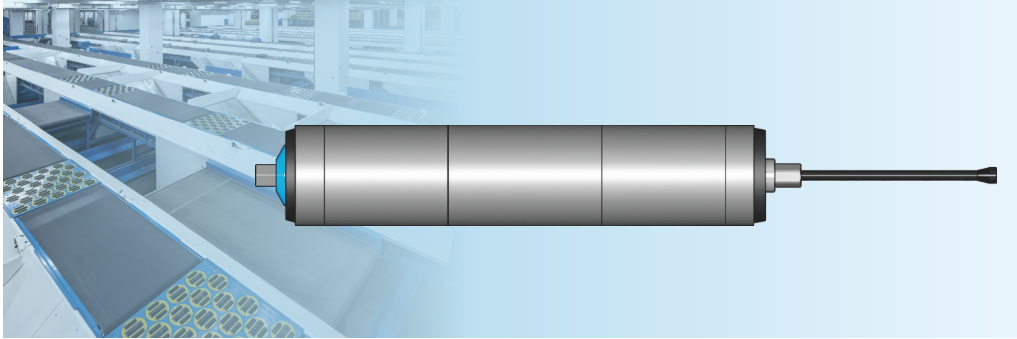


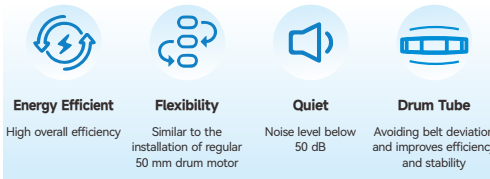
50 mm Drum Motor



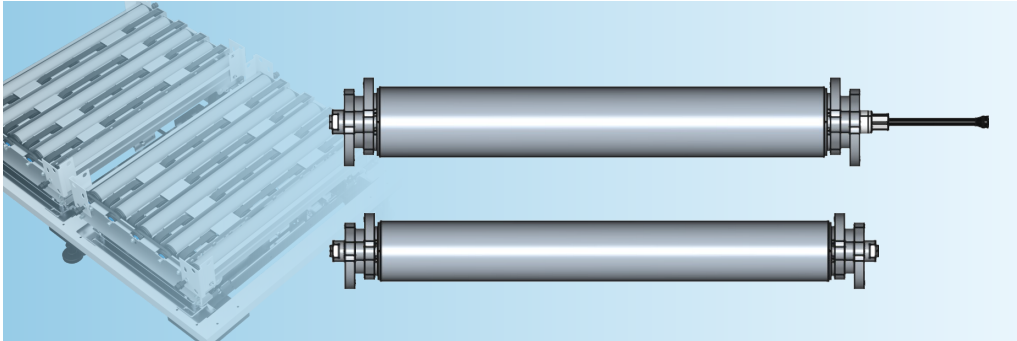
The 50 mm Drum Motor (belt conveying) utilizes a drum-shaped outer tube to avoid belt deviation and improve efficiency and stability.

For belt conveyor lines with irregular cargo size, especially for bulk goods, it can be combined with traditional roller lines for more flexibility.

Feature

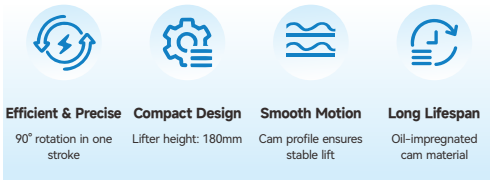


Power Roller-Right Angle Transfer



Designed for box conveyor systems, this mechanism integrates seamlessly with lifting transfer machines, enabling precise 90° rotation within a single stroke to achieve efficient material transfer between different conveyor lines.

Feature



Basic Parameters

Rated Voltage	24V			48V		
Rated Current (A)	2.2	3.1	4.5	1.1	1.5	2.3
Start-up Current (A)	5.5	7.8	11.3	2.8	3.8	5.8
Rated Power (W)	35	50	80	35	50	80
Maximum Noise	50 dB					
Cable Length	500 mm(Extension cables can be added up to 2 M)					
Protection Class	IP54 / IP66					
Tube Material	Galvanized Steel, Stainless Steel					
Tube Dimension	50 mm diameter, 1.5 mm thick					
Axis	11 mm HEX, Thread M12 x 1, double D					
Temperature	-40°C to +55°C					

About ZHAOWEI



SUZHOU ZHAOWEI is a subsidiary of ZHAOWEI GROUP, which is committed to the field of intelligent transportation and distribution, and provides customers with cost-effective power roller units. SUZHOU ZHAOWEI focuses on the R & D, design, and production of the core drive components of Intelligent conveyor, with a fully independently-developed industry chain. ZHAOWEI's industrial power roller solution mainly serves in goods transportation of e-commerce, airports, pharmaceuticals, factories and other automation fields, to improve operational efficiency and reduce logistics costs.

ZHAOWEI GROUP is a micro-drive system solution provider integrating design, R&D and manufacturing. ZHAOWEI was

listed on the Shenzhen Stock Exchange in 2020. Its headquarter is located in the beautiful seaside city of Shenzhen, with subsidiaries and offices in Dongguan, Suzhou, Hong Kong, Germany, Shanghai, and the U.S.A. for a global strategic layout.



National Enterprise
Technology Center



Individual Championship
For National Manufacturing
Industry



China Grand Awards for Industry
Commendation Award



China Patent Award
Outstanding Award

Quality and System Certification

ZHAOWEI management system is the core part of company operation. All employees strictly comply with the ISO system from product design, development to production.

We are committed to controlling risks and improving product reliability under harsh environmental conditions.

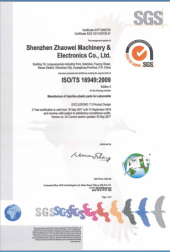
Our mission is to provide innovative products that meet customer's needs.



ISO13485 (CN18/42018)



ISO9001:2015 (CN11/30731)



IA1F16949 (CN11/30730.01)



ISO14001 (J006616E0153R 3M)

Products Certification:



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Power Roller R&D and Production Base
Dongguan ZHAOWEI Machinery & Electronics Co., Ltd
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WeChat Official Account



Official website



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Tiktok

ZWG | ZHAOWEI

Stock Code

003021

POWER ROLLER SERIES

Committed to the development of intelligent transportation and delivery, to become a global supplier of core drive components.

ZWG Power Roller Solution

ZHAOWEI launches the MDR product platform under the new brand name ZWG, which utilizes self-developed precision gearboxes, motors and high-performance controllers to bring customers stable and efficient the MDR solutions.

Moreover, ZWG integrates R&D, design, manufacturing and sales to efficiently solve customers' diversified conveying needs.



High-load Conveying

ZWG Power roller series feature a self-developed Tensioning Sleeve structure structure

- 50 mm >150 N.m
- 60 mm >180 N.m
- 76/80/89 >300 N.m

Patent for Utility Model No. ZL2023202977237

Flexible Installation and Control

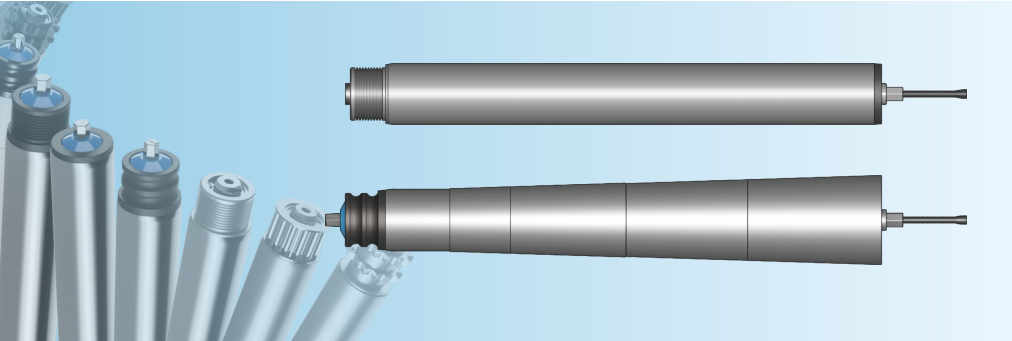
- Cross-brand compatibility, widely adapted to regular conveyor lines
- Easy and cost-effective replacement

High-efficiency Conveying

- The internal parts of the gearbox are processed by high-precision technology, with the unipolar efficiency over 97%
- Leading product efficiency
- More options for power range: 35 W – 220 W
- Long product life: 30k+ hours of safe and stable operation

Power Roller Series

50 mm Power Roller



For conveying equipment in boxes, such as cartons, bins, platens, and tires. Support PolyVee belts, Pipe belts, and synchronous belts on the market. It also optimized motor shafts with 11 gear ratios to flexibly meet customers' diversified needs.

Outstanding performance on linear conveyors, small-sized belt conveyors, and especially zero-pressure accumulation conveyors.

Feature



Basic Parameters

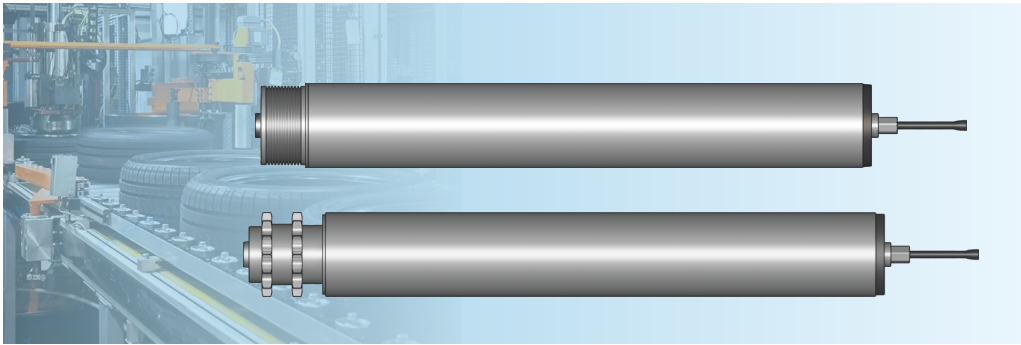
Rated Voltage	24V			48V		
Rated Current (A)	2.2	3.1	4.5	1.1	1.5	2.3
Start-up Current (A)	5.5	7.8	11.3	2.8	3.8	5.8
Rated Power (W)	35	50	80	35	50	80
Maximum Noise	50 dB					
Cable Length	500 mm(Extension cables can be added up to 2 M)					
Protection Class	IP54 / IP66					
Tube Material	Galvanized Steel, Stainless Steel					
Tube Dimension	50 mm diameter, 1.5 mm thick					
Axis	11 mm HEX, Thread M12 x 1, double D					
Temperature	-40°C to +55°C					

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NO.2 Lingang Road, Wang Niudun Town, Dongguan City, Guangdong Province, China

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60 mm Power Roller



For medium-sized pallet with a maximum carrying capacity up to 600 kg. The drive is made of stainless steel, while the motor shaft is also optimized for stable performance in heavy-duty conveying scenarios such as home appliances, truck tires, and especially in NEV industry.

Basic Parameters

Rated Voltage	24V			48V		
Rated Current (A)	2.2	3.1	4.5	1.1	1.5	2.3
Start-up Current (A)	5.5	7.8	11.3	2.8	3.8	5.8
Rated Power (W)	35	50	80	35	50	80
Maximum Noise	50 dB					
Cable Length	500 mm(Extension cables can be added up to 2 M)					
Protection Class	IP54 / IP66					
Tube Material	Galvanized Steel, Stainless Steel					
Tube Dimension	50 mm diameter, 1.5 mm thick					
Axis	11 mm HEX, Thread M12 x 1, double D					
Temperature	-40°C to +55°C					

Feature

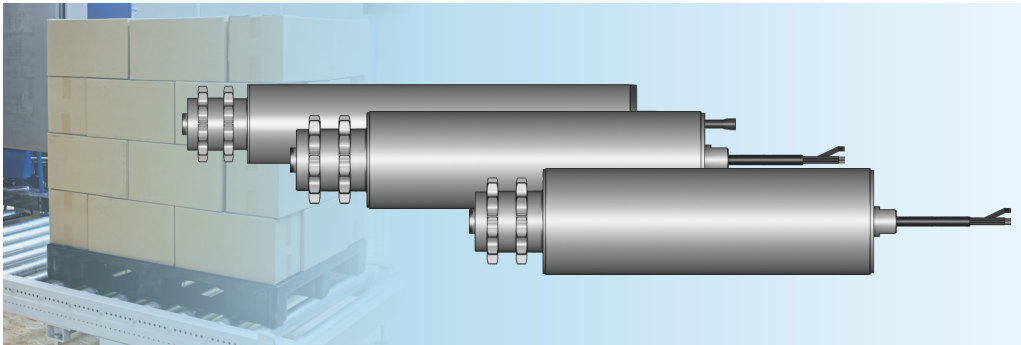
Universal Design
Stemed from the same platform as the 50 mm drum motors

Energy Efficient
High overall efficiency

Flexibility
Meet diversified project application needs

Quiet
Noise level below 50 dB

76 mm/ 80 mm/ 89 mm Heavy-duty Power Roller



Adopts a 48 V BLDC motor with high performance gearbox, featuring higher efficiency and torque. Flexible application for pallet conveyor, achieving a maximum carrying capacity up to 1500 kg. Integrated design for more efficient space utilization.

Basic Parameters

Rated Voltage	48 V		
Rated Current (A)	6		
Start-up Current (A)	15.0		
Rated Power (W)	220		
Maximum Noise	60 dB		
Cable Length	500 mm(Extension cables can be added up to 2 M)		
Protection Class	IP54 / IP66		
Tube Material	Galvanized Steel, Stainless Steel		
Tube Dimension	Φ76x3mm	Φ80x3mm	Φ89x3mm
Axis	Double flat position output shaft		
Temperature	-40°C to +55°C		

Feature

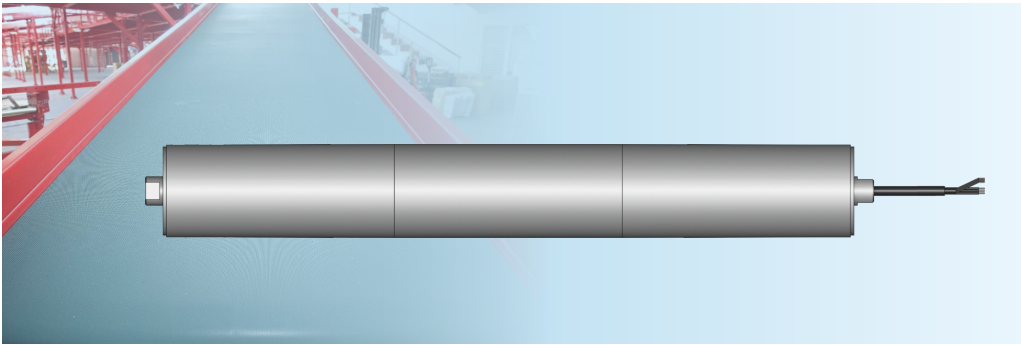
Energy Efficient
Higher Efficiency & Torque

Flexibility
Integrated speed regulation function for efficiency

Quiet
Noise level below 50 dB

Simplicity
Easy use and maintenance

80 mm Drum Motor



Basic Parameters

Rated Voltage	48 V
Rated Current (A)	6
Start-up Current (A)	15
Rated Power (W)	220
Maximum Noise	50 dB
Cable Length	500 mm(Extension cables can be added up to 2 M)
Protection Class	IP54 / IP66
Tube Material	Galvanized Steel, Stainless Steel
Tube Dimension	80 mm diameter, 3.75 mm thick
Axis	11mm HEX, Thread M12 x 1
Temperature	-40°C to +55°C

Feature

Energy Efficient
Higher Efficiency & Torque

Flexibility
Similar to the installation of regular 80 mm drum motor

Quiet
Noise level below 50 dB

Drum Tube
Avoiding belt deviation and improves efficiency and stability

ZWG MDR - Drive Controller Series

Φ50mm 35W/50W/80W Drive Controller-Hall



Feature

- 1 Speed Closed-Loop Control
- 2 15-Speed DIP Switch Adjustment
- 3 Stepless Speed Control (2.3-10V Analog Input)
- 4 4-Step Digital Speed Preset
- 5 15-Step Accel / Decel Time Adjustment
- 6 2-Wire Forward/Reverse Operation
- 7 Sensorless Operation Support
- 8 Electronic Brake (Switchable via DIP: Servo/Brake Mode)
- 9 Dual LED Status Indicators
- 10 Fault Signal Output
- 11 Built-In Braking Resistor (Zero-Pressure Release)
- 12 PNP / NPN Switchable IO Inputs
- 13 24V/48V Quick Voltage Switching
- 14 Speed Priority Hierarchy: DIP Switch > Analog Input > Digital Preset

Φ50/60mm IO Drive Controller



Feature

- 1 Speed Setting (Rotary switch code-15 gears, IO input-7 gears)
- 2 Rotation Direction Options(Rotary switch code/IO Input)
- 3 Acceleration and Braking Ramp Adjustment
- 4 Switch between NPN and PNP
- 5 Switch between Digital to Analog
- 6 LED Light Status Indicator
- 7 Braking Resistor
- 8 RS485 Communication

Drive Controller(IP54)



Feature

- 1 Speed Setting (DIP switch - 15 gears, IO input - 7 gears)
- 2 Rotation Direction Control (DIP switch/ IO Input)
- 3 Acceleration and Braking Ramp Adjustment
- 4 LED Light Status Indicator
- 5 Braking Resistor

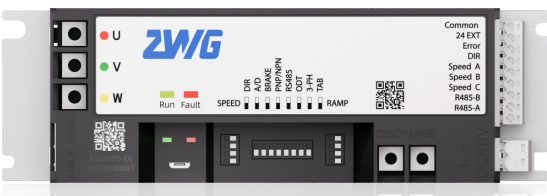
Φ76/80/89mm Drive Controller



Feature

- 1 Speed Setting (DIP switch - 15 gears, IO input - 7 gears)
- 2 Rotation Direction Control (DIP switch/ IO Input)
- 3 Acceleration and Braking Ramp Adjustment
- 4 LED Light Status Indicator
- 5 Braking Resistor
- 6 E-brake activation
- 7 Switch between NPN and PNP
- 8 Switch between Digital and Analog

220W Magnetic Encoder Roller IP20 Drive Controller



Feature

- 1 Speed Setting (DIP switch -15 gears, IO Input - 7 gears)
- 2 Rotation Direction Control (IO input)
- 3 Acceleration and Braking Ramp Adjustment (8-step DIP switch)
- 4 LED Light Status Indicator
- 5 Braking Resistor

450W Drive Controller



Feature

- 1 Speed Closed-Loop Control
- 2 15-Step DIP Switch Speed Adjustment
- 3 Stepless Speed Control via 2-10V Analog Input
- 4 4-Step Digital Speed Preset
- 5 8-Step Accel / Decel Time Adjustment
- 6 2-Wire Forward/Reverse Operation
- 7 Electronic Brake Function
- 8 Dual LED Status Indicators
- 9 Fault Output Signal
- 10 PNP/NPN Switchable IO Inputs
- 11 48V Power Supply (Withstands >60V)
- 12 Speed Priority Hierarchy: DIP Switch > Analog Input > Digital Preset
- 13 RS485 Communication
- 14 Sensorless Operation

Bus Controller(IP66)



Feature

Simplicity: One controlling card for networks such as PROFINET, EtherCat, and CANNOPEN.

- 1 Separate power supply for Roller Driven Motor
- 2 Plug and use after replacement, no addressing or configuration required
- 3 LED Light Status Indicator for all function
- 4 Integrated logic for zero-pressure accumulation conveyance
- 5 Clamp voltage through braking chopper
- 6 Functional grounding connection of the shielding layer of the communication line
- 7 Reverse polarity protection for voltage supply
- 8 Short-circuit protection design for input and output voltage supply