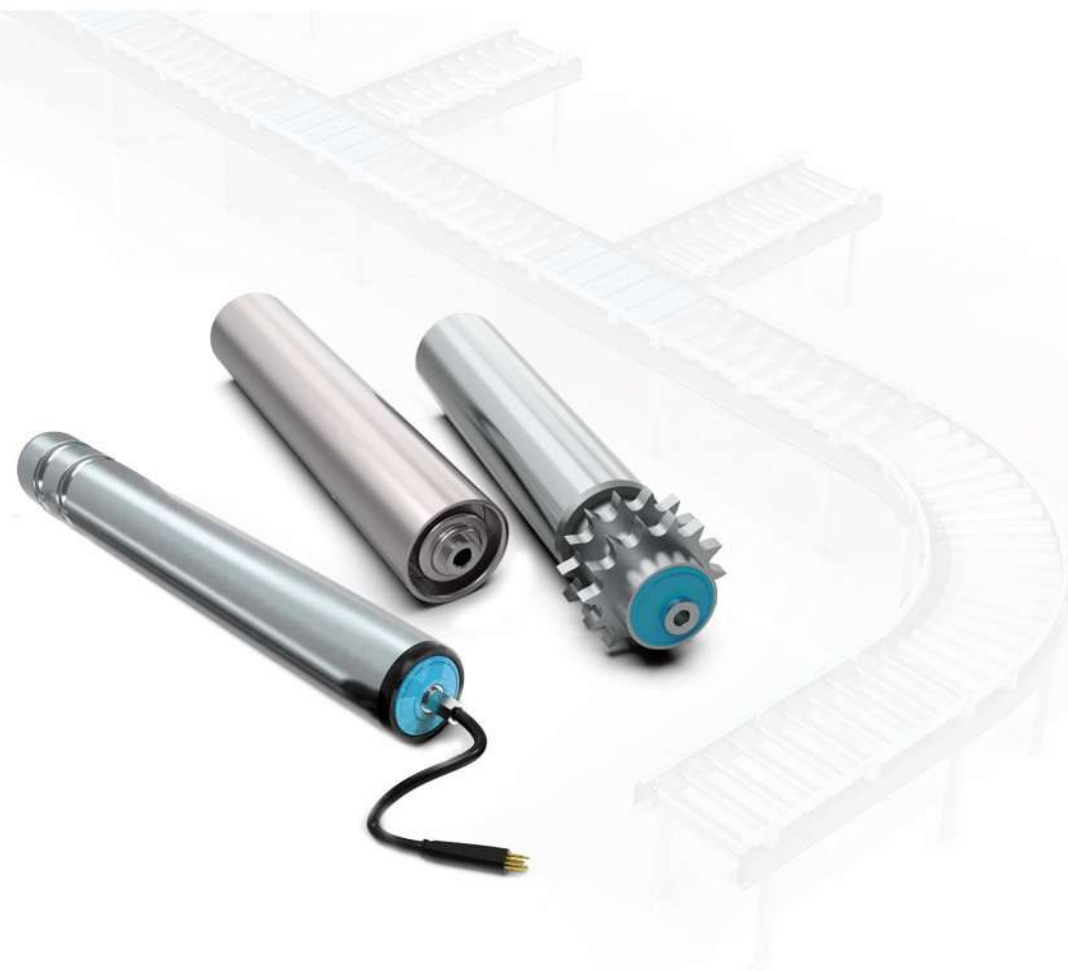




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Version: 20250909G



WUXI SZ MOLD CO., LTD

MOTOR DRIVE ROLLER

CATALOG

24V 直流电动滚筒

24V DC ELECTRIC DRUM

HXDC micro electric drum driven by 24V DC stepless speed control is researched and developed to address the requirement for lower carbon, more energy saving, more environmental-friendly and more intelligent industry today. The advanced and efficient NdFeB permanent magnet synchronous motor is taken as the power source and overcomes the conventional three-phase and single-phase AC. The disadvantages of electric drum, such as: low efficiency, low power, narrow speed controllable range, high temperature rising and others, greatly increase the flexibility of conveyor design and the function of communicating with the electric control outside, making a new breakthrough for small-radius electric drum.



Quality Features

■ Built-in high-efficiency NdFeB permanent magnet synchronous motor

The high-efficiency NdFeB permanent magnet synchronous motor is of higher converting efficiency that conventional AC motor. Under the same load, it can save more 32% power than conventional AC motor; under the no-load condition, the more power saved by it is up to 47%. The electric drum is armed with high-efficiency NdFeB permanent magnet synchronous motor so it can make higher torque and reduce the motor temperature rising. Under the constant torque, the stepless speed controllable range is up to 80%.

■ Safety Working Voltage

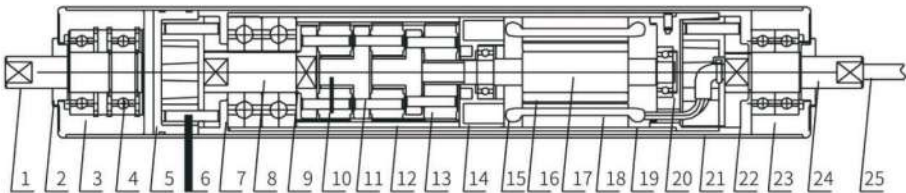
24VDC safety working voltage is adopted for the built-in motor to prevent the risk of electric shock so that operator can work under a safety voltage. The low working voltage makes the motor reliability improved. For some special scenes, such as needing an electric drum for washing and diving, the safety working voltage is the most ideal choice.

■ 24VDC Stepless Speed Control Intelligent Driver

The driver offers three modes: panel button control, switch signal control and 0-10V analog quantity signal control. It can be directly connected to computer, barcode reader, infrared detector and others to control the transmission scene in an advanced manner. The photoelectric numerical tube can visually display the motor speed. Knob or 0-10V analog quantity signal can stepless control the speed to the required one.

■ Durable metal gear

Internal Structural Diagram of HXDC Series DC Brushless Electric Drum



Part List

1	Carbon steel rear shaft	10	Metal sun gear	19	Motor casing
2	Dust cover	11	Planetary gear pin	20	Die-cast aluminum motor front seal cover
3	Die-cast aluminum rear seal cover	12	Annular gear	21	Drum steel pipe
4	Bearing	13	Metal planetary gear	22	Connecting flange
5	Cylinder connecting seat	14	Motor front cover	23	Die-cast aluminum front seal cover
6	Cylinder connecting assembly	15	Motor stator coil	24	Carbon steel front shaft
7	Bearing	16	NdFeB magnetic steel	25	Outgoing line of electric drum
8	Transmission box output shaft	17	Motor rotor with gears		
9	Transmission box output gear carrier	18	Motor stator iron core		

Structure Description

■ Cylinder

The standard cylinder is made of low carbon steel with straight cylinder body. The cylinder surface can be knurled and coated with rubber to increase the friction force.

■ Shaft

The shaft of standard electric drum is made of carbon steel. It shall be 304 stainless steel required by food industry.

■ Seal cover

The seal cover of standard electric drum is made of die-cast aluminum alloy and meets the requirements for food industry, or can be customized by using 304 stainless steel.

■ Gear box

It adopts the planetary gear structure, and sun gear, planetary gear and annular gear are metal steel gears. It makes sure the high torque output in a narrow space.

■ Motor

With 24V safety voltage and motor insulation grade of level F, the standard length of exposed line is 1m.

■ Injection Oil

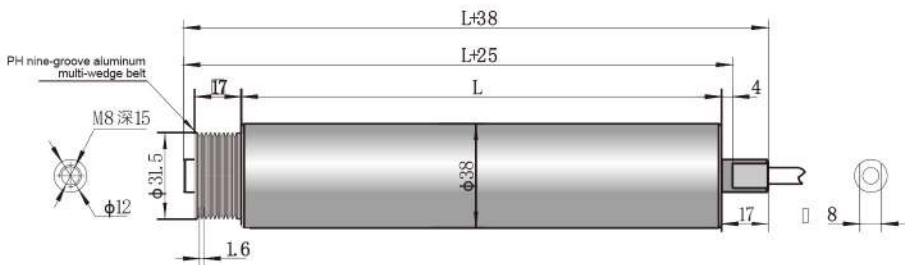
Before delivering from factory, all electric drums are refilled with grease as per standards. They are maintenance-free after use and do not need to be refilled.

■ Others

The backstop can be installed additionally to prevent the inclined belt conveyor from reversing or sliding when stopping with load. It does not affect the lowest length of cylinder. The electromagnetic brake can be installed additionally while the lowest length of cylinder will be lengthened accordingly. It shall be installed horizontally. The belt speed and cylinder length can be tailored according to the customer's requirements.

Different non-standard electric drums can be tailored according to the customer's requirements.

STANDARD OVERALL SIZE DIAGRAM



Cylinder RL size covers the thickness (3mm) of seal cover at both ends

Installation Dimensions
EL=L+25mm

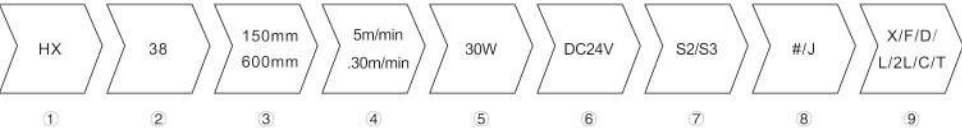
Total length
AGL=L+38mm

The exposed length of shield cable is 1000mm

External feature: Ø12mm shaft; exposed single side: 17mm; milled double sides: 8mm; milled length: 13mm

◇ Note: the exposed length and milled size of standard HXØ38 electric drum shaft are constant. for example: Ø12mm shaft; single side is exposed; milled length: 8mm. When choosing the model, please properly adjust L length to realize the optimal fitting with the frame.

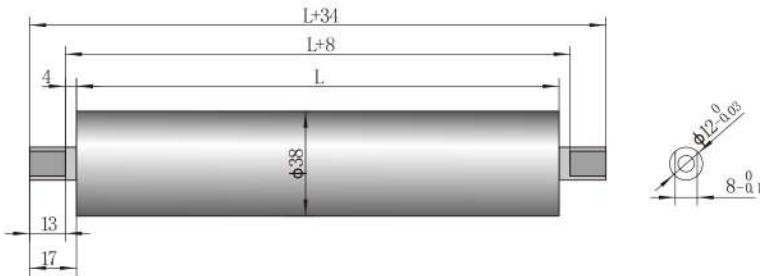
Product Models Description



①	Brand	HXDC
②	Drum diameter	Drum outer diameter: 38mm
③	Drum length	Any sizes with the total length in 150mm-600mm
④	line speed	Drum rotating linear velocity: 5m/min-30m/min
⑤	Rated power	Motor rated power: 30W
⑥	Motor category	DC Brushless Motor
⑦	Drum material	C: carbon steel pipe (ignorable); S3: 304 stainless steel pipe; S2: 201 stainless steel pipe
⑧	Surface treatment mode	# (knurling), J (rubber coating)
⑨	Other requirements	O:O-Groove; Q:PolyVee Pulley V:V-Pulley; E:O-Pulley; L:Sprocket

Manufacturable Linear Velocity List

Low speed	5.0m	◇ The linear velocity of HXDC electric drum can be adjusted downward through the control card and the adjustable range is about 50% of the highest linear velocity. For example, if the medium speed 20 is chosen, the adjustable lowest speed is about 10m. HXDC electric drum is of constant-torque output, which means the output torque data of the fast 10m is identical with that of the lowest 10m. As a result, the highest torque can be realized through choosing the proper linear velocity.
Medium speed	10m, 20m, 30m	◇ The data listed in table is the rated speed and applicable for control card A and B.



Cylinder RL size covers the thickness (3mm) of seal cover at both ends

Installation Dimensions
EL=L+8mm

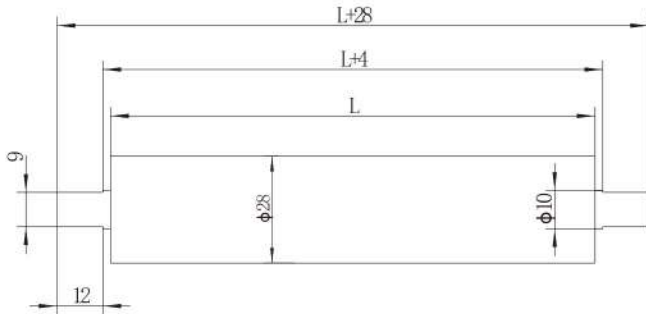
Total length
AGL=L+34mm

The exposed length of shield cable is 1000mm

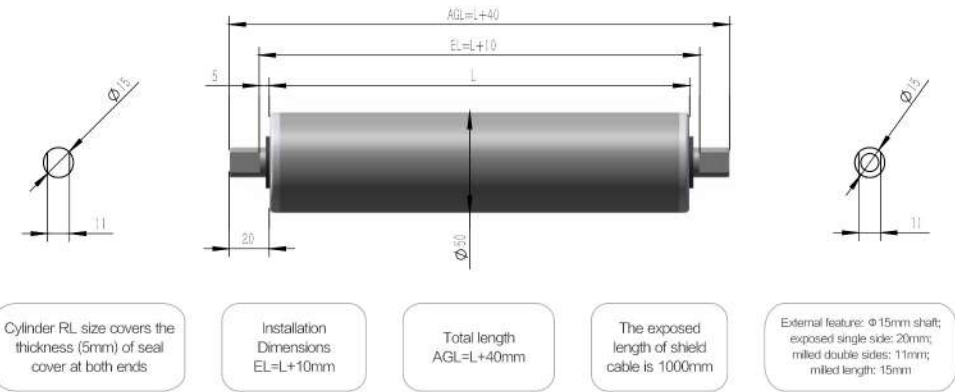
External feature: Ø12mm shaft; exposed single side: 17mm; milled double sides: 8mm; milled length: 13mm

◇ Note: the exposed length and milled size of standard HXØ38 electric drum shaft are constant. for example: Ø12mm shaft; single side is exposed; milled length: 8mm. When choosing the model, please properly adjust L length to realize the optimal fitting with the frame.

Other Micro Electric Drums

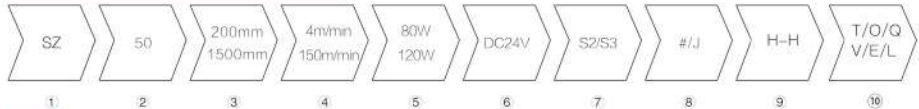


STANDARD OVERALL SIZE DIAGRAM



◇ Note: the exposed length and milled size of standard HXDC50 electric drum shaft are constant. For example: Ø15mm shaft; exposed single side: 20mm; after being milled: 11mm; milled length: 15mm. When choosing the model, please properly adjust L length to realize the optimal fitting with the frame.

Product Models Description



1	Model	HXDC
2	Drum diameter	Ø50mm
3	Drum length	Min. 220mm-1500mm
4	Speed	4m/min-150m/min
5	Power	80W/120W
6	Voltage	DC24/48V Brushless Motor
7	Drum material	C: carbon steel pipe, S3: SUS 304 pipe, S2: SUS 201 pipe
8	Surface treatment	# (knurling), J(rubber coating)
9	Shaft Size	H: Ø12 Milled flat to 8mm N: M8 internal thread C: Ø12 hexagonal D: Ø12 Milled flat to 10mm
10	Connection method	T: Timing Belt pulley O: O-Groove Q: PolyVee Pulley V: V-Pulley E: O-Pulley L: Sprocket

Manufacturable Linear Velocity List

Low speed	4.0m , 5.0m, 6.0m, 7.8m, 10m, 12m	◇ The linear velocity of HXDC electric drum can be adjusted downward through the control card and the adjustable range is about 50% of the highest linear velocity. For example, if the medium speed 20 is chosen, the adjustable lowest speed is about 10m. HXDC electric drum is of constant-torque output, which means the output torque data of the fast 20m is identical with that of the lowest 10m. As a result, the highest torque can be realized through choosing the proper linear velocity. ◇ The data listed in table is the rated speed and applicable for control card A and B.
Medium speed	15m, 20m, 25m, 30m, 40m, 45m	
High speed	60m, 70m, 100m	

Electric Drum Performance Table

Linear velocity (m/min)		DC24V/DC48V								
		Power: 40W			Power: 80W			Power: 120W		
Stepless speed control	Rated speed - lowest speed	Tractive force N	Torque NM	Minimum Face Width mm	Tractive force N	Torque NM	Minimum Face Width mm	Tractive force N	Torque NM	Minimum Face Width mm
4.32	1.73	298.4	7.46	225	298.4	14.92	240	298.4	22.38	250
6.03	2.42	213.6	5.34		427.2	10.68		640.8	16.02	
8.27	3.31	156	3.9		311.6	7.79		467.2	11.68	
9.73	3.9	132.4	3.31		264.8	6.62		397.2	9.93	
11.55	4.62	111.6	2.79		223.2	5.58		334.4	8.36	
13.59	5.44	94.8	2.37	210	189.6	4.74	225	284.4	7.11	235
17.25	6.9	93.6	2.34		186.8	4.67		280	7	
20.48	8.2	78.8	1.97		157.2	3.93		235.6	5.89	
26.17	10.47	61.6	1.54		123.2	3.08		184.4	4.61	
33.06	13.23	48.8	1.22		97.6	2.44		146	3.65	
39.25	15.7	41.2	1.03	195	82	2.05	210	123.2	3.08	220
46.18	18.48	35.2	0.88		70	1.75		104.8	2.62	
81.88	32.76	24.8	0.62		49.2	1.23		74	1.85	
104.67	41.87	19.2	0.48		38.4	0.96		57.6	1.44	

◇ The so-called rated speed refers to the speed under the conditions of rated power and rated load. During idling, the speed is approximately 10% higher than the rated speed due to no load.

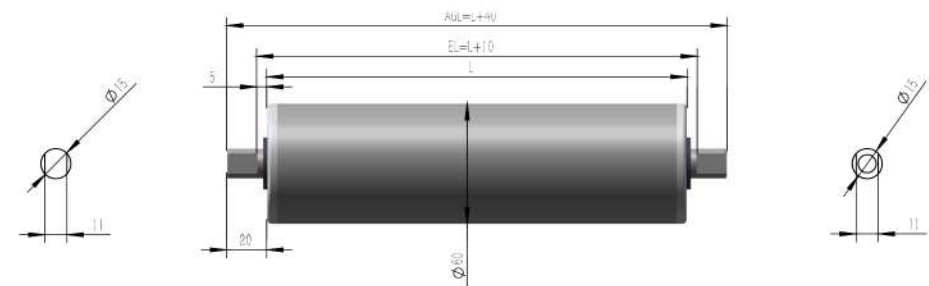
◇ If a dimension shorter than the minimum face width is required, please communicate with our company in advance.

◇ The minimum face width is the dimension for the straight drum, and it will vary with different connection methods.

◇ The torque calculation formula is: Motor output torque × Reduction ratio × Reduction efficiency. The efficiency of each reduction stage is calculated at 80%.

◇ For the 40W model, if the rotational speed exceeds 18 m/min, the minimum face width can be customized to 150mm.

STANDARD OVERALL SIZE DIAGRAM



Cylinder RL size covers the thickness (5mm) of seal cover at both ends

Installation Dimensions EL=L+10mm

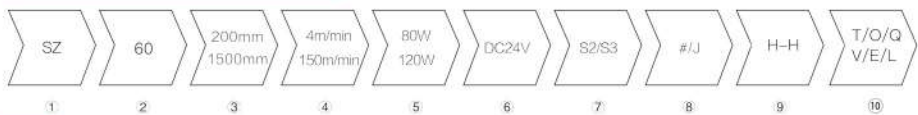
Total length AGL=L+40mm

The exposed length of shield cable is 1000mm

External feature: Ø15mm shaft; exposed single side: 20mm; milled double sides: 11mm; milled length: 15mm

◇ Note: the exposed length and milled size of standard HXDC55 and HXDC60 electric drum shaft are constant. For example: Ø15mm shaft; exposed single side: 20mm; after being milled: 11mm; milled length: 15mm. When choosing the model, please properly adjust L length to realize the optimal fitting with the frame.

Product Models Description



1	Model	HXDC
2	Drum diameter	Ø60mm
3	Drum length	Min. 220mm-1500mm
4	Speed	4m/min-150m/min
5	Power	80W/120W
6	Voltage	DC24/48V Brushless Motor
7	Drum material	C: carbon steel pipe, S3: SUS 304 pipe, S2: SUS 201 pipe
8	Surface treatment	# (knurling), J(rubber coating)
9	Shaft Size	H: Ø12 Milled flat to 6mm N: M8 internal thread C: Ø12 hexagonal D: Ø12 Milled flat to 10mm
10	Connection method	T:Timing Belt pulley O:O-Groove Q:PolyVee Pulley V:V-Pulley E:O-Pulley L:Sprocket

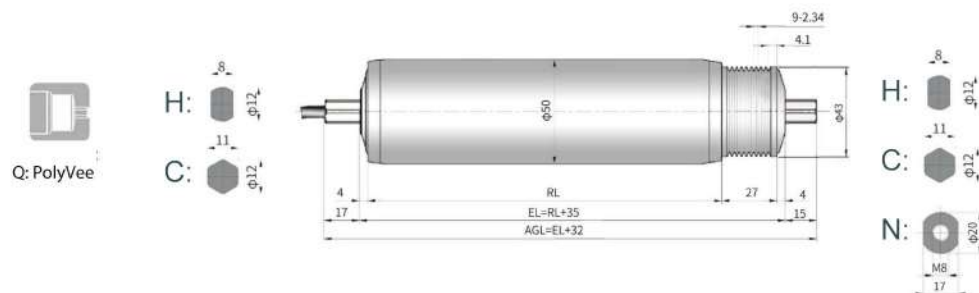
Manufacturable Linear Velocity List

Low speed	5m , 6m, 7m, 9m, 12m, 15m	◇ The linear velocity of HXDC electric drum can be adjusted downward through the control card and the adjustable range is about 50% of the highest linear velocity. For example, if the medium speed 20 is chosen, the adjustable lowest speed is about 10m. HXDC electric drum is of constant-torque output, which means the output torque data of the fast 20m is identical with that of the lowest 10m. As a result, the highest torque can be realized through choosing the proper linear velocity.
Medium speed	20m, 25m, 30m, 40m, 55m	
High speed	60m, 70m, 120m	◇ The data listed in table is the rated speed and applicable for control card A and B.

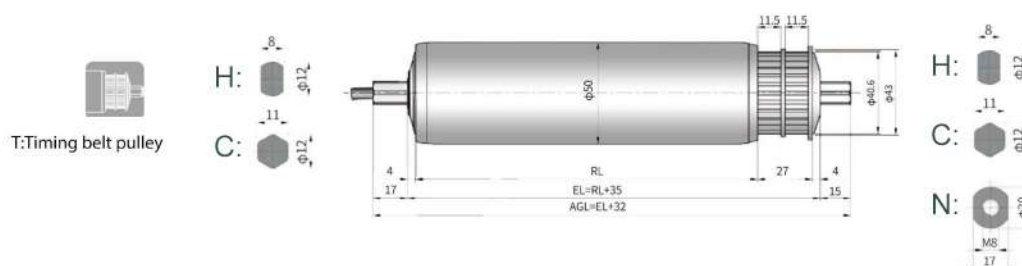
Electric Drum Performance Table

Linear velocity (m/min)		DC24V/DC48V								
		Power: 40W			Power: 80W			Power: 120W		
Stepless speed control	Rated speed – lowest speed	Tractive force N	Torque NM	Minimum Face Width mm	Tractive force N	Torque NM	Minimum Face Width mm	Tractive force N	Torque NM	Minimum Face Width mm
5.18	2.08	248.67	7.46	225	497.34	14.92	240	746	22.38	250
7.23	2.9	178	5.34		356	10.68		534	16.02	
9.92	3.97	130	3.9		259.67	7.79		389.34	11.68	
11.67	4.67	110.34	3.31		220.67	6.62		331	9.93	
13.86	5.55	93	2.79		186	5.58		278.67	8.36	
16.3	6.52	79	2.37	210	158	4.74	225	237	7.11	235
20.7	8.28	78	2.34		155.67	4.67		233.34	7	
24.58	9.84	65.67	1.97		131	3.93		196.34	5.89	
31.4	12.56	51.34	1.54		102.67	3.08		153.67	4.61	
39.67	15.87	40.67	1.22		81.34	2.44		121.67	3.65	
47.1	18.84	34.34	1.03	195	68.34	2.05	210	102.67	3.08	220
55.42	22.17	29.34	0.88		58.34	1.75		87.34	2.62	
98.26	39.31	20.67	0.62		41	1.23		61.67	1.85	
125.6	50.24	16	0.48		32	0.96		48	1.44	

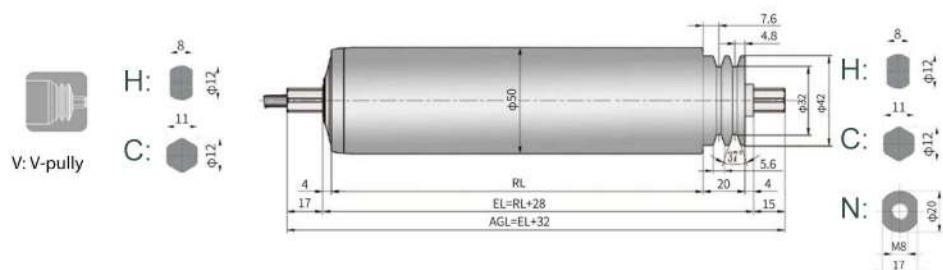
- ◇ The so-called rated speed refers to the speed under the conditions of rated power and rated load. During idling, the speed is approximately 10% higher than the rated speed due to no load.
- ◇ If a dimension shorter than the minimum face width is required, please communicate with our company in advance.
- ◇ The minimum face width is the dimension for the straight drum, and it will vary with different connection methods.
- ◇ The torque calculation formula is: Motor output torque × Reduction ratio × Reduction efficiency. The efficiency of each reduction stage is calculated at 80%.
- ◇ For the 40W model, if the rotational speed exceeds 18 m/min, the minimum face width can be customized to 150mm.



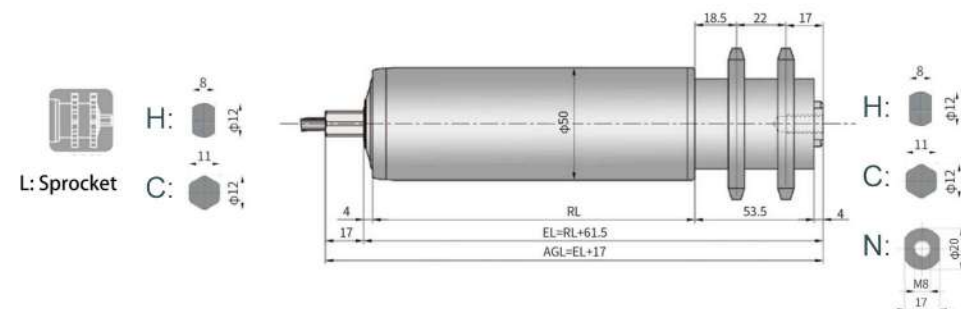
★ PolyVee material:Stainless.Aluminum,Nylon. PJ type PolyVee, 9 grooves,Max load100kg.



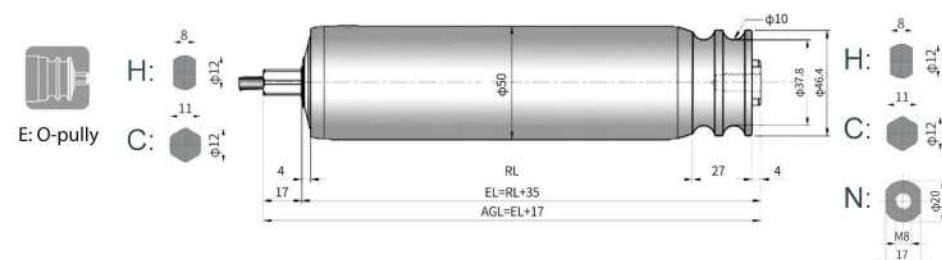
★ Timing belt pulley T5 material aluminium 26 teeth for belt. Material:Nylon,Aluminum,SS304



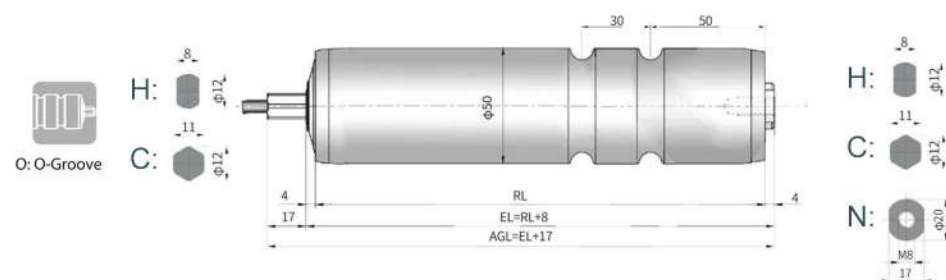
★ V-pully:Used with polyurethane belts, suitable for lightweight transporty: Material:Aluminum,SS304



★ Sprocket: Suitable for heavy duty transportation. Material: SS304, Galvanized steel

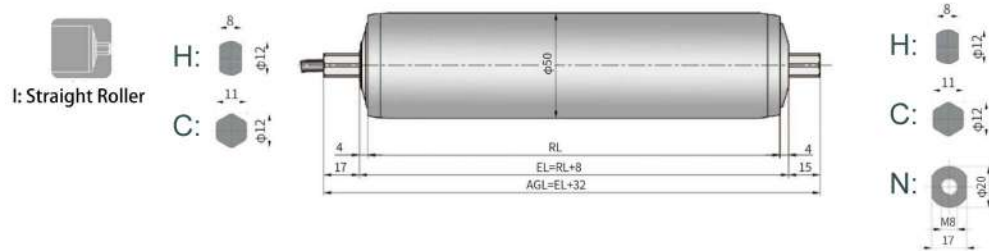


★ O-Pully: Material:Nylon, Suitable for lightweight transport

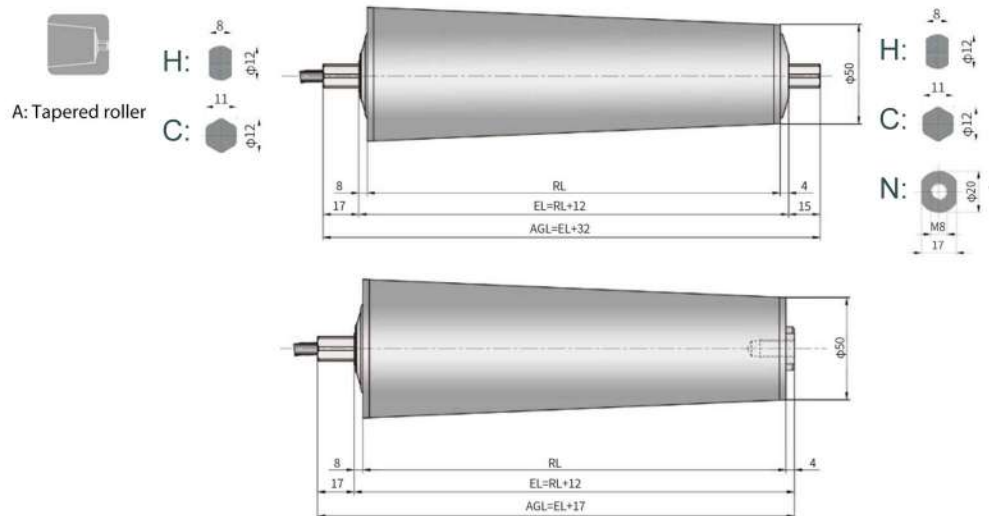


★ O-Groove: Use with polyurethane belts for lightweight transport. Max load: 35kg

★ Note: The spring shaft is optional, and the size of the groove needs to be confirmed



★ Straight Roller: Ø50*1.5mm Steel Tube. Material: SS201/304, Galvanized steel

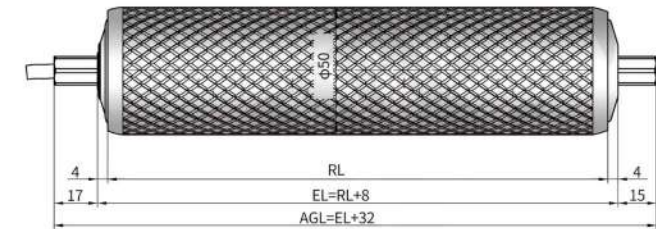


Metal Tapered roller's angle can be customized. Plastic taper sleeve's angle is 3.6°

★ Tapered roller: Suitable for curved conveyors. Tubes can be formed in metal or with a plastic sleeve.

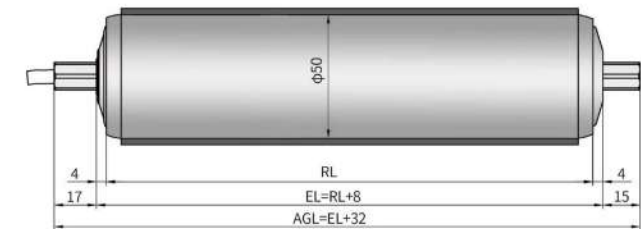
✖ RL =Roller Length(caps included)
 EL/FW =Frame Width
 AGL =Axis Gross Length

Surface Knurling



The knurling treatment on the drum surface can increase the friction between the conveyed object and the drum.
 The drum surface pattern: mesh or thread.

Surface Coating

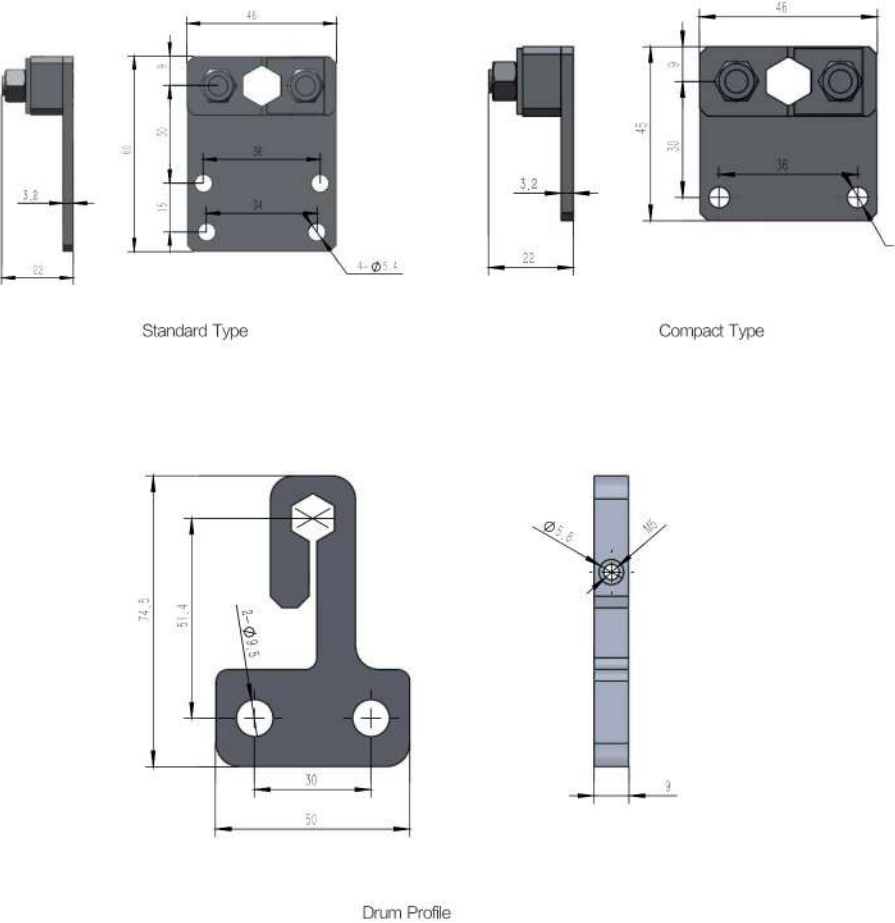


1. Roller surface coating with rubber: Ø50 wrapped into Ø55;
 Material options: Ordinary Rubber, PU, NBR.
 2. Roller surface cover sleeve: Ø50 wrapped into Ø54;
 Material: PVC

It can effectively improve the operation of the conveying system, prevent slipping, increase friction and reduce conveying noise.



HEXAGONAL SHAFT
MOUNTING BRACKET



Comparison of Driver functions
Between GWT series and B series Drive Card

Function	BA	BD	BG	GWT-DO1	GWT-A01
Voltage Range	24V/48V	24V/48V	24V/48V	24V/48V	24V/48V
Control Terminal					
Function Interface	IO+FO	IO+MODBUS+FO	IO+MODBUS+FO	IO+MODBUS+FO+VSP	IO+FO
DIP Switch Quantity	4-pin	12-pin	14-pin	16-pin	6-pin
IO Port Quantity	5	9	6	9	6
Support External VSP Knob Switch	✓	×	×	✓	✓
IO Gear	×	✓	✓	✓	×
Acceleration Setting	✓	✓	✓	✓	✓
Multi-Speed Mode	×	✓	×	✓	×
Reverse Connection Protection	✓	✓	✓	✓	✓
Voltage Rise Protection	Optional	Optional	Optional	Optional	Optional

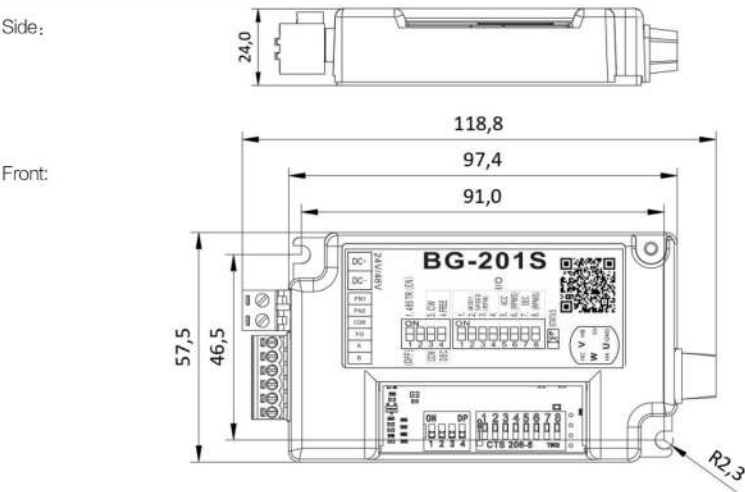
Model:BG-201S (Economical)

(BD-201 Upgraded Version)



①	Power connector	DC power input port
②	Input/output IO	I/O control port、RS-485 interface、Fault output interface
③	Functional dip	Function settings
④	Speed dial	Speed and acceleration/deceleration
⑤	Status lights	Running and malfunction lights
⑥	Drum motor sockets	Motor drum motor socket

Dimensional drawing of the drive controller

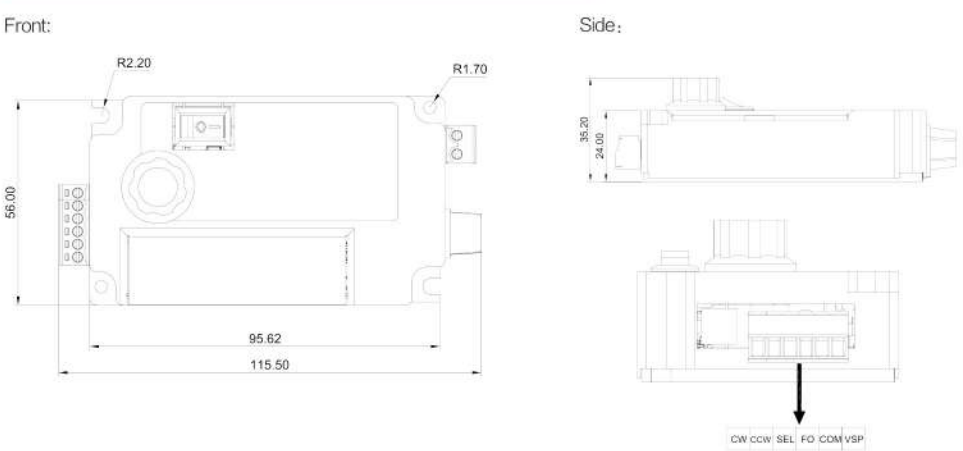


Model:GWT-A01 (BA-201S Upgraded Version)

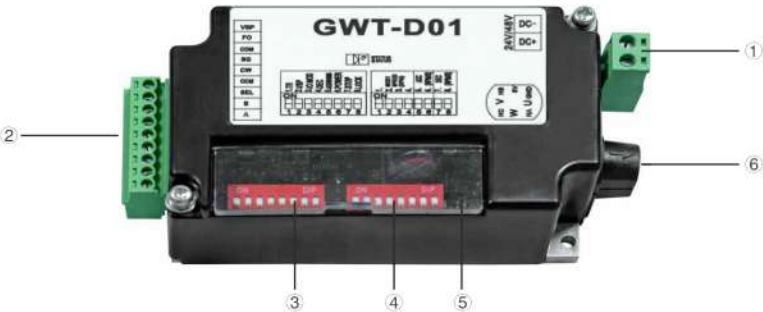


①	Power connector	DC power input port
②	Input/output IO	I/O control port、Fault output interface
③	Start/Stop Switch	Control the drum's forward/reverse rotation and stop
④	Speed Adjustment Knob	Control the drum speed
⑤	Drum motor sockets	Motor drum motor socket
⑥	Functional DIP	Function settings

Dimensional drawing of the drive controller

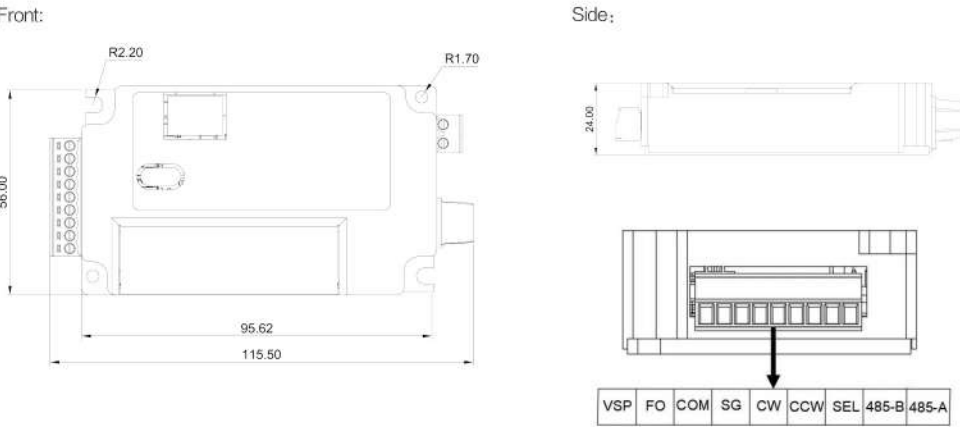


Model:GWT-D01 (BA-201S Upgraded Version)

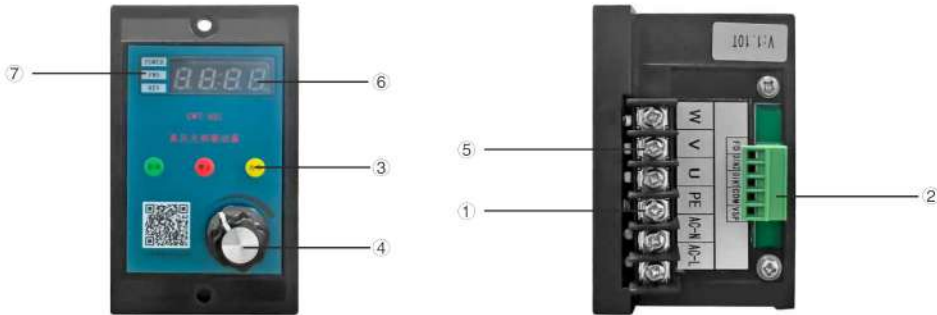


①	Power connector	DC power input port
②	Input/output IO	I/O control port、RS-485 interface、Fault output interface
③	Functional DIP	Function settings
④	Speed dial	Speed and acceleration/deceleration
⑤	Status lights	Running and malfunction lights
⑥	Drum motor sockets	Motor drum motor socket

Dimensional drawing of the drive controller

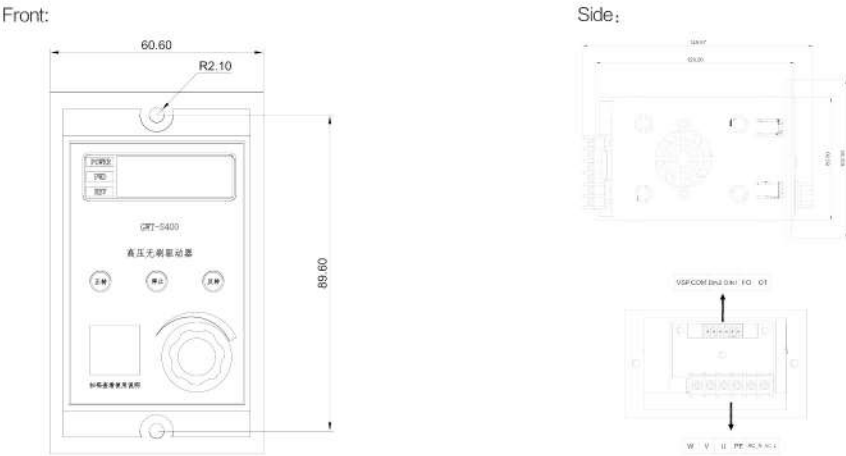


Model:GWT-S400 (High-Voltage Type)



①	Power connector	DC power input port
②	Input/output IO	I/O control port、Fault output interface
③	Start/Stop Switch	Control the drum's forward/reverse rotation and stop
④	Speed Adjustment Knob	Control the drum speed
⑤	Electric Drum Interface	Connect to the electric drum's outgoing wire
⑥	Display Screen	Display the drum motor speed
⑦	Status Indicator Light	Display the drum operating status

Dimensional drawing of the drive controller

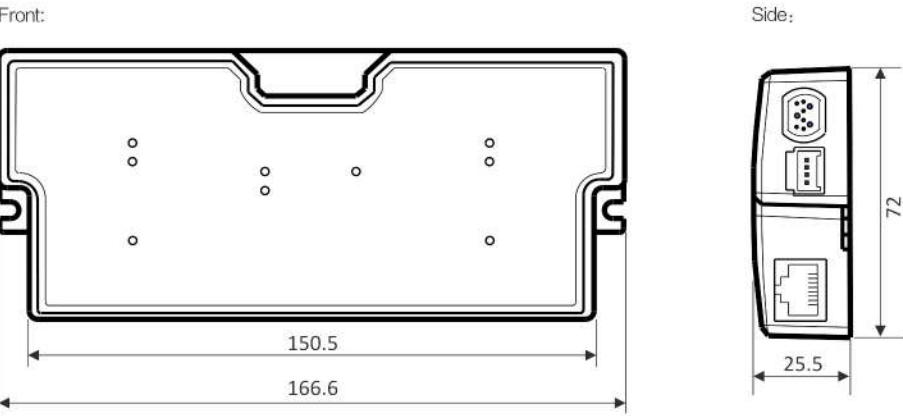


Model: BD.P.1-2



①	Power connector	DC power input port
②	Network Port 1	Connect to Ethernet
③	Network Port 2	Connect to Ethernet
④	Electric Drum Interface 1	Electric Drum Motor Socket No.1
⑤	Electric Drum Interface 2	Electric Drum Motor Socket No.2
⑥	Sensor Interface 1	Sensor Interface
⑦	Sensor Interface 2	Sensor Interface
⑧	Status Light	Operating Status Indicator Light (See Instruction Manual for Others)

Dimensional drawing of the drive controller

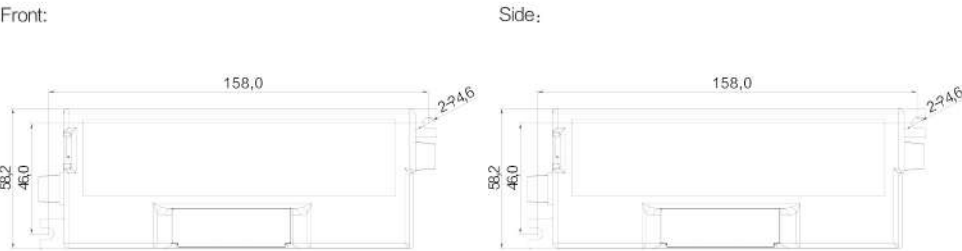


Model: DS-400



①	Power connector	DC power input port
②	Drum motor sockets	Motor drum motor socket
③	Status lights	Power indicator and status indicator
④	Functional DIP	Functional DIP
⑤	Speed dial	Speed DIP and start-stop acceleration and deceleration settings
⑥	Status lights	Power indicator and status indicator
⑦	Input/output IO	I/O control port、RS-485 interface、Fault output interface
⑧	Drum motor sockets	Motor drum motor socket

Dimensional drawing of the drive controller



φ 67 高压伺服电动滚筒
φ 67 HIGH PRESSURE SERVO
ELECTRIC ROLLER



- With the rotary variable servo control, the position sensor is an inductive encoder. There are no electronic components inside the electric drum, making it highly adaptable to the environment, resistant to static electricity threats, and realizing the equipment maintenance-free. 12-bit commercial A/D convertor; 5 pairs of polar motor design; resolution ratio: up to 20480; minimum recognition angle: 0.0176° .
- With the high-precision position recognition and high-accuracy real-time control, its response speed is only 0.05S. Due to its outstanding performance, our servo direct-drive electric drum products are commonly used in:
 - ① Industries with high sanitary requirements, such as: food and packaging industry. The servo direct-drive electric drum provides clean and quiet operation without the use of oil and grease.
 - ② Industries that require fast response and simple control, such as: express industry. With freely selectable conveying speed and an instantaneous driving power up to 1500W, it can circularly operate 1800 times / hour on a single packing table. It plays a perfect role in an efficient sorting system that handles 20,000 items / hour.
 - ③ In situations where noise reduction is crucial, its unique gearless design provides a perfect solution for driving conveyor.

MAIN SPECIFICATIONS

Basic Specification

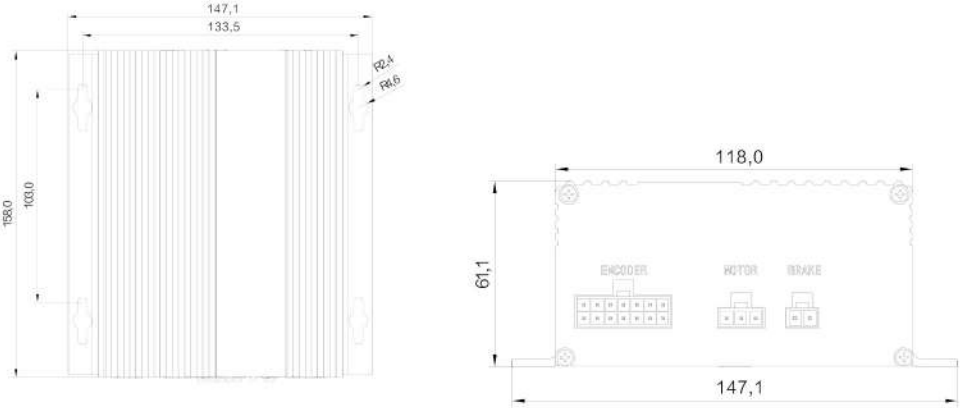
Project	Specification	Remarks
Main power	AC220V-10%→+10%	
Motor type	Permanent magnet servo motor	
Motor Form	Outer rotor motor	
Rated power range	750W/1500W	
Speed range	150~1000RPM	67-diameter motor
Max. Output current	8A	Low power version
	15A	High power version
Working system	S1, continuous working system	Depend on the ambient temperature
Communication mode	Rs485	38400,8,N,1
Working ambient temperature	-25℃~60℃	
Working ambient humidity	85% below	No condensation
Drum insulation grade	F	

伺服直驱电滚筒的优点
ADVANTAGES OF SERVO DIRECT DRIVE ELECTRIC DRUM

⊙ Low noise ⊙ High reliability ⊙ Super-long service life ⊙ High efficiency and energy saving ⊙ Continuously optional speed ⊙ Fast installation ⊙ Multiple protection mechanisms	⊙ Cost-optimized solution ⊙ Highly dynamic performance ⊙ High torque power ratio ⊙ High position accuracy ⊙ Simple system integration ⊙ Compact design ⊙ Multiple transmission type	⊙ Clean and hygienic ⊙ High speed ⊙ High power density ⊙ High mechanical efficiency ⊙ Shortest cylinder ⊙ Low maintenance ⊙ Support of 485 bus control
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产品附件图纸

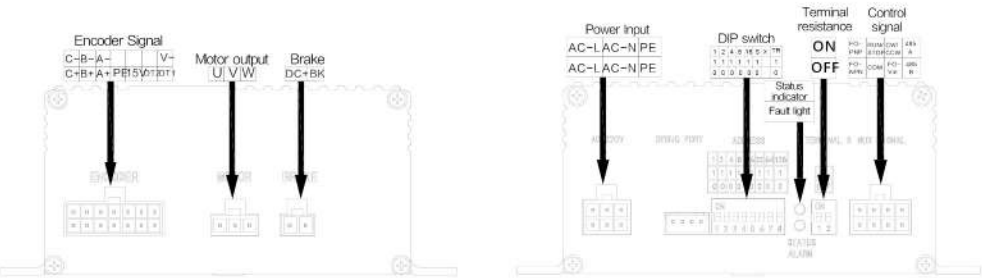
PRODUCT ATTACHMENT DRAWINGS



端子定义及信号指示

TERMINAL DEFINITION AND SIGNAL INDICATION

Terminal Diagram



MAIN SPECIFICATIONS

Motor Parameters

Project	Unit	Specification	Remarks
Motor type	-	DC brushless direct-drive motor(DBLDS)	
Motor Form	-	Outer rotor motor	
Voltage	V	DC48	Allowable voltage range: $\pm 10\%$
Number of poles	P	16	16p=5 对极
Rated power	W	400	
Speed range	rpm	350~762	The controllable speed (max.: 1600rpm) can be improved through modifying the program
Rated torque	N.m	5	
Instantaneous maximum torque	N.m	15	Not over 4s
Working system	-	S3 working system	25% intermittent working system

Driver Parameters

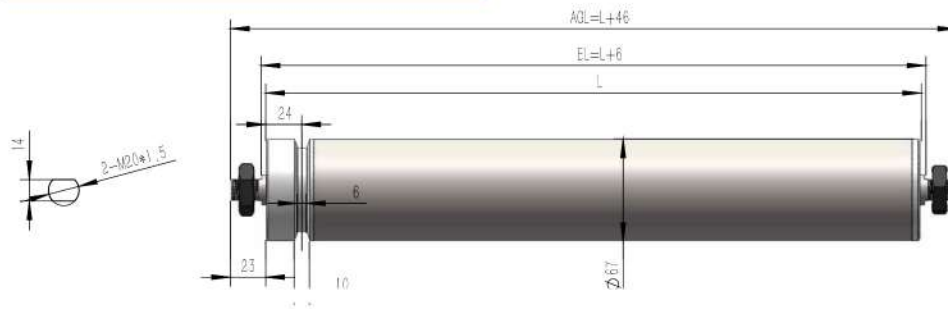
Project	Unit	Specification	Remarks
Driver type	-	DC brushless servo driver	
Rated input voltage	V	DC48	
Rated power of driver	W	750	Intermittent working system 25%
Driver size	mm	155*147,1*42	
Communication mode	-	RS485	38400bps,N,8,1
Power Interface	-	Socket 42000-6P(5557) Terminal 42000-21RT(5556)	Nylon (Pa66), UL94V-2/0 Phosphor bronze (C5191) Wire gauge: 0.12~0.5mm ² , 26~20AWG Wire outer diameter: 1.1~1.9mm
Communication Port	-	Socket 42000-10P(5557) Terminal 42000-01RT(5556)	Nylon (Pa66), UL94V-2/0 Phosphor bronze (C5191) Wire gauge: 0.032~0.08mm ² , 32~28AWG Wire outer diameter: 0.5~1.0mm
Motor port	-	Special port	
Encoder port	-	Special port	
Ambient temperature	℃	-20~+85	Default
Humidity of working environment	-	<85% no condensation	

Φ 67直流无刷电动滚筒

Φ 67 DC BRUSHLESS ELECTRIC DRUM



Standard Exterior Dimension Drawing



MAIN SPECIFICATIONS

Basic Specification

Project	Unit	Specification	Remarks
Main power	—	DC48V -10%~+10%	
Feedback method	—	Hall speed feedback	
Motor type	—	DC brushless permanent magnet synchronous motor	
Rated power	W	200W/300W/400W	Peak value input power
Speed range	r/min	350/762RPM	
Rated torque	N.m	6	
Instantaneous maximum torque	N.m	18	Not over 3s
Working system	—	S2, intermittent working system 25%	Depend on the ambient temperature
Communication mode	—	Rs485	38400,N,8,1

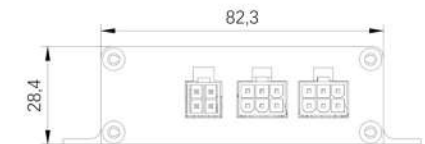
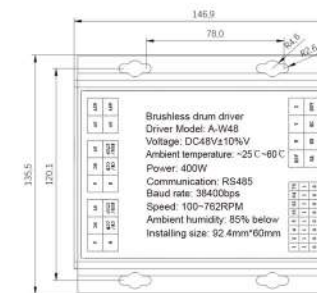
A-W48 Low Voltage Direct-drive Brushless Drum



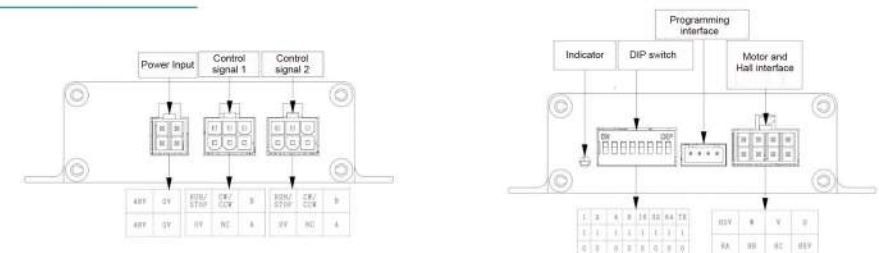
Basic Specification

Project	Unit	Specification	Remarks
Working ambient temperature	-	-25℃~60℃	
Working ambient humidity	-	85% below	No condensation
Drum insulation grade	-	F	

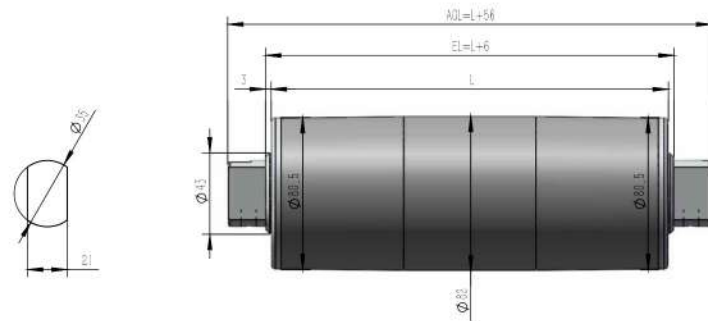
Driver Installing Size



Terminal Diagram



Standard Exterior Dimension Drawing



Simplified RL size, already includes both ends of the cap thickness of 5mm ...

Installation size
EL=L+20mm

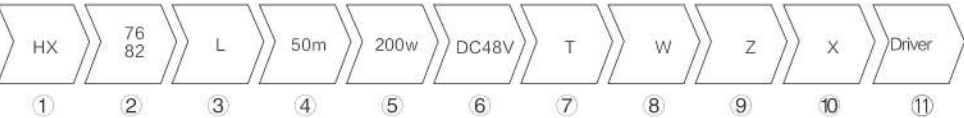
Overall length
AGL=L+40mm

The total length is
AGL=L+40mm

Exterior features: Ø17mm shaft, 19mm exposed on one side, aluminum holder mounted on the shaft

◇Note: The exposed length and milling size of the standard HXDC76 and HXDC82 drum shafts are quantitative. When selecting the model, please adjust the length of L appropriately to achieve the best fit with the rack.

Product model description



①	1. Model: HX
②	2. Pipe surface diameter: Ø76mm、Ø82mm
③	3. Face width: 270mm~1500mm
④	4. Speed: 12 different linear speeds such as 50 to 4m/min
⑤	5. Motor power: 200W, 400W
⑥	6. Motor voltage: DC 24V, DC 48V
⑦	7. Pipe surface material: carbon steel galvanized (T), stainless steel 201 (S2), stainless steel 304 (S3)
⑧	8. Pipe surface treatment: # Knurled pattern W drum threading
⑨	9. Drive link mode: Z ordinary straight drum 2L steel double row sprocket (10A~13 teeth)
⑩	10. Outlet shaft form: X 20 axis milled flat to 16 U aluminum alloy bushing
⑪	11.Driver: BG-201S, GWT-A01, GWT-D01, GWT-S400, BD.P.1-2, DS-400

Model Example: HX82-500-20m/min-200W-DC48V-T-Z-U-B

Manufacturable linear speedometer

Low speed	4m, 6m, 8m, 10m, 12m	◇The linear speed of the HX electric drum can be adjusted downward through the control card, and the range of the book adjustment is about 50% of the fastest linear speed, such as the selection of medium speed type 20, the minimum adjustable speed is about 10m, the HX electric drum is a constant torque output, the output torque data of the fastest 20m and the slowest 10m is the same, therefore, the maximum torque can be obtained by selecting the appropriate linear speed. ◇The rated speed listed in the table is for Type A and Type B control cards.
Medium speed	20m, 25m, 30m, 40m, 45m	
High speed	100m, 145m	

Electric drum performance table

Linear velocity (m/min) Diameter Ø76		Linear velocity (m/min) Diameter Ø82		DC24V/DC48V					
				Power: 200W			Power: 400W		
Stepless speed control Rated speed – lowest speed		Stepless speed control Rated speed – lowest speed		Tractive force N	Torque NM	Minimum Face Width mm	Tractive force N	Torque NM	Minimum Face Width mm
7.28	2.92	7.85	3.14	975.61	40	290	975.61	40	310
9.16	3.67	9.88	3.96	975.61	40		975.61	40	
12.12	4.85	13.08	5.24	787.08	32.27		975.61	40	
14.92	5.97	16.1	6.44	639.52	26.22		975.61	40	
16.2	6.48	17.48	7	589.03	24.15		975.61	40	
17.59	7.04	18.98	7.6	542.44	22.24	270	949.27	38.92	290
29.09	11.64	31.39	12.56	410	16.81		717.32	29.41	
35.8	14.32	38.62	15.45	333.18	13.66		582.93	23.9	
38.87	15.55	41.94	16.78	306.83	12.58		536.83	22.01	
48.48	19.4	52.31	20.93	246.1	10.09		430.49	17.65	
59.66	23.87	64.37	25.75	200	8.2	250	349.76	14.34	270
64.76	25.91	69.88	27.96	184.15	7.55		322.2	13.21	
143.12	57.25	154.42	61.77	104.15	4.27		182.44	7.48	
194.02	77.61	209.34	83.74	76.83	3.15		134.64	5.52	

◇ The so-called rated speed refers to the speed under the conditions of rated power and rated load. During idling, the speed is approximately 10% higher than the rated speed due to no load.
◇ If a size smaller than the minimum face width is required, please communicate with our company in advance.
◇ The minimum face width is the size for the straight drum, and it will change with different connection methods.
◇ The torque calculation formula is: Motor output torque × Reduction ratio × Reduction efficiency. The efficiency of each reduction stage is calculated at 80%.