



MD020020

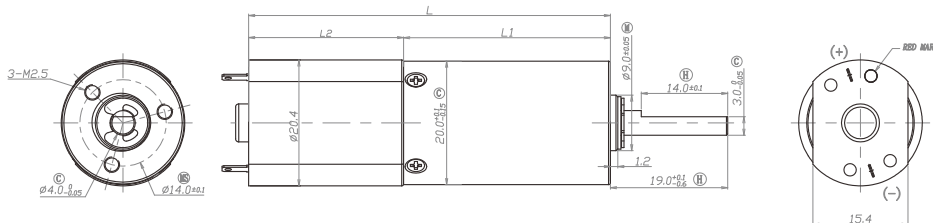
齿轮箱规格 Gearbox Specifications

外径	Outer diameter	20mm	轴承	Bearing	含油轴承 oil-impregnated bearings	滚动轴承 Rolling bearing
材质	Material	五金 Metal	轴向窜动	Axial Play	≤0.3mm	≤0.1mm
旋转方向	Direction of rotation	cw & ccw	输出轴径向负载	Radial Load at Output Shaft	≤50N	≤75N
齿轮箱回程差	Backlash	≤2° 可定制 Customizable	工作温度	Operating temperature range	-30 ~ +100°C	

齿轮级数 Gearbox Stages

		1	2	3	4
减速比	Reduction ratio	4 / 6	16 / 24 / 36	64 / 96 / 144 / 216	256 / 384 / 576 / 864 / 1296
最大容许扭力 (gf.cm)	Max rated torque of gearbox (gf.cm)	10000	10000	10000	10000
瞬间容许力矩 (gf.cm)	Max. intermittent torque (gf.cm)	25000	25000	25000	25000
齿轮箱效率 (%)	Gearbox efficiency (%)	90	81	72	65
长度 (mm)	Gearbox length L1 (mm)	17.6	22.9	28.2	33.5

技术插图 | Technical Drawing



马达规格参数 Motor Specifications

马达(可选择) Motor type (optional)	直流有刷电机、直流无刷电机、空心杯电机、步进电机 Brushed DC motor, Brushless DC motor, Coreless motor, Stepper motor	输入速度 Input speed	≤15000rpm
电压(可选择) Voltage (optional)	3-24V	负载电流 Load current	300mA max

参考数据(马达定义值: 12V 7200rpm) 下表根据马达定义值测试, 数据只作为参考值。Parameter (values at 12V & 7200rpm) The following data is for reference only.

型号 Model	Rated Speed 额定转速	Max Speed 最高转速	Max Rated Torque 齿轮箱额定容许力矩	Max. Intermittent Torque 齿轮箱瞬间容许力矩	Reduction Ratio 减速比	Gearbox Length 减速箱长 L1	Overall Length 总长 L
	rpm	rpm	gf.cm	gf.cm		mm	mm
MD020020-4	1875	7500	10000	25000	4	17.6	42.7
MD020020-6	1250	5000	10000	25000	6		
MD020020-16	469	1875	10000	25000	16	22.9	48
MD020020-24	313	1250	10000	25000	24		
MD020020-36	208	833	10000	25000	36		
MD020020-64	117	469	10000	25000	64	28.2	53.3
MD020020-96	78	313	10000	25000	96		
MD020020-144	52	208	10000	25000	144		
MD020020-216	35	139	10000	25000	216		
MD020020-256	29	117	10000	25000	256	33.5	58.6
MD020020-384	20	78	10000	25000	384		
MD020020-576	13	52	10000	25000	576		
MD020020-864	9	35	10000	25000	864		
MD020020-1296	6	23	10000	25000	1296		

注: 可根据客户要求定制 Specifications can be customized per customer requirements.