RotonTEK

Low Noise Motor Transmission Solution



Rotontek Low-Noise Electric drive Axle

Rotontek Low Noise Electric drive Axle

2026

LOW NOISE

Rotontek Low Noise Electric drive Axle

www.rotontek.com



COMPANY PROFILE

Rotontek Intelligent was established in July 2008. It is an innovative high-tech enterprise focusing on independent research and development and production. With motor control, intelligent manufacturing and other technologies as the core, it is committed to electric screw jacks, motor transmission solutions, and electro-hydraulic pump system, intelligent aging products and other series. The products are widely used in tourism RVs, recreational vehicles, logistics, cleaning, unmanned boats, rehabilitation, fitness equipment and other industries.Continuously provide innovative solutions to our customers.

Is headquartered in Zhongshan City, with R & D centers and production bases in Guangzhou, Guilin and Taishan. At present, there are more than 200 employees, and more than 50% scientific and technological personnel. Company has 4 invention patents, more than 50 utility models and 10 appearance patents,and 11 provincial-level high-tech products. It is the industry-university-research cooperation base of Zhuhai College of Beijing Institute of Technology,Guilin University Of Electronic Technology and Zhongshan Polytechnic etc..

In 2021, we were awarded as a national “Specialized and Special New” Little Giant; we have exclusive technological and market advantages in the segment of motor transmission system and electro-hydraulic systems

We always take “intelligent technology to help a better life” as our mission, pay attention to customer needs and create customer value continuously.

200+
200 professional staff

ISO
Quality System Certification

46455㎡
Single storey area 5270m²

COMPANY ADVANTAGES

- **50+ Excellent engineers team**
  20+ technical patents, strong technical strength, and Short Development Period.
- **50+ US/Germany imported advanced CNC processing equipment**
  Strong processing ability, high product accuracy and stable quality,short production and processing cycle, fast batch delivery.
- **Automated production equipment and facilities**
  Motor automatic production line, CNC machining manipulator, welding robot, etc., high efficiency and low cost.
- **Perfect quality management monitoring system**
  Passed the ISO quality management system certification,with three coordinates, twodimensional space , gear comprehensive tester, Advanced testing equipment such as dynamometer and motor comprehensive testing.



Products & Application

Match our products by application.We provide transaxle and gearbox solutions for a variety of professional applications.

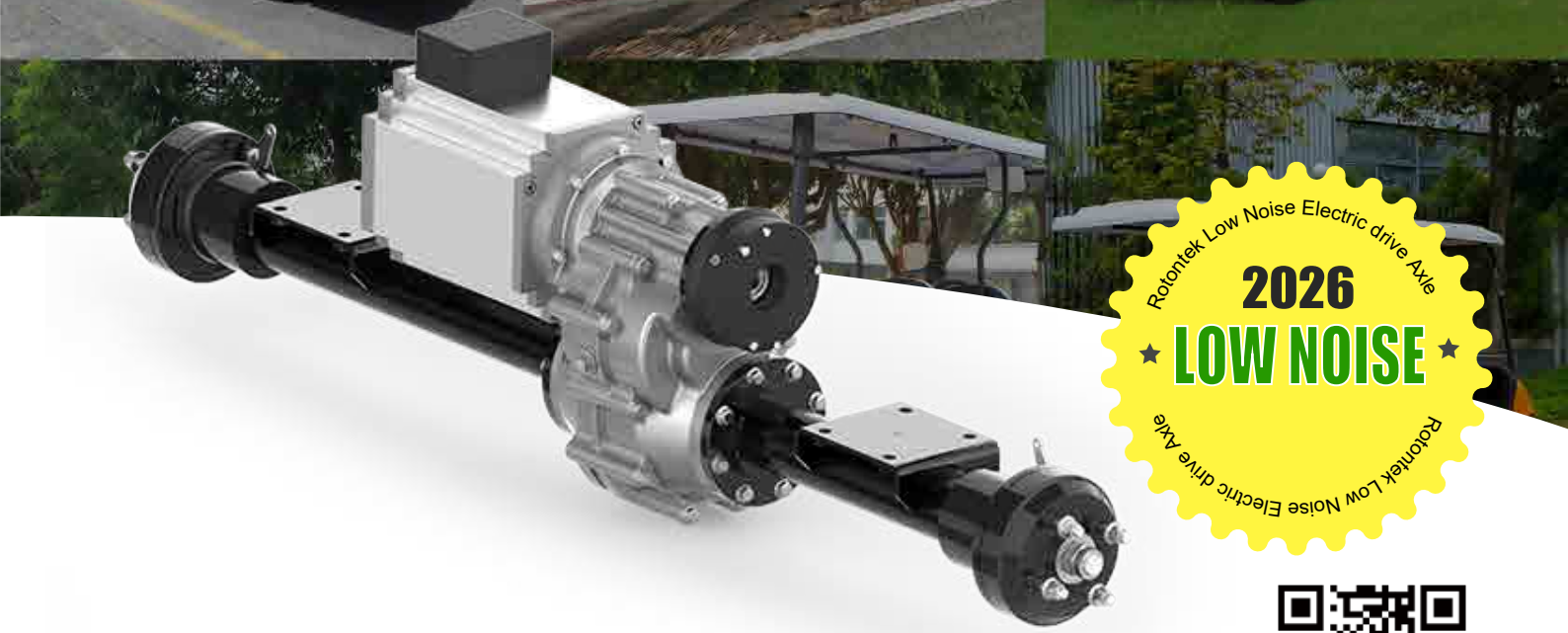


RotonTEK

Low Noise Motor Transmission Solution

Transaxle and PMSM Hub Motor for Hurban mobility

Rotontek Low-Noise Electric drive Axle
All gear made by forged alloy steel Fine tooth grinding
Making your driving quieter and more comfortable



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2026
★ LOW NOISE ★
Rotontek Low Noise Electric drive Axle

Youtube

Quietness is a result due to quality material precision process

Alloy steel gears with level 6 precision



Brushless Motor Independent R&D and production



Motor control Independent R&D and production



The noise of LD62 series transaxle 54dB, but the compared to more than 68dB. LD62 High transmission efficiency and stable operation. Integrated brake in one, small and beautiful, easy to install.



LD62-823 3000/4000/5000



LD62-887 3000/4000/5000

Model	Rated voltage	Rated power	Transmission ratio	Motor efficiency	Motor diameter	Electromagnetic brake	Noise
LD62-823 LD62-887	DC 48-72V	3000W 4000W 5000W	1: 10.42 1: 12.79 1: 16	92%	Ø176	25Nm 46Nm	≤54dB

11KW-20KW Permanent Magnet Transaxle



The layout is compact, the overall rigidity is strong, and the gears are made of special materials and advanced technology; they have higher precision and strength, lower noise, wear-resistant tooth surfaces, and longer life.The transmission efficiency of the gear is higher and powerful. Has a strong climbing ability. It is safer and more reliable to configure hydraulic drum brakes.
Applicable occasions: Suitable for golf carts, patrol cars, sightseeing cars and other electric vehicles.

Model	Rated voltage	Rated power	Transmission ratio	No-load speed	Rated torque	Motor efficiency	Motor profile	Electromagnetic brake	Noise
ND72-1-22	DC 48V~72V AC 48V~72V	11KW	1:22	272RPM	539Nm	85%	220x220	46Nm	≤72dB

Low-noise AC/PMSM motor drum brake/disc brake drive axle ND520 series



ND520
drum brake



ND520
disc brake

Model	Rated voltage	Rated power	Gearbox reduction ratio	Rated speed	Sensor Type	Noise	Maximum load weight	Shaft length
ND520 drum brake	DC 48V~72V AC 48V~72V	3KW/4KW 5KW/7.5KW	1:12.79/1:16	3000RPM	Pulse encoder Electromagnetic encoder Rotary transformer	≤60	1000KG	Customizable on demand

Model	Rated voltage	Rated power	Gearbox reduction ratio	Rated speed	Sensor Type	Noise	Maximum load weight	Shaft length
ND520 disc brake	DC 48V~72V AC 48V~72V	3KW/4KW 5KW/7.5KW	1:12.79/1:16	3000RPM	Pulse encoder Electromagnetic encoder Rotary transformer	≤60	1000KG	Customizable on demand

3000W 9-inch PMSM electric hub motor



Model	Motor type	Motor voltage	Rated power	Rated speed	IP Rating	Class	Noise
LQM98A	PMSM	DC48V 72V	3000W	460	IP67	F	≤60

Accessories

SHOCK ABSORBER	LEAF SPRING	U BOLT	SHACKLE PLATE	SHOULDER BOLT	SPACER	FLANGED BUSHING
						

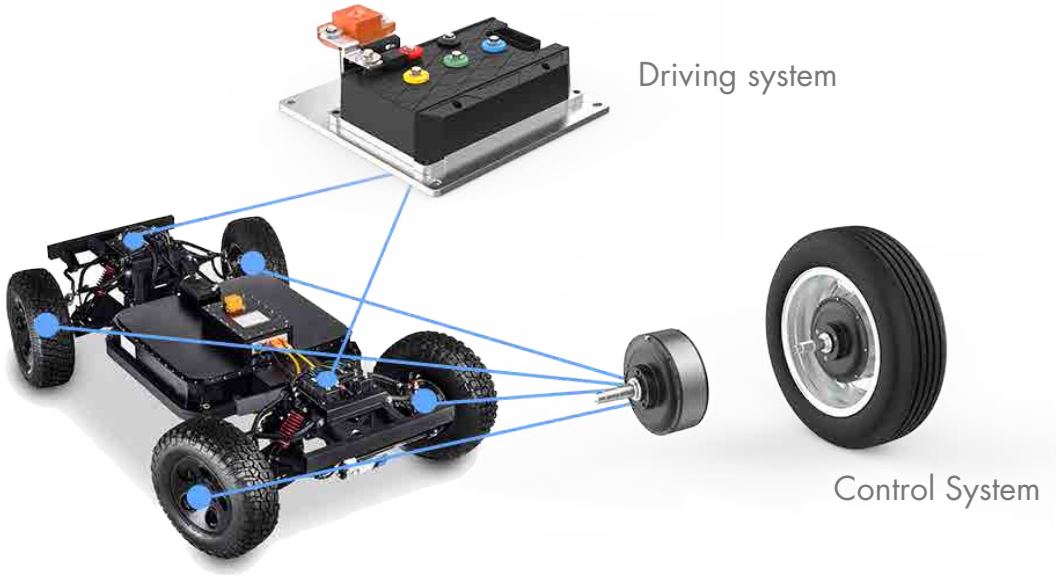
ID600 Drive Controller Permanent magnet motor and AC motor can be controlled



ID600

Model	Rated voltage	Continuous current	Peak current	Motor sensor type	Size
ID600-2300 ID600-2500 ID600-4300 ID600-4500 ID600-6500	24V 36-48V	100A 175A	200A 350A	Hall A/B incremental encoder SIN/COS communication	260x260x106mm

Control system and drive system solutions



Control system and drive system solutions



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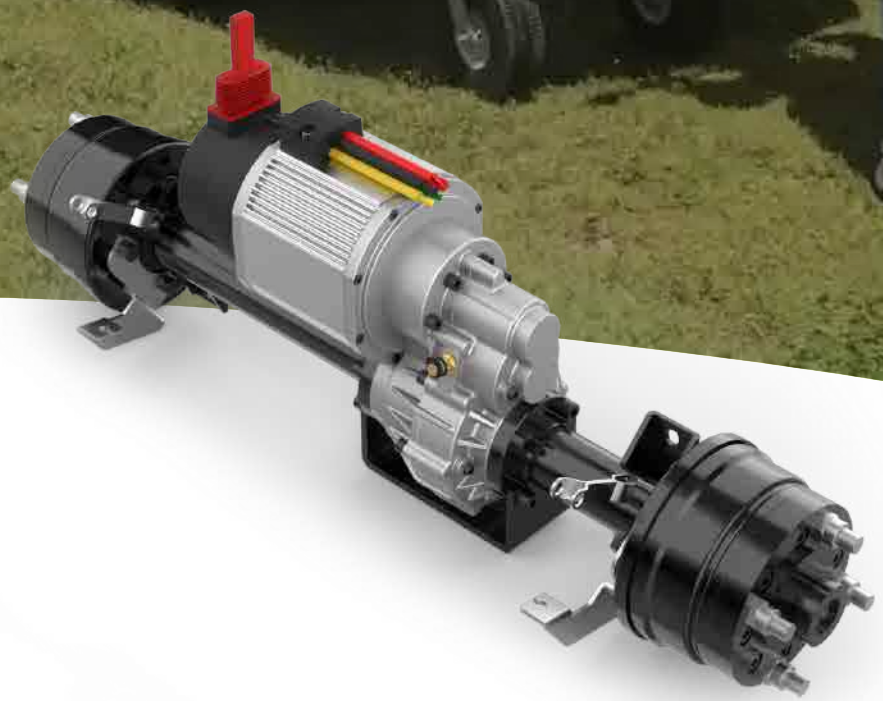
19 Renqian Road, Sanxiang Town, Zhongshan City, Guangdong Province, China

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Transaxle for Electric dollys

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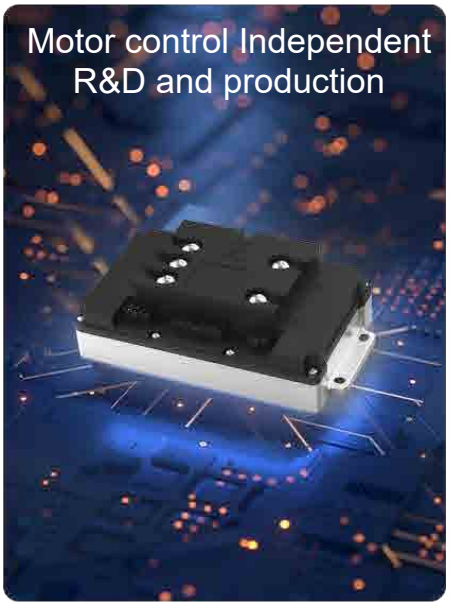
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Youtube

Quietness is a result due to quality material precision process







BLDC Electric Transaxle



ND42-1-43.9G
Brushless Motor

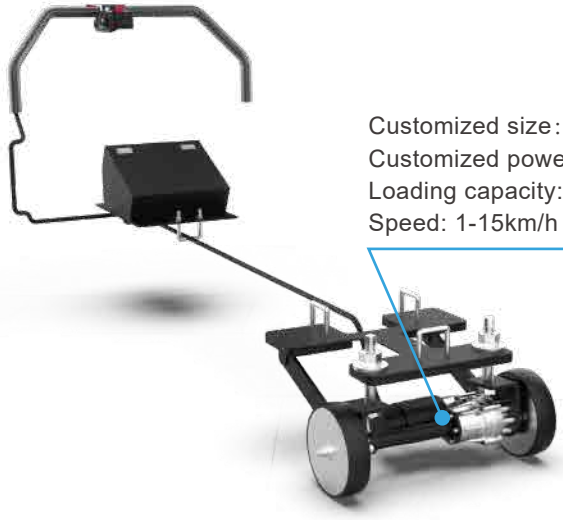


ND42-1-43.9Q
full floating axle

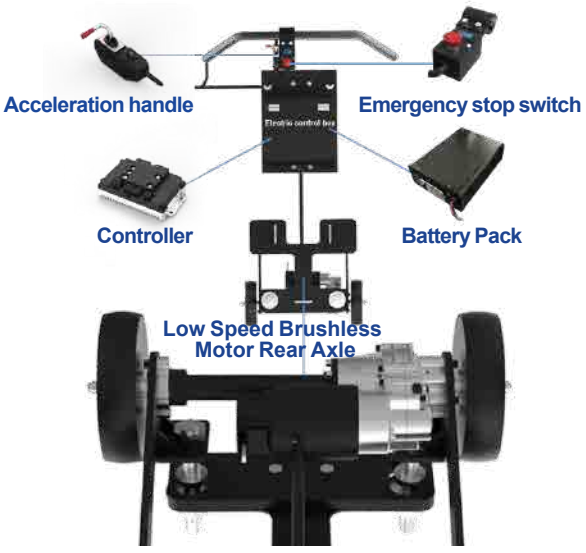
Rated voltage	Rated power	Transmission ratio	No-load speed	Rated torque	Motor efficiency	Motor diameter	Electromagnetic brake	Noise
DC 24V DC 48V	800W	1:43.9 1:26.35	80r/min 135r/m	102.7N.m 57.9N.m	85.34% 89.67%	Ø95.8	6Nm	≤62dB
	1000W		93r/min 180r/m	93.9 Nm 61.66N.m	85 . 34% 84.64%	Ø95.8	6Nm	
	1500W		100r/min 150r/m	139 N.m 82.53N.m	91.4% 91.47%	Ø115.4	10Nm	

Rated voltage	Rated power	Transmission ratio	No-load speed	Motor efficiency	Motor diameter	Electromagnetic brake	Carrying capacity	Noise
DC 24V DC 48V	800W-1500W	26.36 36 43.9	70-150RPM	90%	Ø116	6N.m 10N.m	1T	≤62dB

Electric dolly power drive assembly



Customized size: 30cm-150cm
Customized power: 120W-5000W
Loading capacity: between 100kg-10T
Speed: 1-15km/h optional





ND420B 800 1300

Rated voltage	Rated power	Transmission ratio	No-load speed	Motor efficiency	Motor diameter	Electromagnetic brake	Motor Type	Noise
DC 36V-48V	800W 1300W	1: 43.9	100 RPM 95 RPM	79-86% 80%	Ø90 Ø120	6Nm 10Nm	Brushed	≤62dB

Drive Controller

300-800W DC Permanent Magnet Brushless Controller



ID200

Rated voltage	Continuous current	Peak current	CAN/SCI communication	Size
DC 24V/36V/48V	60 min[1] 30A 1 min[2] 60A	10 sec 75A	YES	165x96x46mm

2KW DC Permanent Magnet Brushless Controller

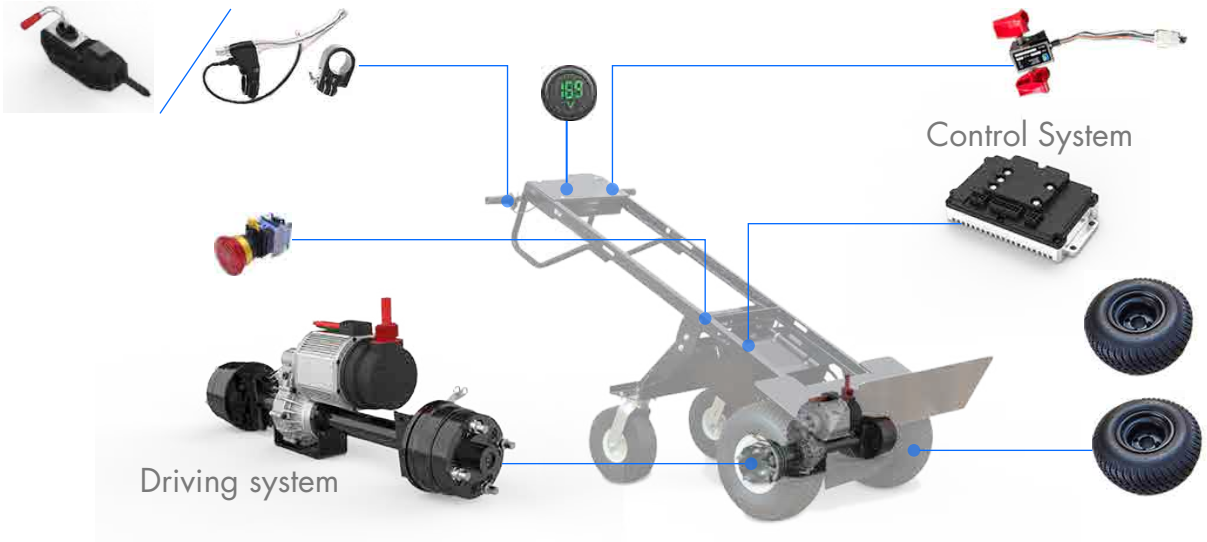


Rated voltage	Continuous current	Peak current	CAN/SCI communication	Size
DC 24V/36V/48V	60 min[1] 60A 1 min[2] 100A	10 sec 140A	YES	189x102x54mm

Accessories

Wheel	Emergency Switch	Accelerator Handle	Waterproof Switch	Brake Handle	Voltage Indicator
					

Electric dollys Control System and Drive System Solution



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Transaxle for Electric Tugs

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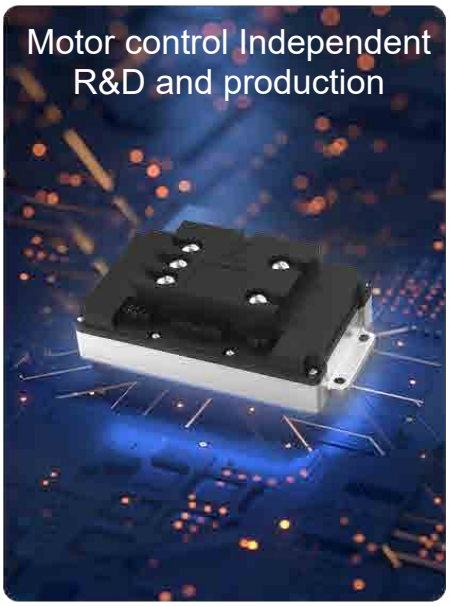
P3

Youtube

Quietness is a result due to quality material precision process







Electric Transaxle



ND122

Rated voltage	Rated power	Transmission ratio	Rated speed	Sensor Type	Motor type	Maximum load weight	Noise
DC24V-48V	150W 250W 300W	1: 21.7	3000RPM 4000RPM	Hall/Inductive Encoders	BLDC	150kg	≤55dB



ND121

Rated voltage	Rated power	Transmission ratio	Rated speed	Sensor Type	Motor type	Maximum load weight	Noise
DC24V-48V	250W 500W 800W	1: 21 1: 33.2	3000RPM 4000RPM	Hall/Inductive Encoders	BLDC	200kg	≤55dB



ND532 2.5- 7.5KW

Rated voltage	Rated power	Transmission ratio	Rated speed	Sensor Type	Motor type	Maximum load weight	Noise
DC24V DC48V DC72V	2.5KW/3KW/4KW 5KW/7.5KW	1:45.33 1:80.9	3000RPM	Pulse encoder Electromagnetic encoder Rotary transformer	AC /PMSM	1500kg semi-floating 3000kg fully floating	≤60dB



ND53 2.5- 7.5KW

Rated voltage	Rated power	Transmission ratio	Rated speed	Sensor Type	Motor type	Maximum load weight	Noise
DC24V DC48V DC72V	2.5KW/3KW/4KW 5KW/7.5KW	1:45.33 1:80.9	3000RPM	Pulse encoder Electromagnetic encoder Rotary transformer	AC /PMSM	1500kg semi-floating 3000kg fully floating	≤60dB



ND422 1.8KW 3KW

Rated voltage	Rated power	Transmission ratio	Rated speed	Sensor Type	Motor type	Maximum load weight	Noise
DC24V DC48V DC72V	1.8KW/2.2KW/3KW	41.45:1	3000RPM	Hall effect Inductive encoder Pulse encoder	BLDC / AC	1000KG	≤60dB

500W BLDC Transaxle



500W series inline transaxle consists of DC permanent magnet brush motor and differential. It uses alloy steel hardened gears, which last 5 times longer than powder metallurgy gears and have a low noise is as low as 54dB.

Model	Rated voltage	Rated power	Transmission ratio	No-load speed	Rated torque	Motor efficiency	Motor diameter	Electromagnetic brake	Noise	Motor type
ND22-2-21	DC 24V DC 24V	500W	1: 21 1: 36	219 RPM 127 RPM	27 Nm 46.8 Nm	72% 76%	Ø97 Ø97	1.3Nm 1.3Nm	≤54 ≤54	brushed brushless

800W BLDC Transaxle



The differential of the ND42-1-43.9G 800W transaxle adopts two-stage transmission, which has the advantages of low speed and large output torque. It adopts alloy steel hard tooth surface gear, which has longer service life and lower noise than powder metallurgy gear.

Model	Rated voltage	Rated power	Transmission ratio	No-load speed	Rated torque	Motor efficiency	Motor diameter	Electromagnetic brake	Noise	Motor type
ND42-1-43.9G	DC 24V DC 48V	800W	43.9 26.35	80r/min 135r/m	102.7N.m 57.9N.m	85.34% 89.67%	Ø95.8 Ø95.8	6Nm 6Nm	≤62 ≤62	brushless
		1000W	43.9 26.35	93r/min 180r/m	93.9 Nm 61.66N.m	85 . 34% 84.64%	Ø95.8 Ø95.8	6Nm 6Nm	≤62 ≤62	brushless
		1500W	43.9 26.35	100r/min 150r/m	139 N.m 82.53N.m	91.4% 91.47%	Ø115.4 Ø115.4	10Nm 10Nm	≤62 ≤62	brushless

2200W-7500W BLDC Transaxle



The layout is compact, the overall rigidity is strong, and the gears are made of special materials and advanced technology; they have higher precision and strength, lower noise, wear-resistant tooth surfaces, and longer life. The transmission efficiency of the gear is higher. High torque at low speed, strong power.
Applicable occasions: It is widely used in high-power and low-speed applications, such as construction, agriculture, cleaning, material handling and other industries.

Model	Rated voltage	Rated power	Transmission ratio	No-load speed	Rated torque	Motor efficiency	Motor diameter	Electromagnetic brake	Noise
ND53-1-80.9	AC 24V AC 48V	2500W	i=80.9	65RPM	843.7N.m	77.89%	Ø175	15Nm	≤62
		2200W	i=80.9	65RPM	752.3N.m	64.67%	Ø150	15Nm	≤62
		3000W	i=80.9	65RPM	776.6N.m	79.4%	Ø155	25Nm	≤62
		5000W	i=80.9	65RPM	1520.9N.m	79.4%	Ø175	25Nm	≤62
		7500W	i=80.9	65RPM	2386.5N.m	88.87%	Ø175	46Nm	≤62

ID200 Drive Controller



ID200

- This product uses a flight controller to control the electric wheelchair, making it more flexible and convenient to operate.
- Advanced motor control algorithms and complete vehicle control algorithms for improved comfort and safety.
- The intelligent brakes ensure that the electric wheelchair is safer and more comfortable to drive in all situations.



ID200-2kw

Model	Rated voltage	Continuous current	Peak current	CAN/SCI communication	Size
ID200	DC24V/36V/48V	60 min[1] 30A 1 min[2] 60A	10 sec 75A	Yes	165x96x46mm
ID200-2150	DC24V/36V/48V	1 min[2] 100A	10 sec 140A	Yes	189x102x54mm
ID200-3150	DC24V/36V/48V	1 min[2] 100A	10 sec 140A	Yes	189x102x54mm
ID200-4200	DC24V/36V/48V	1 min[2] 100A	10 sec 140A	Yes	189x102x54mm

ID600 Drive Controller Permanent magnet motor and AC motor can be controlled

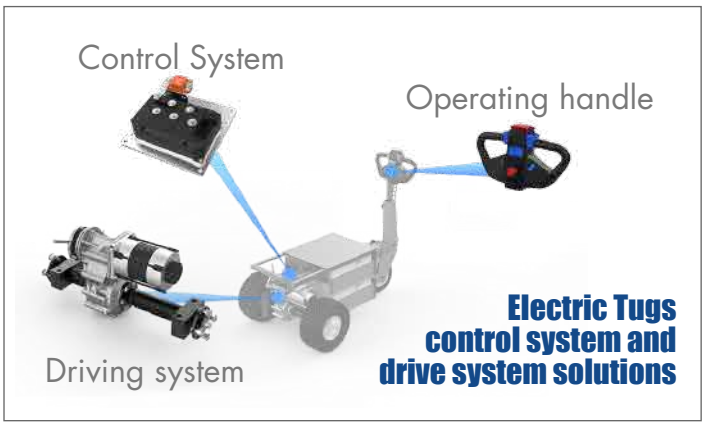


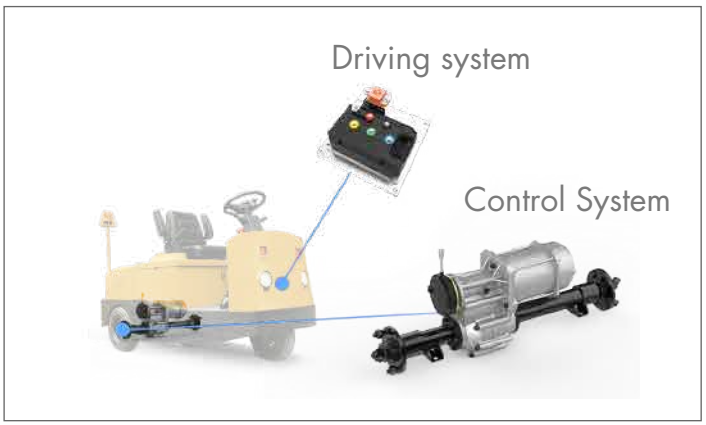
ID600

Model	Rated voltage	Continuous current	Peak current	Motor sensor type	Size
ID600-2300 ID600-2500 ID600-4300 ID600-4500 ID600-6500	24V 36-48V	100A 175A	200A 350A	Hall A/B incremental encoder SIN/COS communication	260x260x106mm

Accessories

Tiller head	Wheel			
				





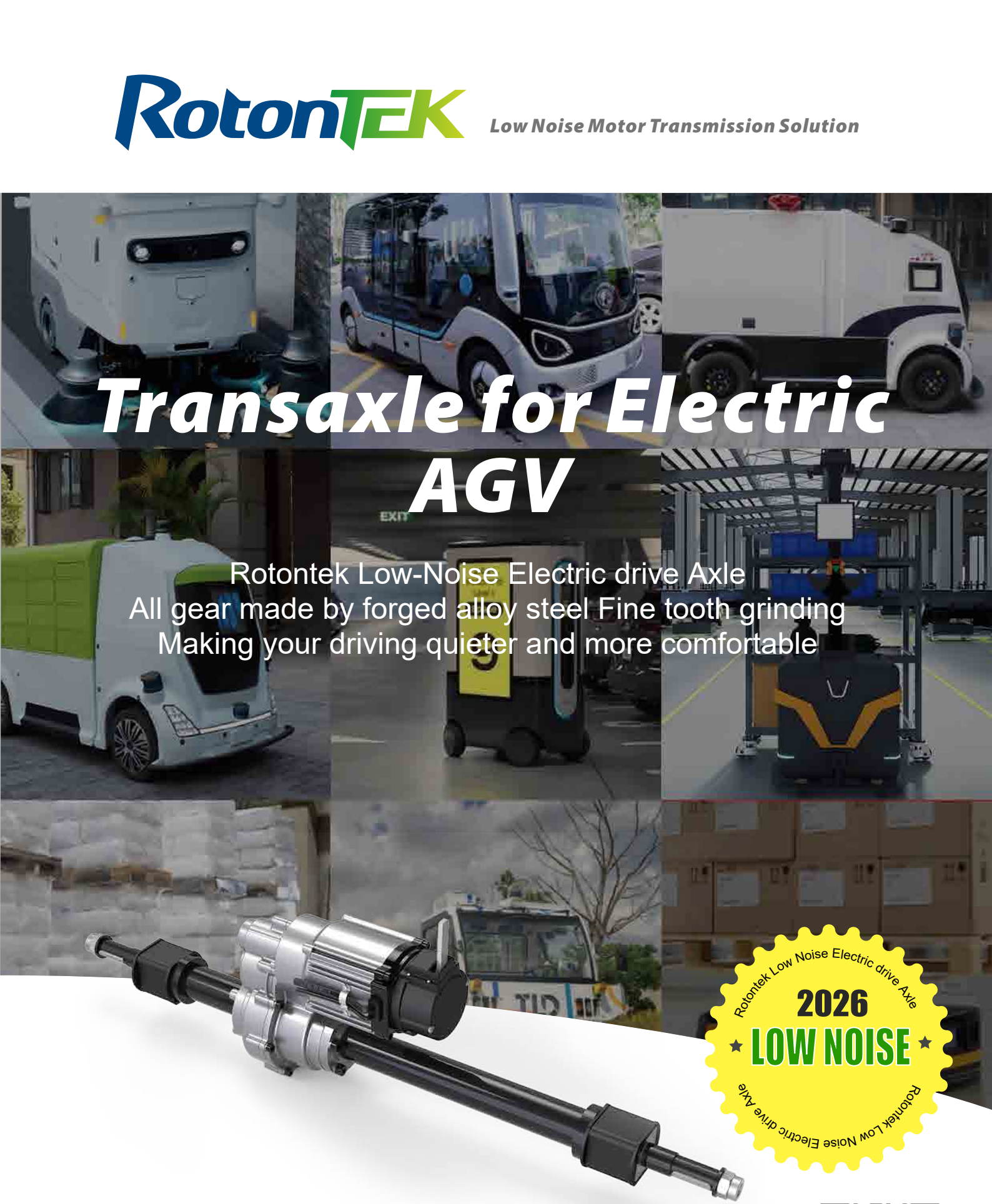
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Transaxle for Electric AGV

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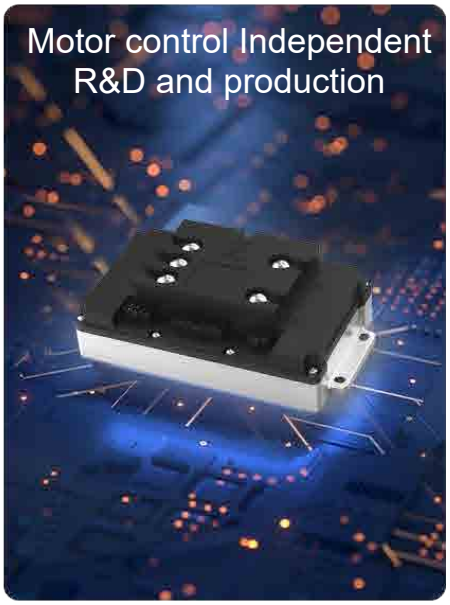
P4

Youtube

Quietness is a result due to quality material precision process







This series of products adopts an optimized differential structure and has multiple patents. At the same time, it is made of special materials and advanced technology, and has the characteristics of strong overall rigidity, high precision, low noise, strong tooth surface wear resistance, and high transmission efficiency. The products are widely used in indoor and outdoor small low-speed power system solutions: such as unmanned cleaning vehicles, small unmanned buses, unmanned patrol vehicles, unmanned logistics vehicles, unmanned new energy mobile charging vehicles, AGV unmanned forklifts, AGV transfer vehicles, unmanned Electric Tugs, etc.



LDM22-355-800

Rated voltage	Rated power	Transmission ratio	No-load speed	Motor efficiency	Motor diameter	Motor Type	Electromagnetic brake	Noise
DC 48V	800W	1: 19.75	150 RPM	75%	Ø97	Brushless	6Nm	≤60dB



3LDM04B -800 1300

Rated voltage	Rated power	Transmission ratio	No-load speed	Motor efficiency	Motor diameter	Motor Type	Electromagnetic brake	Noise
DC 36V-48V	800W 1300W	1: 43.9 1:26	100 RPM 95 RPM	79-86% 80%	Ø90-120	Brushless	6Nm 10Nm	≤60dB



ND532 2.5- 7.5KW

Rated voltage	Rated power	Transmission ratio	Rated speed	Sensor Type	Motor type	Maximum load weight	Noise
DC24V DC48V DC72V	2.5KW/3KW/4KW 5KW/7.5KW	1:45.33 1:80.9	3000RPM	Pulse encoder Electromagnetic encoder Rotary transformer	AC /PMSM	1500kg semi-floating 3000kg fully floating	≤60dB



ND53 2.5- 7.5KW

Rated voltage	Rated power	Transmission ratio	Rated speed	Sensor Type	Motor type	Maximum load weight	Noise
DC24V DC48V DC72V	2.5KW/3KW/4KW 5KW/7.5KW	1:45.33 1:80.9	3000RPM	Pulse encoder Electromagnetic encoder Rotary transformer	AC /PMSM	1500kg semi-floating 3000kg fully floating	≤60dB



500W
BLDC Transaxle

Rated voltage	Rated power	Transmission ratio	No-load speed	Rated torque	Motor efficiency	Motor diameter	Electromagnetic brake	Noise
DC 48V	500W	1:21	200RPM	23.875Nm	86.63%	Ø95	6N.m	≤58db



1500W
BLDC Transaxle

Rated voltage	Rated power	Transmission ratio	No-load speed	Rated torque	Motor efficiency	Motor diameter	Electromagnetic brake	Noise
DC 36V	1.5KW	1:43.09	88RPM	139.7Nm	88%	Ø116	6N.m	≤62dB

ID200 Drive Controller



ID200

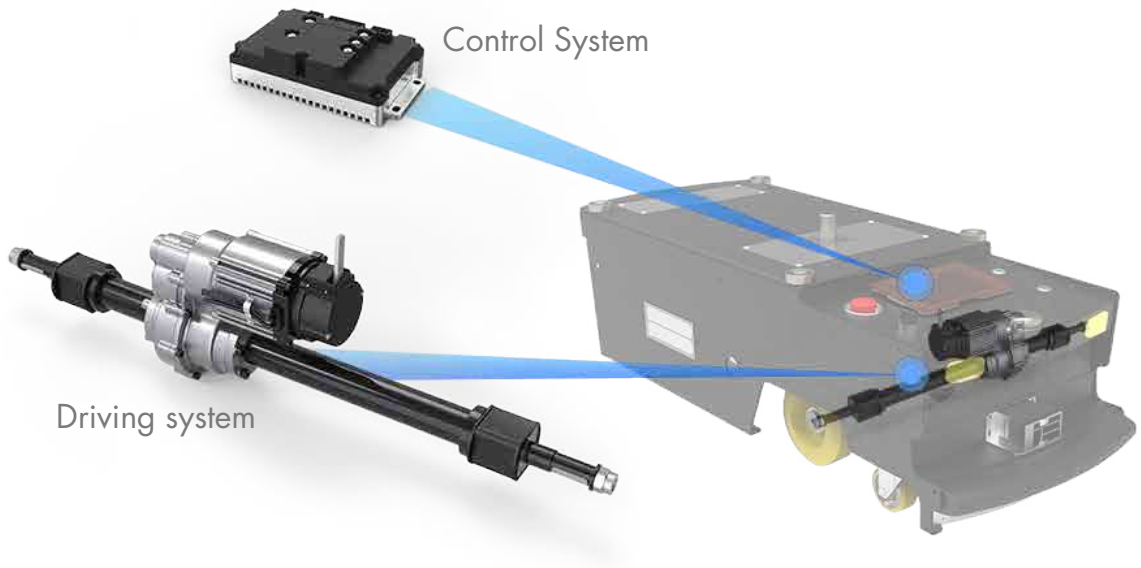
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- Advanced motor control algorithms and complete vehicle control algorithms for improved comfort and safety.
- The intelligent brakes ensure that the electric wheelchair is safer and more comfortable to drive in all situations.



ID200-2kw

Model	Rated voltage	Continuous current	Peak current	CAN/SCI communication	Size
ID200	DC24V/36V/48V	60 min¹ 30A 1 min² 60A	10 sec 75A	Yes	165x96x46mm
ID200-2150	DC24V/36V/48V	1 min² 100A	10 sec 140A	Yes	189x102x54mm
ID200-3150	DC24V/36V/48V	1 min² 100A	10 sec 140A	Yes	189x102x54mm
ID200-4200	DC24V/36V/48V	1 min² 100A	10 sec 140A	Yes	189x102x54mm

AGV control system and drive system solutions



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RotonTEK

Low Noise Motor Transmission Solution

Transaxle for Electric Cart

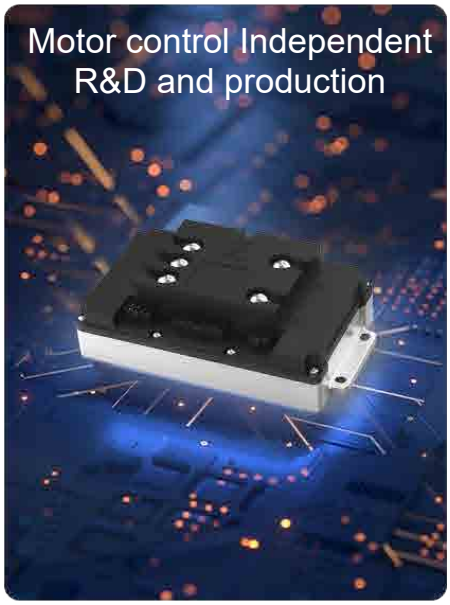
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Electric Transaxle



LDM22-355-800

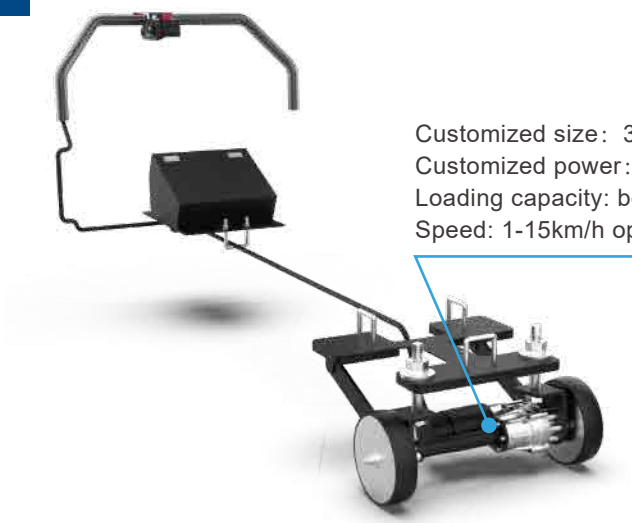
Rated voltage	Rated power	Transmission ratio	No-load speed	Motor efficiency	Motor diameter	Motor Type	Electromagnetic brake	Noise
DC 48V	800W	1: 19.75	150 RPM	75%	Ø97	Brushless	6Nm	≤60dB



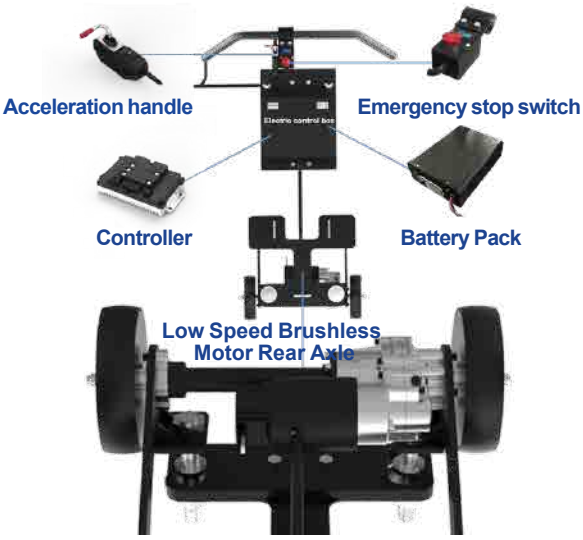
ND42-1-43.9Q
full floating axle

Rated voltage	Rated power	Transmission ratio	No-load speed	Motor efficiency	Motor diameter	Electromagnetic brake	Carrying capacity	Noise
DC 24V DC 48V	800W-1500W	26.36 36 43.9	70-150RPM	90%	Ø116	6N.m 10N.m	1T	≤62dB

Electric Cart power drive assembly



Customized size: 30cm-150cm
Customized power: 120W-5000W
Loading capacity: between 100kg-10T
Speed: 1-15km/h optional





ND420B-500 1500

Rated voltage	Rated power	Transmission ratio	No-load speed	Motor efficiency	Motor diameter	Electromagnetic brake	Motor Type	Noise
DC 24V-48V	800W-1500W	1: 43.9	100 RPM 95 RPM	75% 79-85%	Ø97 Ø120	6N.m	Brushed	≤62dB

Drive Controller

This series of products adopts sine wave vector control and algorithm, and is designed for electric scooters, electric dollys, cleaning machines, karts and other electric vehicle motor control. It has anti-skid and electromagnetic braking functions to improve driving safety. It has overvoltage, overcurrent and overheating protection functions. It uses TI's DSP chip, which has excellent performance and strong anti-interference ability. It uses internationally renowned brand MOS tubes, which have high efficiency and good stability.



ID200

300-800W DC Permanent Magnet Brushless Controller

Rated voltage	Continuous current	Peak current	CAN/SCI communication	Size
DC 24V/36V/48V	60 min[1] 30A 1 min[2] 60A	10 sec 75A	YES	165x96x46mm



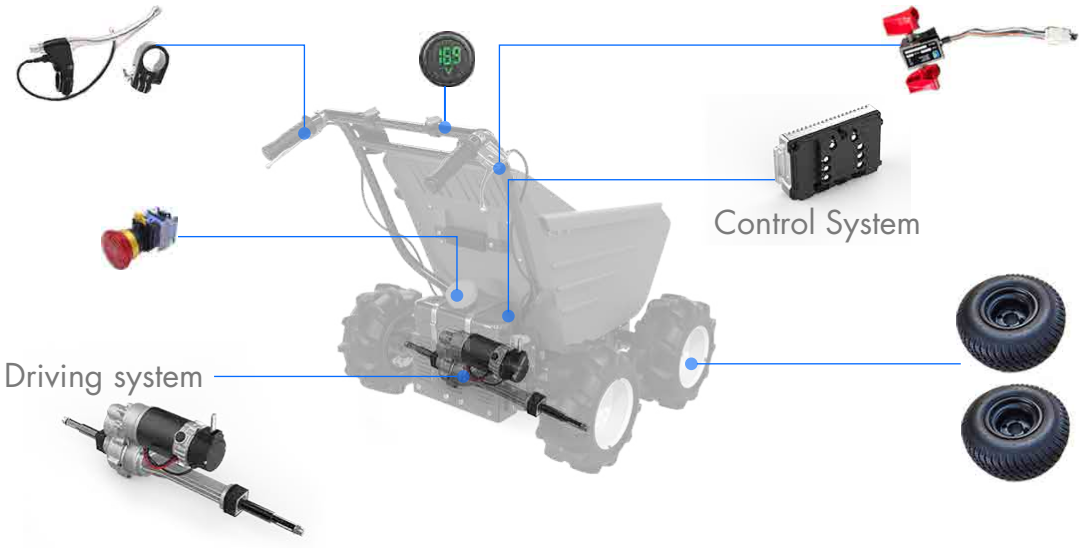
2KW DC Permanent Magnet Brushless Controller

Rated voltage	Continuous current	Peak current	CAN/SCI communication	Size
DC 24V/36V/48V	60 min[1] 60A 1 min[2] 100A	10 sec 140A	YES	189x102x54mm

Accessories

Wheel	Emergency Switch	Accelerator Handle	Waterproof Switch	Brake Handle	Voltage Indicator
					

Electric carts Control System and Drive System Solution



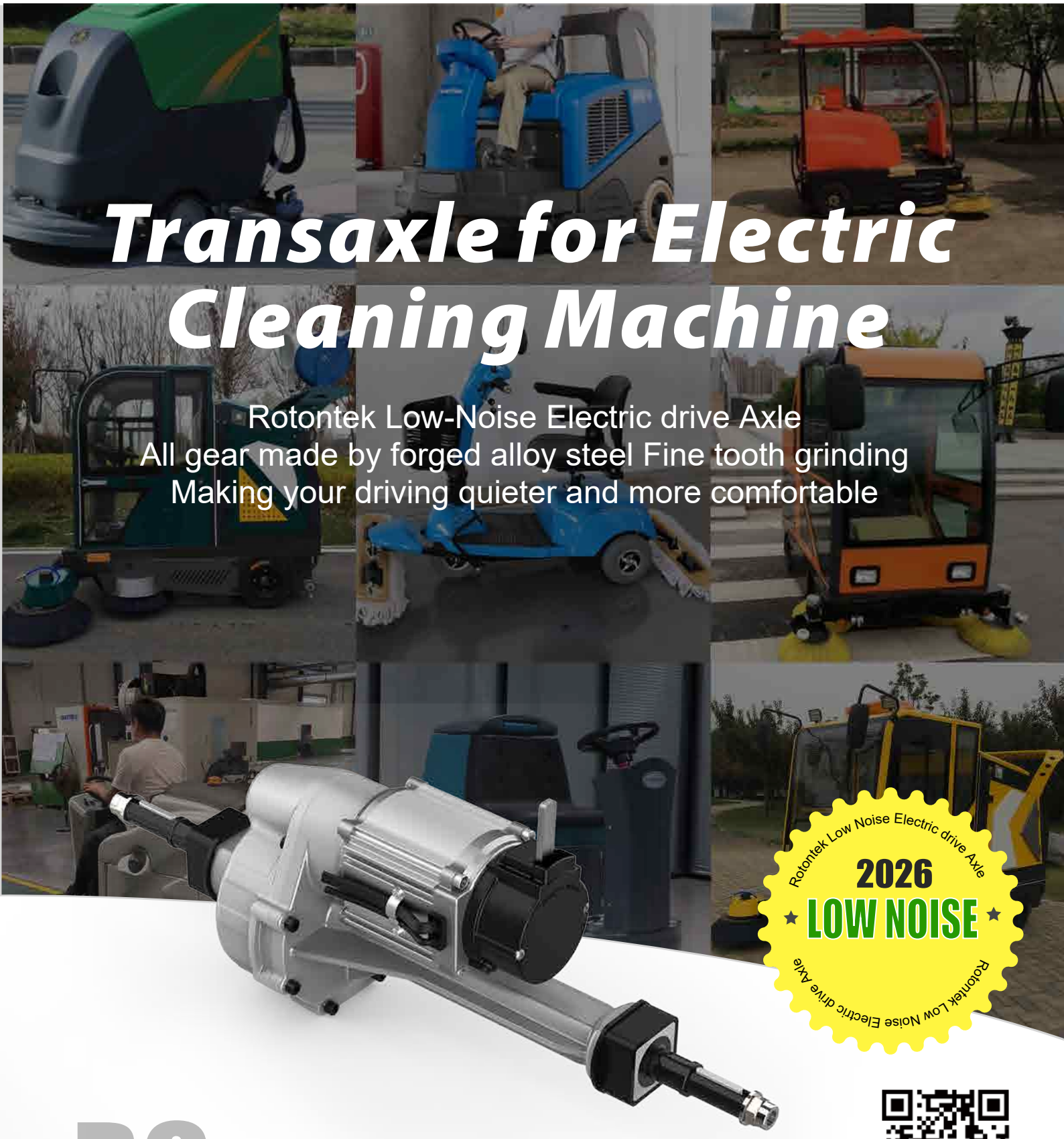
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RotonTEK

Low Noise Motor Transmission Solution

Transaxle for Electric Cleaning Machine

Rotontek Low-Noise Electric drive Axle
All gear made by forged alloy steel Fine tooth grinding
Making your driving quieter and more comfortable



P6

Youtube

Quietness is a result due to quality material precision process

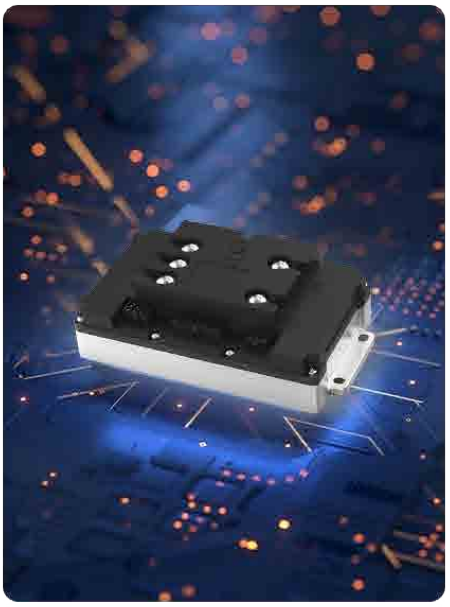
Alloy steel gears with level 6 precision



Brushless Motor Independent R&D and production



Motor control Independent R&D and production



Electric Transaxle



ND420B 800 1300

Rated voltage	Rated power	Transmission ratio	No-load speed	Motor efficiency	Motor diameter	Electromagnetic brake	Motor Type	Noise
DC 36V-48V	800W 1300W	1: 43.9	100 RPM 95 RPM	79-86% 80%	Ø90 Ø120	6Nm 10Nm	Brushed	≤62dB



LDM22-355-800

Rated voltage	Rated power	Transmission ratio	No-load speed	Motor efficiency	Motor diameter	Motor Type	Electromagnetic brake	Noise
DC 48V	800W	1: 19.75	150 RPM	75%	Ø97	Brushless	6Nm	≤60dB



ND420-500 1500

Rated voltage	Rated power	Transmission ratio	No-load speed	Motor efficiency	Motor diameter	Electromagnetic brake	Motor Type	Noise
DC 24V-48V	500W-1500W	1: 43.9	100 RPM 95 RPM	75% 79-85%	Ø97 Ø120	6N.m	Brushed	≤62dB



3LDM04B -800 1300

Rated voltage	Rated power	Transmission ratio	No-load speed	Motor efficiency	Motor diameter	Motor Type	Electromagnetic brake	Noise
DC 36V-48V	800W 1300W	1: 43.9 1:26	100 RPM 95 RPM	79-86% 80%	Ø90-120	Brushless	6Nm 10Nm	≤60dB



LD01G 239-200

Rated voltage	Rated power	Transmission ratio	No-load speed	Motor efficiency	Motor diameter	Rated torque	Noise
DC 24V	200W	1:17.75	126RPM	65%	Ø80	18Nm	≤60dB

Drive Controller

300-800W DC Permanent Magnet Brushless Controller



ID200

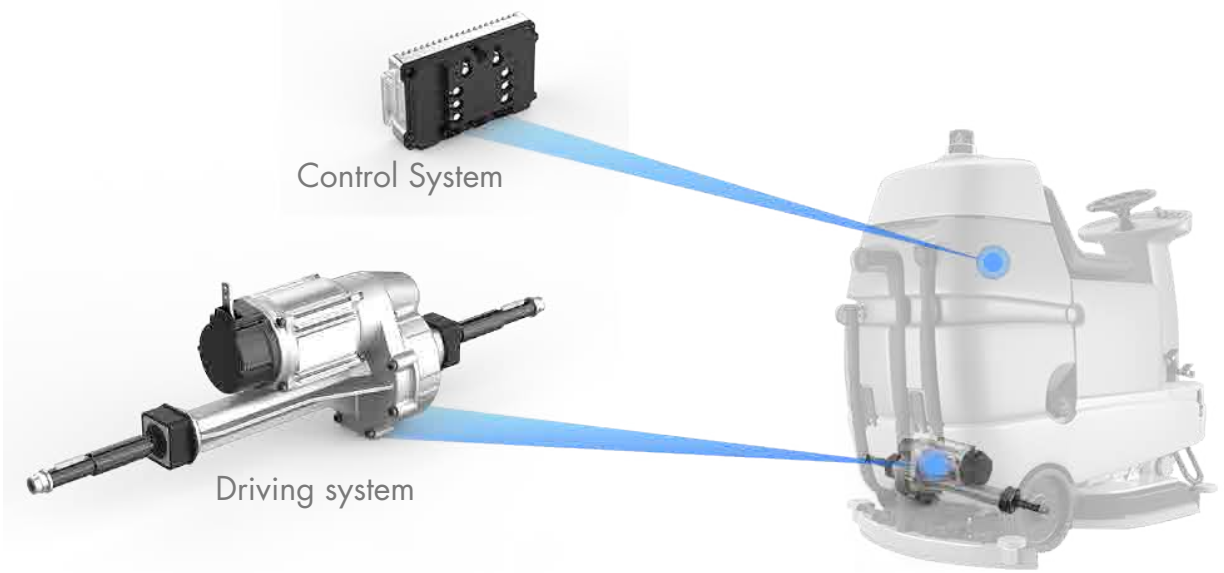
Rated voltage	Continuous current	Peak current	CAN/SCI communication	Size
DC 24V/36V/48V	60 min[1] 30A 1 min[2] 60A	10 sec 75A	YES	165x96x46mm

2KW DC Permanent Magnet Brushless Controller



Rated voltage	Continuous current	Peak current	CAN/SCI communication	Size
DC 24V/36V/48V	60 min[1] 60A 1 min[2] 100A	10 sec 140A	YES	189x102x54mm

Cleaning Machine Control System and Drive System Solution



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RotonTEK

Low Noise Motor Transmission Solution

Brushless controller for Electric wheel chair



Rotontek Low Noise Motor Transmission Solution

2026

LOW NOISE

Rotontek Low Noise Motor Transmission Solution

P7

Youtube

Brushless controller

This series of products uses a flight controller to control the electric wheelchair, which is more flexible and convenient to operate. Advanced motor control algorithms and vehicle control algorithms improve comfort and safety. Soft start, soft stop and intelligent brakes ensure that the electric wheelchair is safer and more comfortable to drive in any situation. The automatic motor load compensation function ensures that the electric wheelchair maintains a stable speed when crossing obstacles or climbing slopes. Various perfect protection mechanisms ensure that the electric wheelchair is more reliable and safer to drive. The power-off protection function ensures that once the power is off during driving, the electric wheelchair can still be controlled and can slowly decelerate to stop. Perfect and convenient fault diagnosis facilitates customer debugging. Simple and easy-to-understand open parameters facilitate customer self-debugging. With Hall phase sequence automatic identification function, it is convenient for the repair shop to debug. Flexible configuration of motor 1 and motor 2 as left and right motors facilitates customer debugging and installation.

ID500



Electric control handle A

ID510



Electric control handleB

ID520



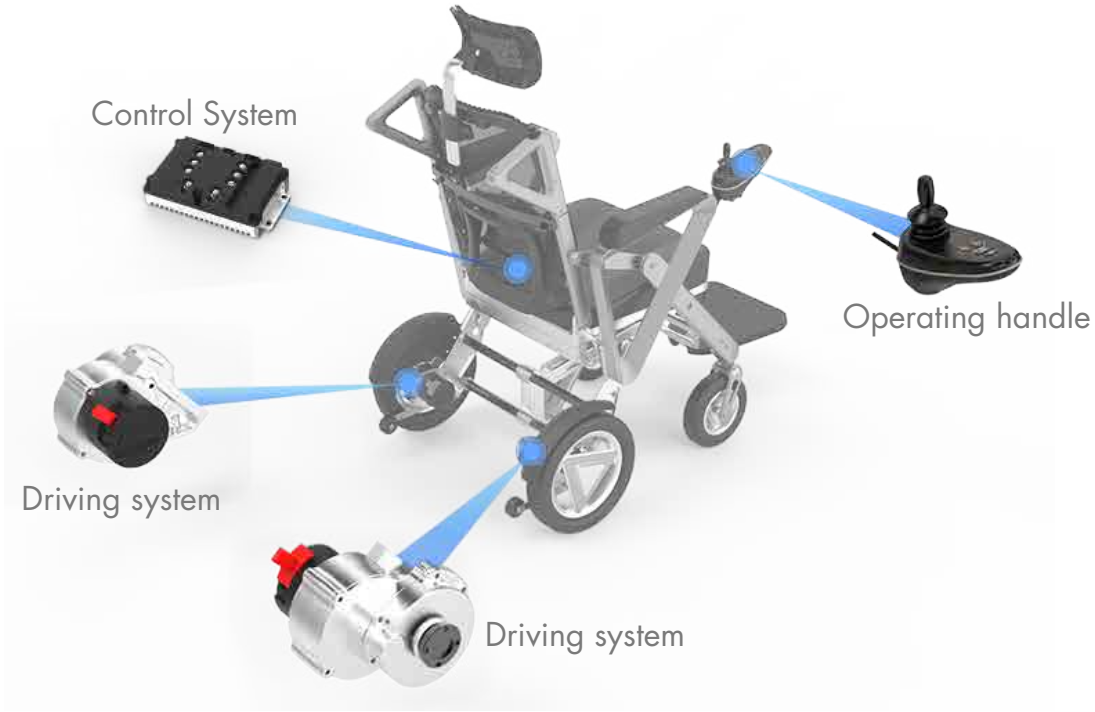
Electric control handleA/B

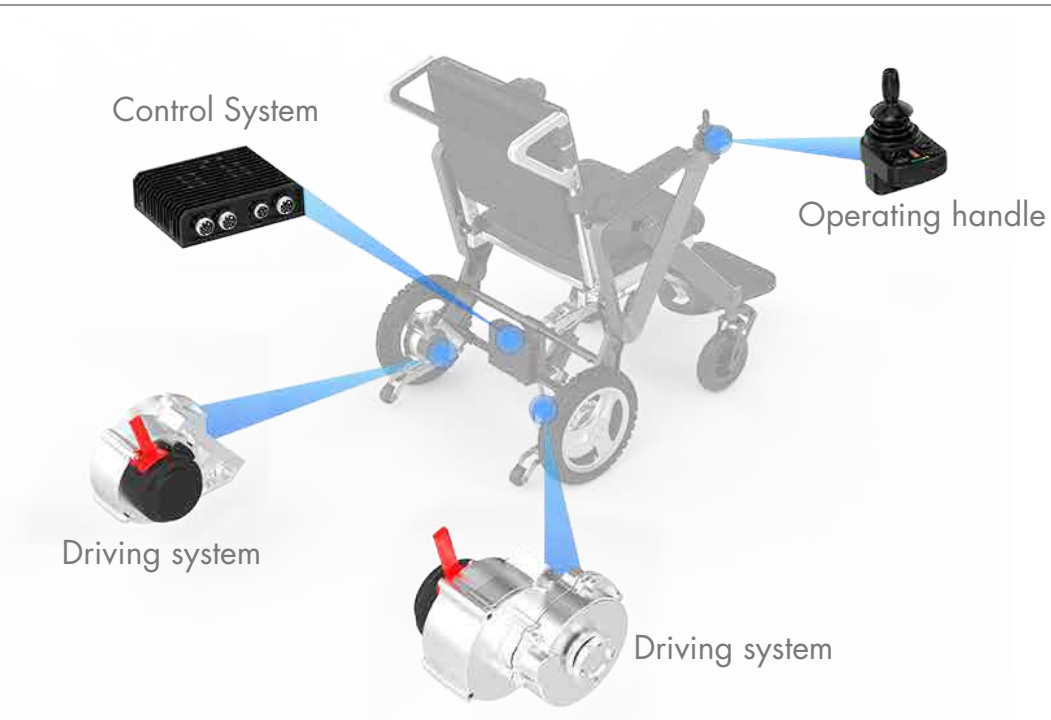
Supply voltage	Operation voltage	PWM frequency	Control method	Brake voltage	Brake current	Charging current	Braking method	Display mode
DC 24V	DC18V TO 30V	18KHz±1.0%	Hall rocker all-round control	DC 24V	300～600mA	6Amax	Energy and electromagnetic brakes	LED

Model	Supply voltage	Operation voltage	Output current	PWM frequency	Control method	Brake voltage	Brake current	Charging current	Braking method	Display mode	Speed
Electric control handle A	DC 24V	DC18V TO 30V	25A	18KHz±1.0%	Hall rocker all-round control	24V	300～600mA	6Amax	Energy and electromagnetic brakes	LED	adjustable

Model	Supply voltage	Operation voltage	Output current	PWM frequency	Control method	Brake voltage	Brake current	Charging current	Braking method	Display mode	Speed
Electric control handle A	DC 24V	DC18V TO 30V	25A	18KHz±1.0%	Hall rocker all-round control	24V	300～600mA	6Amax	Energy and electromagnetic brakes	LED	adjustable

wheel chairControl System and Drive System Solution





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RotonTEK

Low Noise Motor Transmission Solution

Transaxle for mobility electric scooter

Rotontek Low-Noise Electric drive Axle
All gear made by forged alloy steel Fine tooth grinding
Making your driving quieter and more comfortable



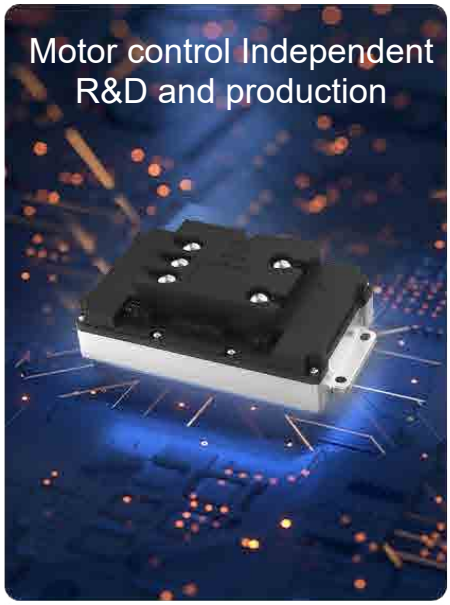
P8

Youtube

Quietness is a result due to quality material precision process







150W-300W BLDC ultra-light small brushless low-speed drive axle



The Rotontek 150W–300W ultra-light brushless low-speed drive axle is designed for compact and lightweight electric mobility devices. Featuring a low-noise operation and a total weight as low as 3kg, this drive axle ensures smooth, efficient, and quiet power delivery for small vehicles and robotic platforms.

Model	Rated voltage	Rated power	Transmission ratio	Rated speed	Sensor Type	Motor type	Maximum load weight	Noise
ND122	DC24V-48V	150W 250W 300W	1: 21.7	3000RPM 4000RPM	Hall/Inductive Encoders	BLDC	150kg	≤55dB

300W -800W BLDC Transaxle



300W-800W series In-line drive transaxle consists of DC permanent magnet brush motor and differential. It uses alloy steel hardened gears, which last 5 times longer than powder metallurgy gears and have a low noise is as low as 55dB.

Model	Rated voltage	Rated power	Transmission ratio	Rated speed	Sensor Type	Motor type	Maximum load weight	Noise
ND121	DC24V-48V	250W 500W 800W	1: 21 1: 33.2	3000RPM 4000RPM	Hall/Inductive Encoders	BLDC	200kg	≤55



ND420-500 800 1000 1500

Rated voltage	Rated power	Gearbox reduction ratio	Rated speed	Sensor Type	Motor type	Maximum load weight	Noise
DC 24V 36V DC 48V 60V	500W 800W 1000W 1500W	1:12.12 1:26.36 1:36 1:43.9	3000RPM 4200RPM 5000RPM	Hall/Inductive Encoders	PMDC BLDC	600kg	≤55dB



ND221-500W DC Brushless/Brushed

Rated voltage	Rated power	Transmission ratio	No-load speed	Motor efficiency	Motor diameter	Electromagnetic brake	Rated torque	Noise
DC 24V	500W	1:21	219RPM	72%	Ø97	1.3Nm	27Nm	≤54dB
DC 24V	500W	1:36	127RPM	76%	Ø97	1.3Nm	36Nm	≤54dB

800W -1500W BLDC Transaxle



The differential of the ND42-1-43.9G 800W transaxle adopts two-stage transmission, which has the advantages of low speed and large output torque. It adopts alloy steel hard tooth surface gear, which has longer service life and lower noise than powder metallurgy gear.

Model	Rated voltage	Rated power	Transmission ratio	No-load speed	Rated torque	Motor efficiency	Motor diameter	Electromagnetic brake	Noise	Motor type
ND42-1-43.9G	DC 24V DC 48V	800W	43.9 26.35	80r/min 135r/m	102.7N.m 57.9N.m	85.34% 89.67%	Ø95.8 Ø95.8	6Nm 6Nm	≤62 ≤62	brushless
		1000W	43.9 26.35	93r/min 180r/m	93.9 Nm 61.66N.m	85 . 34% 84.64%	Ø95.8 Ø95.8	6Nm 6Nm	≤62 ≤62	brushless
		1500W	43.9 26.35	100r/min 150r/m	139 N.m 82.53N.m	91.4% 91.47%	Ø115.4 Ø115.4	10Nm 10Nm	≤62 ≤62	brushless

Drive Controller

This series of products adopts sine wave vector control and algorithm, and is designed for electric scooters, electric dollys, cleaning machines, karts and other electric vehicle motor control. It has anti-skid and electromagnetic braking functions to improve driving safety. It has overvoltage, overcurrent and overheating protection functions. It uses TI's DSP chip, which has excellent performance and strong anti-interference ability. It uses internationally renowned brand MOS tubes, which have high efficiency and good stability.

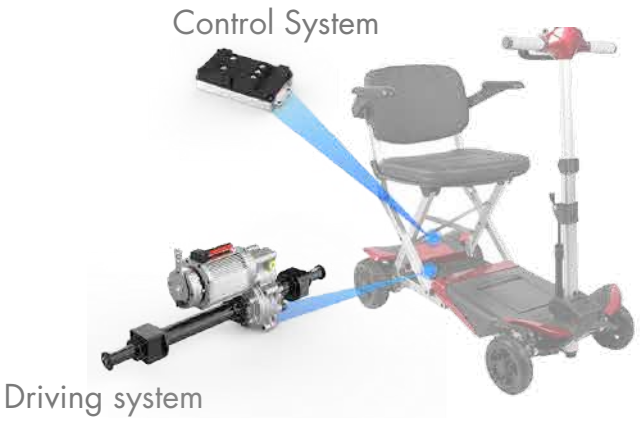
ID200



300-800W DC Permanent Magnet Brushless Controller

Rated voltage	Continuous current	Peak current	CAN/SCI communication	Size
DC 24V/36V/48V	60 min[1] 30A 1 min[2] 60A	10 sec 75A	YES	165x96x46mm

Electric scooter Control System and Drive System Solution



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RotonTEK

Low Noise Motor Transmission Solution

Transaxle for Micro Electric Vehicle

Rotontek Low-Noise Electric drive Axle
All gear made by forged alloy steel Fine tooth grinding
Making your driving quieter and more comfortable



P9

Youtube

Quietness is a result due to quality material precision process

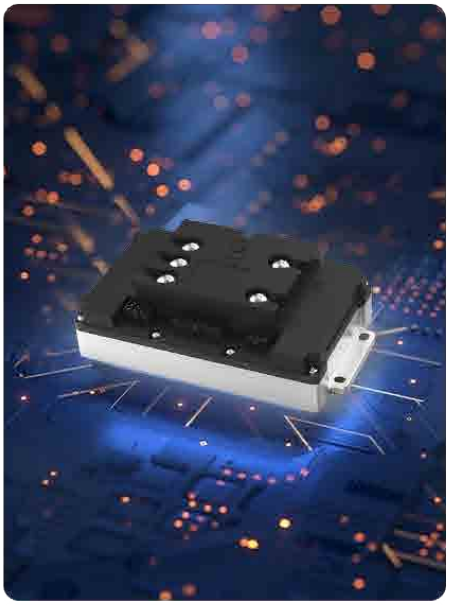
Alloy steel gears with level 6 precision



Brushless Motor Independent R&D and production



Motor control Independent R&D and production



Electric Transaxle



LDM22-355-800

Rated voltage	Rated power	Transmission ratio	No-load speed	Motor efficiency	Motor diameter	Motor Type	Electromagnetic brake	Noise
DC 48V	800W	1: 19.75	150 RPM	75%	Ø97	Brushless	6Nm	≤60dB



3LDM04B -800 1300

Rated voltage	Rated power	Transmission ratio	No-load speed	Motor efficiency	Motor diameter	Motor Type	Electromagnetic brake	Noise
DC 36V-48V	800W 1300W	1: 43.9 1:26	100 RPM 95 RPM	79-86% 80%	Ø90-120	Brushless	6Nm 10Nm	≤60dB



ND420 1300

Rated voltage	Rated power	Transmission ratio	No-load speed	Motor efficiency	Motor diameter	Electromagnetic brake	Motor Type	Noise
DC 24V-48V	800W-1500W	1: 43.9	100 RPM 95 RPM	75% 79-85%	Ø97 Ø120	6N.m	Brushed	≤62dB



ND420B 800 1300

Rated voltage	Rated power	Transmission ratio	No-load speed	Motor efficiency	Motor diameter	Electromagnetic brake	Motor Type	Noise
DC 36V-48V	800W 1300W	1: 43.9	100 RPM 95 RPM	79-86% 80%	Ø90 Ø120	6Nm 10Nm	Brushed	≤62dB

Drive Controller

This series of products adopts sine wave vector control and algorithm, and is designed for electric scooters, electric dollys, cleaning machines, karts and other electric vehicle motor control. It has anti-skid and electromagnetic braking functions to improve driving safety. It has overvoltage, overcurrent and overheating protection functions. It uses TI's DSP chip, which has excellent performance and strong anti-interference ability. It uses internationally renowned brand MOS tubes, which have high efficiency and good stability.

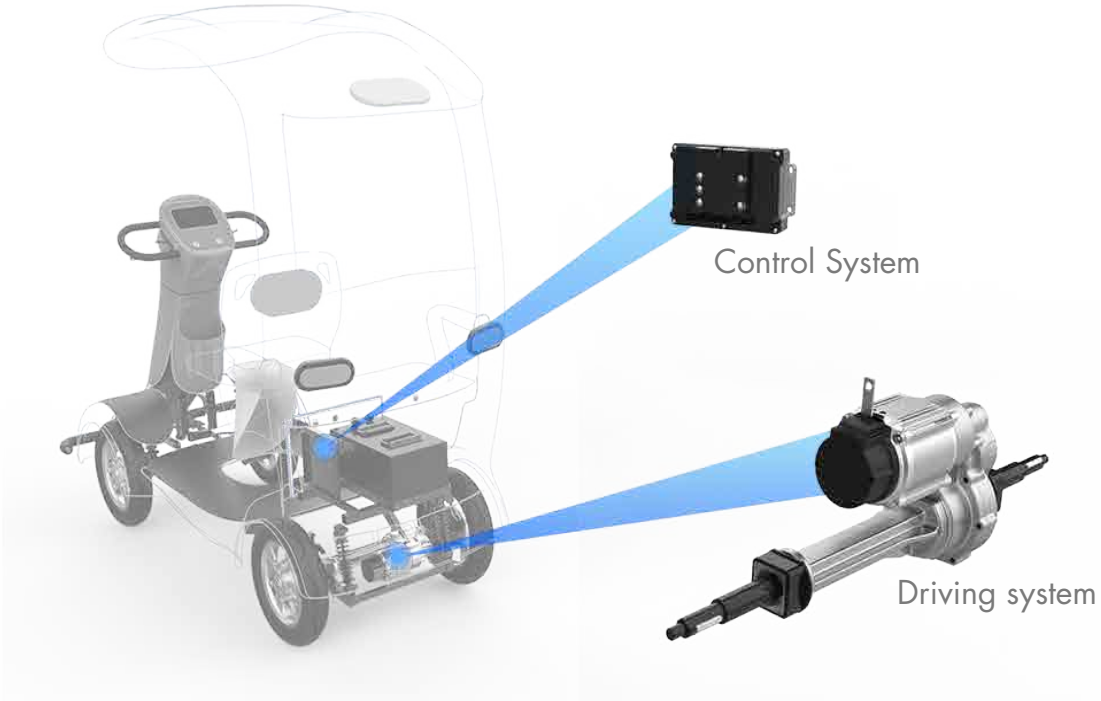
ID200



2KW DC Permanent Magnet Brushless Controller

Rated voltage	Continuous current	Peak current	CAN/SCI communication	Size
DC 24V/36V/48V	60 min[1] 60A 1 min[2] 100A	10 sec 140A	YES	189x102x54mm

Micro Electric Vehicle Control System and Drive System Solution



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RotonTEK

Low Noise Motor Transmission Solution



Electric pallet truck drive assembly

P10

Youtube



1000W Electric drive wheel

This series of products integrates a high-efficiency motor, a low-noise reduction mechanism and a driving power unit with high-strength travel wheels. It has many advantages such as compact structure, easy installation, strong load-bearing capacity, large driving force, stable operation, etc. It is mainly used in driving wheel parts of various vehicles powered by batteries, such as electric forklifts, AGV logistics transfer vehicles, electric transport vehicles, electric tractors, etc. It is a new generation of high-efficiency, energy-saving and environmentally friendly products. It can meet various working conditions such as heavy-load starting, full-load climbing and high-speed operation on flat roads.



1000W
Brushless electric drive wheel

Rated voltage	Rated power	Rated current	Rated speed	Maximum towing weight	Speed ratio (I)	Maximum load	wheel diameter	Brake torque
DC 24V	1KW	50A	2300rpm	4000KG	1:29	1000KG	406x100mm	6Nm

Drive Controller

This series of products adopts sine wave vector control and algorithm, and is designed for electric scooters, electric dollys, cleaning machines, karts and other electric vehicle motor control. It has anti-skid and electromagnetic braking functions to improve driving safety. It has overvoltage, overcurrent and overheating protection functions. It uses TI's DSP chip, which has excellent performance and strong anti-interference ability. It uses internationally renowned brand MOS tubes, which have high efficiency and good stability.

ID200

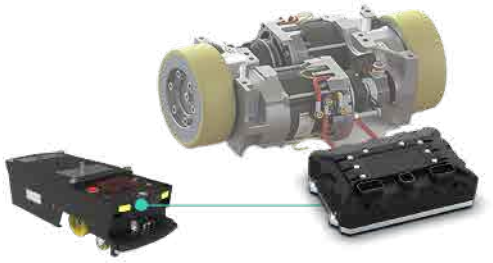


2KW DC Permanent Magnet Brushless Controller

Rated voltage	Continuous current	Peak current	CAN/SCI communication	Size
DC 24V/36V/48V	60 min[1] 60A 1 min[2] 100A	10 sec 140A	YES	189x102x54mm

B530 Dual-motor controller

The Rotontek B530H Dual Brushless DC Motor Controller (24–48V 100A×2) features programmable CAN-BUS control and precise calibration, ideal for AGV, forklifts, and unmanned vehicles.

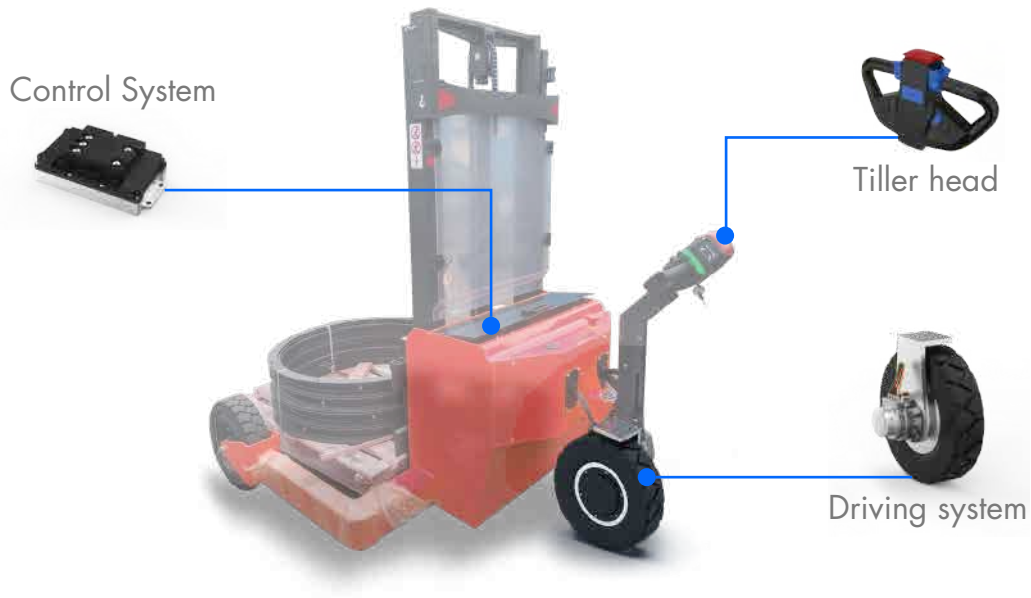


Model	Voltage	Continuous current	Peak current	Rated power	Waterproof grade	CAN/SCI communication	Motor sensor type
B530S	DC 24V 72V	100A*2	200A-350A	2200-3500KW*2	IP66	YES	A/B incremental encoder sine and cosine encoder resolver

Model	Voltage	Continuous current	Peak current	Rated power	Waterproof grade	CAN/SCI communication	Motor sensor type
B530H	DC 24V 72V	100A*2	200A-350A	2200-3500KW*2	IP66	YES	Hull

Model	Voltage	Continuous current	Peak current	Rated power	Waterproof grade	CAN/SCI communication	Motor sensor type
B530A	DC 24V 72V	100A*2	200A-350A	2200-3500KW*2	IP66	YES	A/B incremental encoder

Electric pallet truck drive assembly



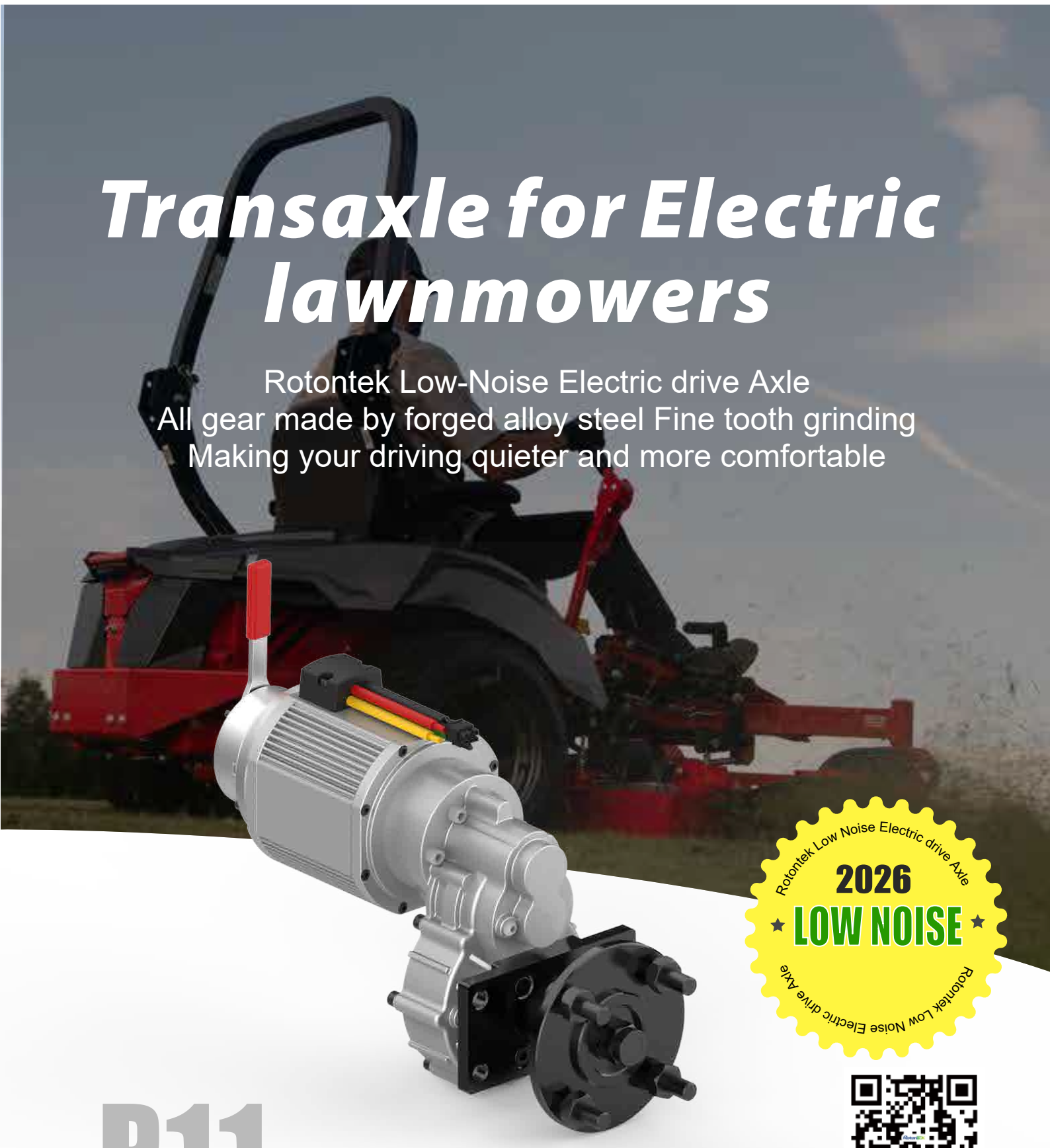
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RotonTEK

Low Noise Motor Transmission Solution

Transaxle for Electric lawnmowers

Rotontek Low-Noise Electric drive Axle
All gear made by forged alloy steel Fine tooth grinding
Making your driving quieter and more comfortable



Rotontek Low Noise Electric drive Axle
2026
LOW NOISE
Rotontek Low Noise Electric drive Axle

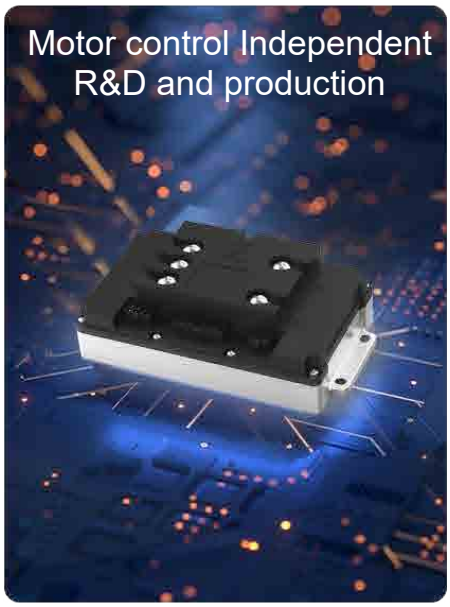
P11

Youtube

Quietness is a result due to quality material precision process







Wheel-side motor



ND22

Rated voltage	Rated power	Gearbox reduction ratio	Rated speed	Motor type	Class	Electromagnetic brake	IP Rating	Noise
DC 24V DC 48V	500W 800W	33.2:1	100±10%RPM	BLDC	F	24V 6N·m	IP65	≤60dB



ND42

Rated voltage	Rated power	Gearbox reduction ratio	Rated speed	Motor type	Class	Electromagnetic brake	IP Rating	Noise
DC 24V DC 48V	1000W 1500W	43.9:1	90±10%RPM	BLDC	F	48V 6N·m	IP44	≤60dB

Electric Transaxle



ND53 2.5- 7.5KW

Rated voltage	Rated power	Transmission ratio	Rated speed	Sensor Type	Motor type	Maximum load weight	Noise
DC24V DC48V DC72V	2.5KW/3KW/4KW 5KW/7.5KW	1:45.33 1:80.9	3000RPM	Pulse encoder Electromagnetic encoder Rotary transformer	AC /PMSM	1500kg semi-floating 3000kg fully floating	≤60dB

Drive Controller



ID200

300-800W DC Permanent Magnet Brushless Controller

Rated voltage	Continuous current	Peak current	CAN/SCI communication	Size
DC 24V/36V/48V	60 min[1] 30A 1 min[2] 60A	10 sec 75A	YES	165x96x46mm

2KW DC Permanent Magnet Brushless Controller



ID200

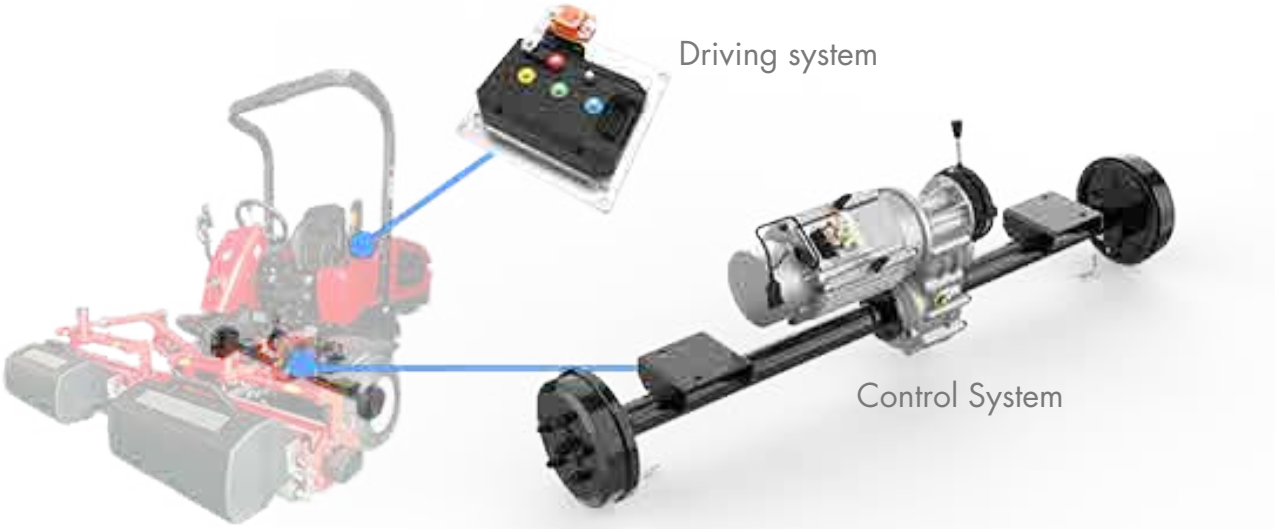
Rated voltage	Continuous current	Peak current	CAN/SCI communication	Size
DC 24V/36V/48V	60 min[1] 60A 1 min[2] 100A	10 sec 140A	YES	189x102x54mm

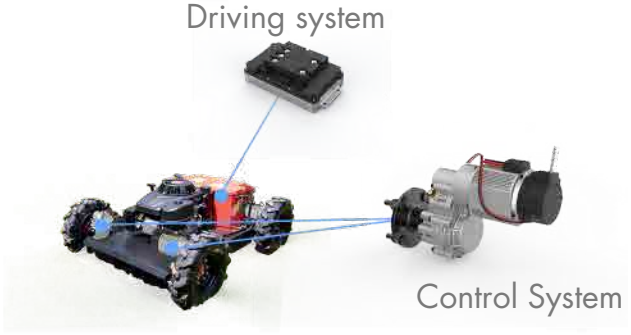
ID600 Drive Controller Permanent magnet motor and AC motor can be controlled

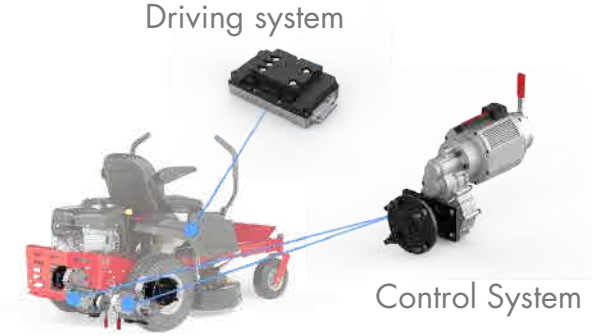


Model	Rated voltage	Continuous current	Peak current	Motor sensor type	Size
ID600-2300 ID600-2500 ID600-4300 ID600-4500 ID600-6500	24V 36-48V	100A 175A	200A 350A	Hall A/B incremental encoder SIN/COS communication	260x260x106mm

Control System and Drive System Solution







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