



EZYROLLS

Focus on Drive in Logistic Industry



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EZYROLLS

Ezyrolls a saifi con fab pvt ltd company

- Founded in year **2023**
- Located at DELHI NCR
- Focused on research and producing high end logistic automation Components and modules
- Management and Technical team possess rich industry experience



Company Profile

Ezyrolls are focusing on developing and manufacturing core components of intralogistics equipment. In the past, we have disruptively developed drive roller technology for various applications, which extensively broaden the existing range. Our direct current drive rollers are characterized as reliable, safe, and efficient. As the core components of conveyor, these distinguishing features enabled the engineers provide intelligent and flexible solutions easily and quickly, especially at the project layout stage. What's more, we also offer easy installation, simple connection, quick commission as well as handy maintenance at the installation and commission phase.



Ezyroll DC Drive Rollers integrate motor, gear box and driver within a tube, make conveyor more compact, less connections required, more reliable and stable.



Direct Drive Rollers adopt outer rotor drive mode, is utterly different from the conventional mode of motor connecting gear box, thus the structure is more compact, flexible, and easy to adjust speed. The Servo driver is open to choose, which offers high precision and extensive application in cross-belt sorters, diverge sorters, and single sorting equipment.

Roller & Drive Roller



Rollers for all kind of application are available, polyee belt drive head, round belt drive head, timing belt head, tube with fgrooves, PVC and PU covered.

Installation method: Spindle push, inner thread, fix.



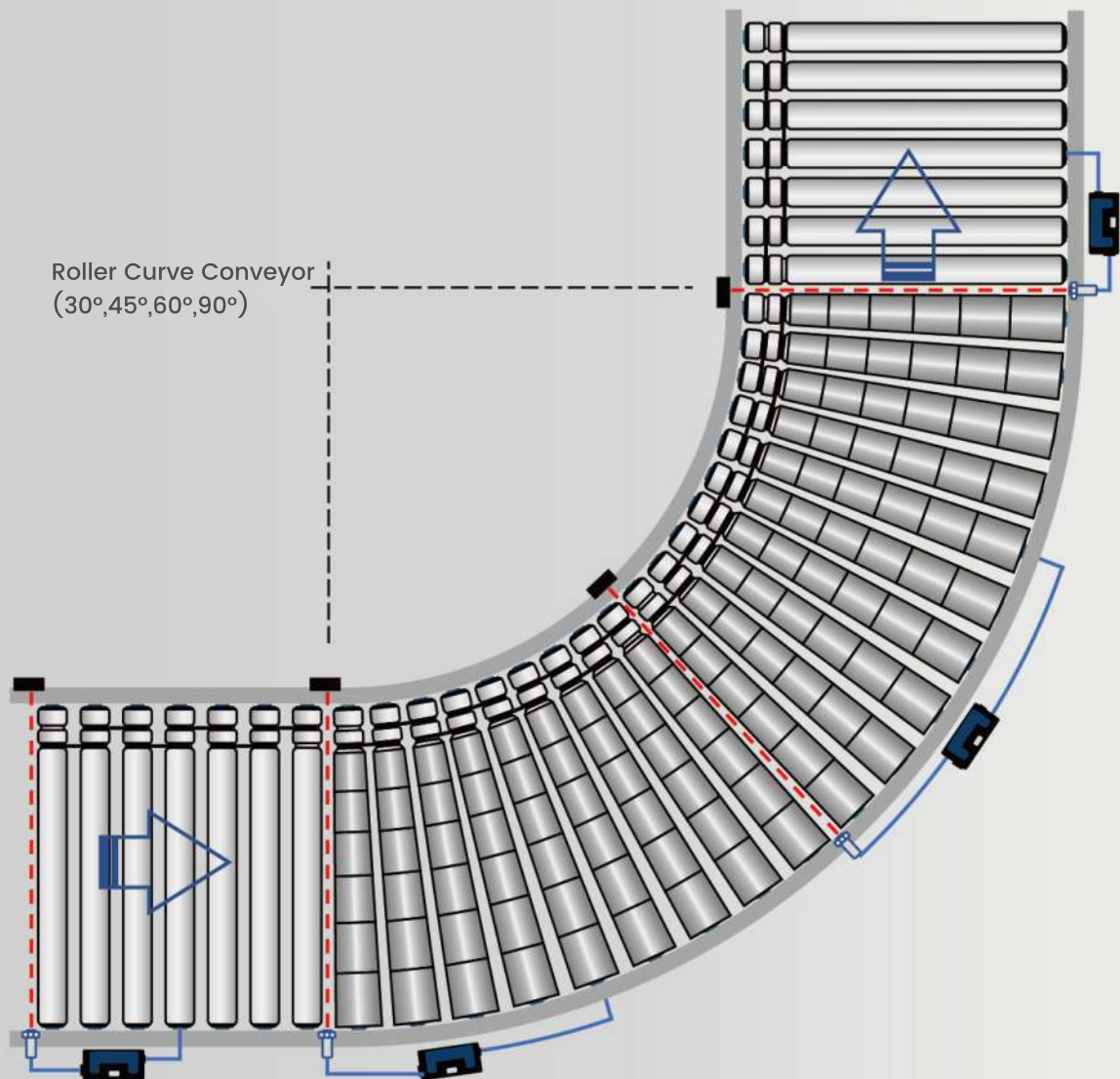
Transfer, 90° throughput reaches 1800 pcs/h.



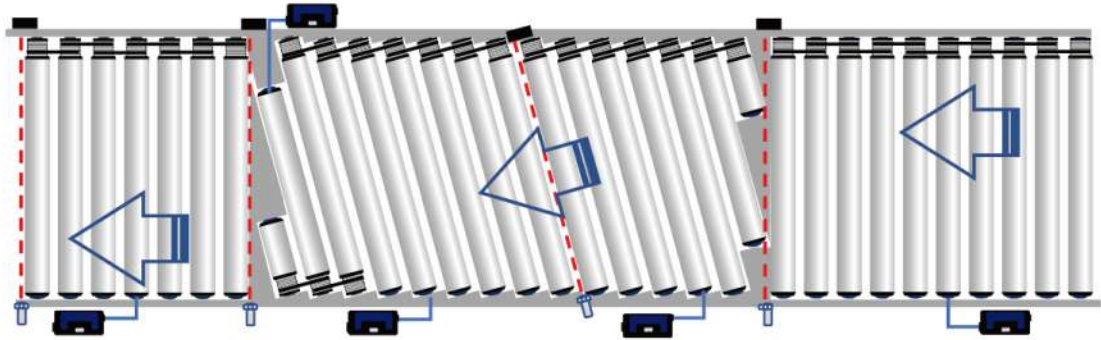
Diverge modular, 30° and 45° throughput reaches 6000 pcs/h.

Conveyor Modules

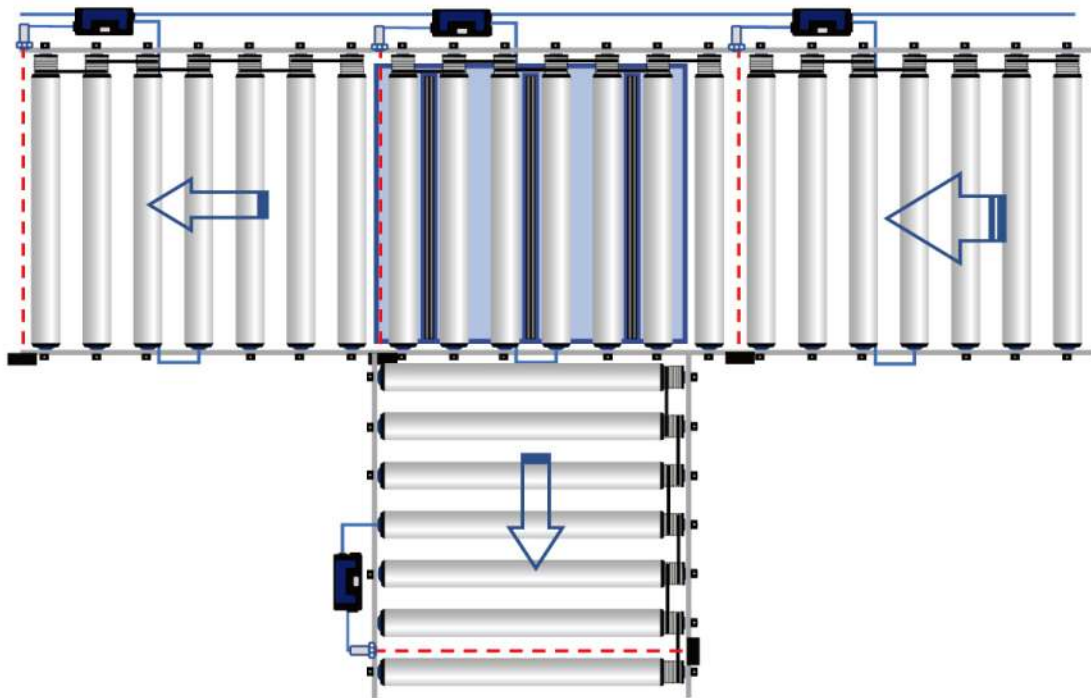
We can provide modular roller conveyor and belt conveyors to realize various functions such as straight-line conveying, curve conveying, side-guider, diverter, merge and etc.



Conveyor Modules

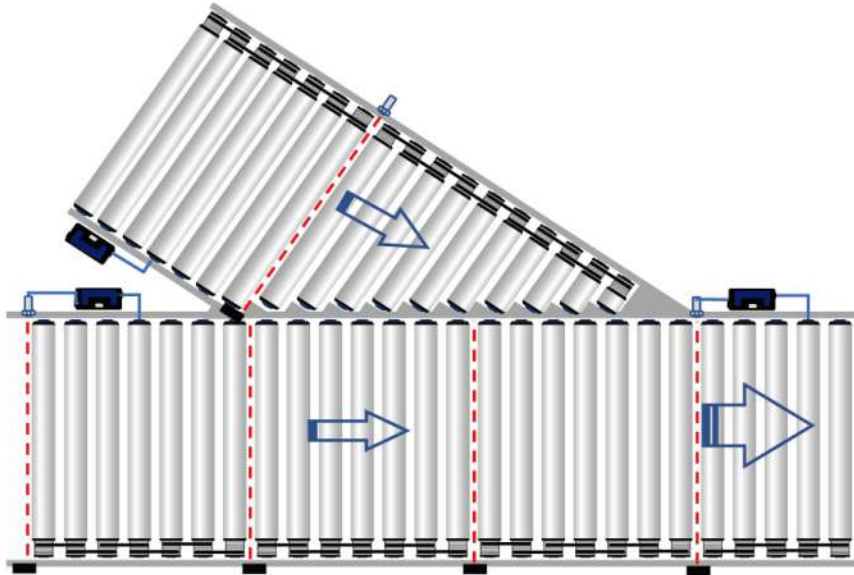


Skewed Conveyor

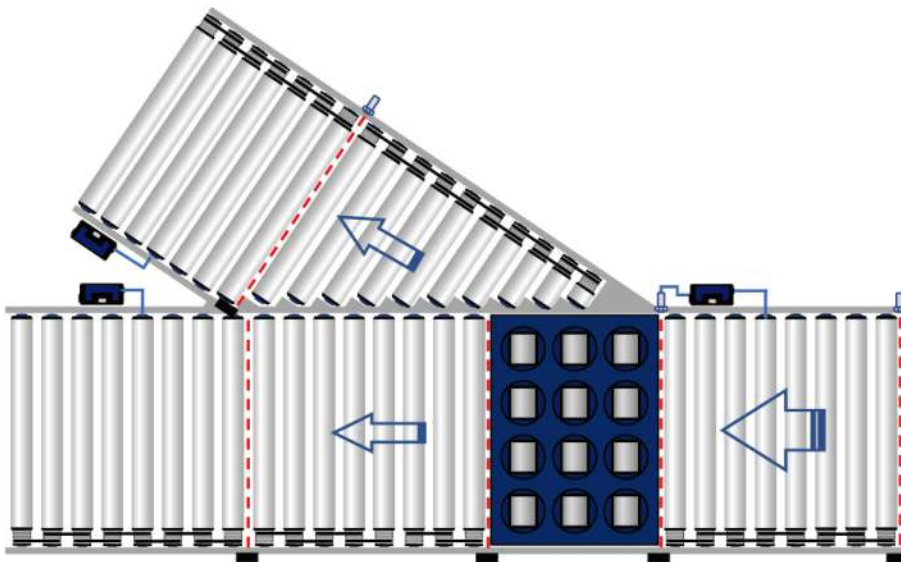


Transfer

Conveyor Modules

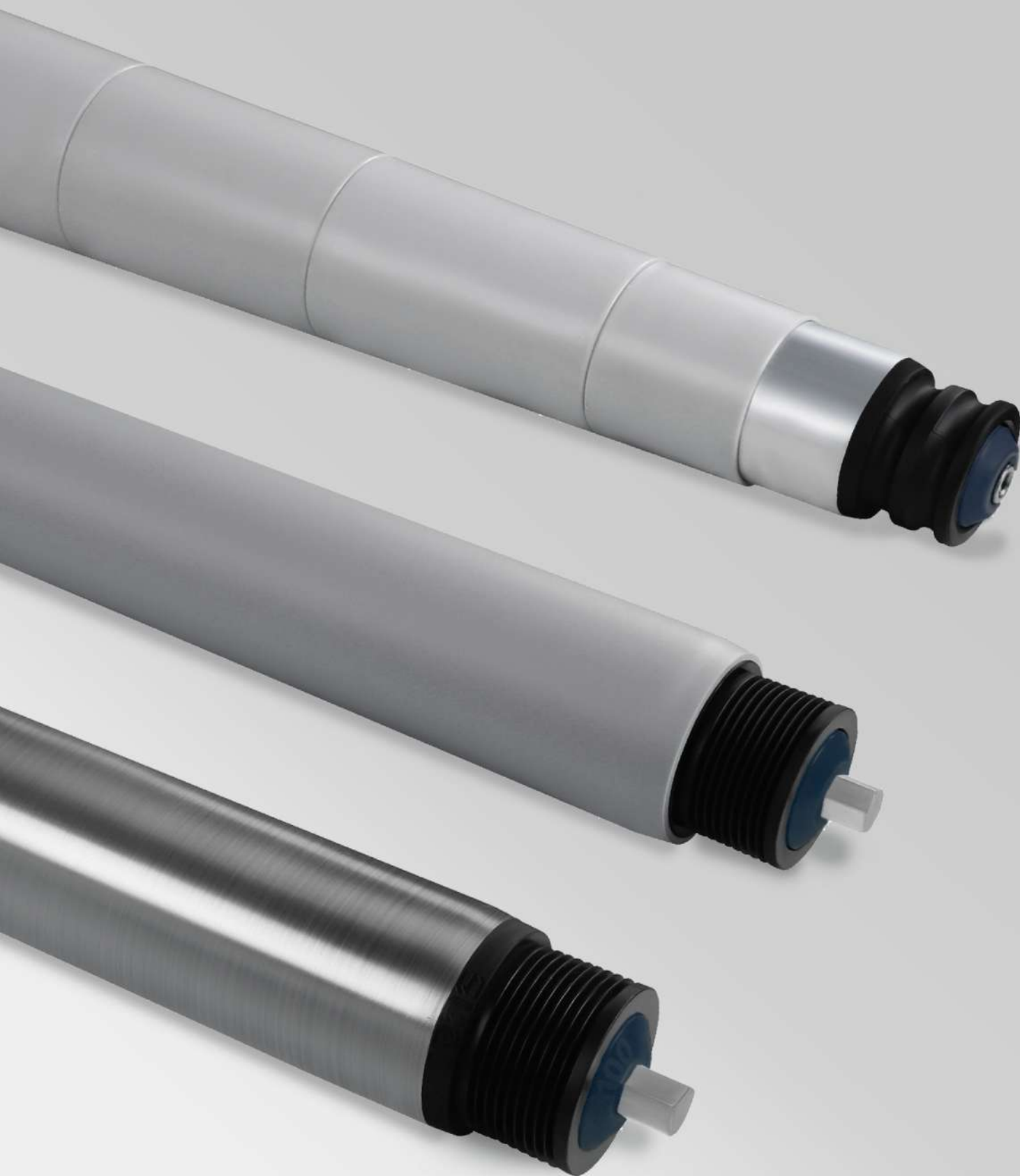


Merge Conveyor(30°, 45°)



Diverge Conveyor(30°, 45°)

EZYROLLS



Roller



Parameter

- Tube Size: \varnothing 50x1.5mm
- Tube option: Zin-plated steel, stainless steel
- Wattage - 60w, 80w

Shaft diameter + installation method

Steel Pipe Material and Size

Driver

Spring loaded
11 HEX / \varnothing 12

M8 internal thread
 \varnothing 12 / \varnothing 14

Steel Pipe Material and Size	Driver	Spring loaded 11 HEX / \varnothing 12	M8 internal thread \varnothing 12 / \varnothing 14
	No Driver Head		
	Multiple Wedge		
\varnothing 50x1.5 Galvanized carbon steel	Double V-ribbed Head		
304 Stainless Steel	Timing Belt		
201 stainless steel	Take the lead		
	Roll Groove		

Covered Roller



Parameter

- Tube Size: Ø50x1.5mm
- Tube option: Zinc-plated steel, stainless steel
- Wattage - 60w, 80w

Steel pipe material and size

Drive

Shaft diameter + installation method

Spring Loaded

M8 internal thread

Steel pipe material and size	Drive	Spring Loaded	M8 internal thread
2mm / 5mm PVC lagging	No Driver Head		
	Multiple Wedge		
	Double V-ribbed Head		
	Timing Belt		
	Take the lead		
	Roll Groove		
2mm PU lagging	No Driver Head		
	Multiple Wedge		
	Double V-ribbed Head		
	Timing Belt		
	Take the lead		
	Roll Groove		

Tapered Roller



Parameter

- Tube Size: $\varnothing 50 \times 1.5 \text{mm}$
- Tube option: Zinc-plated steel, stainless steel
- Wattage - 60w, 80w

Taper Sleeve (mm) optional size is as follows:

300	400	500	600	700	800	900	1000	1100
350	450	550	650	750	850	950	1050	

Spring Loaded

M8 internal thread installation













Ezyrolls DC Drive Roller



Parameter

- 50x1.5mm
- Tube option: zinc-plated steel, 304 stainless steel
- Efficiency
- Low costs on hardware of conveyor and drive
- Easily handle heavy load, especially in lithium battery industry
- Ambient temperature: -30°C ~ 40°C
- Wattage - 60w, 80w

Main Specifications

Multiple Wedge Polyvee belt head	11mm hex spring press-fit	
	internal thread M8	
Syncho lead Timing belt head	11mm hex spring press-fit	
	internal thread M8	
Take the lead Round belt head	11mm hex spring press-fit	
	internal thread M8	
Double Roll Tube with grooves	11mm hex spring press-fit	
	internal thread M8	
No drive Normal head	11mm hex spring press-fit	
	internal thread M8	

Ezyrolls DC Drive Roller



Parameter

- Direct current voltage: 24v / 48v
- 15 gear ratio, all speeds output the highest torque
- For more parameters, please get in touch with us directly.
- Wattage - 60w, 80w

Rated Torque (Nm)	24v/35v				24v/50v			
	Max. Speed (Nm)	Startin Torque (Nm)	Rate Torque (Nm)	Stall Torque (Nm)	Max. Speed (Nm)	Startin Torque (Nm)	Rate Torque (Nm)	Stall Torque (Nm)
9:1	2.04	1.17	0.47	0.47	2.04	1.67	0.67	0.67
12:1	1.53	1.56	0.63	0.63	1.53	2.23	0.89	0.89
16:1	1.14	2.08	0.83	0.83	1.14	2.98	1.19	1.19
18:1	1.02	2.34	0.94	0.94	1.02	3.35	1.34	1.34
24:1	0.76	3.13	1.25	1.25	0.76	4.46	1.79	1.79
27:1	0.68	3.52	1.41	1.41	0.68	5.02	2.01	2.01
36:1	0.51	4.69	1.88	1.88	0.51	6.69	2.68	2.68
48:1	0.38	6.25	2.50	2.50	0.38	8.93	3.57	3.57
54:1	0.34	7.03	2.81	2.81	0.34	10.04	4.02	4.02
64:1	0.29	8.33	3.33	3.33	0.29	11.90	4.76	4.76
72:1	0.25	9.38	3.75	3.75	0.25	13.39	5.36	5.36
96:1	0.19	12.50	5.00	5.00	0.19	17.85	7.14	7.14
108:1	0.17	14.06	5.63	5.63	0.17	20.08	8.03	8.03
144:1	0.13	18.75	7.50	7.50	0.13	26.78	10.17	10.17
216:1	0.08	28.13	11.25	11.25	0.08	40.16	16.07	16.07

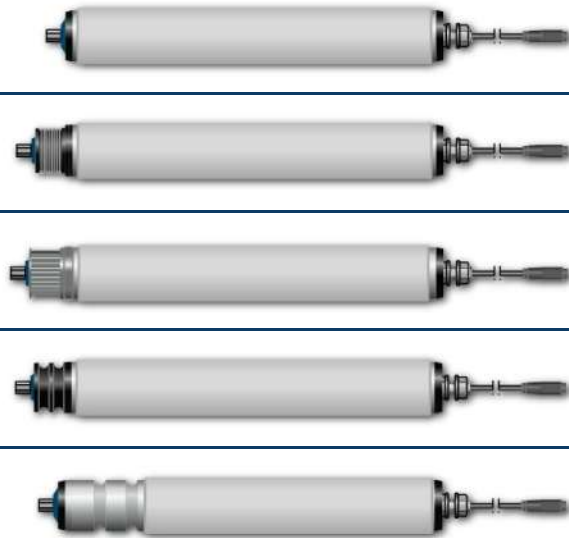
2mm/5mm PVC Cover Driver Roller



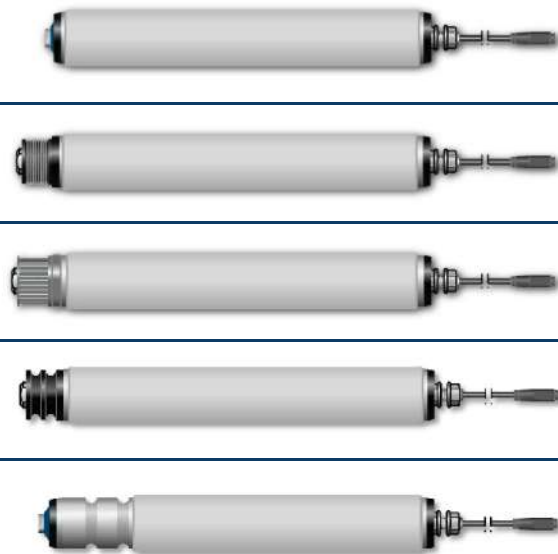
Parameter

- Tube size: 50x1.5mm
- Tube Option: Zinc-plated steel, stainless steel
- Wattage - 60w, 80w

Spring Loaded



M8 internal thread installation



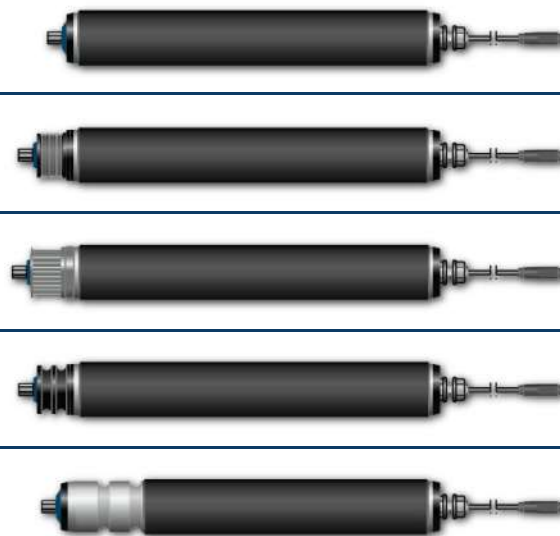
2mm/5mm PU Cover Driver Roller



Parameter

- Tube size: 50x1.5mm
- Tube Option: Zinc-plated steel, stainless steel
- Wattage - 60w, 80w

Spring Loaded



M8 internal thread installation



Tapered Drive Roller



Parameter

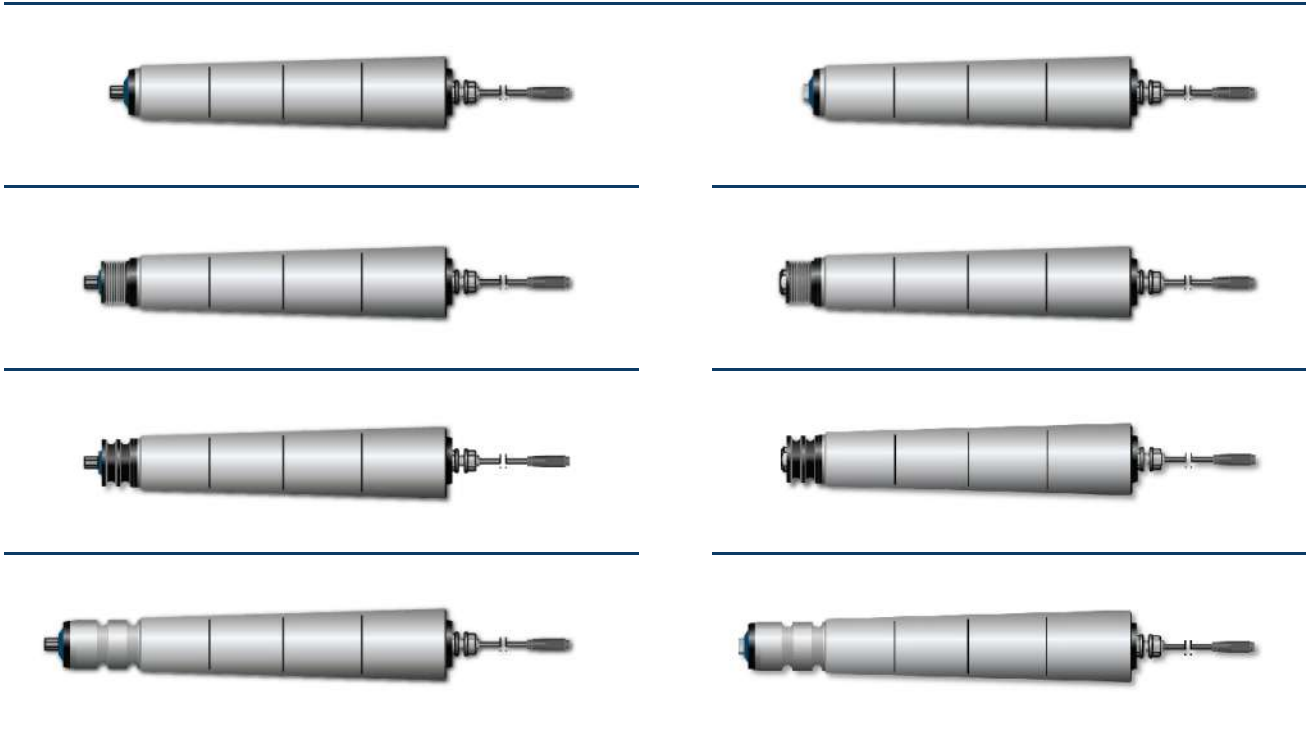
- Tube size: 50x1.5mm
- Tube option: Zinc-plated steel, stainless steel
- Wattage - 60w, 80w

Taper sleeve (mm) optional size is as follows

300	400	500	600	700	800	900	1000	1100
350	450	550	650	750	850	950	1050	

Spring loaded

M8 internal thread installation



Conveyor Modular



Transfer, built-in with Timing Belt head roller drive, modularized and standardized, main specification as following:

- 2 lift bars, 3 lift bars, 4 lift bars, 5 lift bars option
 - Max transfer capacity: 1800pcs/h
 - Customize size
 - Max throughput: 2m/s
-



Merge, use our modularized and standardized product, heavy duty roller drive, main specification as following:

- Merge angle: 30. ,45.
 - Max throughput: 3m/s
 - Merge capacity: 6000pcs/h
 - Customize size
-



Sorter carter adopt the DC Brushless Drive Roller drive or DC Servo roller drive, majjor benefits as followings:

- Max speed: 3.0m/s, adjustable by programming
 - Compact concept, lower the weight and volume of carter
 - Accurately positioning
 - Max Load: 50kg
-

Servo Drum Roller



EZYR-67 (Sorter machine)

Input voltage: 48V/72V/220V
Rated power: 200W/300W/400W/800W
Roller cylinder length: 428L
Roller outer diameter: φ67
Roller load: 10kg/15kg/20kg/40kg
Roller application: Cross-belt, weighing, sorting trolley



Servo magnetic external roller/ permanent magnet motor:



Input voltage: AC220V
Rated power: 400W/2500W
Roller rotary speed: 500-1000rpm
Communication mode: IO/485
Roller advantage: high precision control, real-time response, acceleration and deceleration can be adjusted to ensure smooth loading and unloading of packages
Suitable for packages of 60-100-150-200KG



Salient Features

1. Direct drive

Suitable for frequent starts and stops

2. Maintenance free

No gears inside the roller, maintenance free during long-term operation

3. Efficient

Efficient and energy-saving design products

4. Dynamic response

Dynamic response at the millisecond level

5. High strength

High load-bearing capacity, suitable for belts

6. Low noise

Suitable for occasions with high noise requirements

7. Wide speed range

A wide speed range speed

8. Low temperature resistance

Good on-load starting performance at 30 °C below zero

Direct Drive Roller & Servo Drive Roller

Direct Drive Roller, adopts outer rotor mode (different from traditional mode of speed adjustment by gear box), more compact, flexible and smooth speed adjustment, Servo Drive Roller, combines with EZYROLLS Servo Drive, I/O many protocols, matches encoder mode of many motors. Apply to lots of situations requested high precision, such as sorter, high speed diverge sorter, single diverge, slim belt Sorter

- Length range customize: range from 60mm - 1000mm
- Outer diameter option: 067mm, 070mm
- Lagging rubber profile: longitudinal grooves, diamond pattered, smooth

Inputvoltage: 48V

Rated power: 50W/75W/100W

Roller cylinder length: 73L/120L

Roller outer diameter: 067/070

Roller load: 15kg/20kg/25kg

Roller application: Sorting conveyor

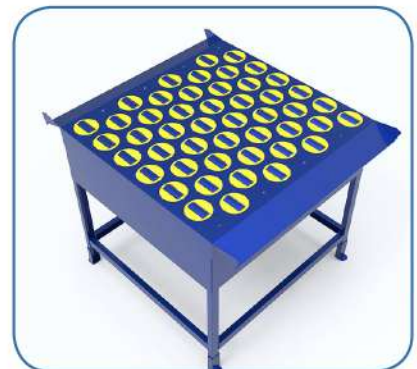
Roller advantage: The installation roller array is composed of motor roller, which can be centrally controlled by 485 communication bus for start stop speed regulation. There is no wear and consumption of traditional structures during operation, achieving maintenance free operation.

Special drive for the cycloid roller :

Communication mode: 485

Roller control: One controller can control four rollers

Installation method: Control cabinet or mechanical structure bottom



EZY-S100



VARIABLE FREQUENCY MOTORIZED ROLLER CONTROLLER

Controller Type	Comparative Item	EZY-S100
Electrical Specification	Rated power	DC24V/48V
Speed Parameter	Speed Adjustable Range/RPM	600~ 6900
	Acceleration and Deceleration Range/s	.39~3.9
	Connect with Roller	1 drag 1
Electrical Connection Mode	PNP	✓ (internal jumper)
	NPN	✓ (internal jumper)
	Open Loop	✓
Open Closed Loop	Colsed Loop	✓
	External Analog	✓ (0-10V)
Control Mode	IO	✓
	Multi-Speed	3speed
	RS485	✓
	Electronic Brake	✓
Brake Mode	Free Brake	✓
	Servo Brake	✓
	ERROR-N	×
Fault Output	ERROR-P	×
	ERROR	PNP connection,true 13V, wrong 2V NPN connection,true 13V, wrong 2V

EZY-K100



VARIABLE FREQUENCY MOTORIZED ROLLER CONTROLLER

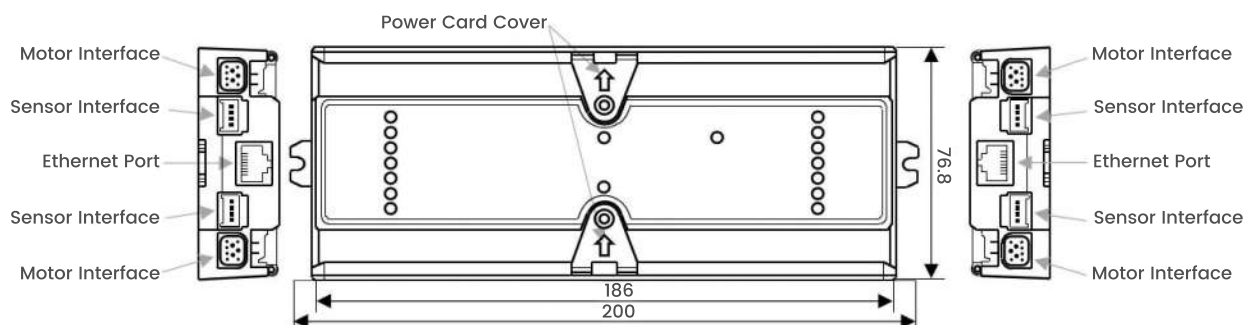
Controller Type	Comparative Item	EZY-K100
Electrical Specification	Rated power	DC20V ~65V
Speed Parameter	Speed Adjustable Range/RPM	1000~6900
	Acceleration and Deceleration Range/s	0.3~4
Electrical Connection Mode	Connect with Roller	1 drag 2
	PNP	✓ (Customer free choice)
	NPN	✓ (Customer free choice)
Open Closed Loop	Open Loop	×
	Closed Loop	✓ (Default closed loop)
Control Mode	External Analog	×
	IO	✓
	Multi-Speed	7speed
	RS485	✓
Brake Mode	Electronic Brake	✓
	Free Brake	×
	Servo Brake	✓
Fault Output	ERROR-N	wrong ov, true +24V/48V
	ERROR-P	wrong+24V/48V, true 0V
	ERROR	×

EZ-PRO 100 BUS DRIVER



**VARIABLE FREQUENCY
MOTORIZED ROLLER
CONTROLLER**

Controller specifications		
Power Supply	Rated Voltage	Power Supply: 48/24VDC Logic Power: 24VDC
	Quiescent Current	0.15A
	Peak current	20A ≤ 1ms (Each Motor)
LED Indication		Motor, Sensor, Power, Supply, Network, Status
Power Protection		Power Supply Polarity Reverse Protection, Overvoltage and Undervoltage Protection
Over Temperature Protection		Control Card 90° C, Motor 105° C
Power Interface		ASI Standard Flat Wire Puncture
Motor Interface		Ezyrolls Dedicated Interface
Sensor Interface		Spring-Loaded 4-pin Male Connector
Network Interface		RJ45
Working Condition	Ambient Temperature	-20 to 49° C
	Environment Humidity	≤ 90% Relative Humidity (No Condensation)
	Gas Conditions	No Corrosive Gas
	Vibration Amplitude	≤ 1.0G



unit:mm



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