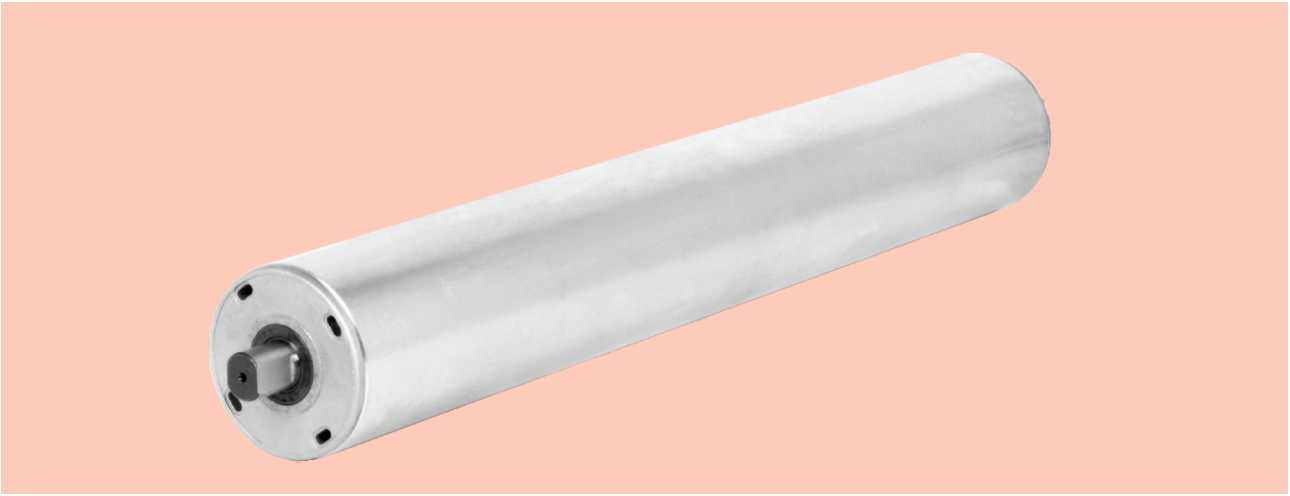
DM80电动滚筒
DM80 DRUM MOTOR



产品信息 Product Information

此款电动滚筒式在空间有限或操作不便的高扭矩应用的理想化选择，采用高合金钢精磨齿轮和行星传动结构为主体设计，具有性能可靠、免维护、适合较小的安装空间及超低噪声等诸多优点。适用于多个领域：

This type of drum motor can be installed in limited space and meet the torque requirement. Using alloy steel grinded gears and planetary transmission structure, it is reliable, free of maintenance and oil-renewing, space-saving. It can be use in many fields:

- 超市收银台 Supermarket cashier
- 安检机 Security machine
- 包装机械 Packaging machinery
- 食品加工业 Food processing industry
- 皮带输送线 Belt conveyor line
- 动态称重设备 Dynamic weighing apparatus

DM80电动滚筒特征 DM80 Characteristics Of Drum Motor

筒体 Drum Shell

- 标准筒体为低碳钢材质，成品表面镀锌，做环保标志 • 食品级筒体为304不锈钢
- Material of standard drum shell is mild steel, zinc plated, with ECO mark • Food garde shell is 304 stainless steel

齿轮传动 Gear Drive

- 高合金钢精磨齿轮或二次刮削，确保传动时低噪音 • 行星齿轮传动
- High alloy steel grinding or scraping gear two, to ensure low noise transmission • Planetary gear transmission

电机 Motor

- 频率在50Hz或60Hz时，适用于全球各种通用电压 • 电机绝缘等级F级 • 所有电机附加过热保护器 • 电缆出线式，电缆的标准长度1.2米
- When 50Hz or 60Hz is used, it can be applied to all kinds of universal voltage • Motor insulation class F • All motor additional overheat protector • Cable outlet type, cable length of 1.2M

密封等级 Seal Level

- 轴端采用骨架油封密封 • 电动滚筒的密封防护等级为IP54
- Shaft end seal with skeleton oil seal • The seal protection level of the drum motor is IP54

注油 Oiling

- 出厂前都已按标准加注油脂，使用后免维护，无需再加注
- Before leaving factory, all products is filled will oil in standard amount, so no need of maintenance or oil-renew

其他 Other

- 水平安装 • 可以加装电磁制动器，但筒体的最短长度会相应加长 • 带速及筒体长度可按客户要求制作 • 根据客户要求，可制作各种非标准电动滚筒
- Horizontal installation • Can be equipped with electromagnetic brake, but the shortest length of the cylinder will be extended accordingly • Belt speed and tube length can be produced according to customer requirements • According to customer requirements, can produce a variety of non - standard electric roller

DM80单相电机机械参数 DM80 Single Phase Motor Mechanical Parameters

P_N kW	np	gs	i	v m/s	n_A min^{-1}	M_A Nm	F_N N	$SL_{最小值}$ mm
0.09	2	1	3.6500	2.923	684.9	1.10	27	350
			5.3600	1.990	466.4	1.60	40	350
			6.5500	1.629	381.7	1.90	49	350
			8.6300	1.236	289.7	2.60	64	350
		2	13.530	0.788	184.8	3.60	91	380
			18.920	0.564	132.1	5.10	127	380
			24.650	0.433	101.4	6.60	165	380
			28.050	0.380	89.10	7.50	188	380
			33.920	0.315	73.70	9.10	227	380
			44.690	0.239	55.90	12.0	299	380
			58.220	0.183	42.90	15.6	390	380
		3	67.080	0.159	37.30	16.2	405	400
			81.110	0.132	30.80	19.6	489	400
			91.360	0.117	27.40	22.0	551	400
			102.88	0.104	24.30	24.8	621	400
			118.98	0.090	21.00	28.7	718	400
			127.74	0.080	19.60	30.8	771	400
			145.36	0.070	17.20	35.1	877	400
			165.64	0.060	15.10	40.0	999	400
			191.56	0.060	13.10	46.2	1156	400
			231.61	0.050	10.80	55.9	1397	400
0.12	2	1	3.6500	2.923	684.9	1.40	36	350
			5.3600	1.990	466.4	2.10	53	350
			6.5500	1.629	381.7	2.60	65	350
			8.6300	1.236	289.7	3.40	86	350
		2	13.530	0.788	184.8	4.80	121	380
			18.920	0.564	132.1	6.80	169	380
			24.650	0.433	101.4	8.80	220	380
			28.050	0.380	89.10	10.0	250	380
			33.920	0.315	73.70	12.1	303	380
			44.690	0.239	55.90	16.0	399	380
			58.220	0.183	42.90	20.8	520	380
		3	67.080	0.159	37.30	21.6	540	400
			81.110	0.132	30.80	26.1	652	400
			91.360	0.117	27.40	29.4	735	400
			102.88	0.104	24.30	33.1	828	400
			118.98	0.090	21.00	38.3	957	400
			127.74	0.084	19.60	41.1	1028	400
			145.36	0.073	17.20	46.8	1169	400
			165.64	0.064	15.10	53.3	1332	400
			191.56	0.056	13.10	61.6	1541	400
			231.61	0.046	10.80	74.5	1863	400

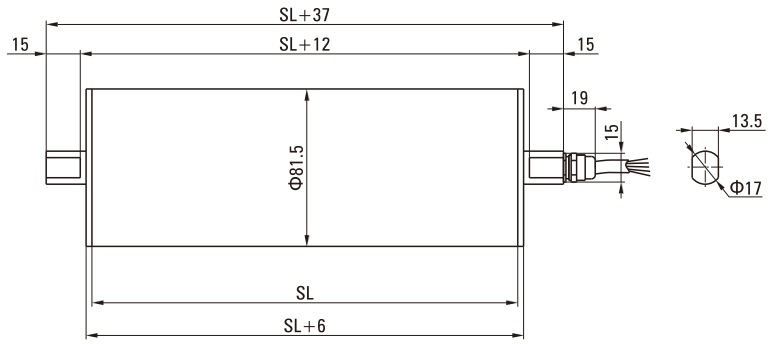
P_N: 额定功率 Rated power
i: 减速比 Reduction ratio of
M_A: 电动滚筒额定扭矩 Electric drum rated torque
np: 级数 Series
v: 外管额定速率 Outside the rated speed
F_N: 牵引力 Traction force
gs: 齿轮级数 Gear series
n_A: 外管额定转速 Outer tube rated speed
$SL_{最小值}$: 最短外管长度 The shortest outer tube length

DM80三相电机机械参数 DM80 Three Phase Motor Mechanical Parameters

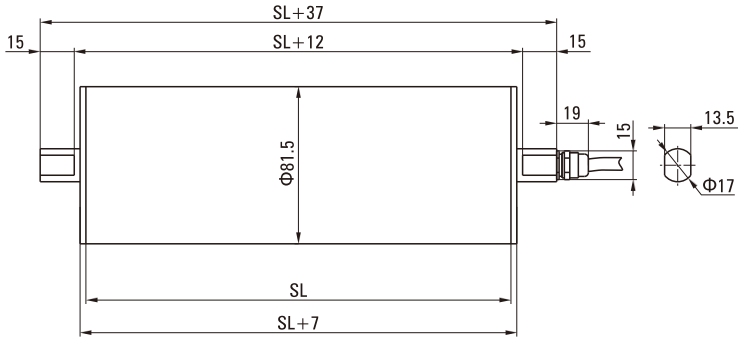
P_N kW	np	gs	i	v m/s	n_A min^{-1}	M_A Nm	F_N N	$SL_{最小值}$ mm
0.09	2	1	3.6500	3.040	712.3	1.10	27	350
			5.3600	2.070	485.1	1.60	40	350
			6.5500	1.694	396.9	1.90	49	350
			8.6300	1.286	301.3	2.60	64	350
		2	13.530	0.820	192.2	3.60	91	380
			18.920	0.586	137.4	5.10	127	380
			24.650	0.450	105.5	6.60	165	380
			28.050	0.396	92.70	7.50	188	380
			33.920	0.327	76.70	9.10	227	380
			44.690	0.248	58.20	12.0	299	380
			58.220	0.191	44.70	15.6	390	380
		3	67.080	0.165	38.80	16.2	405	400
			81.110	0.137	32.10	19.6	489	400
			91.360	0.121	28.50	22.0	551	400
			102.88	0.108	25.30	24.8	621	400
			118.98	0.093	21.90	28.7	718	400
			127.74	0.090	20.40	30.8	771	400
			145.36	0.080	17.90	35.1	877	400
			165.64	0.070	15.70	40.0	999	400
			191.56	0.060	13.60	46.2	1156	400
			231.61	0.050	11.20	55.9	1397	400
0.15	2	1	3.6500	3.040	712.3	1.80	45	350
			5.3600	2.070	485.1	2.70	66	350
			6.5500	1.694	396.9	3.20	81	350
			8.6300	1.286	301.3	4.30	107	350
		2	13.530	0.820	192.2	6.00	151	380
			18.920	0.586	137.4	8.40	211	380
			24.650	0.450	105.5	11.0	275	380
			28.050	0.396	92.70	12.5	313	380
			33.920	0.327	76.70	15.1	378	380
			44.690	0.248	58.20	19.9	499	380
			58.220	0.191	44.70	26.0	650	380
		3	67.080	0.165	38.80	27.0	674	400
			81.110	0.137	32.10	32.6	816	400
			91.360	0.121	28.50	36.7	919	400
			102.88	0.108	25.30	41.4	1034	400
			118.98	0.093	21.90	47.9	1196	400
			127.74	0.087	20.40	51.4	1284	400
			145.36	0.076	17.90	58.5	1462	400
			165.64	0.067	15.70	66.6	1666	400
			191.56	0.058	13.60	77.0	1926	400
			231.61	0.048	11.20	93.2	2329	400

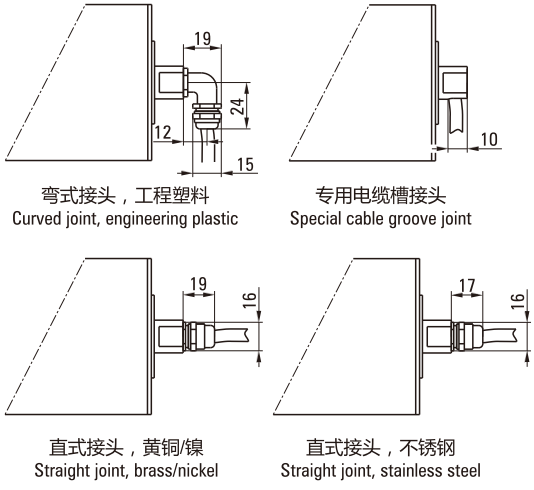
P_N: 额定功率 Rated power
i: 减速比 Reduction ratio of
M_A: 电动滚筒额定扭矩 Electric drum rated torque
np: 级数 Series
v: 外管额定速率 Outside the rated speed
F_N: 牵引力 Traction force
gs: 齿轮级数 Gear series
n_A: 外管额定转速 Outer tube rated speed
$SL_{最小值}$: 最短外管长度 The shortest outer tube length

DM80外形图 DM80 Outlining Dimensions



DM80安装图 DM80 Installation Diagram





弯式接头，工程塑料
Curved joint, engineering plastic

专用电缆槽接头
Special cable groove joint

直式接头，黄铜/镍
Straight joint, brass/nickel

直式接头，不锈钢
Straight joint, stainless steel

DM80选项表—电动滚筒 DM80 Option - Drum Motor

部件说明 Component Description	电动滚筒 Drum Motor
筒体 Drum shell	
碳钢直式筒体 Carton steel straight drum	1
不锈钢 (标准304) 直式筒体 Stainless steel (standard 304) straight drum	2
前后端盖 Front end cover	
铸铝端盖 Cast aluminum cover	1
镀镍铸铝端盖 Nickel plated aluminum cover	2
不锈钢 (标准304) 端盖 Stainless steel (standard 304) end cover	2
前后轴 Front and rare shaft	
碳钢轴 Carbon steel shaft	1
不锈钢轴 Stainless steel shaft	2
电机 Motor	
单相或三相异步电动机 Single phase or three phase asynchronous motor	1
电压1*220V/50Hz或3*380V/50Hz Voltage 1*220V/50Hz or 3*380V/50Hz	1
50Hz或60Hz条件下的全球通用电压 Global common voltage under 50Hz or 60Hz conditions	1
加装电机过热保护器 Thermal protector	1
常温环境用油脂 Oil for room temperature	2
电气连接 Electrical connection	
不锈钢弯头 Stainless steel elbow	3
直弯式出线 Straight curved line	1
PVC线缆 PVC cable	1
低烟无卤素线缆 Low smoke halogen free cable	2
其他选项 Other options	
电磁制止器 Electromagnetic stop device	2
可不同方位安装 Can be installed in different directions	3
连接变频器 Connected converter	2

备注Note:

1-标准装配选项
1-Standard option

2-非标准常用选项
2-Non-standard option

3-限制性选项，选择时应与制造商确认
3-Restrained option, contact manufacturer if needed