

CERTIFICATE



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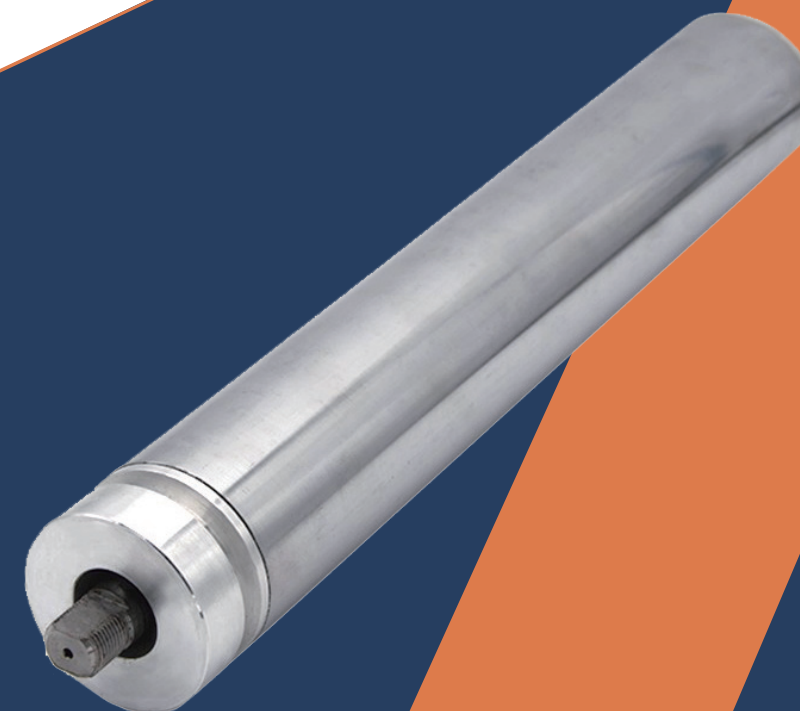
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Electric roller selection manual





(MDR) MOTOR DRIVER ROLLER

The electric roller is a self-powered roller that integrates the motor, gear reducer, and sensor and is reasonably installed inside the steel pipe. Therefore, the conveying system no longer needs to consider the motor, chain, intermediate shaft or other auxiliary drive components; no longer needs a bulky reducer, just install the electric roller on the frame and connect the wire to the power supply, and the work is done. The conveying system is more simple, intelligent, beautiful, safe and reliable.

High Torque

Brushless DC motors of the same size have stronger torque than AC motors, which enables them to transport heavier goods or reduce the number of motorized rollers used.

Save time

The number of parts required for the drive is significantly reduced compared to conventional gear motors, which can potentially reduce design, parts procurement and assembly time.

High speed

from 1M/MIN to 300M/MIN

Functions and Controls

The future-leading drive card provides many high-level functions for you to choose from, not only dynamic braking and variable speed settings, but also constant speed control (maintaining a constant speed when the load is different), acceleration and deceleration time adjustment functions, etc.

Low noise

Compared with conventional products, the noise level is reduced by about 10%

Safety

DC 24V, 48V safety voltage

Space saving

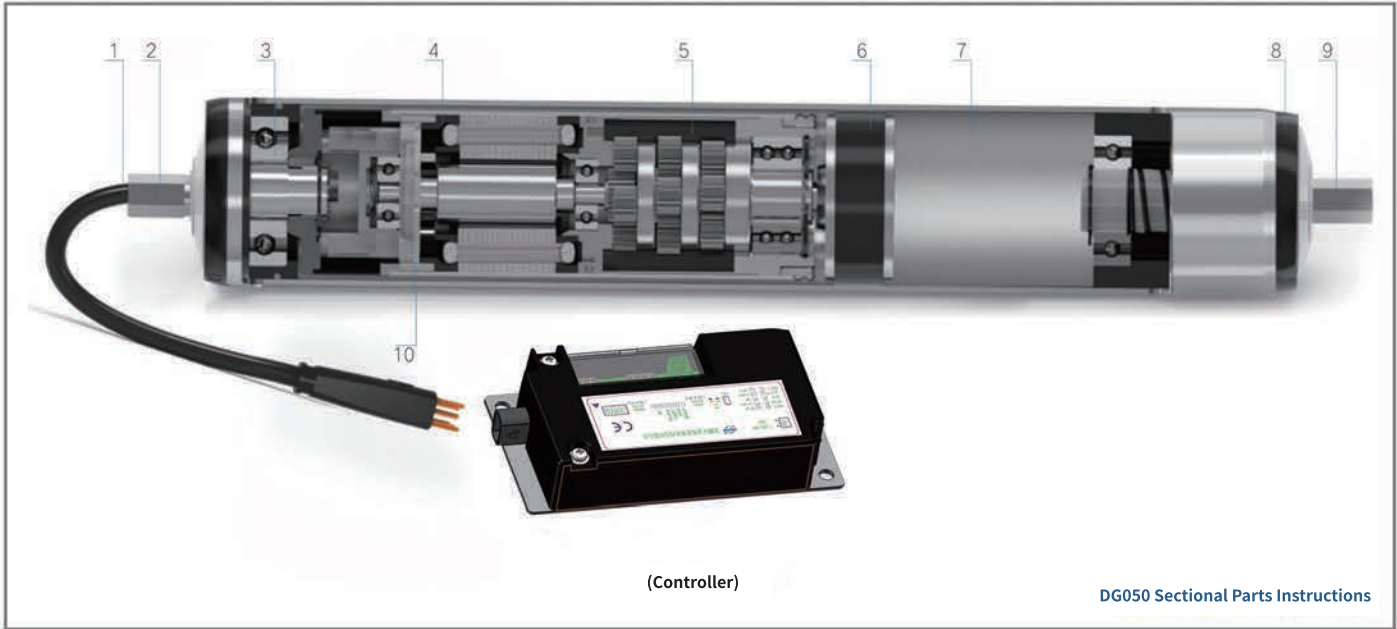
The use of flexible shaft simplifies installation and facilitates maintenance

Convenient

Easy to replace, maintenance-free

DG050 electric roller, suitable for speed regulation, medium and light loads.
Built-in high-efficiency and energy-saving DC brushless gear reduction motor, used with supporting control card.
Output torque can be selected AS standard type, HAS enhanced type.
Uses DC 24VDC or 48VDC safe voltage.
Speed 1-300m/min
Wide speed regulation range, 15%-100%

Compatible with a variety of intelligent control cards to achieve IO control and RS485, EtherCAT, internet and other interfaces.
Roller material: galvanized carbon steel, stainless steel, length can be customized.
The roller can be grooved, and can also be equipped with O-belt pulleys, V-shaped pulleys, synchronous pulleys, multi-ribbed pulleys, sprockets and other linkage components.
Simple and convenient installation, realizing intelligent control.



1	2	3	4	5	6	7	8	9	10
Wires	Outlet Shaft	Front Bearing Seat	Motor	Gear Box	Fixed Seat	Cylinder Wall	Rear Bearing Seat	Tail Shaft	Hall Chip



DC Electric Roller



Direct Drive Electric Roller



Carbon Steel Galvanized



Carbon Steel Chrome Plated

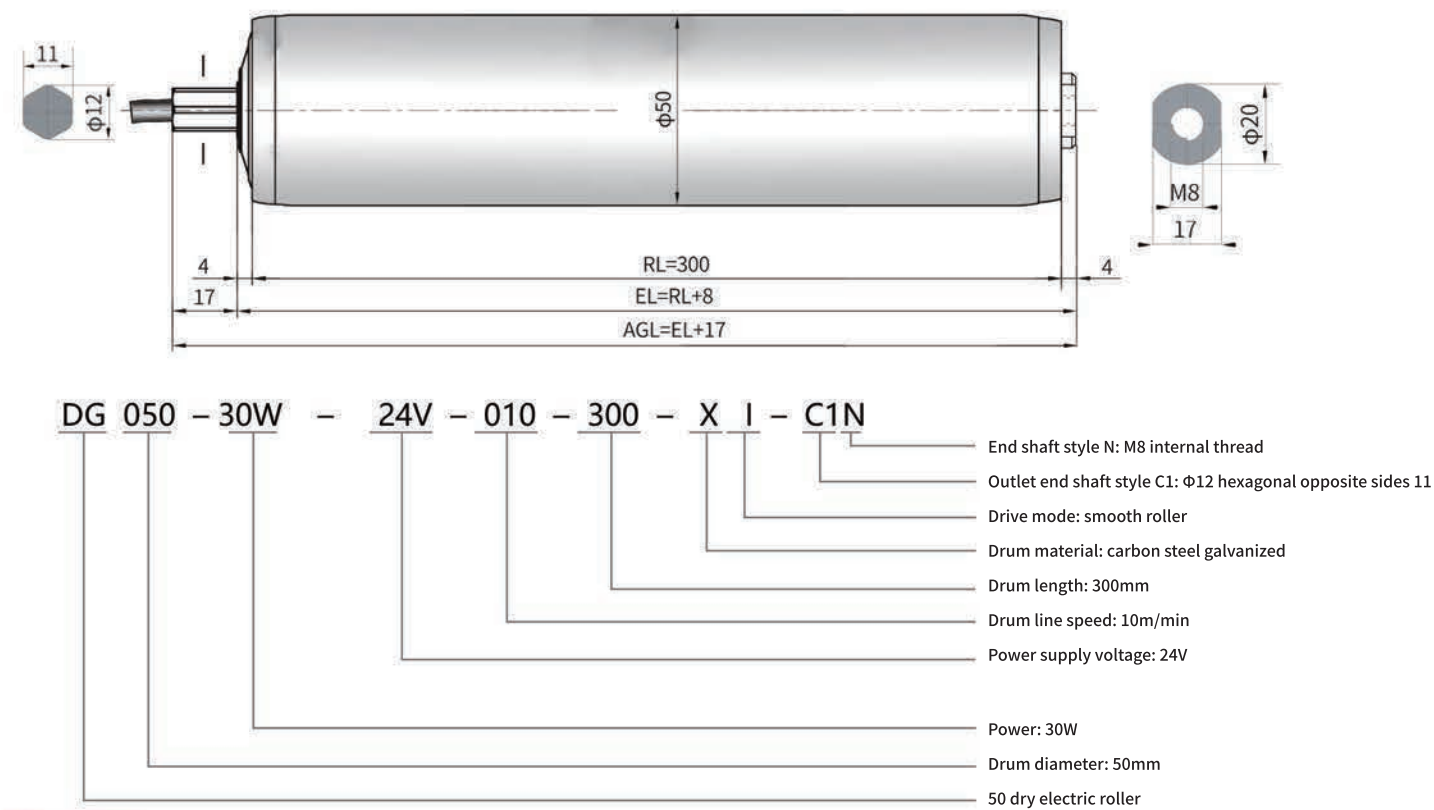


Carbon Steel Rubber Coated

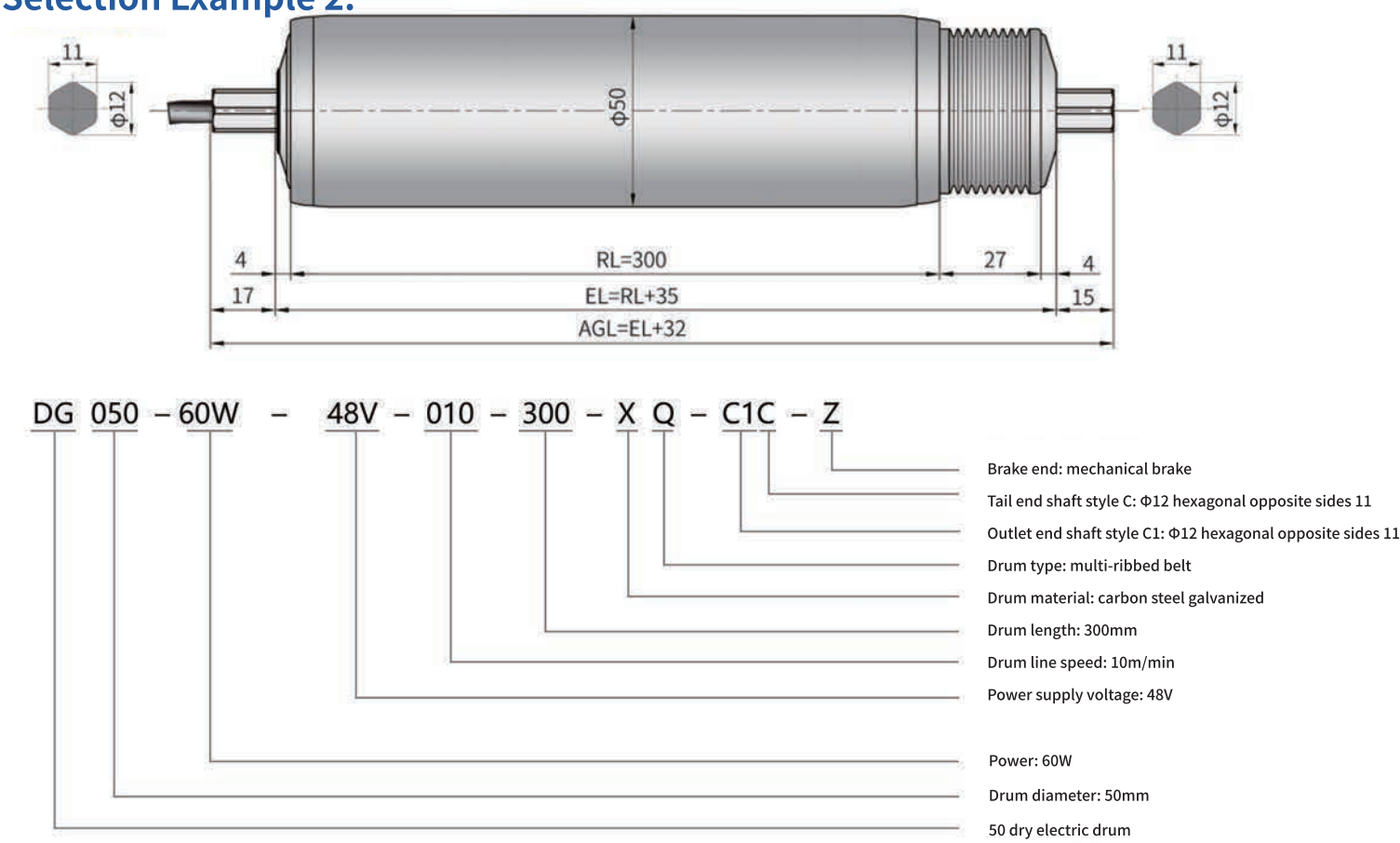
DG	050	30W	B	24V	010	300	X	T	H1	N
Category	Diameter	Motor Power	Control Card Type	Power Supply Voltage *	Line Speed	Barrel Length RL *	Barrel Material *	Drive Mode	Shaft Style	
									Outlet Shaft	Tail Shaft
DG	38	20W	Type A: control card Type B: control card	24V 48V	10 m/min	Reference P23	X: Carbon steel galvanized G: carbon steel chrome-plated J: wear-resistant rubber P: polyurethane glue S3: stainless steel 304 S2: stainless steel 201	Q: Multi-V belt	H1: Φ12 Double-sided flattening 8	H: Φ12 Double-sided flattening 8
										
	V: V-shaped pulley	H2: M12 Double-sided flattening 8						N: M8 internal thread		
										
	T: Synchronous pulley									
										
	E: O-shaped pulley	C1: Φ12 Hexagonal side 11						C: Φ12 Hexagonal side 11		
										
	L: Sprocket	C2: M12 Hexagonal side 11						N: M8 internal thread		
										
	O: O-groove									
										
#: Knurling	D1: Φ12 Single side flattening 10	D: Φ12 Single side flattening 10								
										
I: Straight roller		N: M8 internal thread								
										
A: Conical roller										
										
U: Drum										
										

* Other voltages and roller shapes can be customized;
* Special requirements: dust and water proof (IP65) - HS; brake (mechanical brake) - Z; accumulation (adjustable accumulation) - AU; elastic shaft - TX

Selection Example 1:



Selection Example 2:

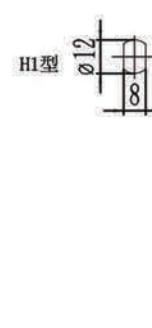
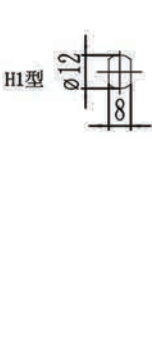
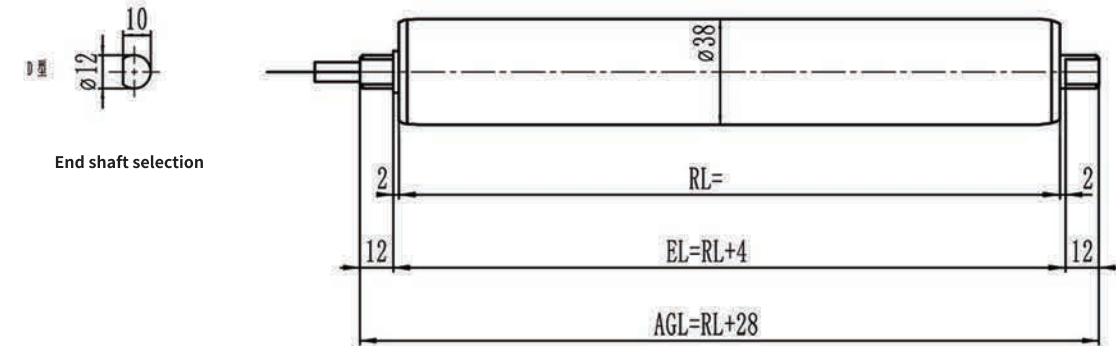
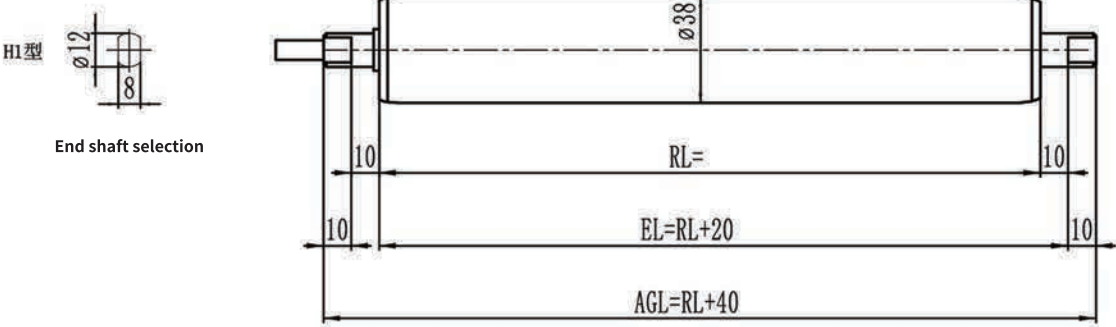


DG038 DC electric drum characteristics table-24/48V							
Nominal Speed	Rated Speed (Speed Range) 15%-100%			Standard Type			
				24V 48V		Input Power: 32W Output Power: 20W	
				Torque N.m		traction N	
	m/min	Reduction Ratio	r/min	Rated	Start	Rated	Start
8	8.422	51.0	70.6	2.0	6.1	42.5	127.5
16	15.91	27.0	133.3	1.1	3.2	22.5	67.5
23	22.61	19.0	189.5	0.8	2.3	15.8	47.5
31	30.68	14.0	257.1	0.6	1.7	11.7	35.0
83	82.61	5.2	692.3	0.2	0.6	4.3	13.0
116	116.1	3.7	973.0	0.1	0.4	3.1	9.2

Three-stage deceleration Two-stage deceleration first-stage reduction

- 1. 1 N = 0.1 kgf, 1 N • m = 0.1 kgf • m;
- 2. The values in this characteristic table are for reference only.
- 3. Constant speed closed loop control, the speed is consistent under no load or rated load.
- 4. The speed adjustment range is 15%-100% of the rated speed.
- 5. Other speeds can be customized.

DG038 Minimum Roll Length-DC						
Roller Diameter	$\Phi 38$					
Motor Type	Standard Type					
Speed (m/min)	3~8		16~31		38~116	
Internal Thread Elastic Shaft	Internal Thread ★	Elastic Shaft ★	Internal Thread ★	Elastic Shaft ★	Internal Thread ★	Elastic Shaft ★
Flat Cover	215	230	208	223	201	216
Synchronous Wheel	200	200	193	193	186	186
Multi-V Belt	200	200	193	193	186	186
Groove	Due to variable factors such as the pressure groove position and elastic shaft, please contact us for the shortest size!					



DG050 DC electric drum characteristics table-24/48V

Nominal Speed	Rated Speed (Speed Range) 15%-100%			Standard Type				Standard Enhanced			
				24V 48V		Input Power: 50W Output Power:30W		24V 48V		Input Power: 86W Output Power:60W	
				Torque N.m		traction N		Torque N.m		traction N	
				Rated	Start	Rated	Start	Rated	Start	Rated	Start
8	7.85	72.0	50.0	5.8	17.3	230.4	691.2	-	-	-	-
10.5	10.47	54.0	66.7	4.3	13.0	172.7	518.2	-	-	-	-
12	11.78	48.0	75.0	3.8	11.5	153.5	460.6	7.7	23.0	307.1	921.2
16	15.7	36.0	100.0	2.9	8.6	115.2	345.6	5.8	17.3	230.4	691.2
21	20.93	27.0	133.3	2.2	6.5	86.4	259.2	4.3	13.0	172.8	518.5
24	23.55	24	161.3	1.8	5.4	71.4	214.2	3.6	10.7	142.8	428.4
35	35.33	16.0	225.0	1.3	3.8	51.2	153.6	2.6	7.7	102.4	307.2
47	47.1	12.0	300.0	1.0	2.9	38.4	115.2	1.9	5.8	76.8	230.4
63	62.8	9.0	400.0	0.7	2.2	28.8	86.4	1.4	4.3	57.6	172.8
94	94.2	6.0	600.0	0.5	1.4	19.2	57.6	1.0	2.9	38.4	115.2
142	141.3	4.0	900.0	0.3	1.0	12.8	38.4	0.6	1.9	25.6	76.8
190	188.4	3.0	1200.0	0.2	0.7	9.6	28.8	0.5	1.4	19.2	57.6

Three-stage deceleration Two-stage deceleration first-stage reduction

- ※ 1、1 N = 0.1 kgf, 1 N • m = 0.1 kgf • m;
- ※ 2、The values in this characteristic table are for reference only.
- ※ 3、Constant speed closed loop control, the speed is consistent under no load or rated load.
- ※ 4、The speed adjustment range is 15%-100% of the rated speed.
- ※ 5、Other speeds can be customized.
- ※ 6、This table is applicable to all sprocket drive modes; the load of a single drive section of a poly-V belt drive mode does not exceed 100kg; the load of a single drive section of an O-belt drive mode does not exceed 35kg.

DG050 DC electric drum characteristics table-24/48V							
Nominal Speed	Rated Speed (Speed Range) 15%-100%			Enhanced Type			
				24V 48V		Input Power: 110W Output Power:80W	
				Torque N.m		traction N	
	m/min	Reduction Ratio	r/min	Rated	Start	Rated	Start
8	7.85	72.0	50.0	-	-	-	-
10.5	10.47	54.0	66.7	-	-	-	-
12	11.78	48.0	75.0	10.3	30.7	409.5	1228.3
16	15.7	36.0	100.0	7.7	23.1	307.2	921.6
21	20.93	27.0	133.3	5.7	17.3	230.4	691.3
24	23.55	24	161.3	4.8	14.3	190.4	571.2
35	35.33	16.0	225.0	3.2	9.6	128.0	384.0
47	47.1	12.0	300.0	2.5	7.7	102.4	307.2
63	62.8	9.0	400.0	1.9	5.7	76.8	230.4
94	94.2	6.0	600.0	1.3	3.9	51.2	153.6
142	141.3	4.0	900.0	0.8	2.5	34.1	102.4
190	188.4	3.0	1200.0	0.7	1.9	25.6	76.8

Three-stage deceleration Two-stage deceleration first-stage reduction

- ✖ 1、1 N = 0.1 kgf、1 N • m = 0.1 kgf • m;
- ✖ 2、The values in this characteristic table are for reference only.
- ✖ 3、Constant speed closed loop control, the speed is consistent under no load or rated load.
- ✖ 4、The speed adjustment range is 15%-100% of the rated speed.
- ✖ 5、Other speeds can be customized.
- ✖ 6、This table is applicable to all sprocket drive modes; the load of a single drive section of a poly-V belt drive mode does not exceed 100kg; the load of a single drive section of an O-belt drive mode does not exceed 35kg.

DG050 Minimum Roll Length-DC								
Roller Diameter	Φ50							
Motor Type	Standard Type				Reinforced Type			
Speed (m/min)	8 ~ 20		25 ~ 64		13 ~ 20		25 ~ 64	
Internal Thread ▲ Elastic Shaft ★	Internal Thread ▲	Elastic Shaft ★	Internal Thread ▲	Elastic Shaft ★	Internal Thread ▲	Elastic Shaft ★	Internal Thread ▲	Elastic Shaft ★
Flat Cover	220	250	210	240	245	275	235	265
O Wheel	235	235	225	225	260	260	250	250
Synchronous Wheel	235	235	225	225	260	260	250	250
Multi-ribbed Belt	235	235	225	225	260	260	250	250
Sprocket	220	220	205	205	245	245	230	230
Tube Surface V Groove	280	280	270	270	305	305	295	295
Pressure Groove	300	360	290	350	325	385	315	375

DG076 DC Electric Drum Characteristics Table- 24V/48V							
Nominal Speed	Rated Speed (Speed Range) 15%-100%			standard type			
				24V 48V		Input Power: 160W Output Power:100W	
				Torque N.m		traction N	
	m/min	Reduction Ratio	r/min	Rated	Start	Rated	Start
14	14.43	47.0	76.6	9.4	28.2	195.8	587.5
24	23.88	28.4	126.8	5.7	17.0	118.3	355.0
52	52.17	13.0	276.9	2.6	7.8	54.2	162.5
160	159.58	4.3	847.0	0.9	2.6	17.7	53.1
188	188.4	3.6	1000.0	0.7	2.2	15.0	45.0

Three-stage deceleration Two-stage deceleration first-stage reduction

- ✘ 1、1 N = 0.1 kaf. 1 N • m = 0.1 kaf • m:
- ✘ 2、The values in this characteristic table are for reference only.
- ✘ 3、Constant speed closed loop control, the speed is consistent under no load or rated load.
- ✘ 4、The speed adjustment range is 15%-100% of the rated speed.
- ✘ 5、Other speeds can be customized.
- ✘ 6、This table is applicable to all sprocket drive modes; the load of a single drive section of a poly-V belt drive mode does not exceed 100kg; the load of a single drive section of an O-belt drive mode does not exceed 35kg.

DG060 SHORTEST ROLLER LENGTH - DC						
Roller Diameter	Φ60					
Motor Type	100W					
Speed (m/min)	14~24		25 ~52		53~188	
Internal Thread ▲ Elastic Shaft ★	Internal Thread ▲	Elastic Shaft ★	Internal Thread ▲	Elastic Shaft ★	Internal Thread ▲	Elastic Shaft ★
Flat Cover	288	335	288	335	288	335
O Wheel	300	315	300	315	300	315
Synchronous Wheel	300	315	300	315	300	315
Multi-V Belt	300	315	300	315	300	315
Sprocket	295	295	295	295	295	295
Tube Surface V Groove	330	330	330	330	330	330
Press Groove	Due to variable factors such as the pressure groove position and elastic shaft, please contact us for the shortest size!					

DG076 DC Electric Drum Characteristics Table-24/48V (Type A motor)							
Nominal Speed	Rated Speed (Speed Range) 15%-100%			Motor 100W			
				24V 48V		Input Power: 160W Output Power:100W	
				Torque N.m		traction N	
	m/min	Reduction Ratio	r/min	Rated	Start	Rated	Start
9	8.95	96.0	37.5	19.2	57.6	400.0	1199.9
11	11.16	77.0	46.8	15.4	46.2	320.8	962.3
18	18.28	47.0	76.6	9.4	28.2	195.8	587.5
30	30.25	28.4	126.8	5.7	17.0	118.3	355.0
66	66.08	13.0	276.9	2.6	7.8	54.2	162.5
202	202.14	4.3	847.0	0.9	2.6	17.7	53.1
238	238.64	3.6	1000.0	0.7	2.2	15.0	45.0

DG076 DC Electric Drum Characteristics Table-24/48V (Type A motor)							
Nominal Speed	Rated Speed (Speed Range) 15%-100%			Motor 200W			
				24V 48V		Input Power: 320W Output Power:200W	
				Torque N.m		traction N	
	m/min	Reduction Ratio	r/min	Rated	Start	Rated	Start
9	8.95	96.0	37.5	38.4	115.2	400.0	1199.9
11	11.16	77.0	46.8	30.8	92.4	320.8	962.3
18	18.28	47.0	76.6	18.8	56.4	195.8	587.5
30	30.25	28.4	126.8	11.4	34.1	118.3	355.0
66	66.08	13.0	276.9	5.2	15.6	54.2	162.5
202	202.14	4.3	847.0	1.7	5.1	17.7	53.1
238	238.64	3.6	1000.0	1.4	4.3	15.0	45.0

Three-stage reduction Two-stage reduction First-stage reduction

- ※ 1、1 N = 0.1 kgf, 1 N • m = 0.1 kgf • m;
- ※ 2、The values in this characteristic table are for reference only.
- ※ 3、Constant speed closed loop control, the speed is consistent under no load or rated load.
- ※ 4、The speed adjustment range is 15%-100% of the rated speed.
- ※ 5、Other speeds can be customized.

DG076 DC electric drum characteristics table-24/48V (Type A motor)							
Nominal Speed	Rated Speed (Speed Range) 15%-100%			Motor 300W			
				24V 48V		Input Power: 480W Output Power:300W	
				Torque N.m		traction N	
	m/min	Reduction Ratio	r/min	Rated	Start	Rated	Start
9	8.95	96.0	37.5	76.8	230.4	402.0	1206.1
11	11.16	77.0	46.8	61.6	184.8	322.4	967.3
18	18.28	47.0	76.6	37.6	112.8	196.8	590.5
30	30.25	28.4	126.8	22.7	68.2	119.0	356.9
66	66.08	13.0	276.9	10.4	31.2	54.5	163.4
202	202.14	4.3	847.0	3.4	10.2	17.8	53.4
238	238.64	3.6	1000.0	2.9	8.6	15.1	45.2

Three-stage deceleration Two-stage deceleration first-stage reduction

- ※ 1、1 N = 0.1 kgf, 1 N • m = 0.1 kgf • m;
- ※ 2、The values in this characteristic table are for reference only.
- ※ 3、Constant speed closed loop control, the speed is consistent under no load or rated load.
- ※ 4、The speed adjustment range is 15%-100% of the rated speed.
- ※ 5、Other speeds can be customized.

DG076 DC electric drum characteristics table-24/48V (Type B motor)								
Total Speed Ratio	Output Speed r/min	76 linear speed m/min	82 linear speed m/min	100W				
				100W Torque (N*m)	76 Traction (N)	76 Load(kg)	82 Traction (N)	82 Load(kg)
181.2	12.1	2.9	3.1	63.4	1506.6	1460.5	1396.4	1353.6
139.1	1.58	3.8	4.1	48.7	1156.6	1121.2	1072.0	1039.1
129.6	17.0	4.1	4.4	45.4	1077.5	1044.5	998.6	968.1
115.1	19.1	4.6	4.9	40.3	956.6	927.3	886.6	859.4
99.5	22.1	5.3	5.7	34.8	827.2	801.8	766.6	743.2
82.3	26.7	6.4	6.9	28.8	684.1	663.2	634.1	614.6
71.2	30.9	7.4	8.0	24.9	591.6	573.4	548.3	531.5
58.9	37.4	8.9	9.6	20.6	489.3	474.3	453.5	439.6
50.9	43.2	10.3	11.1	17.8	423.1	410.1	392.1	380.1
35.0	62.9	15.0	16.2	12.2	290.7	281.8	269.5	261.2
28.9	76.0	18.2	19.6	10.1	240.5	233.1	222.9	216.1
26.9	81.9	19.6	21.1	9.4	223.2	216.4	206.9	200.5
25.0	87.9	21.0	22.7	8.8	207.9	201.6	192.7	186.8
22.0	99.1	23.7	25.5	7.8	184.6	179.0	171.1	165.9
19.2	114.6	27.4	29.5	6.7	159.6	154.7	147.9	143.4
15.9	138.5	33.1	35.7	5.6	132.0	128.0	122.4	118.6
13.7	160.2	38.2	41.3	4.8	114.2	110.7	105.8	102.6

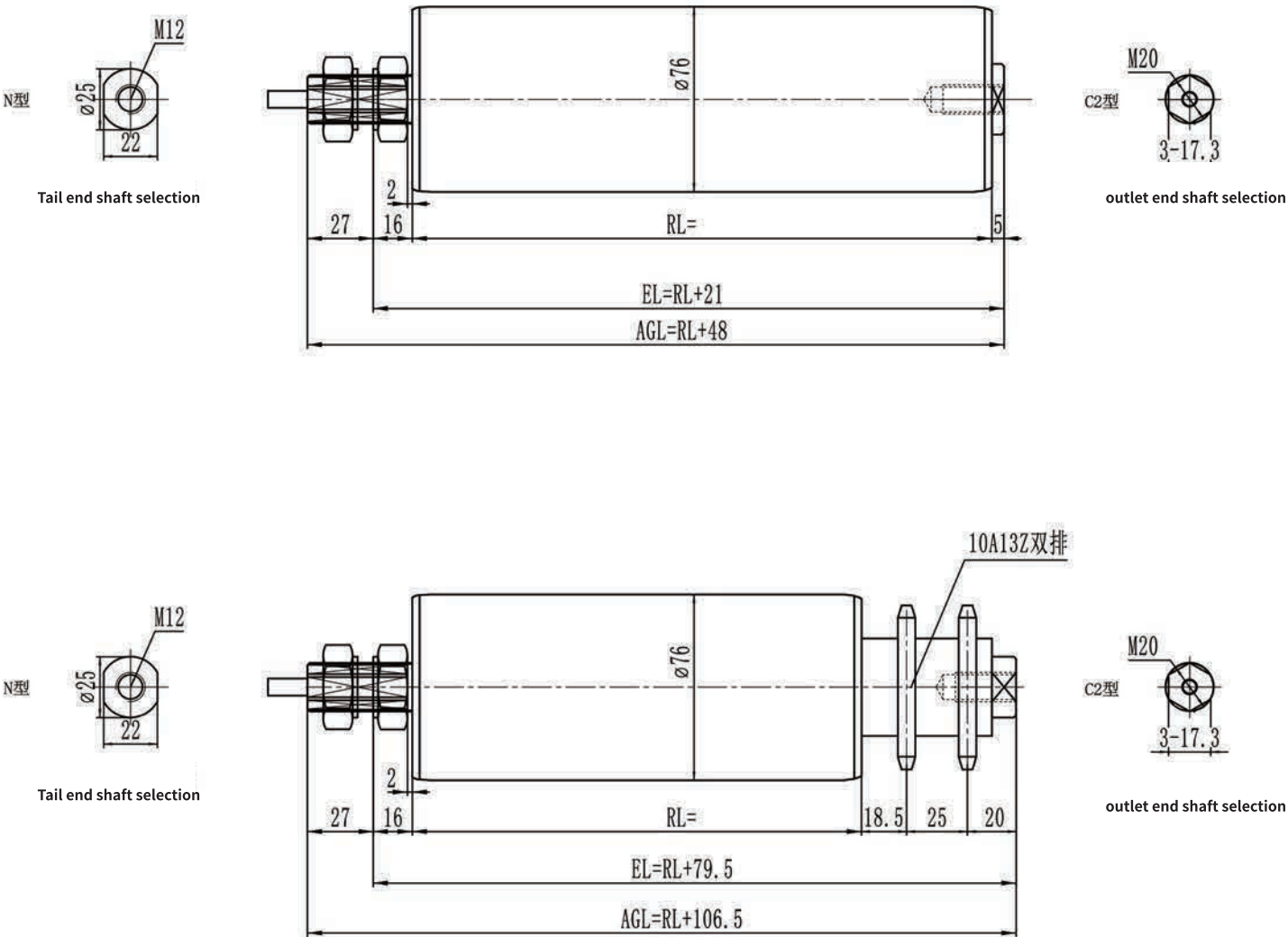
DG076 DC electric drum characteristics table-24/48V (Type B motor)								
Total Speed Ratio	Output Speed r/min	76 linear speed m/min	82 linear speed m/min	200W				
				200W Torque (N*m)	76 Traction (N)	76 Load(kg)	82 Traction (N)	82 Load(kg)
181.2	12.1	2.9	3.1	154.1	3658.9	3546.9	3391.2	3287.4
139.1	1.58	3.8	4.1	118.3	2808.9	2722.9	2603.3	2523.6
129.6	17.0	4.1	4.4	110.2	2616.7	2536.6	2425.3	2351.0
115.1	19.1	4.6	4.9	97.8	2323.1	2252.0	2153.1	2087.2
99.5	22.1	5.3	5.7	84.6	2008.8	1947.3	1861.8	1804.8
82.3	26.7	6.4	6.9	70.0	1661.4	1610.6	1539.9	1492.7
71.2	30.9	7.4	8.0	60.5	1436.6	1392.7	1331.5	1290.8
58.9	37.4	8.9	9.6	50.0	1188.2	1151.8	1101.3	1067.5
50.9	43.2	10.3	11.1	43.3	1027.4	996.0	952.3	923.1
35.0	62.9	15.0	16.2	29.7	706.1	684.5	654.4	634.4
28.9	76.0	18.2	19.6	24.6	584.0	566.1	541.3	524.7
26.9	81.9	19.6	21.1	22.8	542.1	525.5	502.4	487.0
25.0	87.9	21.0	22.7	21.3	505.0	489.5	468.0	453.7
22.0	99.1	23.7	25.5	18.9	448.3	434.6	415.5	402.8
19.2	114.6	27.4	29.5	16.3	387.7	375.8	359.3	348.3
15.9	138.5	33.1	35.7	13.5	320.6	310.8	297.2	288.1
13.7	160.2	38.2	41.3	11.7	277.2	268.8	257.0	249.1

DG076 DC electric drum characteristics table-24/48V (Type B motor)								
Total Speed Ratio	Output Speed r/min	76 linear speed m/min	82 linear speed m/min	400W				
				200W Torque (N*m)	76 Traction (N)	76 Load(kg)	82 Traction (N)	82 Load(kg)
181.2	12.1	2.9	3.1	271.9	6456.9	6259.2	5984.4	5801.2
139.1	1.58	3.8	4.1	208.7	4956.8	4805.1	4594.1	4453.5
129.6	17.0	4.1	4.4	194.4	4617.8	4476.4	4279.9	4148.9
115.1	19.1	4.6	4.9	172.6	4099.6	3974.1	3799.6	3683.3
99.5	22.1	5.3	5.7	149.3	3545.0	3436.4	3285.6	3185.0
82.3	26.7	6.4	6.9	123.4	2931.9	2842.2	2717.4	2634.2
71.2	30.9	7.4	8.0	106.7	2535.2	2457.6	2349.7	2277.8
58.9	37.4	8.9	9.6	88.3	2096.8	2032.6	1943.4	1883.9
50.9	43.2	10.3	11.1	76.3	1813.1	1757.6	1680.5	1629.0
35.0	62.9	15.0	16.2	52.5	1246.1	1207.9	1154.9	1119.5
28.9	76.0	18.2	19.6	43.4	1030.6	999.0	955.2	925.9
26.9	81.9	19.6	21.1	40.3	956.6	927.3	886.6	859.4
25.0	87.9	21.0	22.7	37.5	891.1	863.9	825.9	800.7
22.0	99.1	23.7	25.5	33.3	791.2	766.9	733.3	710.8
19.2	114.6	27.4	29.5	28.8	684.1	663.2	634.1	614.6
15.9	138.5	33.1	35.7	23.8	565.8	548.5	524.4	508.4
13.7	160.2	38.2	41.3	20.6	489.3	474.3	453.5	439.6

DG76 Shortest Roller Length-DC						
Roller Diameter	Φ76					
Motor Type	100W					
Speed (m/min)	9~11		18~30		66~238	
Internal Thread ▲ Elastic Shaft ★	Internal Thread ▲	Elastic Shaft ★	Internal Thread ▲	Elastic Shaft ★	Internal Thread ▲	Elastic Shaft ★
Flat Cover	290	340	290	340	290	340
Sprocket	295	295	295	295	295	295
Groove	Due to variable factors such as the pressure groove position and elastic shaft, please contact us for the shortest size!					

DG76 Shortest Roller Length-DC						
Roller Diameter	Φ76					
Motor Type	200W					
Speed (m/min)	9~11		18~30		66~238	
Internal Thread ▲ Elastic Shaft ★	Internal Thread ▲	Elastic Shaft ★	Internal Thread ▲	Elastic Shaft ★	Internal Thread ▲	Elastic Shaft ★
Flat Cover	320	370	320	370	320	370
Sprocket	330	330	330	330	330	330
Groove	Due to variable factors such as the pressure groove position and elastic shaft, please contact us for the shortest size!					

DG76 Shortest Roller Length-DC						
Roller Diameter	Φ76					
Motor Type	300W					
Speed (m/min)	9~11		18~30		66~238	
Internal Thread ▲ Elastic Shaft ★	Internal Thread ▲	Elastic Shaft ★	Internal Thread ▲	Elastic Shaft ★	Internal Thread ▲	Elastic Shaft ★
Flat Cover	320	370	320	370	320	370
Sprocket	330	330	330	330	330	330
Groove	Due to variable factors such as the pressure groove position and elastic shaft, please contact us for the shortest size!					



Weight table of different tube lengths for 38 diameter, 50 diameter and 60 diameter (all straight roller type)			unit:kg						
		(mm)	200	300	400	500	600	700	800
Diameter 38	20W	carbon steel galvanized	/	1.5	1.7	1.8	1.9	2.1	2.2
	20W	S304	/	1.5	1.6	1.7	1.8	1.9	2.0
Diameter 50	30W	carbon steel galvanized	/	2.5	2.7	2.9	3.1	3.2	3.4
	30W	S304	/	2.5	2.7	2.9	3.0	3.2	3.4
	60W	carbon steel galvanized	/	2.7	2.9	3.1	3.3	3.4	3.6
	60W	S304	/	2.7	2.9	3.1	3.2	3.4	3.6
	80W	carbon steel galvanized	/	2.7	2.9	3.1	3.3	3.4	3.6
	80W	S304	/	2.7	2.9	3.1	3.2	3.4	3.6
Diameter 60	30W	carbon steel galvanized	/	2.6	2.9	3.1	3.3	3.5	3.7
	30W	S304	/	2.6	2.8	3.0	3.1	3.3	3.5
	60W	carbon steel galvanized	/	2.8	3.1	3.3	3.5	3.7	3.9
	60W	S304	/	2.8	3.0	3.2	3.3	3.5	3.7
	80W	carbon steel galvanized	/	2.8	3.1	3.3	3.5	3.7	3.9
	80W	S304	/	2.8	3.0	3.2	3.3	3.5	3.7

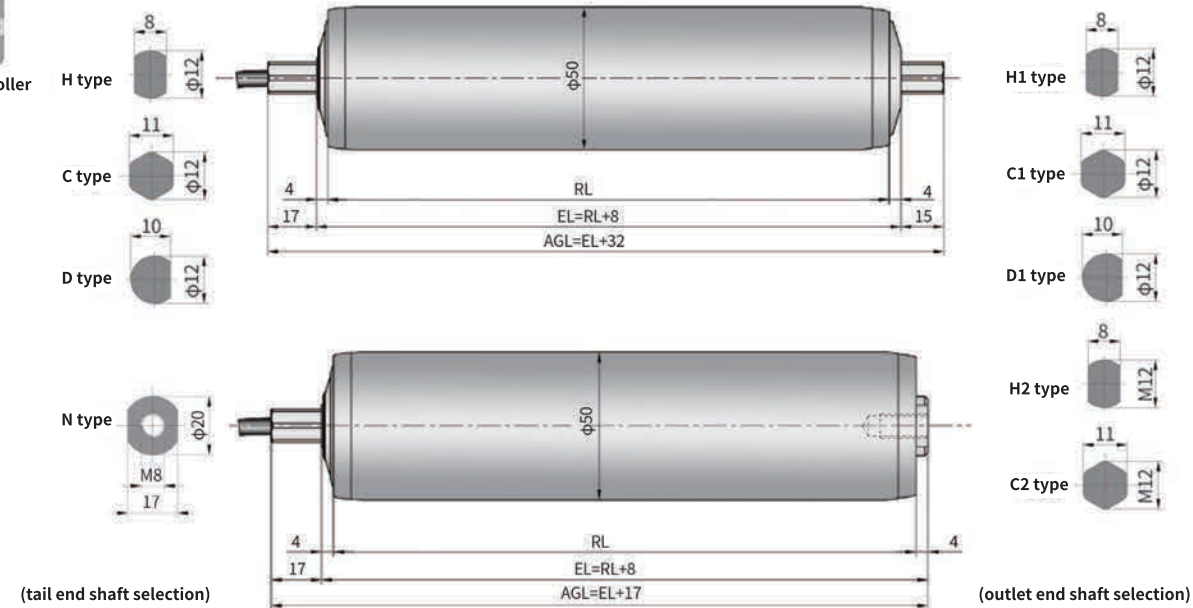
Note: This weight is for reference only. The actual weight of the product may differ slightly from that specified in the contract. The actual weight shall prevail.

Weight table of different tube lengths for 38 diameter, 50 diameter and 60 diameter (all straight roller type)			unit:kg						
		(mm)	900	1000	1100	120	1300	1400	1500
Diameter 38	20W	carbon steel galvanized	2.3	2.5	2.6	2.7	2.9	3.0	3.1
	20W	S304	2.1	2.3	2.4	2.5	2.6	2.7	2.8
Diameter 50	30W	carbon steel galvanized	3.6	3.8	4.0	4.2	4.4	4.6	4.7
	30W	S304	3.6	3.8	4.0	4.2	4.3	4.5	4.7
	60W	carbon steel galvanized	3.8	4.0	4.2	4.4	4.6	4.8	4.9
	60W	S304	3.8	4.0	4.2	4.5	4.5	4.7	4.9
	80W	carbon steel galvanized	3.8	4.0	4.2	4.4	4.6	4.8	4.9
	80W	S304	3.8	4.0	4.2	4.4	4.5	4.7	4.9
Diameter 60	30W	carbon steel galvanized	4.0	4.2	4.4	4.6	4.8	5.1	5.3
	30W	S304	3.7	3.9	4.1	4.3	4.5	4.7	4.9
	60W	carbon steel galvanized	4.2	4.4	4.6	4.8	5.0	5.3	5.5
	60W	S304	3.9	4.1	4.3	4.5	4.7	4.9	5.1
	80W	carbon steel galvanized	4.2	4.4	4.6	4.8	5.0	5.3	5.5
	80W	S304	3.9	4.1	4.3	4.5	4.7	4.9	5.1

Note: This weight is for reference only. The actual weight of the product may differ slightly from that specified in the contract. The actual weight shall prevail.



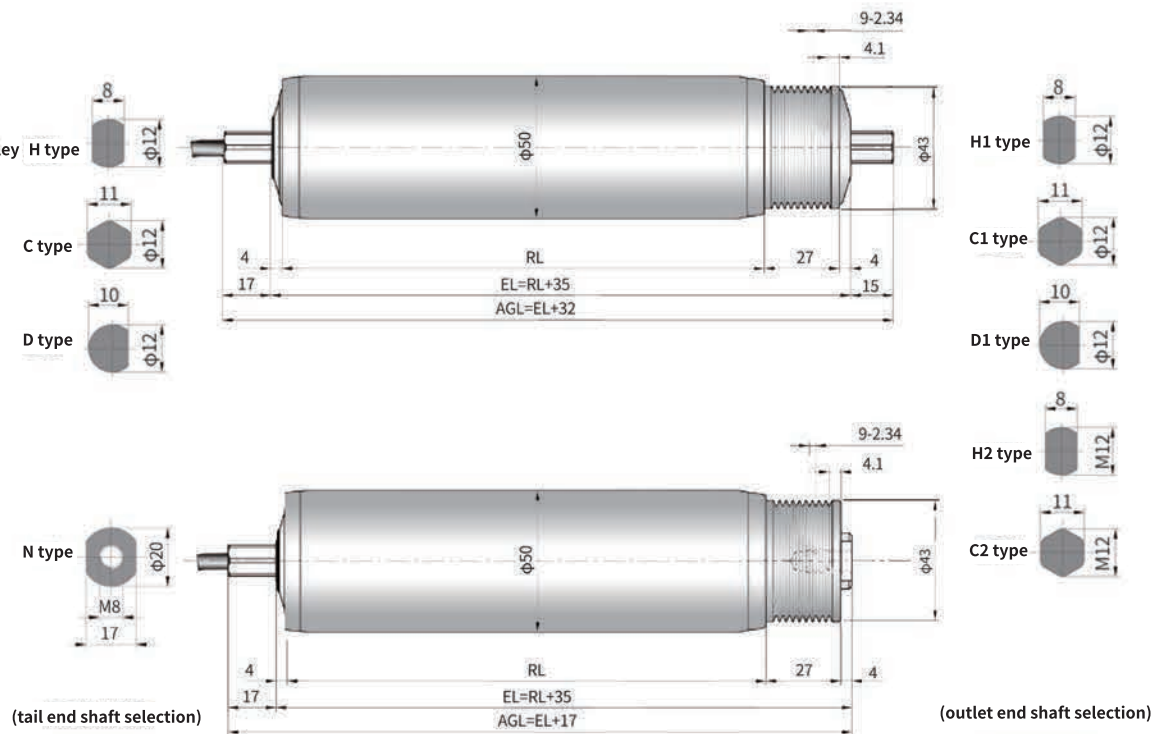
I: Straight Roller



★ Straight roller: D50*1.5mm steel pipe, the material can be carbon steel galvanized, hard chrome plated, or 201, 304 stainless steel pipe



Q:Multi-V belt p

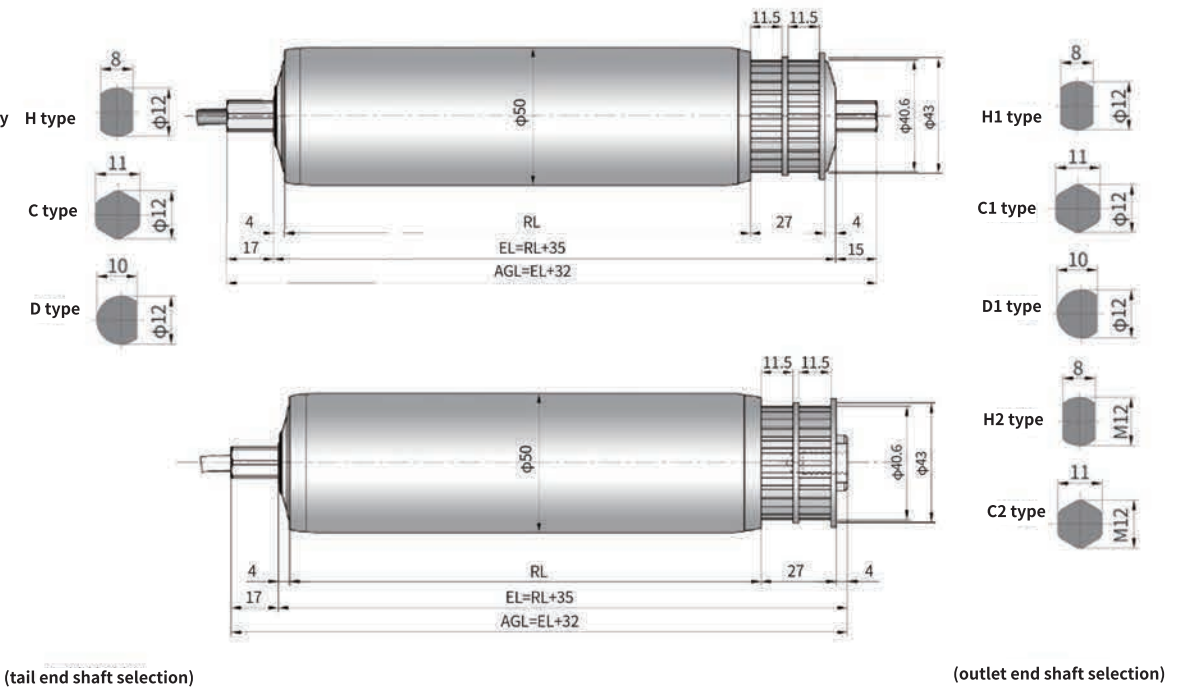


★ Poly-V belt: Poly-V pulleys are available in three materials: stainless steel, zinc alloy, and nylon. 9 grooves, equipped with PJ type poly-V belt, the maximum load can reach 100KG.

 RL = Reference length/ordering length* (including cover)
EL = Installation length
AGL = Total shaft length



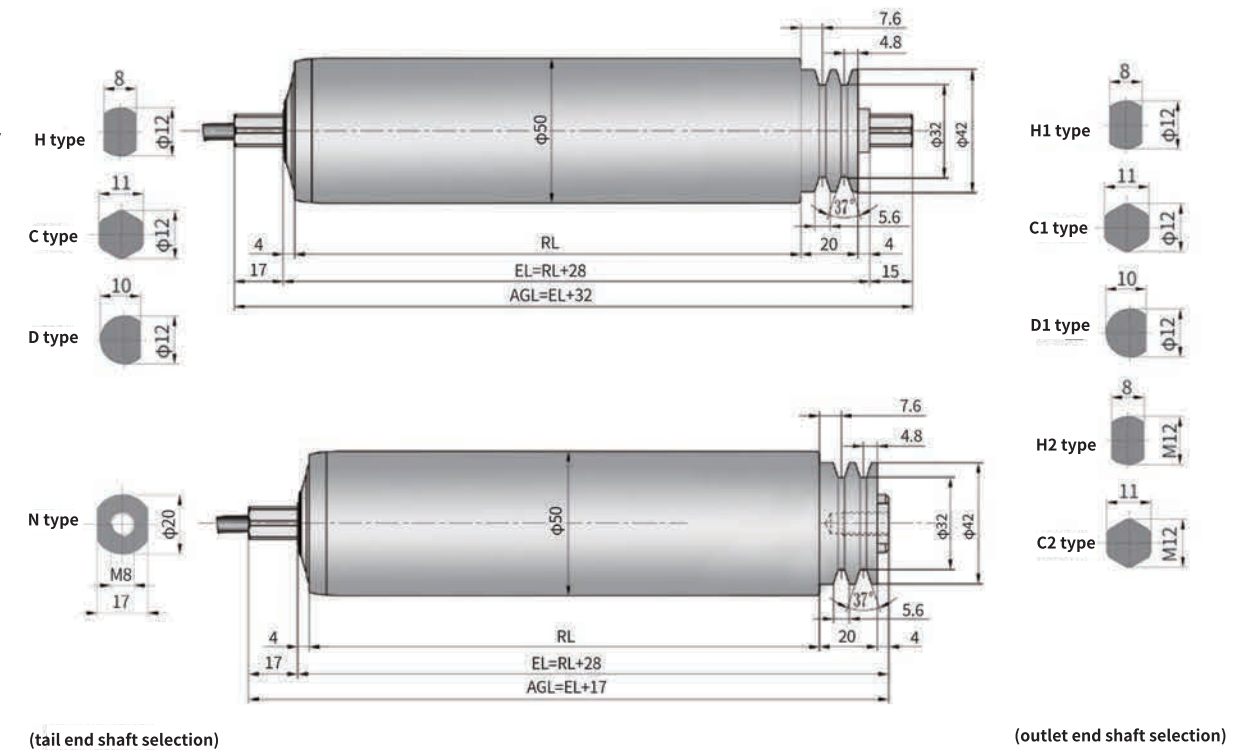
T:Synchronous



★ **Synchronous pulley:** The synchronous belt can effectively prevent slipping. The picture shows a molded nylon synchronous pulley with 2 belt grooves, T5 type and 26 teeth. It can be customized to meet special requirements. The materials can be aluminum alloy or stainless steel.

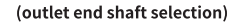
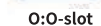
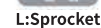


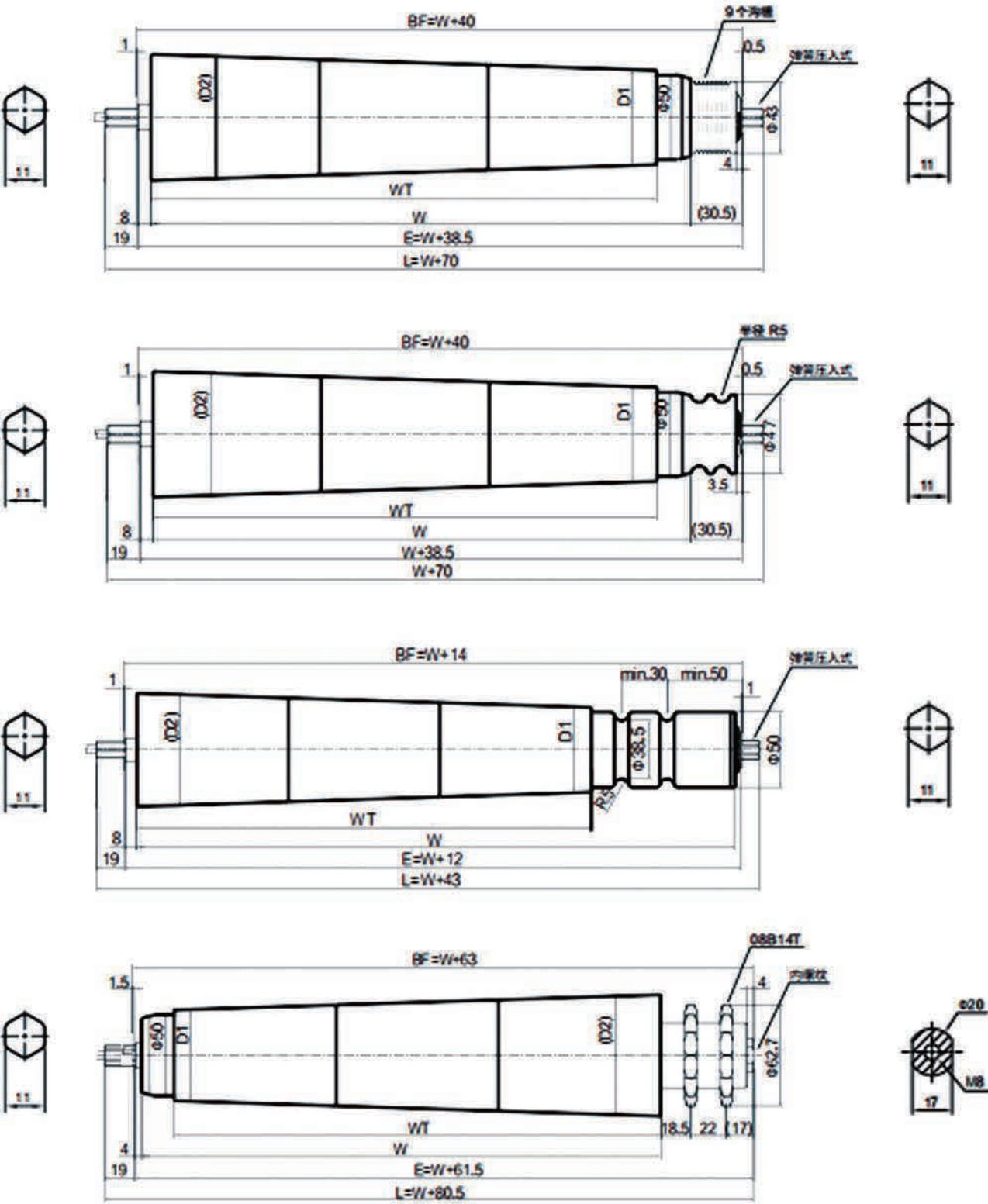
V:V-type pulley



 **V-type pulley:** Bando VC-6, V-type pulleys are connected by polyurethane belts, so they are very quiet and suitable for lightweight conveying applications. The materials can be aluminum alloy or stainless steel.

 **Note:** V-type wheels do not have elastic shafts;
RL=reference length/order length* (including cover);
EL=installation length.



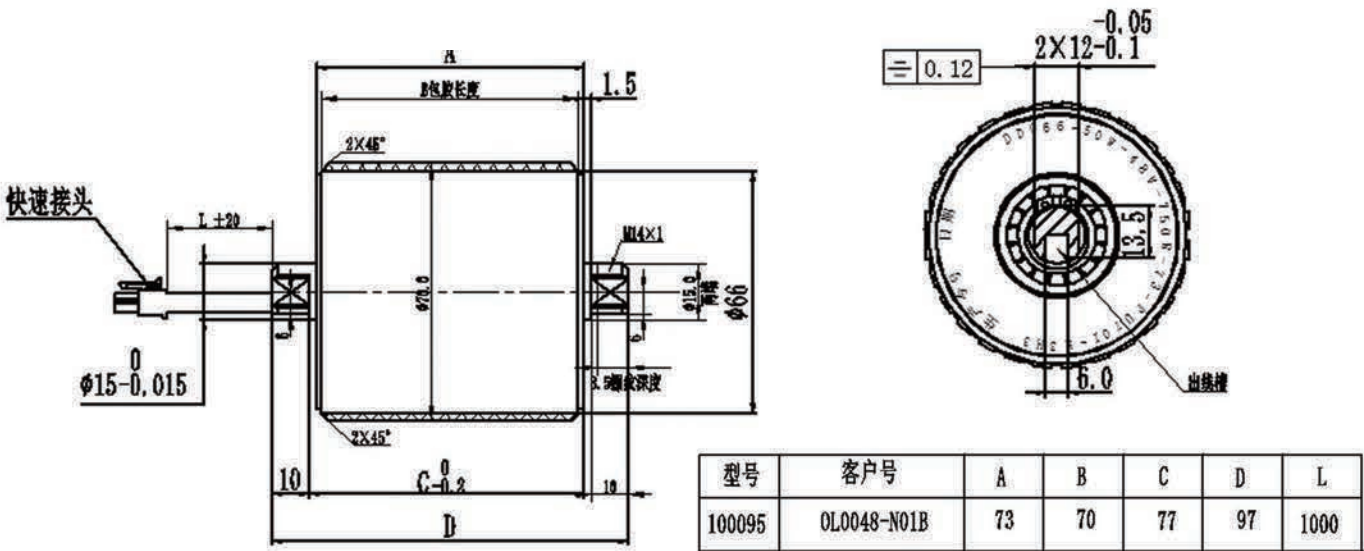


★ Use a special tapered motor roller mounting bracket.
External threads are not recommended for installation.

MAIN SPECIFICATIONS OF ELECTRIC DRUM

Project	Unit	Specification	Remarks
motor type		permanent magnet brushless motor	no Hall
motor form		outer rotor motor	
drum outer diameter	mm	70	
rated voltage	V(DC)	48	rubber coating thickness 2mm
rated power	W	50	+/-10%
peak torque	N.m	2	peak power
no-load power	W	4	
maximum current	A(DC)	10	
speed range	rpm	RS485 mode:150-850 IO control mode:150-850	
working system		S2	peak torque working system
insulation grade		F	

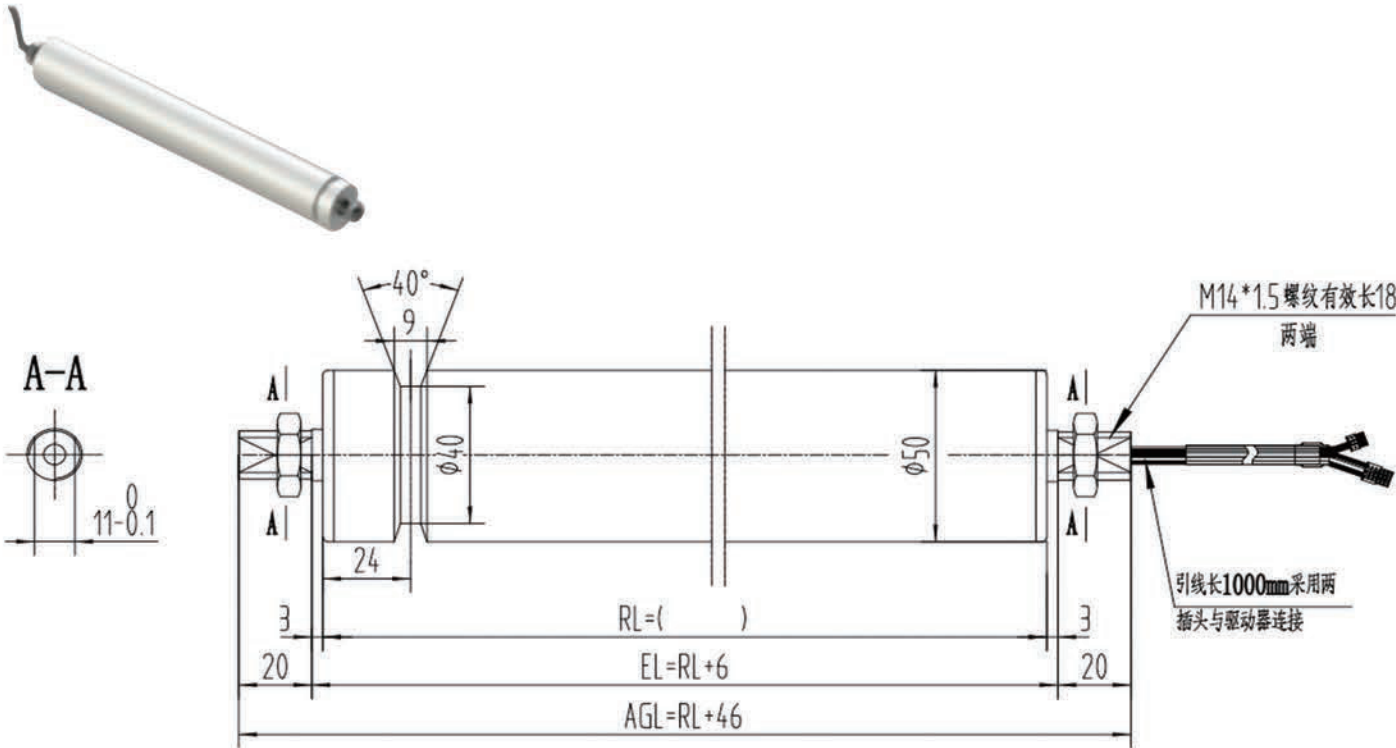
SPECIFIC DIMENSIONS OF THE DRUM



★ The default surface of the drum is blue rubberized, the rubberized material is polyurethane, and the thickness is 2mm

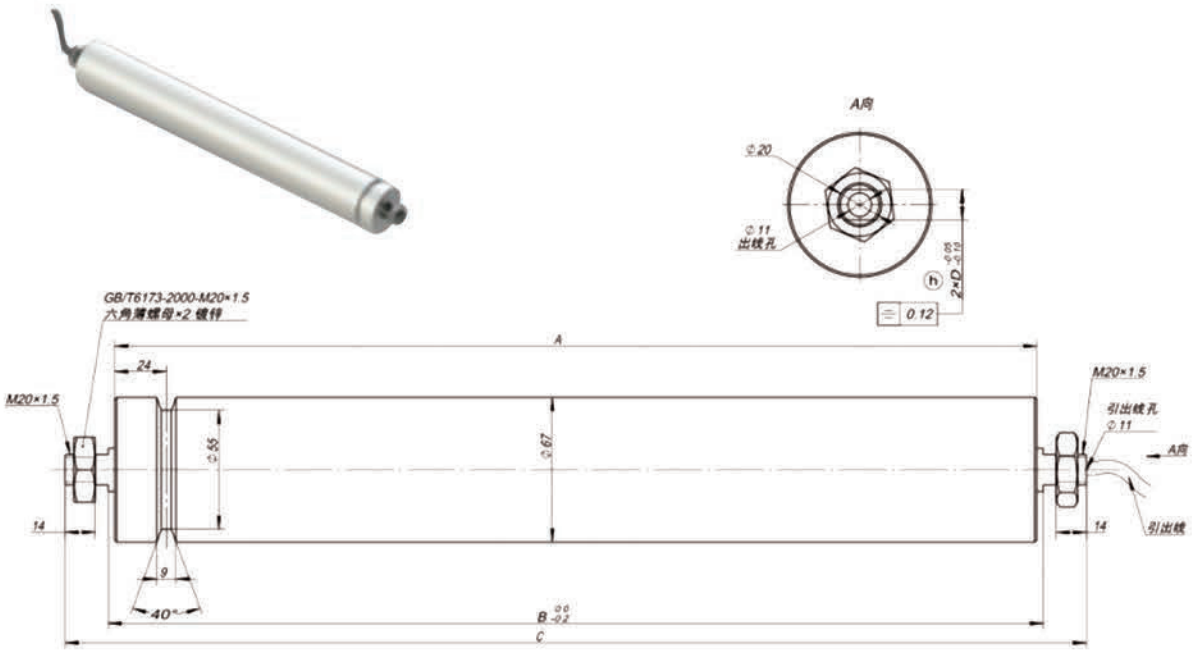
MAIN SPECIFICATIONS OF ELECTRIC DRUM

Project	Unit	Specification	Remarks
motor type		permanent magnet servo motor	no Hall
motor form		external rotor motor	
roller outer diameter	mm	50	
rated voltage	V(DC)	48	+/-10%
rated power	W	100/150	
maximum current	A(DC)	25	
speed range	rpm	100-1000	
line speed range	m/s	0.26-2.0(50)	
working system		S2	maximum 25% intermittent operation
insulation grade		F	

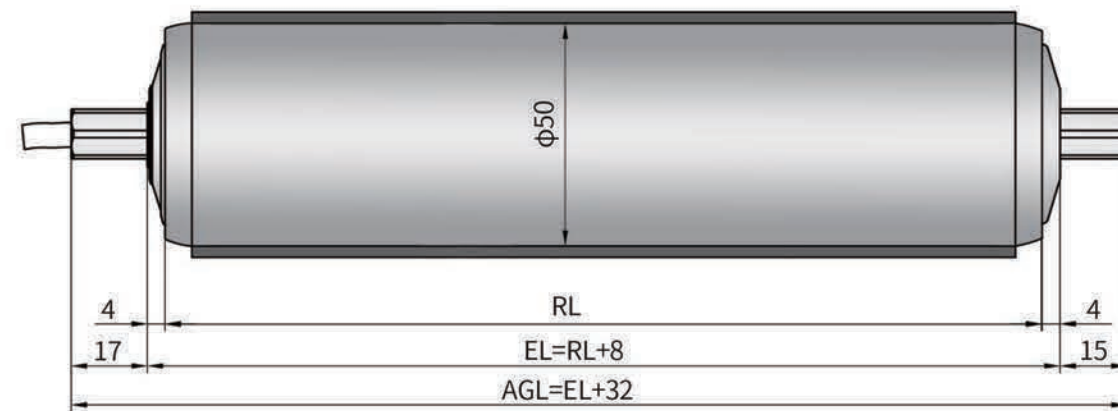


MAIN SPECIFICATIONS OF ELECTRIC DRUM

Project	Unit	Specification	Remarks
motor type		permanent magnet servo motor	
motor form		external rotor motor	
roller outer diameter	mm	67	
rated voltage	V(DC)	48V	+/-5%
rated power	W	400	Continuous Operation Power
maximum current	A(DC)	27	Peak Current
speed range	rpm	30-1000RPM	
line speed range	m/s	1-3.5	
working system		S3	Peak Operation Torque
insulation grade		F	



ROLL BREAD GLUE



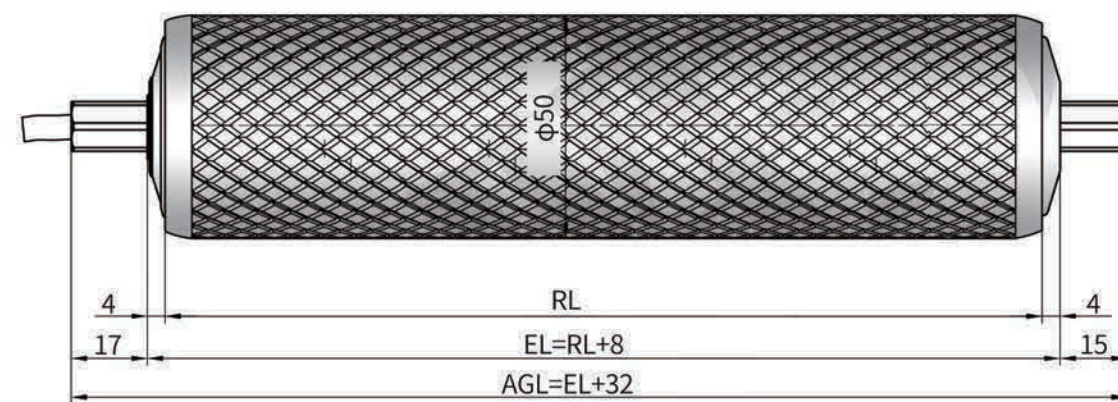
CYLINDER COATING: φ50 DIAMETER AFTER COATING IS φ55

In order to effectively improve the operation of the conveying system and prevent slipping (such as speeding up at a specific station, climbing a small slope, etc.), a larger friction between the contact surfaces is required. Rubber coating on the roller surface is the most common, bottom surface of the goods and reduce conveying noise.

PVC SOFT RUBBER ON THE CYLINDER SURFACE: φ50, THE DIAMETER AFTER RUBBER COATING IS φ54

In addition to traditional rubber lagging, you can also choose the roller cover PVC soft rubber solution, which has most of the functions of rubber lagging and is similar to rubber lagging in terms of increasing friction, protecting the bottom surface of goods, reducing noise and shock, but its production cycle and cost performance are both good.

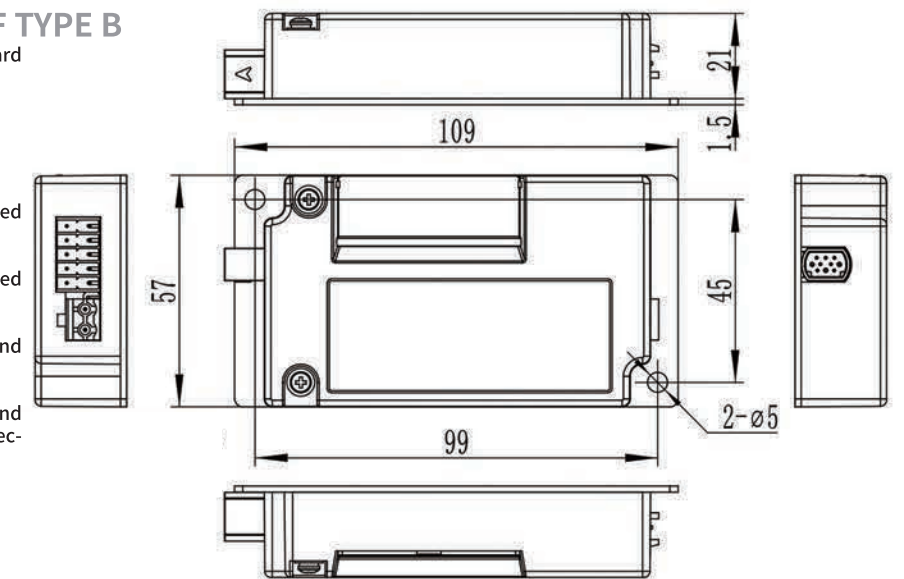
ROLLER KNURLING



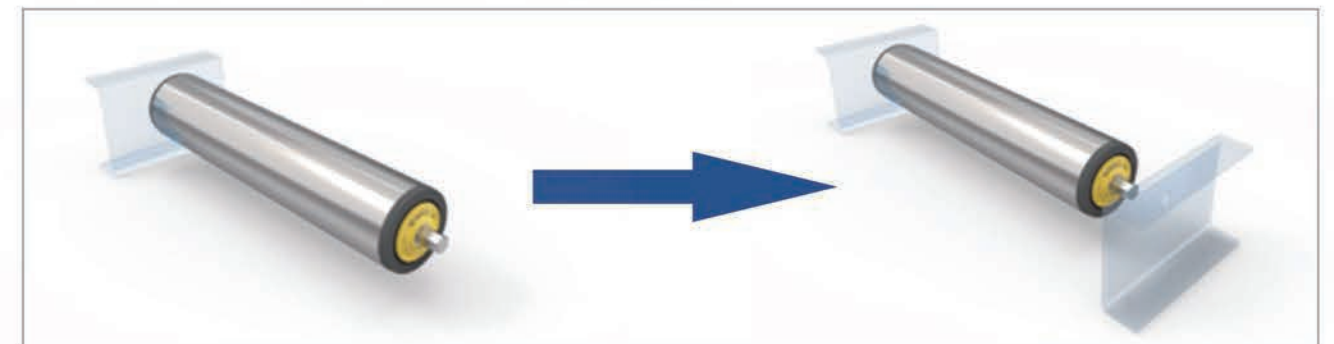
Drum surface knurling: drum surface knurling can increase the friction between the conveyed object and the drum. The pattern on the drum surface is mainly mesh.

MAIN FUNCTIONS OF TYPE B

- Overheat and overcurrent protection for drive card and electric roller;
- Internal 10A SMD fuse;
- Removable power and signal terminals;
- 3 status LED indicators Y;
- Error/alarm output signal LED indication;
- NPN and PNP mode external switching;
- PID and knob speed control mode, 32 dial speed selections;
- 16-speed acceleration/deceleration adjustment;
- Connect 0~10V external voltage for stepless speed regulation;
- Multi-speed can be customized;
- Electric roller operation supports forward and reverse rotation;
- Power polarity access error protection;
- Wide voltage (24V/48V), over-high (60V) and over-low (18V) trigger voltage high and low protection;
- EBS/servo brake support;
- Support 485 communication function;
- Selection of default rotation direction;
- Speed open-loop/closed-loop operation;
- Re-give operation signal recovery.

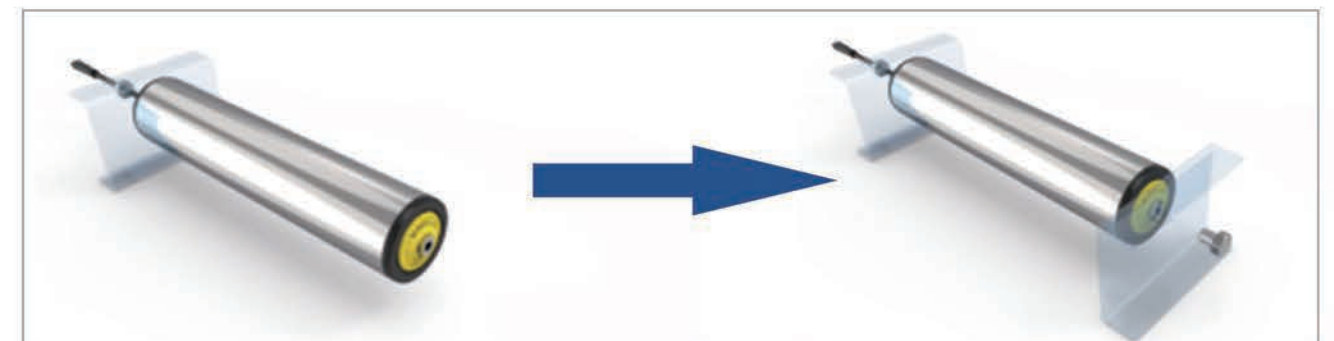


C SHAFT INSTALLATION EXAMPLE



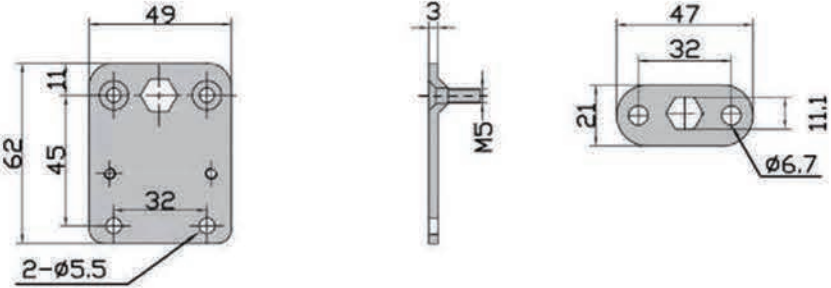
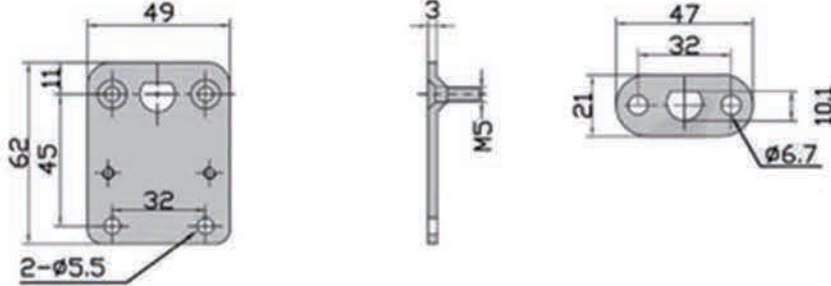
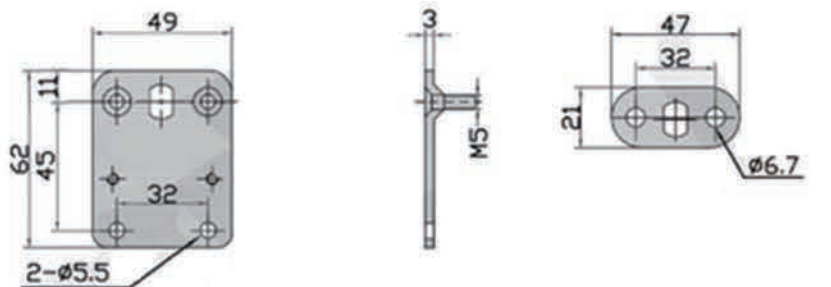
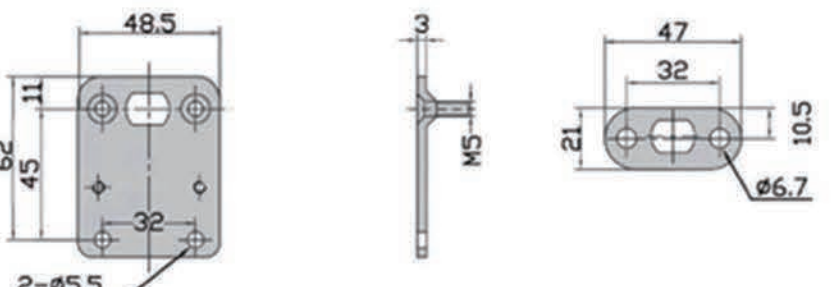
THREADED SHAFT INSTALL THE SAMPLE

M8 INTERNAL THREAD AT THE END

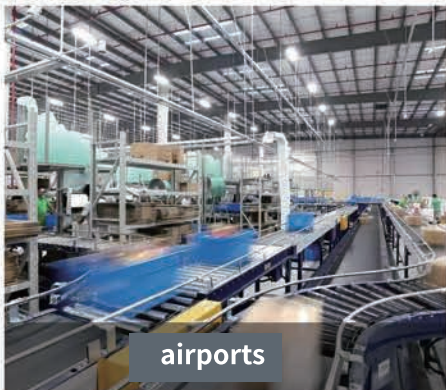
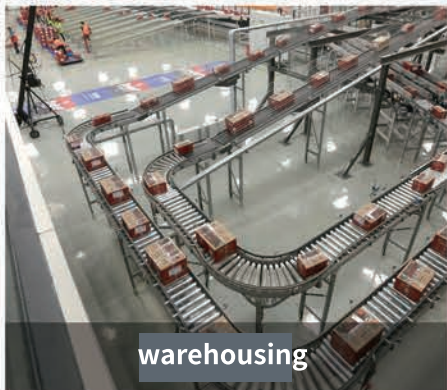


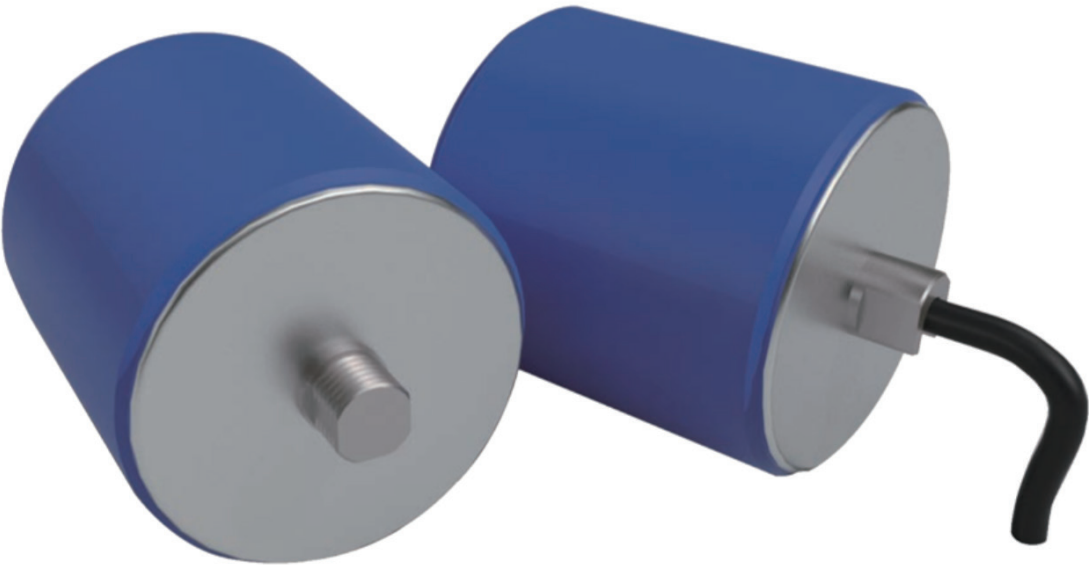
NOTE: PLEASE REFER TO OUR CONTROLLER MANUAL FOR DETAILED INSTRUCTIONS. IF YOU HAVE ANY QUESTIONS, PLEASE CONTACT US IN TIME!

FIXING HARDWARE: USE STANDARD FIXING BRACKET TO FIX THE SHAFT TO THE CABLE SEGMENT

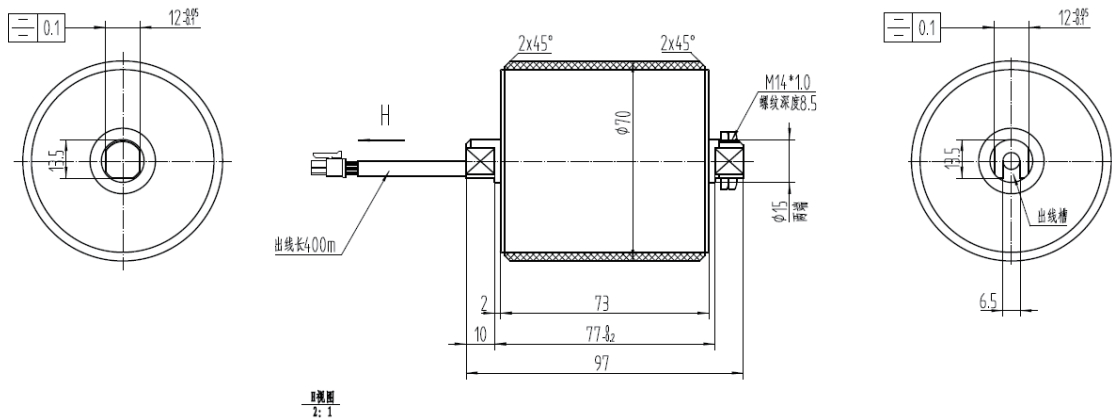
BASIC INFORMATION	STANDARD SIZES
	
D-TYPE JUNCTION BOX BOTTOM PLATE AND FIXING PLATE ★ MATERIAL: 3MM GALVANIZED IRON PLATE ★ THE WIRE END SHAFT MUST BE LOCKED AND CANNOT BE LOOSE	
H-TYPE 12-AXIS JUNCTION BOX BOTTOM PLATE AND FIXING PLATE ★ MATERIAL: 3MM GALVANIZED IRON PLATE ★ THE WIRE END SHAFT MUST BE LOCKED AND CANNOT BE LOOSE	
H-TYPE 15-AXIS JUNCTION BOX BOTTOM PLATE AND FIXING PLATE ★ MATERIAL: 3MM GALVANIZED IRON PLATE ★ THE WIRE END SHAFT MUST BE LOCKED AND CANNOT BE LOOSE	

ELECTRIC ROLLERS ARE WIDELY USED IN VARIOUS INDUSTRIES, SUCH AS DISTRIBUTION CENTER MERGERS, BRANCHES, SORTING, CLEAN ROOM TRANSPORTATION, FOOD LINES, GENERAL PRODUCTION LINES, MAIL CENTERS, DISTRIBUTION CENTERS, PALLET TRANSPORTATION, ETC.





Dimensions



Brushless DC motor parameters

VERSION	UNIT	SPECIFICATION	DESCRIPTION
motor type		DC brushless motor	
motor form		outer rotor motor	
roller outer diameter	mm	70	rubber coating thickness 2mm
rated voltage	V	DC48	+/-10%
maximum current	A	10	
rated power	W	50	S1 working system
peak torque	N.m	2	
speed range	rpm	350-1000	
line speed range	m/s	1-3.5	
insulation grade		F	

Main parameters of the drive

VERSION	UNIT	SPECIFICATION	
driver type		Brushless DC Drive	
input rated voltage	V	DC48V+/-10%	DC Stabilized Source
output power	W	100*4	100W per motor interface
driver size	mm	175*120*35.2	
driver communication method		RS485	38400bps,N,8,1 Freedom Protocol
operating ambient temperature	° C	-25~60	
operating ambient humidity		80% or less	No Condensation
protection level		IP20	No special protection against water or moisture; prevent intrusion of solid foreign objects with a diameter greater than 12.5 mm