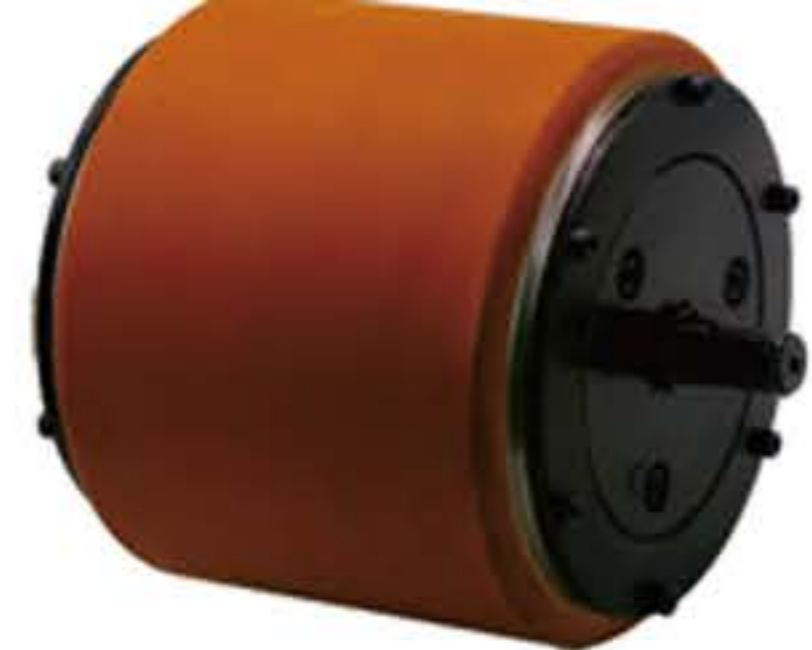


ZLTECH PRODUCT CATALOGUE



2021中菱科技
产品手册 V21

专注 | 创新 | 厚德 | 务实







机器人/AGV轮毂伺服系列 Robot/AGV Hub Servo Series



▶ 轮毂伺服电机驱动器命名规则 Servo Driver Part Number

示例 Example	ZL AC 80 15 - D				
	①	②	③	④	⑤
①	ZL: 中菱科技	ZL: Shenzhen ZhongLing Technology Co., Ltd.			
②	AC: 交流	AC: Alternating Current			
③	80: 最高输入电压 (80:80V)	80: Max Input Voltage (80: 80V)			
④	15: 最高输出电流 (15:15A)	15: Max Output Current (15:15A)			
⑤	缺省: 单通道 D: 双通道	Default: Single-Channel D: Dual-Channel			





▶ 轮毂伺服电机驱动器选型 Servo Driver Selection

型号 Model	ZLAC8015	ZLAC8015D	ZLAC8030	ZLAC8030L
实拍图 photo-realistic				
工作电压 (V) Working Voltage	24V-48VDC	24V-48VDC	24V-80VDC	24V-48VDC
输出电流 (A) Output Current	均值 15A 峰值 30A Rated 15A, Max 30A	均值 15A 峰值 30A Rated 15A, Max 30A	均值 30A 峰值 90A Rated 30A, Max 90A	均值 30A 峰值 60A Rated 30A, Max 60A
控制方式 Control Method	CANOpen, RS485	Dual Channel CANOpen, RS485	脉冲、模拟量、 RS232, CANOpen	CANOpen, RS485
外形尺寸 (mm) Dimension	118x76x34	150x97x31	167x100x34.8	149.6x97x30.8
适配轮毂伺服电机 Matching Hub Servo Motor	500W以下轮毂伺服电机 Hub Servo Motor with Power less than 500W	500W以下轮毂伺服电机 Hub Servo Motor with Power less than 500W	大功率款轮毂伺服电机 High Power Hub Servo Motor	大功率款轮毂伺服电机 High Power Hub Servo Motor





▶ 轮毂伺服电机命名规则 Hub Servo Motor Part Number

示例 Example	ZL LG 65 ASM 250 单/双轴 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>						
	①	②	③	④	⑤	⑥	⑦
①	ZL: 中菱科技						ZL: Shenzhen ZhongLing Technology Co., Ltd.
②	LG: 轮毂伺服电机						LG: Hub Servo Motor
③	65: 电机尺寸 (35:3.5寸, 65:6.5寸, 10:10寸)						65: Wheel Size, 6.5 inch
④	ASM: 低压交流伺服						ASM: Low Voltage Servo
⑤	250: 功率 (100-100W, 200-200W, 250-250W)						250: Power (100-100W, 200-200W, 250-250W)
⑥	单/双轴: 是单轴/双轴						Single/Double Shaft
⑦	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> : 特殊定制型号					<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> : 特殊定制型号	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> : Special Customized Model

▶ 轮毂伺服电机选型 Hub Servo Motor Selection

型号 Model	ZLLG40ASM100(单轴) Single shaft	ZLLG40ASM100(双轴) Double shaft	ZLLG45ASM200(双轴) Double shaft	ZLLG45ASM200(双轴花纹) Double shaft
实拍图 photo-realistic				
外径尺寸 (mm) Wheel Diameter (mm)	107	107	123	128
轮胎 Tire	橡胶 Rubber	橡胶 Rubber	橡胶无花纹 No-Pattern Rubber	橡胶花纹 Pattern Rubber
额定电压 (VDC) Rated Voltage (VDC)	24	24	24	24
额定功率 (W) Rated Power (W)	100	100	200	200
额定扭矩 (N.m) Rated Torque (N.m)	3	3	6	6
峰值扭矩 (N.m) Peak Torque (N.m)	6	6	12	12
额定电流 (A) Rated Current (A)	8	8	15	15
峰值电流 (A) Peak Current (A)	16	16	30	30
额定转速 (RPM) Rated Speed (RPM)	280	280	300	300
最大转速 (RPM) Max Speed (RPM)	400	400	400	400
极对数 (对) Poles No (Pair)	10	10	10	10
编码器 Encoder	1024/2500/4096/10384 Lines, or Absolute Value Encoder	1024 Lines	1024 Lines	1024 Lines
防护等级 Protection Level	IP54	IP54	IP54	IP65
绝缘电压 (V) Insulation Voltage (V)	DC500V, >20MΩ	DC500V, >20MΩ	DC500V, >20MΩ	DC500V, >20MΩ
环境温度 (°C) Ambient Temperature (°C)	-20~+40	-20~+40	-20~+40	-20~+40
环境湿度 (%) Ambient Humidity (%)	20~80	20~80	20~80	20~80
重量 (KG) Weight (KG)	1.45	1.5	2.9	3.0
负载 (KG/2台电机) Payload (KG/2Motors)	50	50	150	150
适配驱动器 Matching Driver	ZLAC8015, ZLAC8015D	ZLAC8015, ZLAC8015D	ZLAC8015, ZLAC8015D	ZLAC8015, ZLAC8015D

支持各种规格及要求定制! (Support customization of various specifications and requirements!)

型号 Model	ZLLG50ASM200(单轴) Single shaft	ZLLG50ASM200(双轴) Double shaft	ZLLG55ASM150(双轴) Double shaft	ZLLG55ASM150(双轴) Double shaft
实拍图 photo-realistic				
外径尺寸(mm) Wheel Diameter(mm)	130	130	139	139
轮胎 Tire	橡胶 Rubber	橡胶 Rubber	橡胶 Rubber	橡胶 Rubber
额定电压 (VDC) Rated Voltage (VDC)	24	24	24	24
额定功率 (W) Rated Power (W)	150	150	150	150
额定扭矩 (N.m) Rated Torque (N.m)	3.2	3.2	3.2	3.2
峰值扭矩 (N.m) Peak Torque (N.m)	6.4	6.4	6.4	6.4
额定电流 (A) Rated Current (A)	8	8	8	8
峰值电流(A) Peak Current (A)	16	16	16	16
额定转速 (RPM) Rated Speed (RPM)	400	400	400	400
最大转速 (RPM) Max Speed (RPM)	500	500	500	500
极对数 (对) Poles No (Pair)	10	10	10	10
编码器 Encoder	1024/2500/4096/10384 Lines, or Absolute Value Encoder	1024 Lines	1024/2500/4096/10384 Lines, or Absolute Value Encoder	1024 Lines
防护等级 Protection Level	IP54	IP54	IP54	IP54
绝缘电压(V) Insulation Voltage(V)	DC500V, >20MΩ	DC500V, >20MΩ	DC500V, >20MΩ	DC500V, >20MΩ
环境温度 (°C) Ambient Temperature (°C)	-20~+40	-20~+40	-20~+40	-20~+40
环境湿度 (%) Ambient Humidity (%)	20~80	20~80	20~80	20~80
重量(KG) Weight(KG)	1.95	2.0	2.0	2.05
负载(KG/2台电机) Payload(KG/2Motors)	60	60	60	60
适配驱动器 Matching Driver	ZLAC8015、ZLAC8015D	ZLAC8015、ZLAC8015D	ZLAC8015、ZLAC8015D	ZLAC8015、ZLAC8015D

支持各种规格及要求定制! (Support customization of various specifications and requirements!)

型号 Model	ZLLG65ASM250(单轴) Single shaft	ZLLG65ASM250-L(单轴) Single shaft	ZLLG65ASM250-L(双轴) Double shaft	ZLLG65ASM250-4096(单轴) Single shaft
实拍图 photo-realistic				
外径尺寸(mm) Wheel Diameter(mm)	170	170	170	173(橡胶轮胎) 171.5(无痕橡胶) 170(聚氨酯PU)
轮胎 Tire	橡胶 Rubber	橡胶 Rubber	橡胶 Rubber	橡胶/聚氨酯(PU) Rubber/PU
额定电压 (VDC) Rated Voltage (VDC)	36/48	24	24	24-48
额定功率 (W) Rated Power (W)	250	150	150	350
额定扭矩 (N.m) Rated Torque (N.m)	5	6.5	6.5	8
峰值扭矩 (N.m) Peak Torque (N.m)	10	13	13	16
额定电流 (A) Rated Current (A)	17	4	4	8
峰值电流(A) Peak Current (A)	34	8	8	16
额定转速 (RPM) Rated Speed (RPM)	400	200	200	200
最大转速 (RPM) Max Speed (RPM)	600	260	260	300
极对数 (对) Poles No (Pair)	15	15	15	15
编码器 Encoder	1024/2500/4096/10384 Lines, or Absolute Value Encoder	1024/2500/4096/10384 Lines, or Absolute Value Encoder	1024 Lines	1024/2500/4096/10384 Lines, or Absolute Value Encoder
防护等级 Protection Level	IP54	IP54	IP54	IP65
绝缘电压(V) Insulation Voltage(V)	DC500V, >20MΩ	DC500V, >20MΩ	DC500V, >20MΩ	DC500V, >20MΩ
环境温度 (°C) Ambient Temperature (°C)	-20~+40	-20~+40	-20~+40	-20~+40
环境湿度 (%) Ambient Humidity (%)	20~80	20~80	20~80	20~80
重量(KG) Weight(KG)	2.95	2.95	3.0	3.75
负载(KG/2台电机) Payload(KG/2Motors)	100	120	120	150
适配驱动器 Matching Driver	ZLAC8015、ZLAC8015D	ZLAC8015、ZLAC8015D	ZLAC8015、ZLAC8015D	ZLAC8015、ZLAC8015D

支持各种规格及要求定制! (Support customization of various specifications and requirements!)

型号 Model	ZLLG65ASM500(单轴) Single shaft	ZLLG65ASM500(双轴) Double shaft	ZLLG80ASM250(单轴) Single shaft	ZLLG80ASM250-L(单轴) Single shaft
实拍图 photo-realistic				
外径尺寸(mm) Wheel Diameter(mm)	165	165	200	200
轮胎 Tire	聚氨酯(PU) PU	聚氨酯(PU) PU	橡胶 Rubber	橡胶 Rubber
额定电压 (VDC) Rated Voltage (VDC)	48	48	36/48	24
额定功率 (W) Rated Power (W)	500	500	250	150
额定扭矩 (N.m) Rated Torque (N.m)	10	10	5	6.5
峰值扭矩 (N.m) Peak Torque (N.m)	30	30	10	13
额定电流 (A) Rated Current (A)	17	17	17	4
峰值电流(A) Peak Current (A)	34	34	34	8
额定转速 (RPM) Rated Speed (RPM)	200	200	400	200
最大转速 (RPM) Max Speed (RPM)	300	300	600	260
极对数 (对) Poles No (Pair)	15	15	15	15
编码器 Encoder	1024/2500/4096/10384 Lines, or Absolute Value Encoder	1024 Lines	1024/2500/4096/10384 Lines, or Absolute Value Encoder	1024/2500/4096/10384 Lines, or Absolute Value Encoder
防护等级 Protection Level	IP65	IP65	IP54	IP54
绝缘电压(V) Insulation Voltage(V)	DC500V, >20MΩ	DC500V, >20MΩ	DC500V, >20MΩ	DC500V, >20MΩ
环境温度 (°C) Ambient Temperature (°C)	-20~+40	-20~+40	-20~+40	-20~+40
环境湿度 (%) Ambient Humidity (%)	20~80	20~80	20~80	20~80
重量(KG) Weight(KG)	4.85	4.85	3.4	3.4
负载(KG/2台电机) Payload(KG/2Motors)	200	200	100	120
适配驱动器 Matching Driver	ZLAC8015、ZLAC8030L	ZLAC8015、ZLAC8030L	ZLAC8015、ZLAC8015D	ZLAC8015、ZLAC8015D





支持各种规格及要求定制! (Support customization of various specifications and requirements!)

型号 Model	ZLLG80ASM250-L(双轴) Double shaft	ZLLG80ASM250-4096(单轴) Single shaft	ZLLG80ASM800(单轴) Single shaft	ZLLG80ASM800(双轴) Double shaft
实拍图 photo-realistic				
外径尺寸(mm) Wheel Diameter(mm)	200	200(橡胶轮胎) 206(聚氨酯PU)	200	200
轮胎 Tire	橡胶 Rubber	蜂窝孔橡胶/聚氨酯(PU) Rubber with hole/PU	聚氨酯(PU) PU	聚氨酯(PU) PU
额定电压 (VDC) Rated Voltage (VDC)	24	24-48	48	48
额定功率 (W) Rated Power (W)	150	350	800	800
额定扭矩 (N.m) Rated Torque (N.m)	6.5	8	40	40
峰值扭矩 (N.m) Peak Torque (N.m)	13	16	80	80
额定电流 (A) Rated Current (A)	4	8	20	20
峰值电流(A) Peak Current (A)	8	16	40	40
额定转速 (RPM) Rated Speed (RPM)	200	200	200	200
最大转速 (RPM) Max Speed (RPM)	260	300	300	300
极对数 (对) Poles No (Pair)	15	15	20	20
编码器 Encoder	1024 Lines	1024/2500/4096/10384 Lines, or Absolute Value Encoder	1024/2500/4096/10384 Lines, or Absolute Value Encoder	1024 Lines
防护等级 Protection Level	IP54	IP65	IP65	IP65
绝缘电压(V) Insulation Voltage(V)	DC500V, >20MΩ	DC500V, >20MΩ	DC500V, >20MΩ	DC500V, >20MΩ
环境温度 (°C) Ambient Temperature (°C)	-20~+40	-20~+40	-20~+40	-20~+40
环境湿度 (%) Ambient Humidity (%)	20~80	20~80	20~80	20~80
重量(KG) Weight(KG)	3.45	4.25	8.5	8.5
负载(KG/2台电机) Payload(KG/2Motors)	120	150	300	300
适配驱动器 Matching Driver	ZLAC8015、ZLAC8015D	ZLAC8015、ZLAC8015D	ZLAC8030、ZLAC8030L	ZLAC8030、ZLAC8030L

支持各种规格及要求定制! (Support customization of various specifications and requirements!)

型号 Model	ZLLG10ASM800(单轴) Single shaft	ZLLG10ASM800(双轴) Double shaft	ZLLG10ASM800-R(单轴) Single shaft	ZLLG10ASM800-R(双轴) Double shaft
实拍图 photo-realistic				
外径尺寸(mm) Wheel Diameter(mm)	266	266	253	253
轮胎 Tire	蜂窝孔橡胶 Rubber with hole	蜂窝孔橡胶 Rubber with hole	橡胶/聚氨酯(PU) Rubber/PU	橡胶/聚氨酯(PU) Rubber/PU
额定电压 (VDC) Rated Voltage (VDC)	48	48	48	48
额定功率 (W) Rated Power (W)	800	800	800	800
额定扭矩 (N.m) Rated Torque (N.m)	40	40	40	40
峰值扭矩 (N.m) Peak Torque (N.m)	80	80	80	80
额定电流 (A) Rated Current (A)	20	20	20	20
峰值电流(A) Peak Current (A)	40	40	40	40
额定转速 (RPM) Rated Speed (RPM)	200	200	200	200
最大转速 (RPM) Max Speed (RPM)	300	300	300	300
极对数 (对) Poles No (Pair)	20	20	20	20
编码器 Encoder	1024/2500/4096/10384 Lines, or Absolute Value Encoder	1024 Lines	1024/2500/4096/10384 Lines, or Absolute Value Encoder	1024 Lines
防护等级 Protection Level	IP65	IP65	IP65	IP65
绝缘电压(V) Insulation Voltage(V)	DC500V, >20MΩ	DC500V, >20MΩ	DC500V, >20MΩ	DC500V, >20MΩ
环境温度 (°C) Ambient Temperature (°C)	-20~+40	-20~+40	-20~+40	-20~+40
环境湿度 (%) Ambient Humidity (%)	20~80	20~80	20~80	20~80
重量(KG) Weight(KG)	9.5	9.5	9	9
负载(KG/2台电机) Payload(KG/2Motors)	300	300	300	300
适配驱动器 Matching Driver	ZLAC8030, ZLAC8030L	ZLAC8030, ZLAC8030L	ZLAC8030, ZLAC8030L	ZLAC8030, ZLAC8030L

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型号 Model	ZLLG13ASM800(单轴) Single shaft	ZLLG14ASM800(单轴) Single shaft	ZLLG15ASM800(单轴) Single shaft	ZLLG16ASM800(单轴) Single shaft
实拍图 photo-realistic				
外径尺寸(mm) Wheel Diameter(mm)	337.4	358	388	398
轮胎 Tire	充气橡胶 Pneumatic Rubber	充气橡胶 Pneumatic Rubber	充气橡胶 Pneumatic Rubber	充气橡胶 Pneumatic Rubber
额定电压 (VDC) Rated Voltage (VDC)	48	48	48	48
额定功率 (W) Rated Power (W)	800	800	800	800
额定扭矩 (N.m) Rated Torque (N.m)	15	15	15	15
峰值扭矩 (N.m) Peak Torque (N.m)	45	45	45	45
额定电流 (A) Rated Current (A)	10	10	10	10
峰值电流(A) Peak Current (A)	30	30	30	30
额定转速 (RPM) Rated Speed (RPM)	200	200	200	200
最大转速 (RPM) Max Speed (RPM)	300	300	300	300
极对数 (对) Poles No (Pair)	20	20	20	20
编码器 Encoder	1024/2500/4096/10384 Lines, or Absolute Value Encoder	1024/2500/4096/10384 Lines, or Absolute Value Encoder	1024/2500/4096/10384 Lines, or Absolute Value Encoder	1024/2500/4096/10384 Lines, or Absolute Value Encoder
防护等级 Protection Level	IP54	IP54	IP54	IP54
绝缘电压(V) Insulation Voltage(V)	DC500V, >20MΩ	DC500V, >20MΩ	DC500V, >20MΩ	DC500V, >20MΩ
环境温度 (°C) Ambient Temperature (°C)	-20~+40	-20~+40	-20~+40	-20~+40
环境湿度 (%) Ambient Humidity (%)	20~80	20~80	20~80	20~80
重量(KG) Weight(KG)	9.55	9.6	9.7	10.15
负载(KG/2台电机) Payload(KG/2Motors)	200	200	200	200
适配驱动器 Matching Driver	ZLAC8030, ZLAC8030L	ZLAC8030, ZLAC8030L	ZLAC8030, ZLAC8030L	ZLAC8030, ZLAC8030L