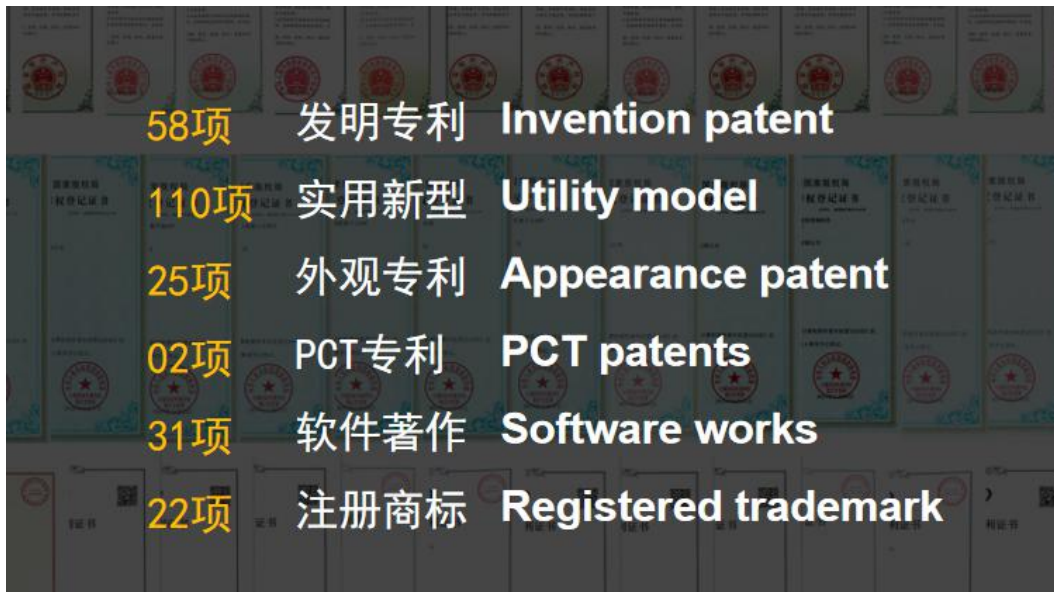
4、Product details





5、Factory and qualification





6、 After sales service

1. Our company can provide installation, debugging and technical training for all our products.
2. After the installation and commissioning, the warranty period is one year (except for vulnerable parts and artificial damage), with a lifetime warranty.
3. Irregular on-site maintenance, on-site operation and technical training.
4. After sales contact: +86-571-28076520-2.
5. Service content: in case of equipment failure, first communicate by phone. If the problem cannot be solved, our company will rush to the site as soon as possible to solve the problem. After sales service includes not only equipment maintenance, but also technical support. Our technicians can carry out on-site technical training and provide a complete set of solutions. Professional and technical personnel shall follow up the use of user's equipment at any time.