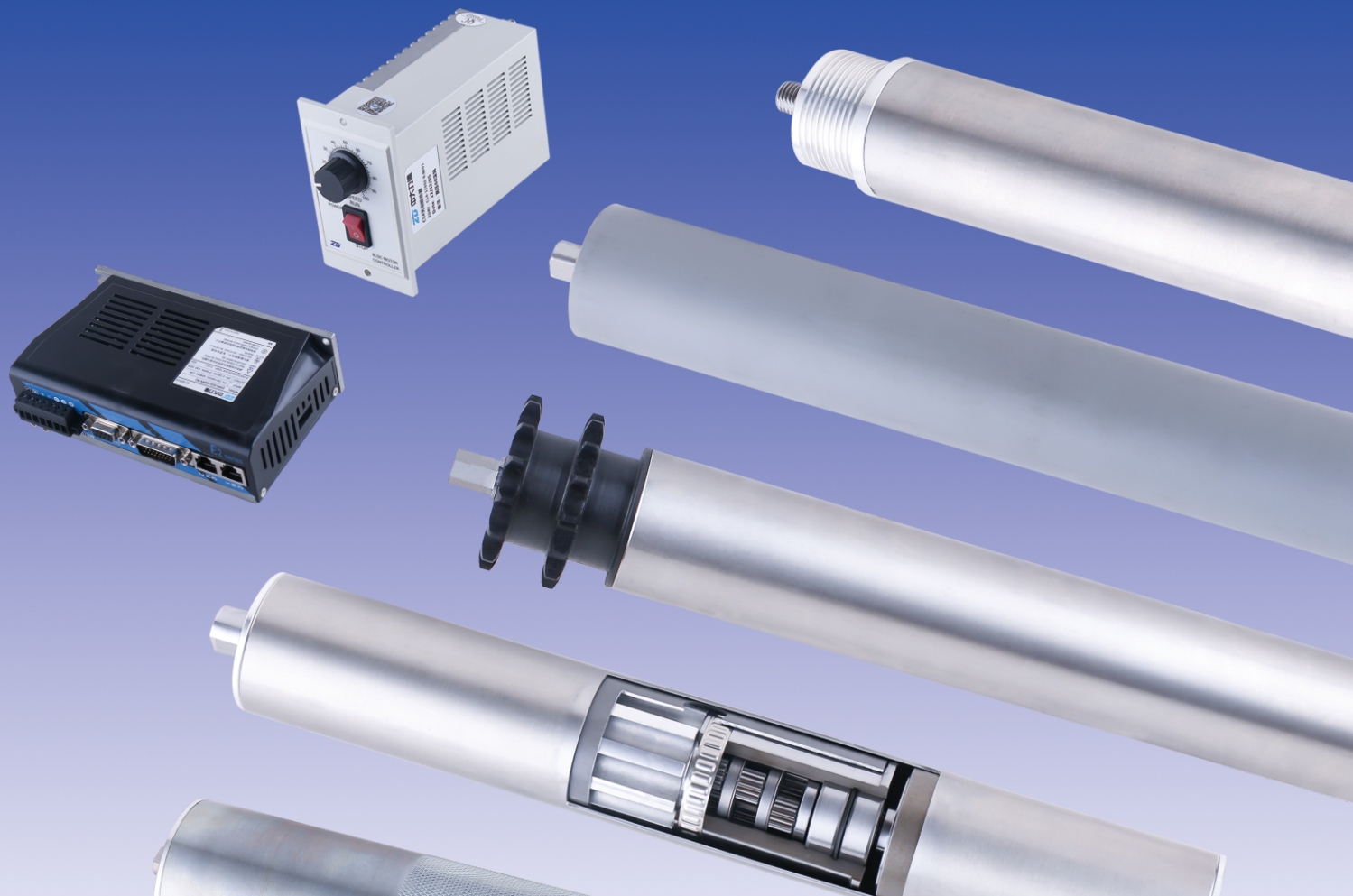




MOTOR ROLLER

电动滚筒

ZD[®] 中大力德



Zhongda Realizes the infinite possible in automation application

宁波中大力德智能传动股份有限公司始创于1998年，是一家集电机驱动、微特电机、精密减速器、机器人结构本体及一体化智能执行单元的研发、制造、销售、服务于一体的国家高新技术企业。公司注册资本10400万元，分、子公司9家，员工1800余人，2017年8月在深交所主板上市，股票代码：002896。

公司系国家级高新技术企业，主导和参与起草国家标准10项，行业标准5项；授权专利107项，其中发明专利11项。拥有机械工业精密齿轮减速电机工程研究中心、浙江省级高新技术企业研究开发中心、浙江省级企业技术中心。

公司立足于智能化、自动化装备核心零部件设计和制造，为客户提供智能驱动解决方案。公司产品以其差异化和高性价比优势，广泛应用于工作母机、数控设备、工业机器人、智能物流、新能源、食品、包装、纺织、电子、医疗、通讯、农牧等机械装备领域。在替代进口产品的基础上，逐步参与国际竞争。

Ningbo Zhongda Leader Intelligent Transmission Co., Ltd. was founded in 1998. It is an electromechanical automation enterprise integrating R&D, manufacturing, sales and service of motor drives, micro motors, precision reducers and integrated products. It has 9 branches and subsidiaries, over 1,800 employees, and a registered capital of 104 million yuan. In August 2017, it was listed on the A-shares of the Shenzhen Stock Exchange (stock code 002896).

The company is a national-level high-tech enterprise, leading and participating in the drafting of 10 national standards and 5 industry standards, maintaining 107 patents and 11 invention patents. It's owning a Zhejiang-level enterprise R&D center.

The company is based on intelligent and automation equipment core component manufacturers and design solution providers. With its differentiated and cost-effective advantages, the company's products are widely used in industrial robots, intelligent logistics, new energy, machine tools and other fields, as well as special machinery and equipment for food, packaging, textiles, electronics, and medical treatment. On the basis of realizing domestic substitution of imported products, gradually participate in international competition.

滚筒发展史 DRUM MOTOR DEVELOPMENT HISTORY

■ 使用 Use

与传统驱动系统相比，电动滚筒的安装要快速的多筒易的多、零件少，意味着输送机设计和零件采购的成本越低。

Compared with the traditional drive system, the installation of drum motor is much easier, simpler. which means lower cost of designing and purchasing.

■ 耐用 Durable

即使113、138、165系列的电动滚筒在充满水、灰尘、化学品、油脂、油的不利环境条件下。乃至高压冲洗期间都可以保持正常的运行。

Even under severe conditions, full of water, dust, chemicals, oil, grease, even during high-pressure water washing, 113, 138, 165 series drum motors can normally operate.

■ 设计卫生 Sanitary Design

由于采用的是光面不锈钢材料，而且是紧密密封和全封闭式设计，因此电动滚筒更易于清洁，从而降低了食品加工过程中受污染的风险。

Due to the smooth stainless steel material, and tightly sealed and fully enclosed design, drum motor is easier to clean, thus reducing the risk of contamination in food processing.

■ 节约空间 Save Space

由于电机、齿轮变速箱和轴承都安装在滚筒内部中，电动滚筒所占的空间要少很多。

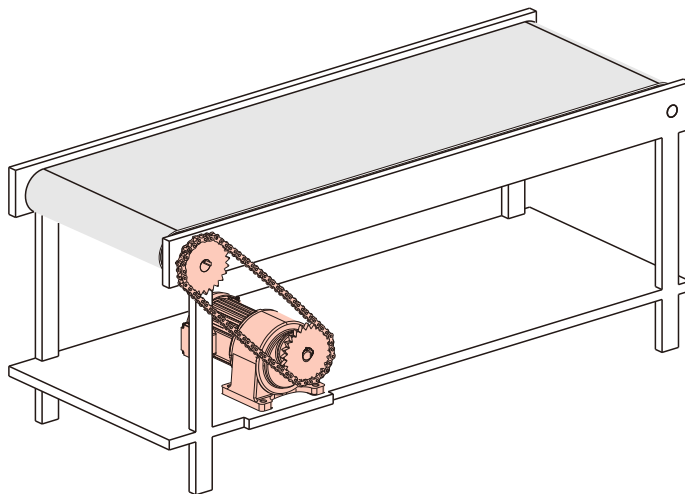
Because the motor, gearbox and bearings are installed inside of the drum, drum motor occupies less space.

■ 安全 Security

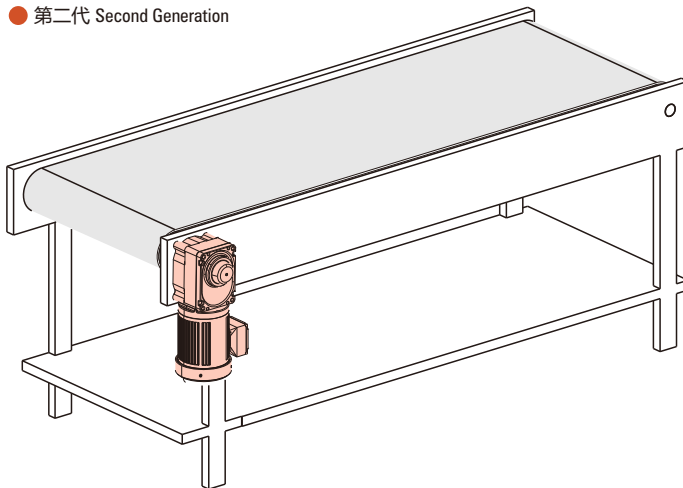
作为没有突出零件且外部轴固定的整装部件，电动滚筒或许是可用于一流物料搬运设备的最安全的驱动装置。

As a complete unit with no protruding parts and fixed by external axial, drum motor is the safest drive system used for first-class transporting equipments.

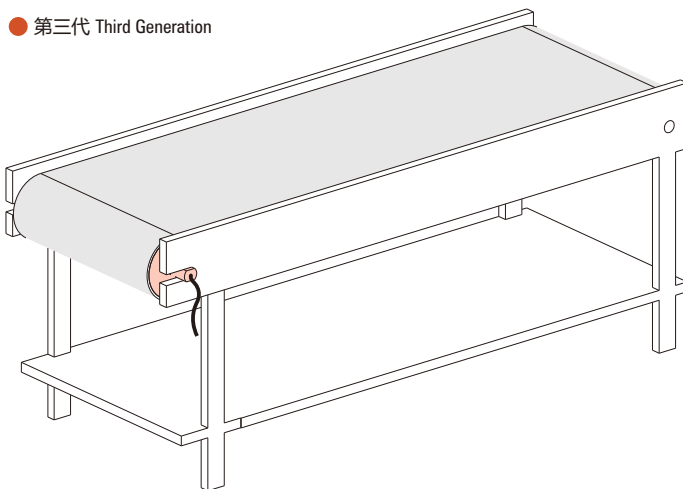
● 第一代 First Generation



● 第二代 Second Generation



● 第三代 Third Generation

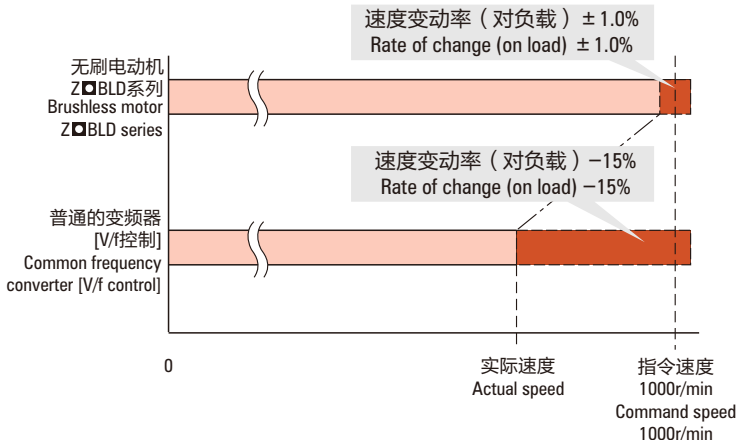


一般技术信息——永磁无刷电动滚筒 GENERAL TECHNICAL INFORMATION——DC DRUM MOTOR

可进行稳定的速度控制 Stable Speed Control

无刷电动机持续对设定速度和来自电动机的速度反馈信号进行对比，来调节施加到电动机上的电压；因此，即使负载状况发生变化，仍可以从低速瞬间调整到设定速度，并以此稳定的速度运行。使用变频器控的三相感应电动机不进行反馈控制，因此负载变大时，速度会大幅下降；对于速度稳定性要求较高的用途，建议使用无刷电动机。

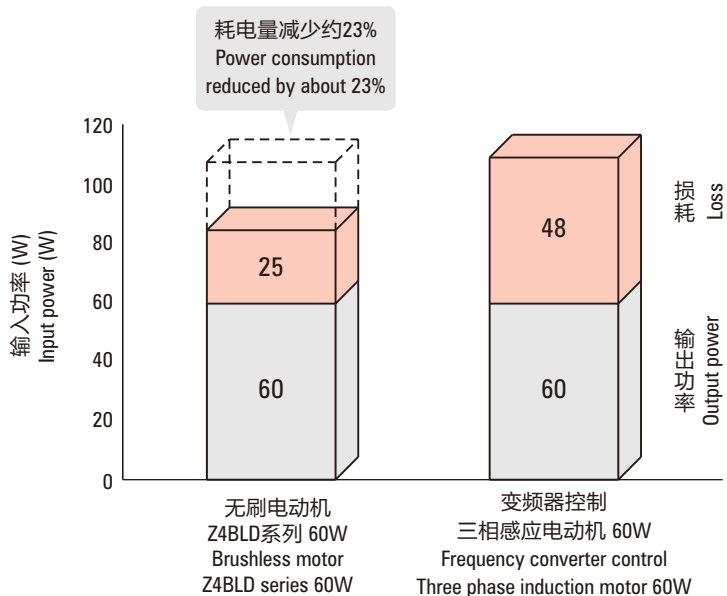
Brushless motor continues to set speed and a feedback signal are compared from the speed of the motor to adjust the voltage applied to the motor; therefore, even if the load change, still can set the speed from slow instantaneous adjustment to, and in order to stabilize the running speed. Three phase induction motor with inverter control is not feedback control, so the load becomes larger, the speed will be greatly reduced; for the high speed stability requirements, it is recommended to use brushless motor.



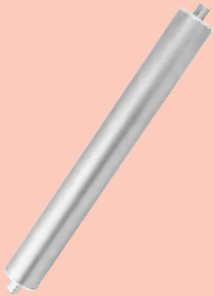
有助于节能 Contribute To Energy Saving

无刷电动机的转子使用了永磁铁，可减少转子的二次损耗，因此与采用变频控制的三相感应电动机相比，耗电量减少20%以上，有助于装置的节能。

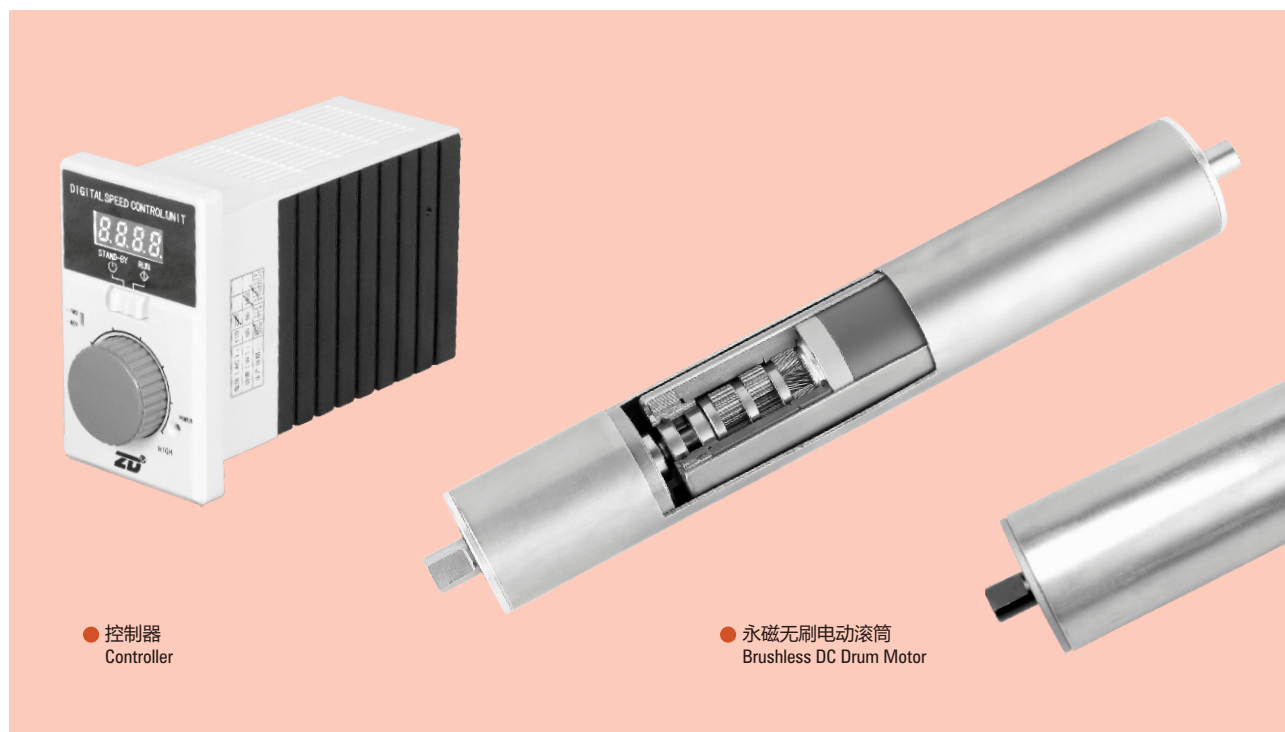
The rotor of the brushless motor is used for the permanent magnet, which can reduce the two loss of the rotor, so the power consumption is reduced by more than 20% compared with the three phase induction motor with variable frequency control, which is helpful for the energy saving of the device.



滚筒的一般规格——产品种类 Drum Motor Spec——Product Type

电动滚筒 Drum Motor	滚筒直径 Roller Diameter	输出功率 Output Power	机型 Model	驱动器 Driver	电源电压 Voltage Supply
	50	40	IP54		永磁 DC 24~48V
	60	60			
	80	120			永磁 DC 24~48V

永磁低压无刷电动滚筒 BRUSHLESS DC DRUM MOTOR



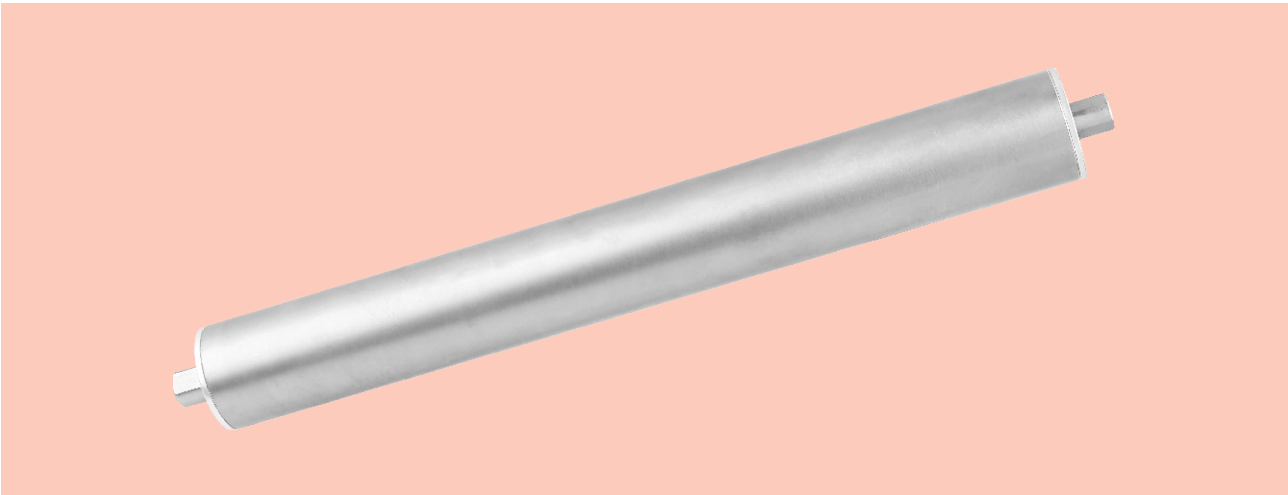
品名的阅读方法 MODEL NO. CODING

电动机 Motor

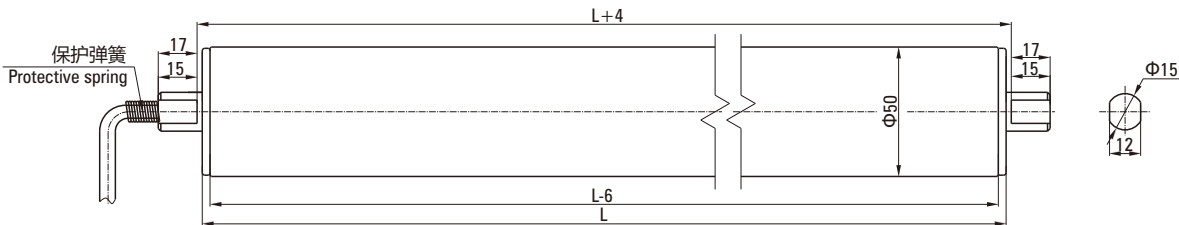
ZD BL S 50 - A - 25 - 380 - 40 - D - 24 - P
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪

①	公司名称 Comanpy	中大电机 ZD Motor	
②	型号尺寸 Model & Dimension		
	电机种类 Motor type	BL: 无刷电机 Brushless motor	
③	滚筒材质 Drum material	T: 碳钢管 (镀锌) S: 304不锈钢管	T: Carbon steel pipe (Galvanized) S: 304 Stainless steel pipe
④	滚筒直径 Drum diameter	(例) 50: 滚筒外径50mm (Example) 50: Drum diameter 50mm	
⑤	滚筒形状 Drum shape	A: 圆柱形筒体 A: cylindrical tube	
⑥	线速度 Linear speed	(例) 25: 滚筒转动线速度25m/min (Example) 25: Rotary line speed 25m/min	
⑦	滚筒长度 Drum length	(例) 380: 总长度380mm (不包括出轴) (Example) 400: Total length 400mm (not included)	
⑧	额定功率 Rated power	(例) 40: 电机额定功率 40W (Example) 40: Motor rated power 40W	
⑨	电压类型 Voltage type	D: 直流电源	D: DC power supply
⑩	电压 Voltage	(例) 24:24V (Example) 24:24V	
⑪	皮带线 (可省略) Belt line (Omissible)	皮带线轴承6203 , 轴径17 Belt line bearing 6202, shaft diameter 17 滚筒线轴承6902 , 轴径15 Roller line bearing 6902, shaft diameter 15	

BL50电动滚筒
BL50 DRUM MOTOR



BL50尺寸图 BL50 Outlining Dimensions



引出线说明 Lead Out Outlet

蓝(粗)	黄(粗)	绿(粗)	红(细)	黄(细)	绿(细)	蓝(细)	黑(细)
Blue(thick)	Yellow(thick)	Green(thick)	Red(fine)	Yellow(fine)	Green(fine)	Blue(fine)	black(fine)
W	U	V	Vcc+5V	Hu	Hv	Hw	GND

- 管径 Diameter: Φ50
- 壁厚 Wall thickness: t1.5
- 外管材质 Wall thickness: 304不锈钢 SUS304
- 碳钢 Carbon steel: 碳钢镀锌 Zinc plating

BI50机械参数 BL50 Mechanical Parameters

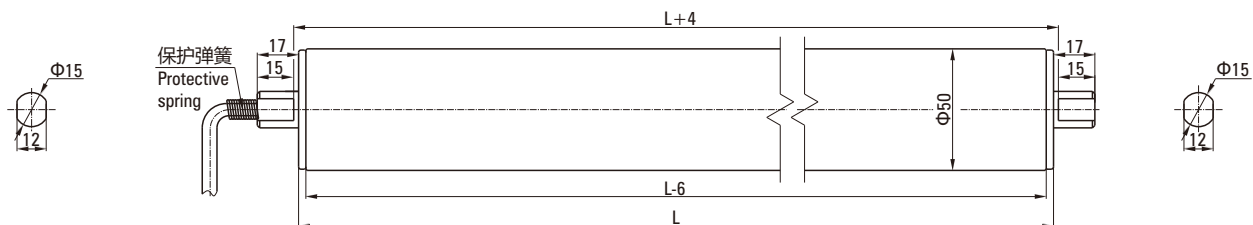
● 低压无刷 Drum Shell

(电压 Voltage 24V/48V)

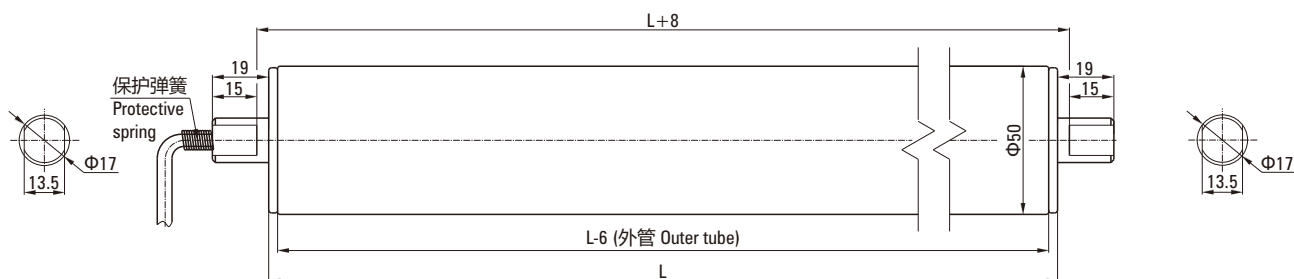
额定功率P Rated Power P W	齿轮箱级数 Gear Box Series	减速比i Reduction Ratio i	最高线速度V Max Speed V m/min	额定转速n Rated Speed n RPM	额定扭矩T Rated Torque T Nm	牵引力F Traction F N	最短长度L Length L mm
40	1	3.65	129	821.9	0.420	16.73	270
		5.36	88	559.7	0.610	24.57	
		6.55	72	458.0	0.750	30.03	
		8.63	55	347.6	0.990	39.56	
	2	13.53	35	221.7	1.400	55.82	285
		18.92	25	158.6	1.950	78.06	
		24.65	19	121.7	2.540	101.70	
		33.92	14	88.40	3.500	139.94	
	3	44.69	11	67.10	4.610	184.37	300
		67.08	7	44.70	6.240	249.41	
		91.36	5	32.80	8.490	339.69	
		165.64	3	18.10	15.00	600.00	

不同安装方式的常规出轴 Conventional Shaft Outlet With Different Installation Methods

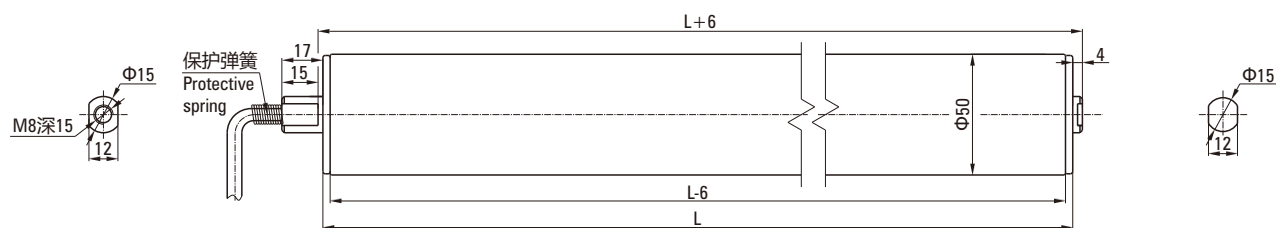
● 常规出轴，双铣扁 Conventional shaft output, double milling flat



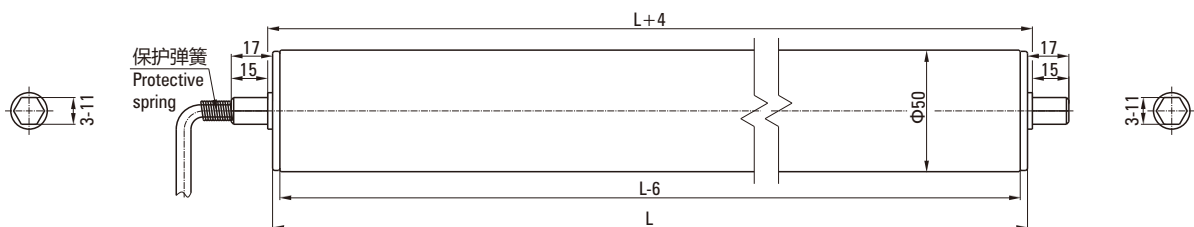
● 皮带线 Belt line



● 常规出轴，双铣扁，轴端带内螺纹孔 Conventional shaft outlet, double milling flat, with internal threaded hole at the shaft end



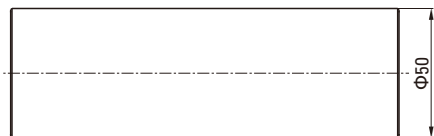
● 常规出轴，铣六边 Conventional shaft outlet, hexagonal milling



■ 滚筒外管特殊处理 Special Treatment For Outer Tube Of Drum

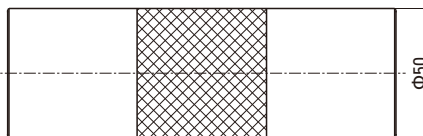
● 常规外管，无特殊处理

Conventional outer tube, no special treatment

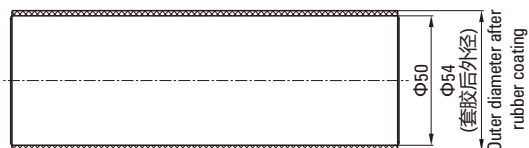


● 外管中间段表面滚花处理

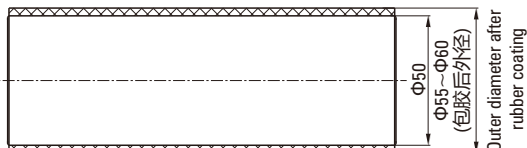
Knurling treatment of the surface of the middle section of the outer tube



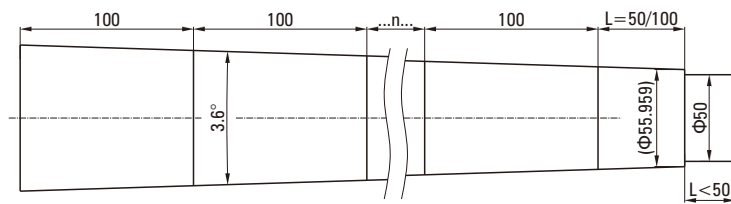
● 表面套胶（硅胶）Surface coating (Silicone)



● 聚氨酯包胶 Polyurethane coating

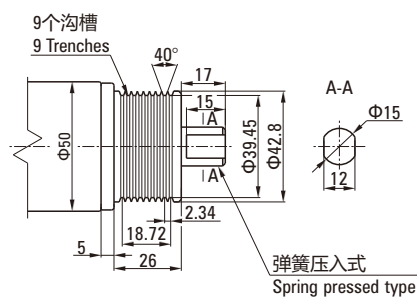


● 锥套 Taper sleeve

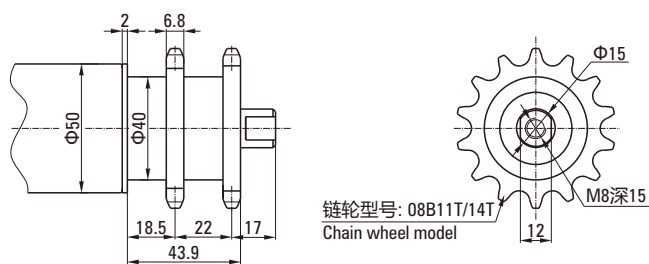


■ 滚筒端盖的连接结构 Connecting Structure Of Roller End Cover

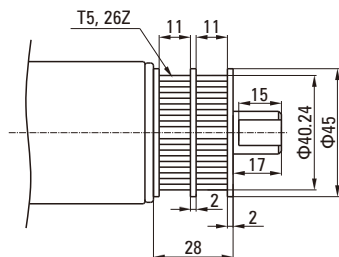
● 多楔带轮端盖 Multi wedge pulley end cover



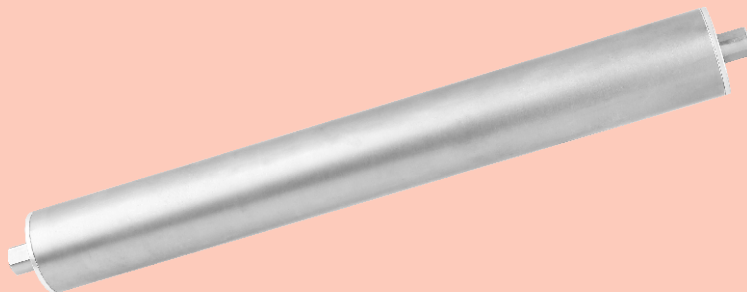
● 双链轮端盖 Double sprocket end cover



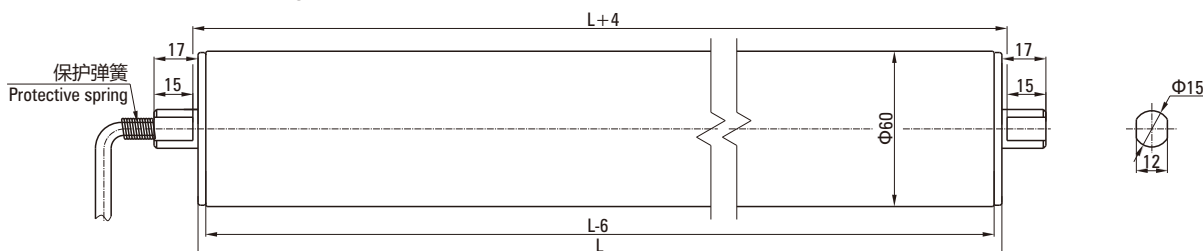
● 同步轮 Synchronizing wheel



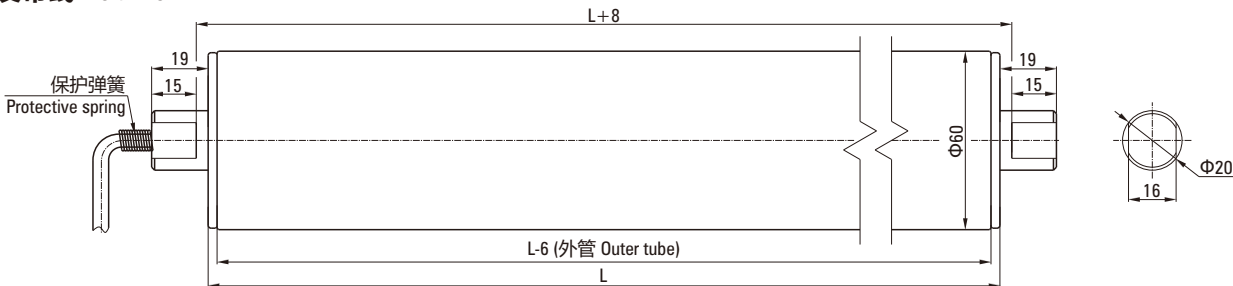
BL60电动滚筒 BL60 DRUM MOTOR



BL60尺寸图 BL60 Outlining Dimensions



皮带线 Belt line



引出线说明 Lead Out Outlet

蓝(粗)	黄(粗)	绿(粗)	红(细)	黄(细)	绿(细)	蓝(细)	黑(细)
Blue(thick)	Yellow(thick)	Green(thick)	Red(fine)	Yellow(fine)	Green(fine)	Blue(fine)	black(fine)
W	U	V	Vcc+5V	Hu	Hv	Hw	GND

- 管径 Diameter: Φ60
- 壁厚 Wall thickness: t1.5
- 外管材质 Wall thickness: 304不锈钢 SUS304
- 碳钢 Carbon steel: 碳钢镀锌 Zinc plating

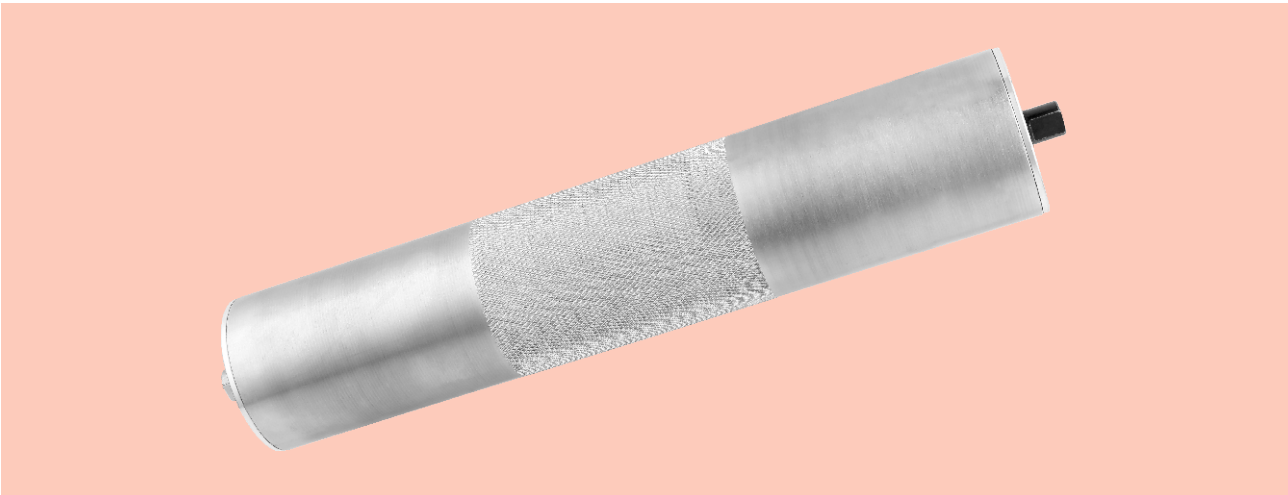
BL60机械参数 BL60 Mechanical Parameters

● 低压无刷 Drum Shell

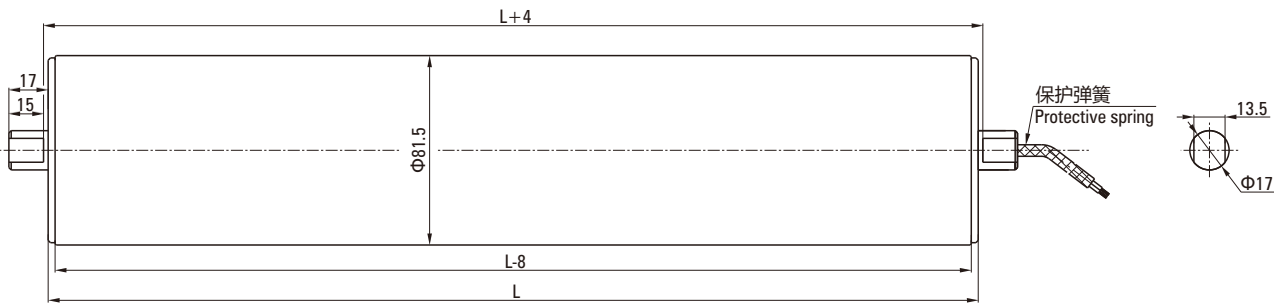
(电压 Voltage 24V/48V)

额定功率P Rated Power P W	齿轮箱级数 Gear Box Series	减速比i Reduction Ratio i	最高线速度V Max Speed V m/min	额定转速n Rated Speed n RPM	额定扭矩T Rated Torque T Nm	牵引力F Traction F N	最短长度L Length L mm
60	1	3.65	155	821.9	0.630	20.91	290
		5.36	106	559.7	0.920	30.71	
		6.55	86	458.0	1.130	37.53	
		8.63	66	347.6	1.480	49.45	
	2	13.53	42	221.7	2.090	69.77	305
		18.92	30	158.6	2.930	97.57	
		24.65	23	121.7	3.810	127.12	
		33.92	17	88.44	5.250	174.93	
	3	44.69	13	67.13	6.910	230.47	320
		67.08	8	44.72	9.350	311.77	
		91.36	6	32.84	12.74	424.61	
		165.64	3	18.11	23.10	769.84	

BL80电动滚筒
BL80 DRUM MOTOR



BL80尺寸图 BL80 Outlining Dimensions



引出线说明 Lead Out Outlet

蓝(粗)	黄(粗)	绿(粗)	红(细)	黄(细)	绿(细)	蓝(细)	黑(细)
Blue(thick)	Yellow(thick)	Green(thick)	Red(fine)	Yellow(fine)	Green(fine)	Blue(fine)	black(fine)
W	U	V	Vcc+5V	Hu	Hv	Hw	GND

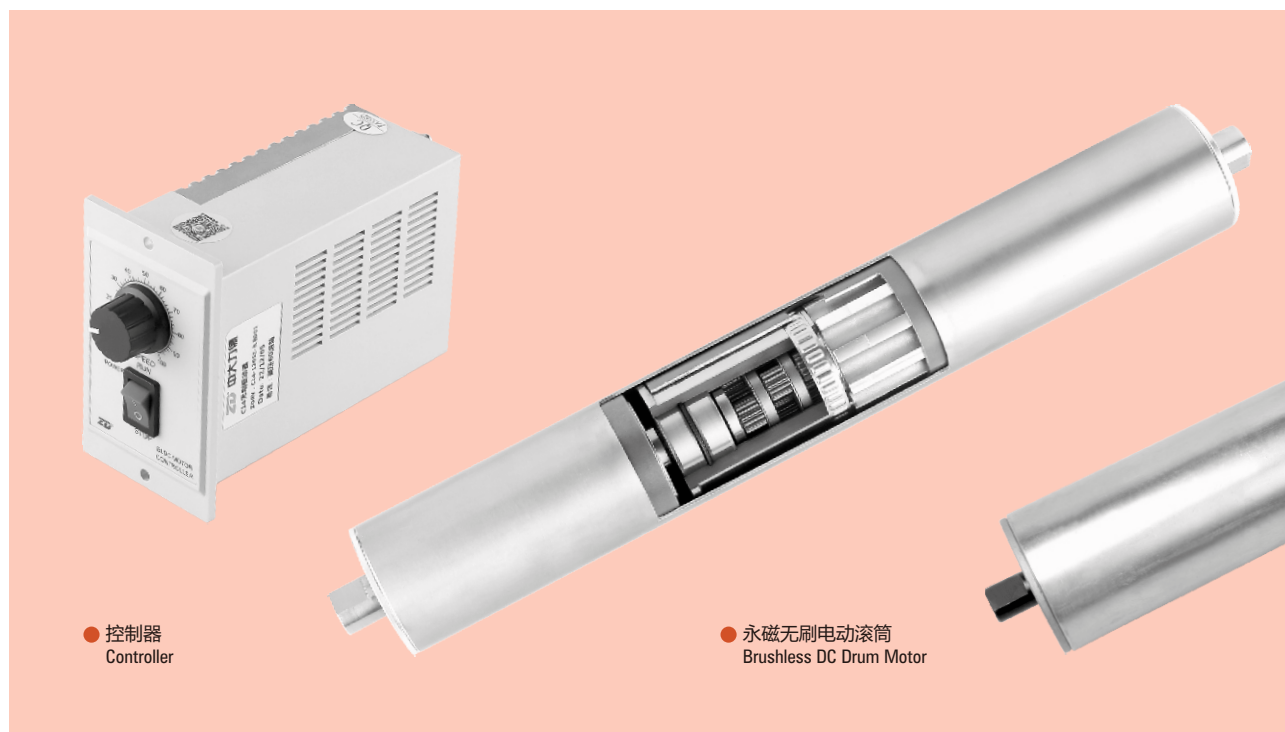
- 管径 Diameter: Ø80
- 壁厚 Wall thickness: t2.25
- 外管材质 Wall thickness: 碳钢管 Cst
- 表面处理 Surface treatment: 镀锌 Zinc plating

BL80机械参数 BL80 Mechanical Parameters

(电压 Voltage 24V/48V)

额定功率P Rated Power P W	齿轮箱级数 Gear Box Series	减速比 Reduction Ratio i	最高线速度V Max Speed V m/min	额定转速n Rated Speed n RPM	额定扭矩T Rated Torque T Nm	牵引力F Traction F N	最短长度L Length L mm
120	1	3.65	210	821.9	1.25	30.79	360
		5.36	143	559.7	1.84	45.22	
		6.55	117	458.0	2.25	55.26	
		8.63	89	347.6	2.97	72.81	
	2	13.53	57	221.7	4.19	102.74	380
		18.92	41	158.6	5.85	143.66	
		24.65	31	121.7	7.63	187.17	
		33.92	23	88.40	10.50	257.56	
	3	44.69	17	67.13	13.83	339.34	400
		67.08	11	44.72	18.71	459.04	
		91.36	8	32.84	25.48	625.19	
		165.64	5	18.11	46.19	1133.51	

永磁高压无刷电动滚筒 BRUSHLESS DC DRUM MOTOR



品名的阅读方法 MODEL NO. CODING

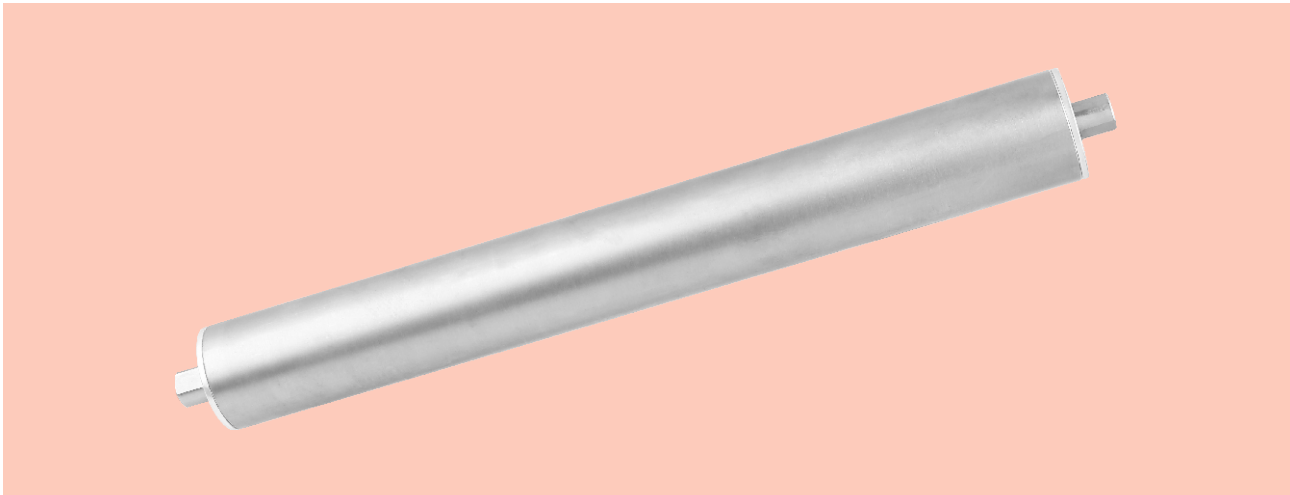
电动机 Motor

ZD BL S 50 - A - 25 - 380 - 60 - AC - 220 - W - P
① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

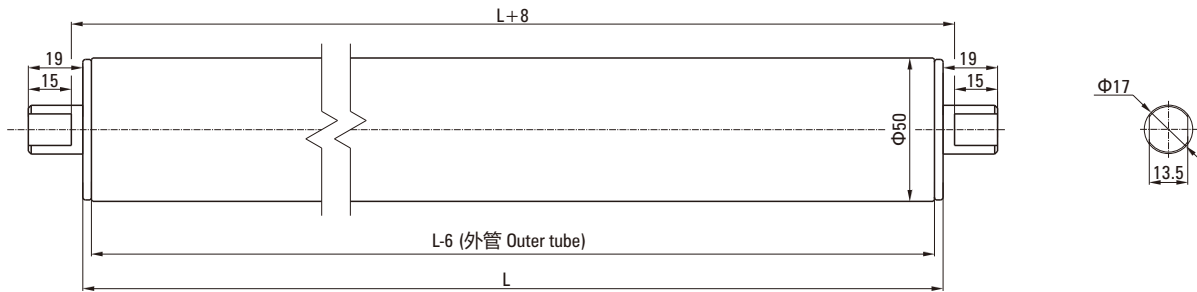
①	公司名称 Comanpy	中大电机 ZD Motor	
②	型号尺寸 Model & Dimension		
	电机种类 Motor type	BL: 无刷电机 Brushless motor	
③	滚筒材质 Drum material	T: 碳钢管	T: Carbon steel pipe
		S: 304不锈钢管	S: 304 Stainless steel pipe
④	滚筒直径 Drum diameter	(例) 50: 滚筒外径50mm (Example) 50: Drum diameter 50mm	
⑤	滚筒形状 Drum shape	A: 圆柱形筒体 A: cylindrical tube	
⑥	线速度 Linear speed	(例) 25: 滚筒转动线速度25m/min (Example) 25: Rotary line speed 25m/min	
⑦	滚筒长度 Drum length	(例) 380: 总长度380mm (不包括出轴) (Example) 400: Total length 400mm (not included)	
⑧	额定功率 Rated power	(例) 60: 电机额定功率 60W (Example) 60: Motor rated power 60W	
⑨	电压类型 Voltage type	单相交流 Single phase AC	
⑩	电压 Voltage	(例) 220V (Example) 220V	
⑪	无感 Insensibility	无感电机 Insensibility motor	
⑫	皮带线 Belt line	轴承加大 Bearing enlargement	

BL50电动滚筒

BL50 DRUM MOTOR



BL50尺寸图 BL50 Outlining Dimensions



引出线说明 Lead Out Outlet

黄 (粗)	绿 (粗)	蓝 (粗)	黄/绿
Yellow (thick)	Green (thick)	Blue (thick)	Yellow/Green
U	V	W	PE

- 管径 Diameter: Φ50
- 壁厚 Wall thickness: t1.5
- 外管材质 Wall thickness: 304不锈钢 SUS304
- 碳钢 Carbon steel: 碳钢镀锌 Zinc plating

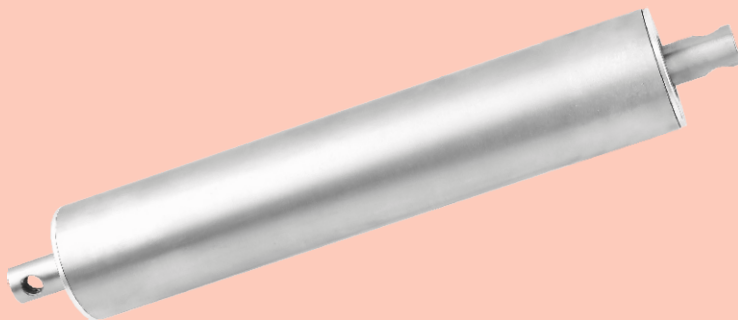
BI50机械参数 BL50 Mechanical Parameters

● 高压无刷 Drum Shell

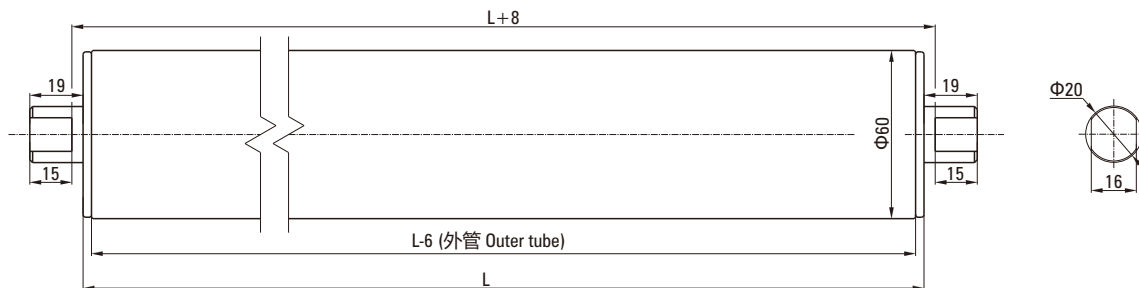
(电压 Voltage 220V)

额定功率P Rated Power P W	齿轮箱级数 Gear Box Series	减速比i Reduction Ratio i	最高线速度V Max Speed V m/min	额定转速n Rated Speed n RPM	额定扭矩T Rated Torque T Nm	牵引力F Traction F N	最短长度L Length L mm
60	1	6.75	70	444.00	1.16	46.41	260
	2	13.69	34	219.14	2.12	84.72	265
		19.16	25	156.58	2.96	118.57	
		26.83	18	111.82	4.15	166.03	
		34.96	13	85.81	5.41	216.35	
	3	50.65	9	59.23	7.05	282.10	270
		70.91	7	42.31	9.87	394.94	
		99.27	5	30.22	13.82	552.89	

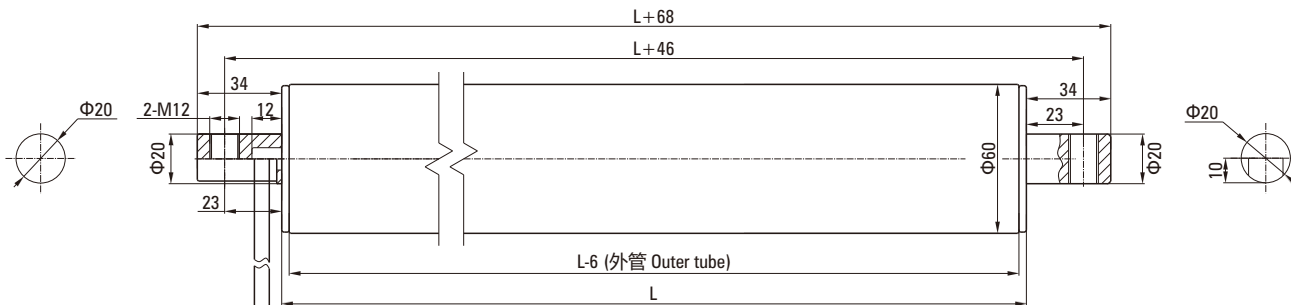
BL60电动滚筒 BL60 DRUM MOTOR



BL60尺寸图 BL60 Outlining Dimensions



螺纹吊装 Thread hoisting



引出线说明 Lead Out Outlet

黄 (粗) Yellow(thick)	绿 (粗) Green(thick)	蓝 (粗) Blue(thick)	黄/绿 Yellow/Green
U	V	W	PE

- 管径 Diameter: $\Phi 60$
- 壁厚 Wall thickness: t1.5
- 外管材质 Wall thickness: 304不锈钢 SUS304
- 碳钢 Carbon steel: 碳钢镀锌 Zinc plating

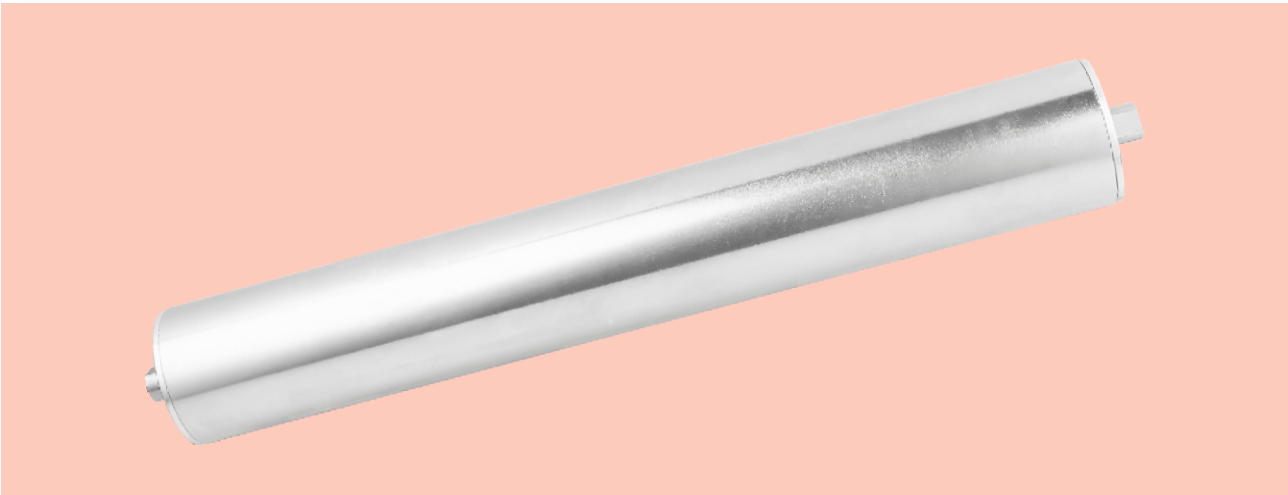
BL60机械参数 BL60 Mechanical Parameters

● 高压无刷 Drum Shell

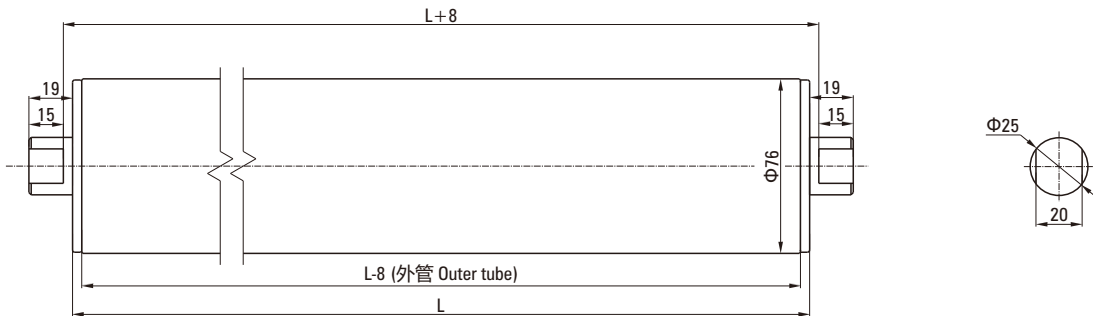
(电压 Voltage 220V)

额定功率P Rated Power P W	齿轮箱级数 Gear Box Series	减速比i Reduction Ratio i	最高线速度V Max Speed V m/min	额定转速n Rated Speed n RPM	额定扭矩T Rated Torque T Nm	牵引力F Traction F N	最短长度L Length L mm
90	1	6.75	84	444.00	1.74	58.02	300
	2	13.69	41	219.14	2.12	70.67	305
		19.16	30	156.58	2.96	98.67	
		26.83	21	111.82	4.15	138.33	
		34.96	16	85.81	5.41	180.33	
	3	50.65	11	59.23	7.06	235.33	310
		70.91	8	42.31	9.89	329.67	
		99.27	6	30.22	13.84	461.33	

BL76电动滚筒
BL76 DRUM MOTOR



BL76尺寸图 BL76 Outlining Dimensions



引出线说明 Lead Out Outlet

黄 (粗) Yellow(thick)	绿 (粗) Green(thick)	蓝 (粗) Blue(thick)	黄/绿 Yellow/Green
U	V	W	PE

- 管径 Diameter: Φ76
- 壁厚 Wall thickness: t2.5
- 外管材质 Wall thickness: 304不锈钢 SUS304
- 碳钢 Carbon steel: 碳钢镀锌 Zinc plating

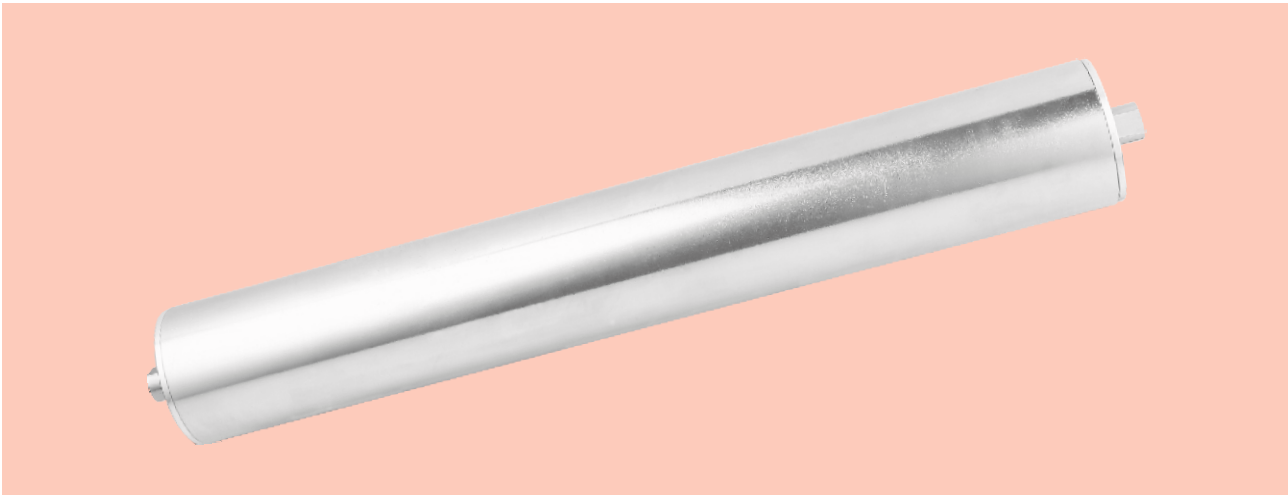
BL76机械参数 BL76 Mechanical Parameters

高压无刷 Drum Shell

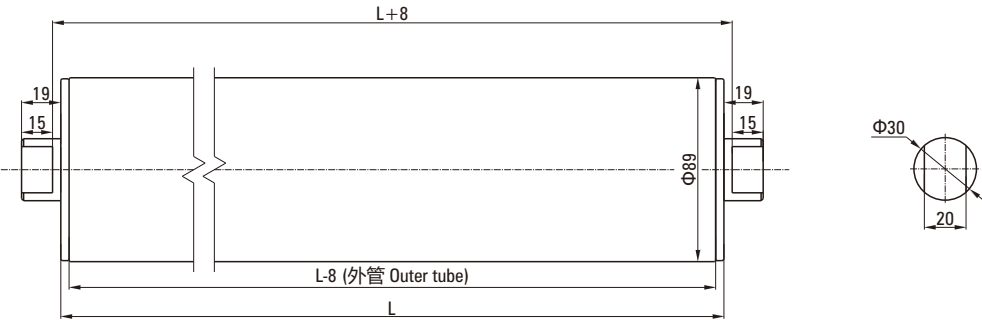
(电压 Voltage 220V)

额定功率P Rated Power P W	齿轮箱级数 Gear Box Series	减速比i Reduction Ratio i	最高线速度V Max Speed V m/min	额定转速n Rated Speed n RPM	额定扭矩T Rated Torque T Nm	牵引力F Traction F N	最短长度L Length L mm
180	1	6.75	106	444.00	3.48	91.6	370
	2	13.69	52	219.14	6.35	167.11	375
		19.16	37	156.58	8.89	233.95	
		26.83	27	111.82	12.45	327.63	
		34.96	20	85.81	16.23	427.11	
	3	50.65	14	59.23	21.19	557.63	380
		70.91	10	42.31	29.66	780.53	
		99.27	7	30.22	41.52	1092.63	

BL89电动滚筒
BL89 DRUM MOTOR



BL89尺寸图 BL89 Outlining Dimensions



引出线说明 Lead Out Outlet

黄 (粗) Yellow(thick)	绿 (粗) Green(thick)	蓝 (粗) Blue(thick)	黄/绿 Yellow/Green
U	V	W	PE

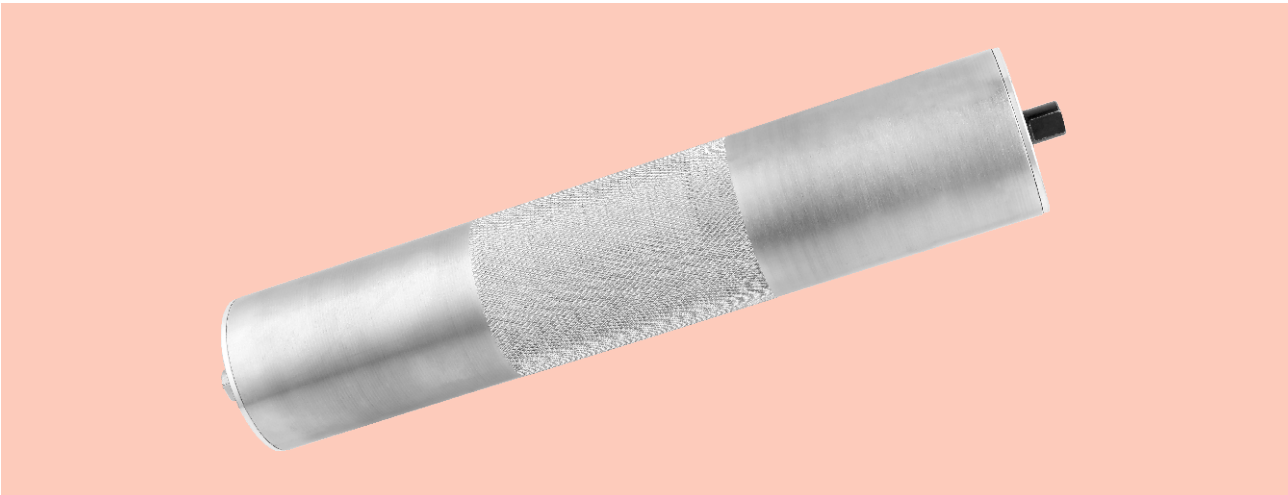
- 管径 Diameter: Φ89
- 壁厚 Wall thickness: t3
- 外管材质 Wall thickness: 304不锈钢 SUS304
- 碳钢 Carbon steel: 碳钢镀锌 Zinc plating

BL89机械参数 BL89 Mechanical Parameters

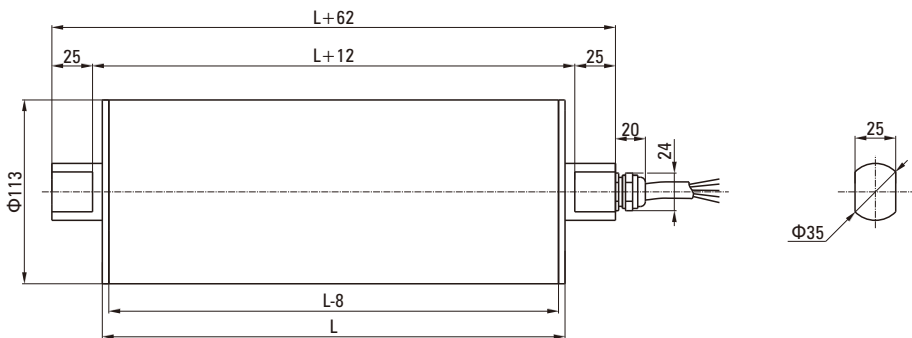
(电压 Voltage 220V)							
额定功率P Rated Power P W	齿轮箱级数 Gear Box Series	减速比i Reduction Ratio i	最高线速度V Max Speed V m/min	额定转速n Rated Speed n RPM	额定扭矩T Rated Torque T Nm	牵引力F Traction F N	最短长度L Length L mm
300	1	6.75	124	444.00	5.80	130.37	400
	2	13.69	61	219.14	10.59	237.98	405
		19.16	44	156.58	14.82	333.03	
		26.83	31	111.82	20.75	466.29	
		34.96	24	85.81	27.04	607.64	
	3	50.65	17	59.23	35.31	793.48	410
		70.91	12	42.31	49.43	1110.79	
		99.27	8	30.22	69.21	1555.28	

BL113电动滚筒

BL113 DRUM MOTOR



BL113尺寸图 BL113 Outlining Dimensions



引出线说明 Lead Out Outlet

红	蓝	白	黄/绿
Red	Blue	White	Yellow/Green
V	U	W	PE

- 管径 Diameter: Φ113
- 壁厚 Wall thickness: t4
- 外管材质 Wall thickness: 304不锈钢 SUS304
- 碳钢 Carbon steel: 碳钢镀锌 Zinc plating

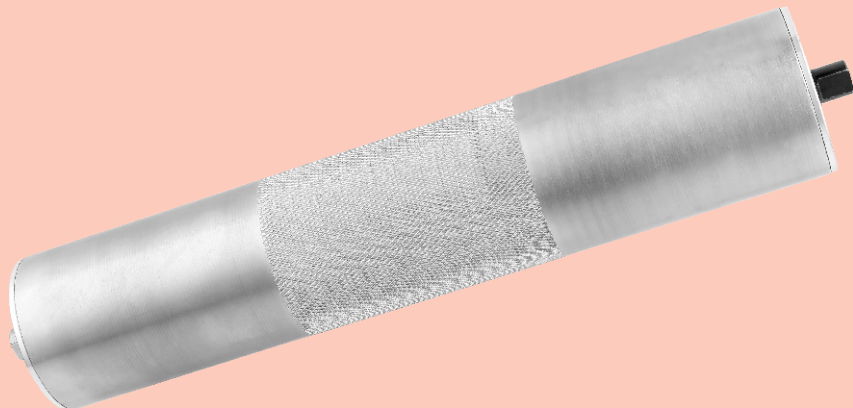
BL113机械参数 BL113 Mechanical Parameters

● 高压无刷 Drum Shell

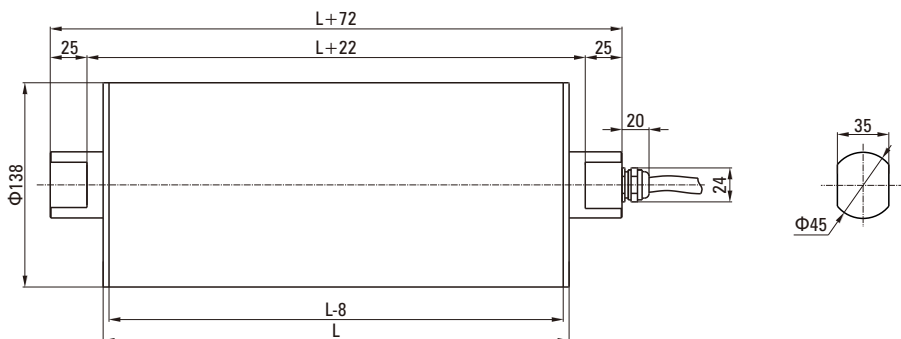
(电压 Voltage 220V)

额定功率P Rated Power P W	齿轮箱级数 Gear Box Series	减速比i Reduction Ratio i	最高线速度V Max Speed V m/min	额定转速n Rated Speed n RPM	额定扭矩T Rated Torque T Nm	牵引力F Traction F N	最短长度L Length L mm
370	2	13.53	78	221.7	12.9	227	450
		33.92	31	88.4	32.4	570	
		58.22	18	51.5	55.5	978	
	3	91.36	12	32.8	78.4	1388	450

BL138电动滚筒 BL138 DRUM MOTOR



BL138尺寸图 BL138 Outlining Dimensions



引出线说明 Lead Out Outlet

红 Red	蓝 Blue	白 White	黄/绿 Yellow/Green
V	U	W	PE

- 管径 Diameter: Φ138
- 壁厚 Wall thickness: t4
- 外管材质 Wall thickness: 304不锈钢 SUS304
- 碳钢 Carbon steel: 碳钢镀锌 Zinc plating

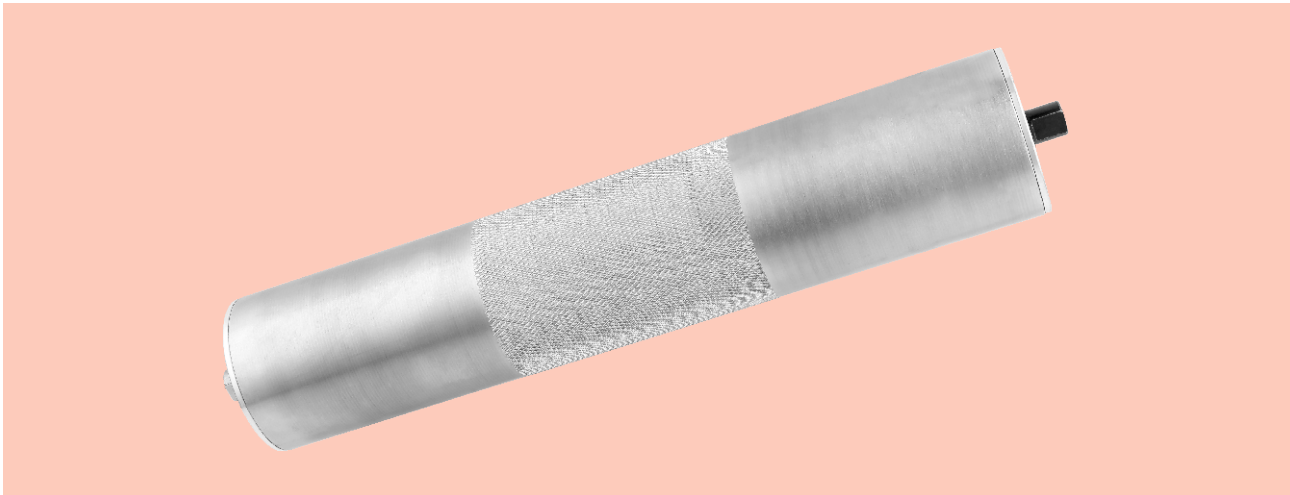
BL138机械参数 BL138 Mechanical Parameters

● 高压无刷 Drum Shell

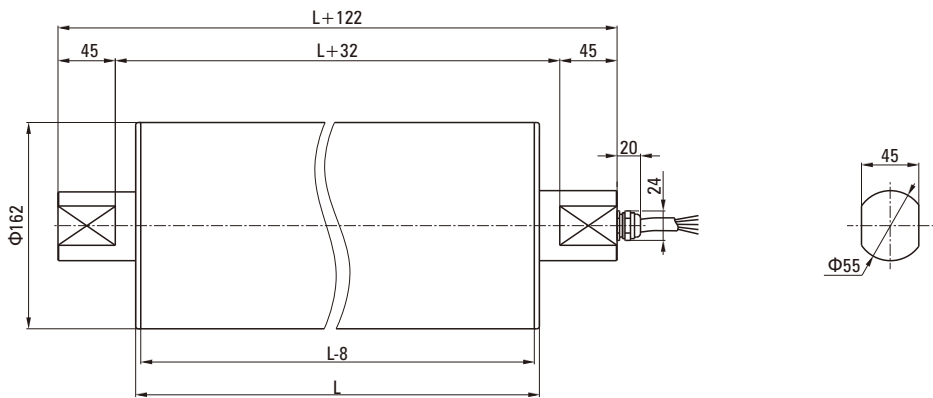
(电压 Voltage 220V)

额定功率P Rated Power P W	齿轮箱级数 Gear Box Series	减速比i Reduction Ratio i	最高线速度V Max Speed V m/min	额定转速n Rated Speed n RPM	额定扭矩T Rated Torque T Nm	牵引力F Traction F N	最短长度L Length L mm
550	2	13.53	96	221.7	19.2	278	550
		33.92	38	88.4	48.1	698	
		58.22	22	51.5	82.6	1197	
	3	91.36	14	32.8	116.6	1691	550

BL165电动滚筒
BL165 DRUM MOTOR



BL165尺寸图 BL165 Outlining Dimensions



引出线说明 Lead Out Outlet

红	蓝	白	黄/绿
Red	Blue	White	Yellow/Green
V	U	W	PE

- 管径 Diameter: Φ162
- 壁厚 Wall thickness: t5
- 外管材质 Wall thickness: 304不锈钢 SUS304
- 碳钢 Carbon steel: 碳钢镀锌 Zinc plating

BL165机械参数 BL165 Mechanical Parameters

● 高压无刷 Drum Shell

(电压 Voltage 220V/380V)

额定功率P Rated Power P W	齿轮箱级数 Gear Box Series	减速比i Reduction Ratio i	最高线速度V Max Speed V m/min	额定转速n Rated Speed n RPM	额定扭矩T Rated Torque T Nm	牵引力F Traction F N	最短长度L Length L mm
1100	2	13.53	114.88	221.7	38.4	465	570
		33.92	45.82	88.4	96.2	1166	
		58.22	26.70	51.5	165.1	2002	
	3	91.36	17.01	32.8	233.2	2827	570



PLANETARY GEAR BOX
ZDR/ZDGF(S) 行星减速器

ZD 中大力德



TRANSMISSION PLANETARY
传动行星减速电机

ZD 中大力德



DC BRUSHLESS GEAR MOTOR
微型永磁无刷齿轮减速电机

ZD 中大力德



PLANETARY GEAR BOX
ZB/ZE 行星减速器

ZD 中大力德



SMALL AC GEAR MOTOR
小型交流齿轮减速电机

ZD 中大力德



PLANETARY GEAR BOX
ZDE/ZDF/ZDWE/ZDWF/ZDS 行星减速器

ZD 中大力德

MOTOR ROLLER CATALOGUE

宁波中大力德智能传动股份有限公司
NINGBO ZHONGDA LEADER INTELLIGENT TRANSMISSION CO.,LTD.

地址：浙江省慈溪高新技术产业开发区新兴一路185号
Add: NO.185 1st Xinxing Road, New Industrial Zone, Cixi City, Zhejiang, China.

宁波中大创远精密传动设备有限公司
ZHONGDA CHUANGYUAN PRECISE TRANSMISSION EQUIPMENT CO.,LTD.

地址：浙江省宁波杭州湾新区金慈路159号
Add: No.159 Jinci Road, Hangzhou Bay District, Ningbo, Zhejiang, China.

国内贸易服务：

电话：0574-63537377
传真：0574-63534879
E-mail: china@zd-motor.com

国际贸易服务：

International trade department:
Tel: 86-574-63530538 Fax: 86-574-63534879
E-mail: manager@zd-motor.com
E-mail: trade@zd-motor.com

更多详情，敬请浏览：
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