

Qualified and trustworthy  
Believe in the power of brands

CERTIFICATIONS



Certification



ISO 9001  
Quality Management  
System Certification



ISO13485  
Medical device quality management  
system certification



ISO14001  
Environmental management  
system certification



ISO45001  
Occupational health and safety  
management system certification



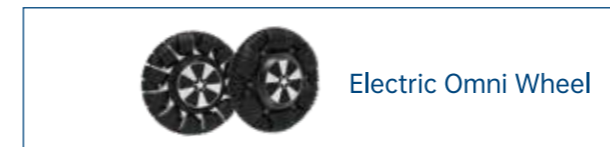
RoHS  
Environmental  
standard certification

PATENT CERTIFICATE



Obtained more than 30 invention patents and new patents

Robot special wheel  
parameter configuration



Parameter	8 inches	10 inches
Wheel diameter	210mm	260 mm
Caster width	39.5mm	65mm
Wheel material	TPU / TPR	
Rated power	180W	
Rated torque	10 N.m	
Rated current	≤15 A	
Max torque	13 N.m	
Magnetic coding lines	4096	
Rated voltage	24V	
Voltage range	20-36V	
Working environment	-20/+50°C	
Max current	20 A	
Rated speed	200 rpm	220 rpm
Load bearing	80kg	100kg



Parameter	5 inches	6 inches	8 inches	10 inches	12 inches
Wheel diameter	127mm	160mm	210mm	260mm	316mm
Caster width	38.5mm	53mm	57.5mm	72.5mm	74mm
Weight	0.6kg	0.9kg	1.7kg	3.56kg	5.75kg
Wheel material	TPU / Rubber				
Working environment	-30°C / +80°C				
Static Load Capacity	50kg	70kg	90kg	100kg	120kg
Dynamic Load Capacity	30kg	45kg	60kg	80kg	90kg
Walking mileage	1000km	1500km	2000km	3000km	5000km
Over obstacle height	3mm	4mm	6mm	12mm	12mm



Parameter	Rated voltage	Voltage range	Temperature rise	Operating environment	Magnetic coding lines	Brake method
hub motor	24V	20-36V	≤60°C	-20/+50°C	4096 lines	Electronic brake
Parameter	Wheel diameter	Caster width	Thickness	Max power	Rated torque	Rated current
5.5 inches	131mm	39mm	63mm	120W	4.5 N.m	≤10A
6.5 inches	167mm	45mm	64mm	180W	10 N.m	≤15A
8 inches	196mm	48mm	82mm	180W	10 N.m	≤15A
Parameter	Max current	Max torque	Number of magnetic grade lines	Output shaft length	Rated speed	Load bearing
5.5 inches	17A	7 N.m	20	50mm	200 RPM	80kg
6.5 inches	20A	13 N.m	30	54mm	220 RPM	100kg
8 inches	20A	13 N.m	30	54mm	220 RPM	120kg



Driver	Parameter
Working voltage range	DC20V~55V
Max working current	15A x 2 (Two way)
Communication interface	RS232 / CAN / 485
Motor	FOC
Working environment	-20 / +50°C
Product size	159*106*56mm
Max power	350W x2 / 24V 400W x2 / 36V 450W x2 / 48V
Protective function	Overcurrent protection Overvoltage protection Overheating protection Overload protection



ROBOT-SPECIFIC WHEELS  
CHOOSE  
THE TECHNOLOGY-LEADING  
ANGELLUN



YTK CO.,LTD.  
info@ytk-group.co.jp  
Http://www.ytk-group.co.jp



Adopt multiple large and small size wheels structure, flexible movement in horizontal and vertical, bringing smooth moving experience, rotate freely 360° in narrow space, the wheel with cross-slot design. With great grip and climbing performance, built-in shock absorption system and wear-resistant elastic polymer materials, enjoy a smooth and seamless ride.

**Specialty Robots**

[Http://www.ytk-group.co.jp](http://www.ytk-group.co.jp)

**High-end Robot Caster Brands**  
**Intelligent Technology Benchmarking**

Angellun is a mobile specialized wheel for high-end intelligent robots, is a wholly-owned subsidiary of Fujian Secure Medical Technology Co., Ltd. (New Third Board: 832060), dedicated to providing mobile drive technology solutions for intelligent robots. Adhering to the technology concept from passive to active drive, Angellun independently develops and produces a variety of high-end robot moving wheels, it not only obtains multiple certifications at home and abroad in terms of performance, material, mobility requirements, appearance design and safety, but also wins the favor of many international famous brands and intelligent robotics companies with its humanized design, superb craftsmanship, beautiful wheel shape and reliable quality, its self-developed high-tech caster products with a number of patented technologies are widely used in the field of intelligent robotics, has become the benchmark of intelligent technology.

**Source factory integrating production and R&D**  
**Quality control is guaranteed**

- 6 Semi-Automated Production Lines
- More than 30 Factory Inspection Processes
- More than 200 Injection Molds
- More than 300 Machines and Equipment
- More than 30 Patent Certifications

**EOW** electric omni wheels + **OW** omni wheel series + Drive

New definition for mobile New life for healthcare



**Logistic Delivery Robot**

Adopt multiple large and small size wheels structure, flexible movement in horizontal and vertical, bringing smooth moving experience, rotate freely 360° in narrow space, the wheel with cross-slot design. With great grip and climbing performance, built-in shock absorption system and wear-resistant elastic polymer materials, enjoy a smooth and seamless ride. High power and high torque direct drive motor, maximum loading up to 100kg, customized services are available.

**OW** omni wheel series + Hub motor + Driver

Easily adapt to multiple application scenarios



**Intelligent Assisted Walking Equipment**

Each omni wheel consists of 24 alternating sub-wheels, made of gel rubber material, multi-point distributed, resulting in a smaller movement misalignment gap. The wheels run smoothly without any lag, shock-absorbing and cushioning, silent and anti-entanglement, it can achieve rotation in place with a radius of only 80cm. Flexible steering in tight spaces, easy to move in and out.

**Commercial service robot**



The omni wheel is equipped with precision bearings, low noise and smooth operation. It comes with a wire stripper to avoid the problem of hair entanglement. The hub motor has a shaft on one side, can rotate forward and reverse, and the speed is adjustable. The wheel motor adopts brushless DC motor, which has no sparks and long service life. The tread is wear-resistant and shock-proof, silent, traceless, safe and reliable. Equipped with 1400/4096-line high-precision magnetic encoder, it has precise control and outstanding performance, and can support customized services.

**Universal wheels/Over-barrier casters + Hub motor + Driver**

Easily overcome obstacles Move as you wish

**Twin universal wheels / Central control casters + Hub motor + Drive**

Low speed and high torsion Wear-resistant and traceless Silent and anti-corrosion



**Medical service robot**

Made of metal material, the twin casters have large bearing capacity, strong impact resistance, obstacle-free, easy to cross over 15MM high step. The wheel motor adopts brushless DC motor, which has low noise, no sparks and long service life. The tread is made of rubber or TPU, which is wear-resistant and shock-proof, silent and traceless, safe and reliable. Equipped with 1400/4096-line high-precision magnetic encoder, it has high stability, strong anti-interference ability, and can support customized services.