

## Φ60 100W Double Sprocket Drive Motorized Roller for Heavy Pallet Transportation

Our Product Introduction

### Basic Information

- Place of Origin: China Jiangsu
- Brand Name: Winroller
- Certification: CE, ROHS2.0, EMC, ISO9001
- Model Number: Winroller Φ60 100W Double Sprocket Drive Motorized Roller
- Minimum Order Quantity: 1 stick
- Price: Contact Us
- Packaging Details: Wooden case
- Delivery Time: 7-15 word days
- Payment Terms: TT, L/C
- Supply Ability: 1000000/year



### Product Specification

- Features: High Torque, High Performance, Energy Saving, Low Noise
- Product Name: Φ60 100W Double Sprocket Drive Motorized Roller
- Diameter: 60mm
- Voltage: 24V, 48V
- Power: 100W
- Type: DC Brushless Gear Deceleration Motor Drum
- Protection Level: IP66, IP67
- Maximum Load: 550kg
- Cylinder Material: Carbon Steel, S201, S304
- Application: Pallets Drive Motor Roller For Medium And Heavy Pallet Transportation
- Highlight: **100W Motorized Drive Roller , 60mm Motorized Drive Roller, 100W pallet conveyor roller**



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## Φ60 100W Double Sprocket Drive Motorized Roller for Heavy Pallet Transportation

### Features Overview of Φ60 100W Double Sprocket Drive Motorized Roller

The Φ60 100W Double Sprocket Drive Motorized Roller offers high torque, energy efficiency, and low noise operation for reliable medium to heavy pallet transportation in industrial and logistics applications., including logistics, food handling, furniture, and machinery.

### Function of Φ60 100W Double Sprocket Drive Motorized Roller

The Φ60 100W Double Sprocket Drive Motorized Roller is engineered to provide efficient and reliable pallet transportation, particularly for medium to heavy loads. It features a high torque output and an energy-efficient DC brushless motor, which ensures effective movement while minimizing power consumption.

This motorized roller is ideal for a wide range of applications, including material handling, food processing, furniture transport, and machinery movement, offering versatility across various industrial and logistics environments.

Its low noise operation enhances workplace comfort, while the robust carbon steel construction and high protection ratings (IP66/IP67) ensure exceptional durability and resistance to dust and water ingress. This makes the roller a dependable choice for challenging conditions, ensuring long-term performance and reliability.

### Application of Φ60 100W Double Sprocket Drive Motorized Roller

**Logistics and Warehousing:** Ensures smooth and effective movement of medium to heavy pallets within distribution centers and warehouses.

**Food Processing:** Provides a hygienic and low-noise solution for handling packaged goods, with its IP66/IP67 rating ensuring protection against water and dust, which is essential for clean and sanitary operations.

**Furniture Industry:** Facilitates the transport of large and heavy furniture items during manufacturing and distribution processes.

**Machinery and Industrial Use:** Supports the movement and handling of heavy machinery components and equipment in manufacturing environments.

**Manufacturing:** Enhances production efficiency by reliably transporting materials across production lines, even in challenging conditions.

### Technical Parameters of Φ60 100W Double Sprocket Drive Motorized Roller

Φ60 100W Double Sprocket Drive Motorized Roller

Application	Φ60 Pallets Drive Motor Roller For Medium And Heavy Pallet Transportation	Voltage	24V, 48V
Power	100W	Diameter	60mm
Type	DC brushless gear deceleration motor drum	Protection Level	IP66, IP67
Maximum Load	550kg	Cylinder Material	Carbon Steel, s201, s304
Features	High Torque, High Performance, Energy Saving, Low Noise		

DGBL60A Motorized roller characteristic table

Nominal speed	Speed adjustable range 8.7%-100%	Standard								Enhanced							
		S1 working system(40W)				S2 working system(50W)				S1 working system(80W)				S2 working system (100W)			
		Torque N.m		Traction N		Torque N.m		Traction N		Torque N.m		Traction N		Torque N.m		Traction N	
		rated	start	rated	start	rated	start	rated	start	rated	start	rated	start	rated	start	rated	start
12	1.04-12	5.5	30.3	183	1008	7.11	39	237	1304	9.5	52.5	316	1741	10.6	53	380	2090
16	1.39-16	3.98	21.9	132	729	5.12	28.2	170	935	6.8	37.4	226	1243	7.68	38.4	272	1496
26	2.26-26	2.8	15.4	93	511	3.48	19.1	116	638	4.7	25.8	156	858	5.36	26.8	188	1034
30	2.61-30	2.4	13.2	80	440	2.98	16.4	99	545	4.1	22.6	136	748	4.6	23	164	902
43	3.74-43	1.7	9.4	56	311	2.15	11.8	72	396	2.9	16	96	528	3.3	16.5	116	638
61	5.31-61	1.20	6.6	40	220	1.50	8.3	50	275	2.0	11	66	363	2.3	11.5	80	440
72	6.26-72	1.02	5.6	34	187	1.29	7.1	43	237	1.75	9.6	58	319	1.97	9.85	70	385
100	8.7-100	0.74	4.1	25	135	0.92	5.1	31	171	1.3	7.2	43	236	1.42	7.1	52	286
144	12.5-144	0.51	2.8	17	93.5	0.64	3.5	21	115	0.88	4.8	29	159	0.98	4.9	35.2	193.6

NOTE:  3-STAGES OF GEAR REDUCTION       2-STAGES OF GEAR REDUCTION

S1 working system--Suitable for continuous material transfer, such as belt conveyor.

S2 working system--Suitable for intermittent material transfer, such as box transfer.

※ 1. 1N=0.1kgf. 1N·m=0.1kgf·m;

※ 2. The value of the characteristic table is for reference only;

※ 3. At constant speed closed loop control, no load or rated load, the speed is consistent;

※ 4. The speed adjustable range is 8.7%-100% of the rated speed;

※ 5. Other speeds can be customized:For faster speeds, please refer to DGDD direct drive motorized roller catalog;

※ 6. Sprocket drive mode conform this table.; Poly-V belt drive mode single modular load 200KG Max.

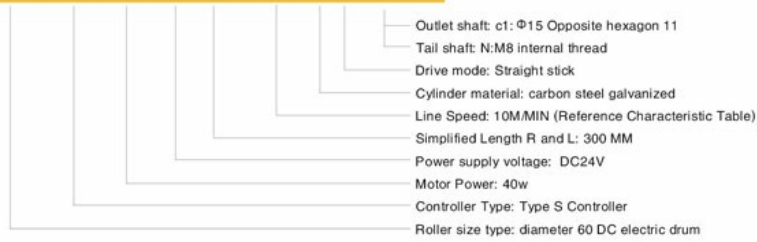
O belt mode single modular load 35kg Max.

reminder:

The switch power supply of a single motorized roller should be selected 1.5 times according to the motorized roller power.

## BL60 Model analysis




DGBL60 - S - 40W - 24V - 300L - 10 MMIN - X - I - C1 N



BL60 Optional parameter table

DGBL	60	40W	B	24V	10M	300L	X	L	C1	N
Roller size type	Diameter	Power	Con-troller	Elegant power supply	speed	Cylinder length	Cylinder material	Linkage mode	Outlet end shaft	Tailend shaft
DGBL	60	40W 50W 80W 100W	S100 D型 K100 H100	24V 48V	reference resources: [bl60 Mechanical parameters]	Customizable	X: Galvanizing of carbon steel G: Hard chromium plating on carbon steel P: Wrapped with polyurethane adhesive S3: Stainless steel 304 S2: Stainless steel 201 JT: Rubber JZ: Gluing JP: PVC soft adhesive JG: Stainless steel 304	Q: Multi-wedge belt ZT: Taper sleeve T: Synchronizing wheel E: O Sheave L: Sprocket O: Sprocket #: Knurling I: Straight roll U: Drum type	C1: $\Phi 12$ hexagon opposite side 11 C2: M12 hexagon opposite Side 11	C1: $\Phi 12$ hexagon opposite side 11 C2: M12 hexagon opposite Side 11 N: M8 internal thread
Other voltage and drum shape can be customized. ※ Special requirements: Dustproof and waterproof (IP65) --- HS; Brake: electronic brake or (mechanical brake - Z. Product discharge (adjustable product discharge) --- AU; The elastic axis, TX; ※ The material of cone rod is only (galvanized, stainless steel).										

**CONTROL SYSTEM**

Comparative item  Controller type		VECTOR-S100	VECTOR-K100	HB-100
				
Electrical specification	Rated power	DC24V/48V	DC20V~65V	DC19V-60V
Speed parameter	Speed adjustable range/rpm	600 ~ 6900	1000~6900	600~6900
	Acceleration and deceleration range/s	0.39 ~ 3.9	0.3~4	0.3~4
Electrical connection mode	Number of driving rollers	1	2	4
	PNP	✓ (internal jumper)	✓ (Customer free choice)	✓ (Customer free choice)
	NPN	✓ (internal jumper)	✓ (Customer free choice)	✓ (Customer free choice)
Open-closed loop	Open loop	✓	×	×
	Colsed loop	✓	✓ (Default closed loop)	✓ (Default closed loop)
Control mode	External analog	✓ (0-10V)	×	Profinet Ethernet CC-Link Modbus TCP
	IO	✓	✓	
	Multi-speed	3 speed	7speed	
	RS485	✓	✓	
Brake mode	Electronic Brake	✓	×	✓
	Free brake	✓	✓	✓
	Servo brake	✓	✓	✓
Fault output	ERROR-N	×	wrong 0V, true +24V/48V	Computer control self-adaption
	ERROR-P	×	wrong +24V/48V, true 0V	
	ERROR	PNP connection, true 13V, wrong 2V NPN connection, true 13V, wrong 2V	×	

**BL60 Linkage mode**



**DRIVE MODE**



## BL50 Surface treatment

The standard model of the electric drum designed by our company is not covered by glue by default. If you need, we can do the glue wrapping treatment. The glue surface has plane, herringbone, diamond pattern, etc; Most specifications can have additional functions; For example, in different environments, the exposed parts such as shaft and barrel can be made of wear-resistant and corrosive materials, stainless steel, etc. Silica gel for food industry is food grade. Waterproof roller can be selected for those with waterproof requirements.

<p><b>POLYURETHANE ADHESIVE</b></p> <p>Excellent wear resistance Low temperature resistance, ozone resistance, radiation resistance, electrical insulation, good adhesion Good cushioning and shock absorption Good oil and drug resistance</p> 	<p><b>PVC SOFT ADHESIVE</b></p> <p>Temperature resistance characteristics Weatherability Electrical insulation performance Low surface tension and low surface energy Physiological inertia</p> 
<p><b>BLACK RUBBER</b></p> <p>Good elasticity Friction, Prevent slipping, protect goods Reduce noise</p> 	<p><b>PVC SOFT ADHESIVE</b></p> <p>Temperature resistance characteristics Weatherability Electrical insulation performance Low surface tension and low surface energy Physiological inertia</p> 

Note : It's just the typical technical data for you reference, The specification such as voltage, speed, torque, shaft can be customized by your needs. Please contact us for more details. Thanks.

## Feature Picture of $\Phi 60$ 100W Double Sprocket Drive Motorized Roller





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