

WGV輪轂專用行星減速機

WGV planetary reducer for wheel hub



萬鑫精工(湖南)股份有限公司

WANSHSIN SEIKOU (HUNAN) CO., LTD

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畫冊版本: 20240806



官微二維碼



官網二維碼



万鑫精工,是集研发、生产、销售、服务于一体的专业化减速机、减速电机、变频器制造商及智能化全套方案提供商,产品覆盖轻工、重工,已广泛应用于新能源、机器人、自动化、智能仓储、物流、食品等行业领域。万鑫精工已逐步成为行业内各大龙头企业的长期合作伙伴。

WANSHSIN SEIKOU (HUNAN) CO., LTD. (hereafter referred to as "WANSHSIN") is a professional manufacturer of gear-box, gear motor, inverter and a provider of full intelligent automation solutions integrating R&D, production, sales and service. Its products cover light industry and heavy industry and have been widely used in new energy, robotics, automation, smart warehousing, logistics, food and other industries. Wanshsin has gradually become a long-term partner of major leading companies in the industry.

面积/Area	雇员/Employees	研发基地/R&D Offices	设备/Equipment	认证/Certificates	专利/Patents
120,000m²	800+	日本\深圳\长沙	300+	CE\SGS\ISO9001	120+

WGV轮毂专用行星减速机产品优势

Product advantages of WGV planetary reducer for wheel hub

直接安装

使用安装接口,可以把减速机直接安装在车辆上,不需要另外的适配器

Direct Installation

the reducer can be installed directly on the vehicle without additional adapters.

减少安装空间

减速机几乎完全被配轮包围住,因此,车辆内部所需的安装空间更小

Reduce installation space

The reducer is almost entirely surrounded by the drive wheels, thus minimizing the internal space required for the vehicle

承载能力高

两个大尺寸的深沟球轴承可以承受较高的径向力,同时确保较低的运行阻力,效率更高

High load-bearing capacity

two large-sized deep groove ball bearings can withstand high radial forces while ensuring low operating resistance and higher efficiency.

定位精度高

采用高精度斜齿设计,背隙、噪音更小,齿轮过载能力更强,确保AGV工作定位更精准,可靠性、适应性更好

High positioning accuracy

The product features a high-precision helical gear design, which reduces backlash and noise, enhances gear overload capacity, and ensures more accurate positioning of the AGV, along with improved reliability and adaptability

不受电机限制

搭配各种不同的电机适配器,几乎可以组装在任何型号的电机上,甚至可以直接安装在电机上

Adapted to Various Motors

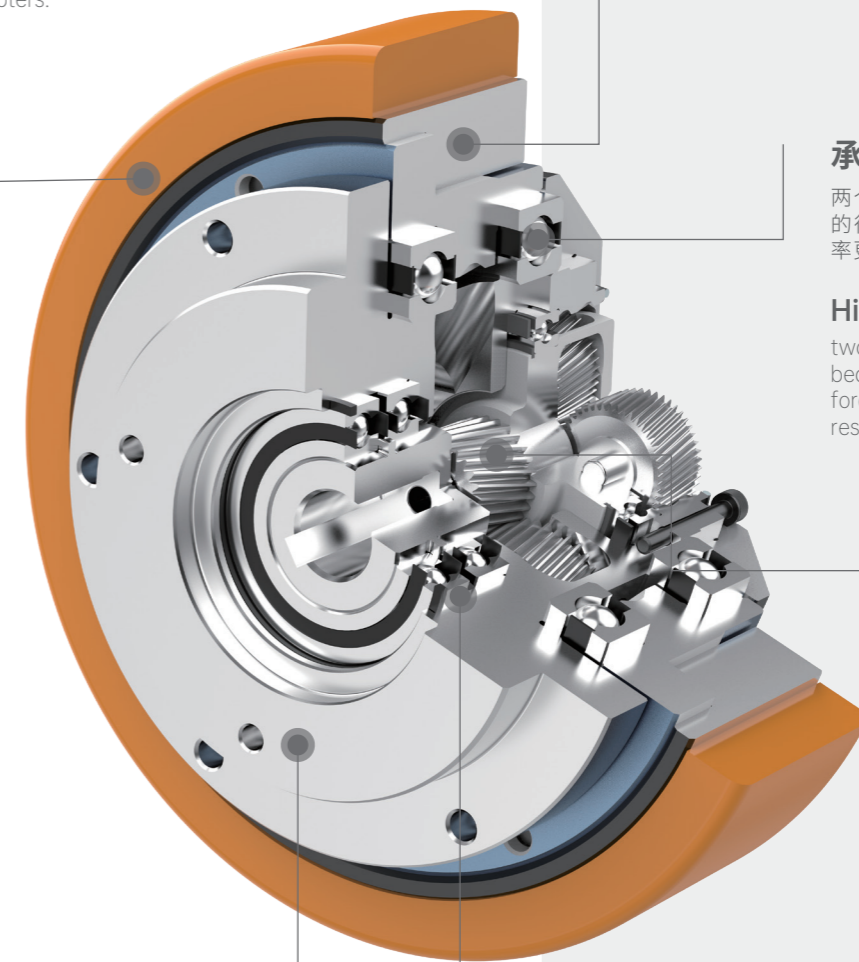
with a variety of different motor adapters, it can be assembled on almost any type of motor, or even directly installed on motor.

高效率,可信赖

效率高,永久润滑,因此不需要维护,在连续运行的情况下也极其可靠

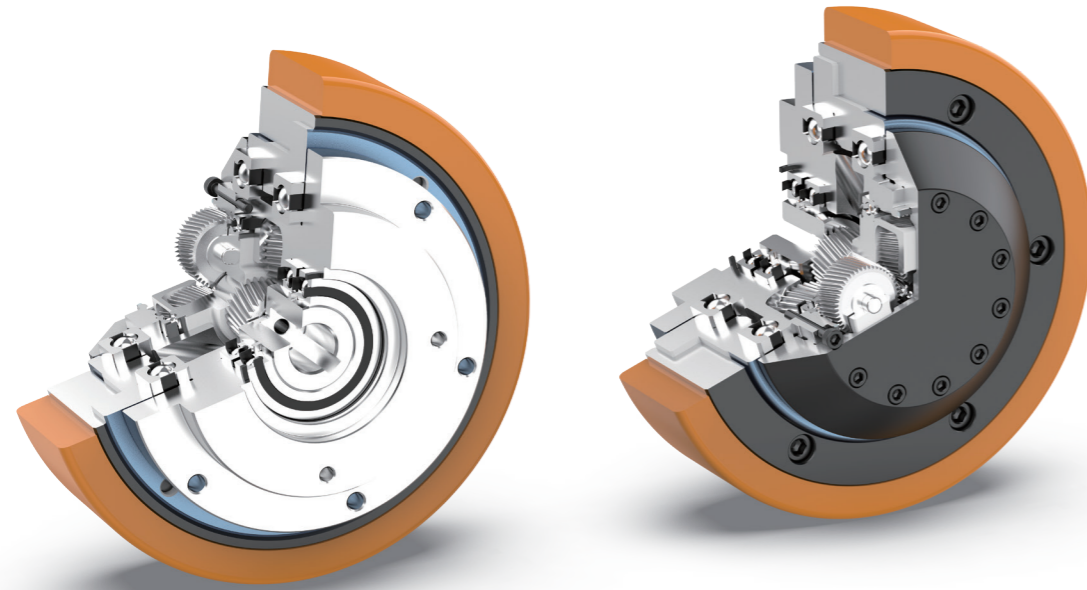
Highly Efficient & Reliable

highly efficient, permanently lubricated, maintenance-free and reliable on continuous operation.



WGV轮毂专用行星减速机技术参数

Technical parameters of WGV planetary reducer for wheel hub



规格 Specification	单位 Unit	级数 Ratio	减速比 Ratio	WGV100	WGV115	WGV135	WGV160	
转动惯量 Rotational inertia J1	kg.cm ²	1	2	0.16	0.61	3.25	12.3	
			3	0.14	0.48	2.74	7.5	
			4	0.13	0.47	2.71	7.4	
			5	0.13	0.45	2.62	7.2	
			6	0.13	0.45	2.62	7.2	
			7	0.13	0.4	2.5	6.8	
			9	0.13	0.4	2.5	6.8	
			2	14	0.1	0.2	1.6	2
				16	0.08	0.18	1.3	1.7
		18*		0.09	0.19	1.4	1.8	
		20		0.08	0.18	1.3	1.7	
		21		0.09	0.19	1.4	1.8	
		24		0.08	0.18	1.3	1.7	
		28		0.09	0.19	1.4	1.8	
		30		0.08	0.18	1.3	1.7	
		32		0.08	0.18	1.3	1.7	
		40		0.08	0.18	1.3	1.7	

规格 Specification	单位 Unit	级数 Ratio	减速比 Ratio	WGV100	WGV115	WGV135	WGV160		
额定输出扭矩 ^(b) Rated Output Torque T2N ^(b)	Nm	1	2	75	90	135	250		
			3	90	115	200	400		
			4	95	115	200	520		
			5	90	110	200	480		
			6	90	110	200	430		
			7	75	85	150	400		
			9	75	85	150	340		
			2	14	75	100	150	250	
				16	75	100	150	220	
		18*		90	115	240	450		
		20		70	70	150	180		
		21		90	115	240	420		
		24		90	115	240	330		
		28		95	125	260	520		
		30		90	105	240	270		
		32		95	125	260	440		
		40		95	125	260	360		
		额定输入转速 ^(a) Rated Input Speed n1N ^(a)	rpm	1	2~9	3000	3000	3000	3000
				2	14~40	4000	4000	4000	4000
最大输入转速 ^(a) Max Input Speed n1B ^(a)	rpm	1	2~9	5000	5000	5000	5000		
		2	14~40	6000	6000	6000	6000		
标准背隙 Standard Backlash P2	arcmin	1	2~9	≤5	≤5	≤5	≤5		
		2	14~40	≤8	≤8	≤8	≤8		
重量 Weight	kg	1	2~9	4.5	7.5	11	15		
		2	14~40	5.5	9	13.5	18		
效率 Efficient	%	1	2~9	≥95					
		2	14~40	≥93					
容许径向力 ^(b) Allowable Radial Force F2R ^(b)	N	1-2	2~40	4000	8000	10000	13000		
急停扭矩 Emergency stop Torque T2NOT	Nm	1-2	2~40	2倍额定输出力矩 (允许1000次) 2 Times T2N					
使用寿命 Service Life	h	1-2	2~40	20000					
使用温度 Operating temperature	°C	1-2	2~40	-20°C ~ 90°C					
防护等级 Protection class	/	1-2	2~40	IP64					
润滑 Lubrication	/	/	/	全合成润滑脂 Synthetic Lubricating Grease					
噪音 ^(c) Noise ^(c)	dB(A)	/	/	≤58	≤60	≤63	≤65		
安装方向 Mounting position	/	/	/	任意方向 In any direction					

a. 环境温度超过20°C时, 建议适当降低转速使用

b. 输出转速超过100rpm时, 建议适当降低载荷和输出扭矩使用

c. 噪音在无负载, 输入转速3000rpm时1m处测得

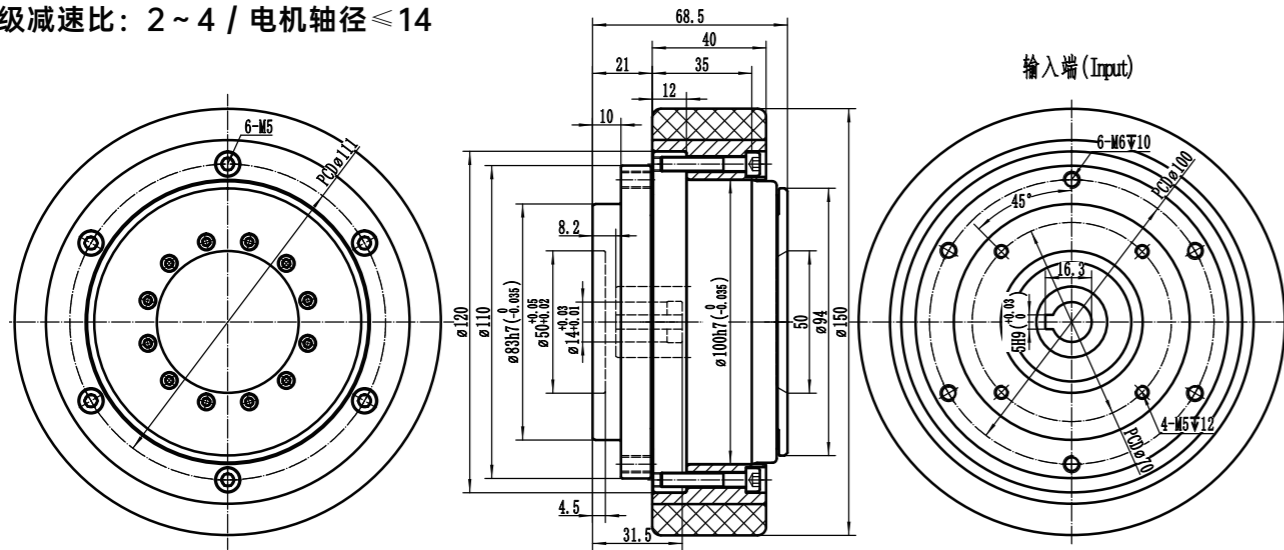
◆ *18比不推荐选用

◆ 驱动轮输入转向, 与输出转向相反

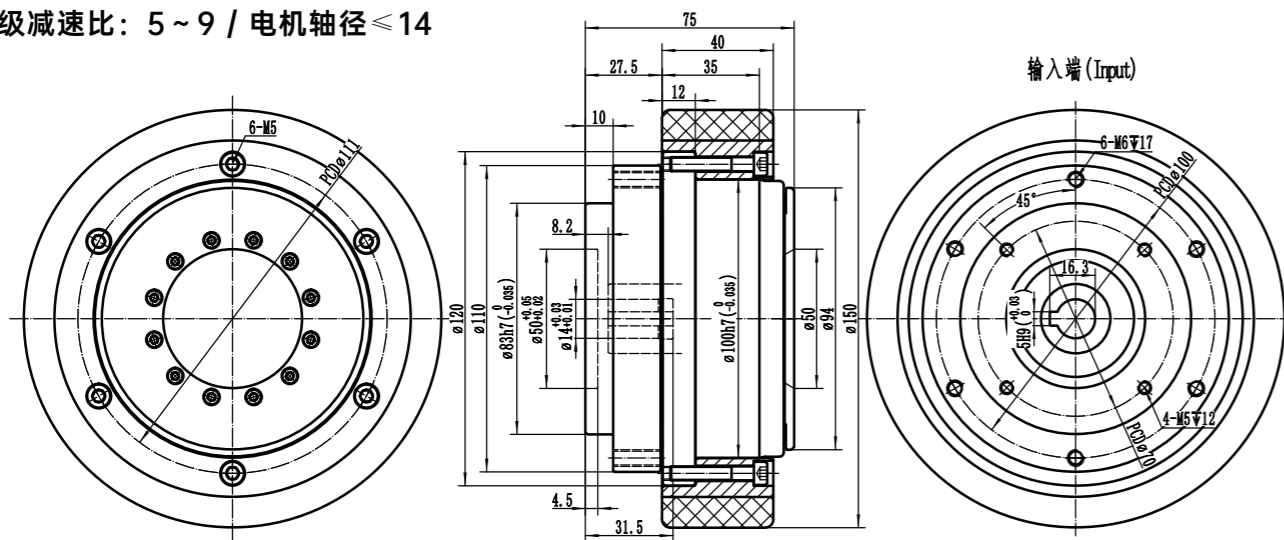
◆ 轮子材料: 黄橙色聚氨酯, 硬度A90±2, 有其他要求, 请联系工厂

WGV100外形图

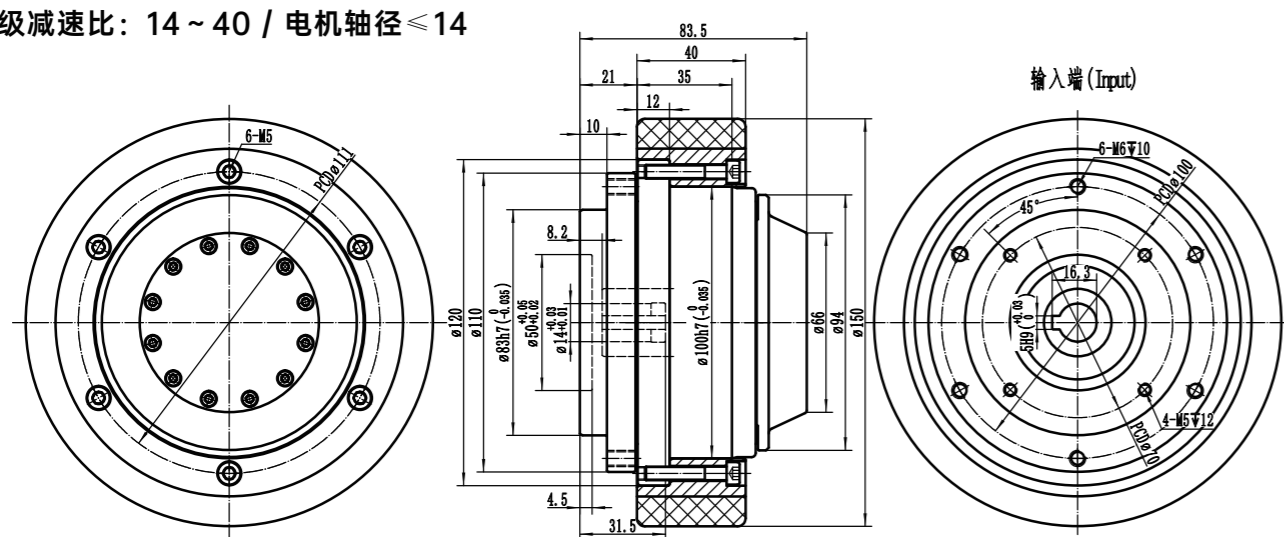
单级减速比: 2~4 / 电机轴径 ≤ 14



单级减速比: 5~9 / 电机轴径 ≤ 14

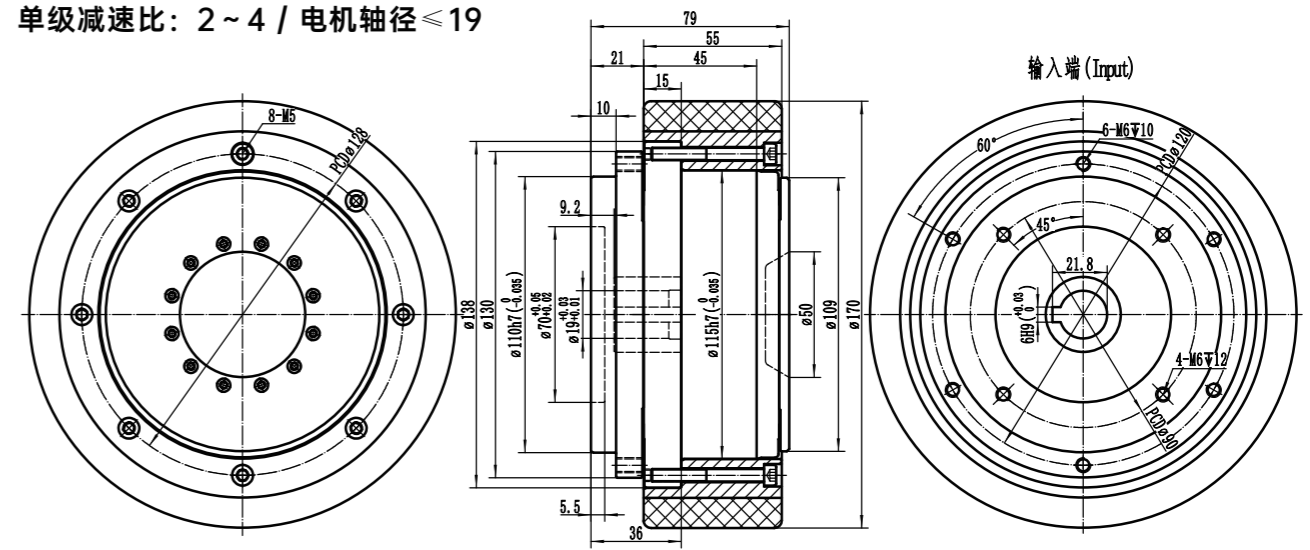


双级减速比: 14~40 / 电机轴径 ≤ 14

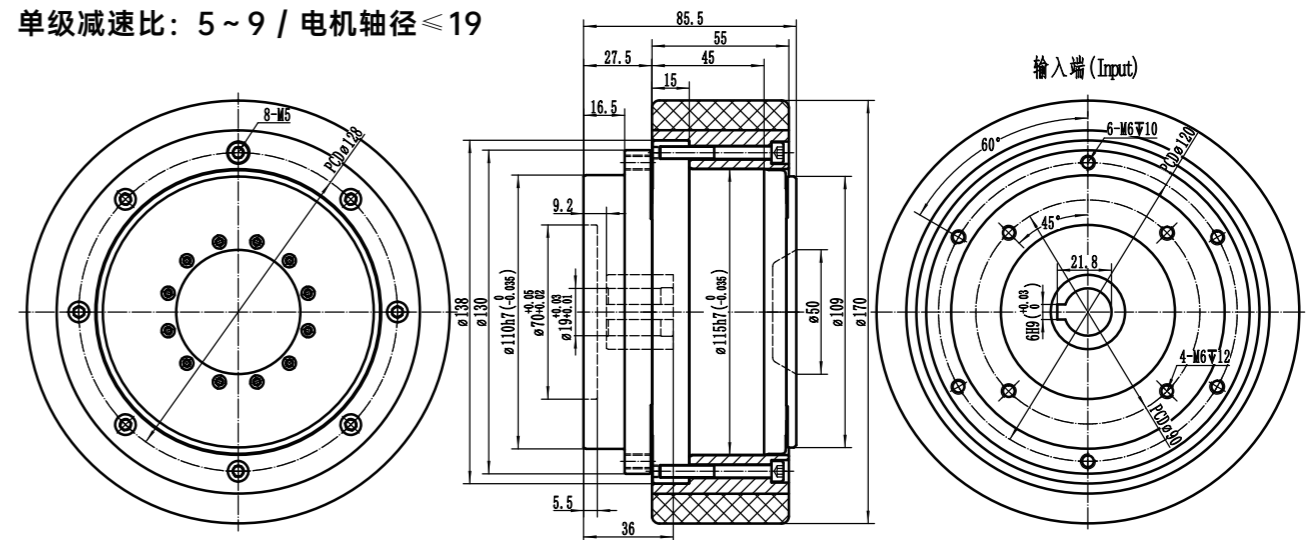


WGV115外形图

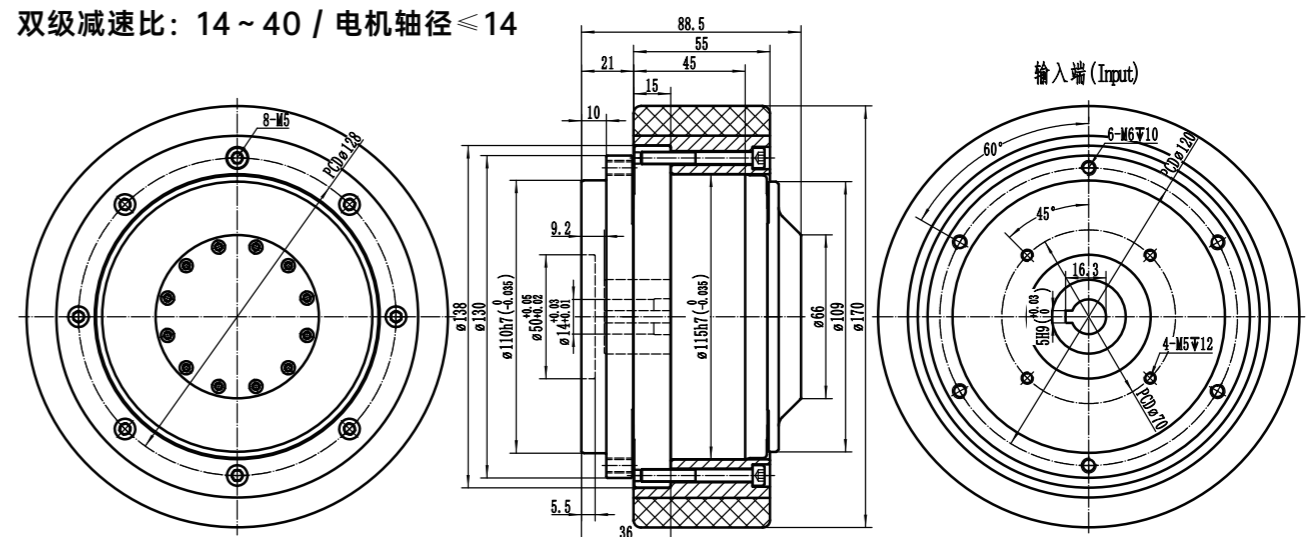
单级减速比: 2~4 / 电机轴径 ≤ 19



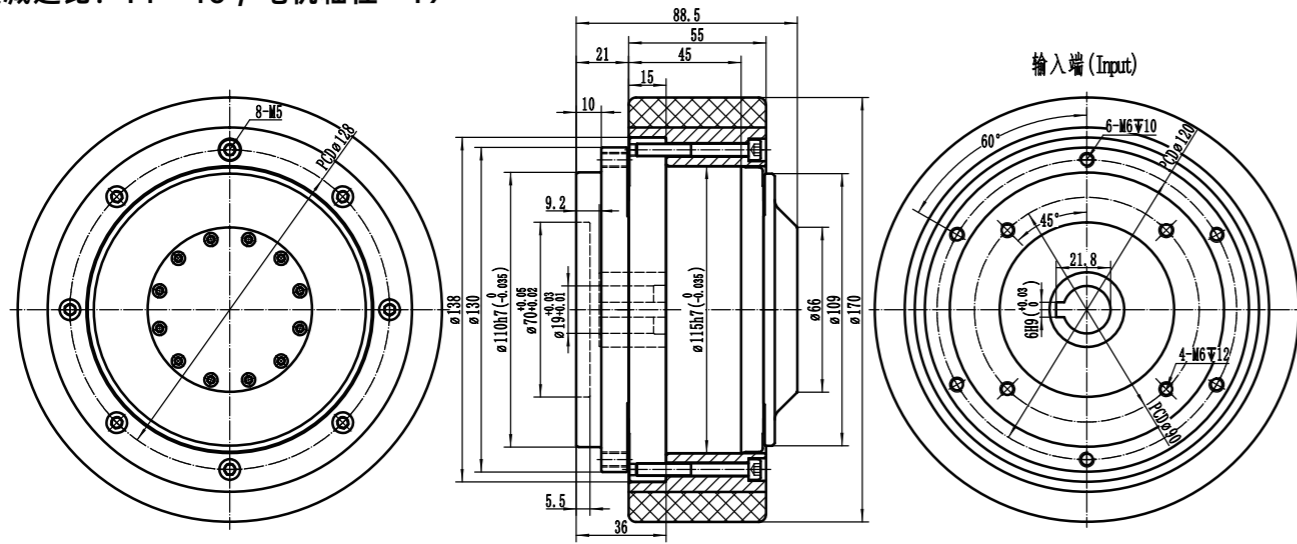
单级减速比: 5~9 / 电机轴径 ≤ 19



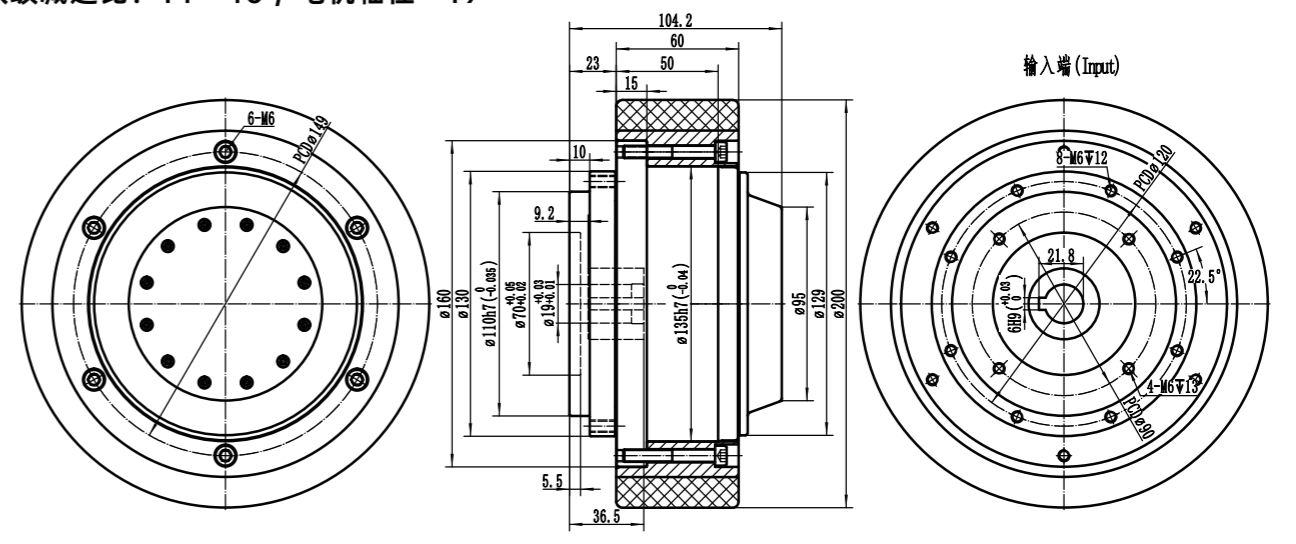
双级减速比: 14~40 / 电机轴径 ≤ 14



双级减速比: 14 ~ 40 / 电机轴径 ≤ 19



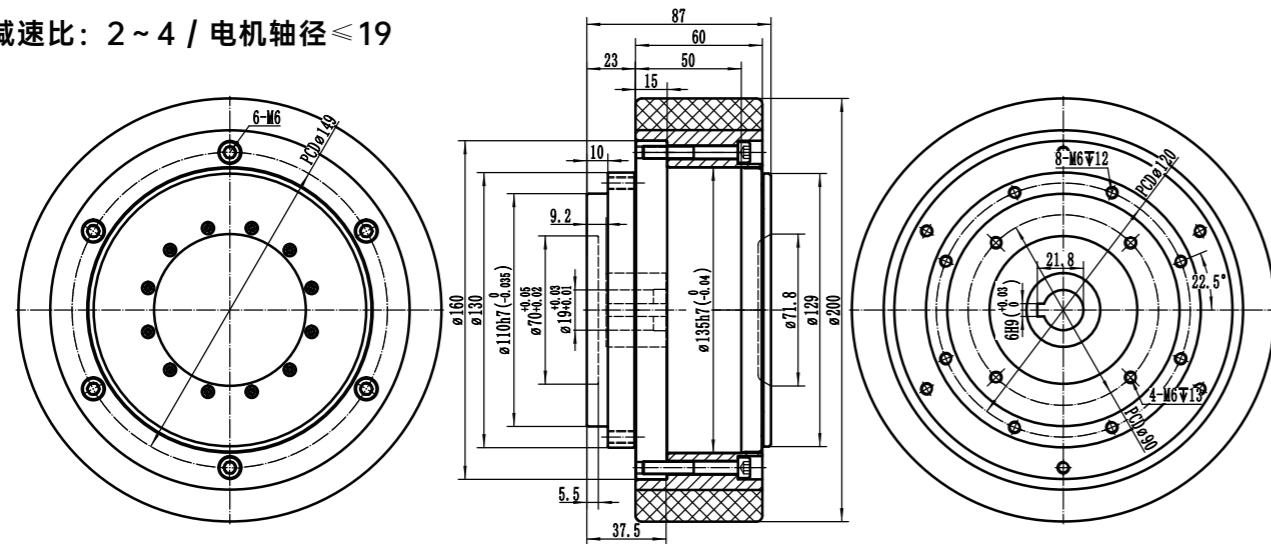
双级减速比: 14 ~ 40 / 电机轴径 ≤ 19



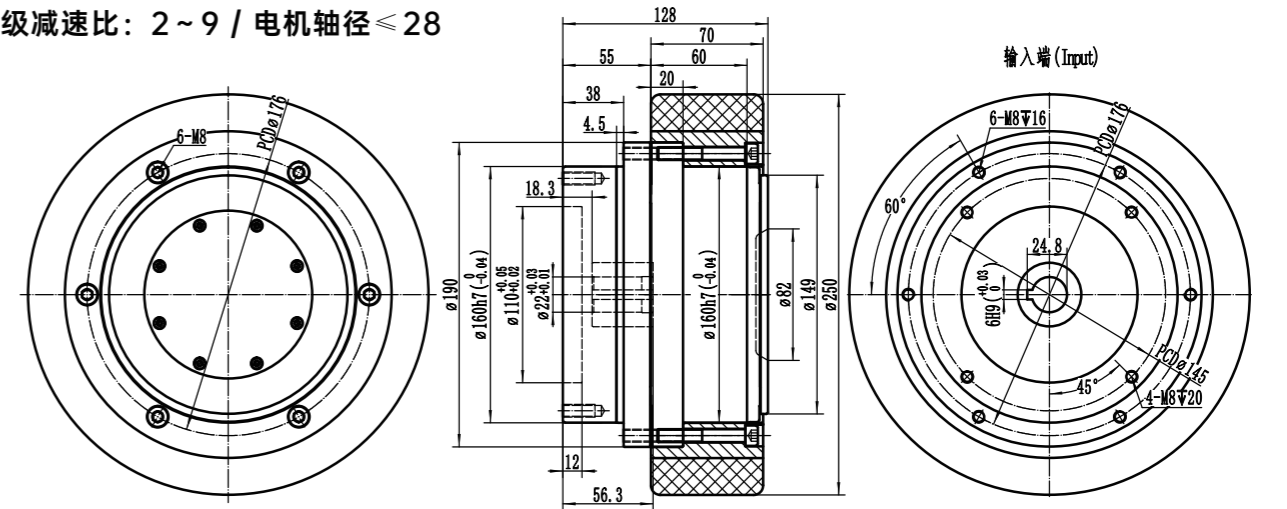
WGV135外形图

WGV160外形图

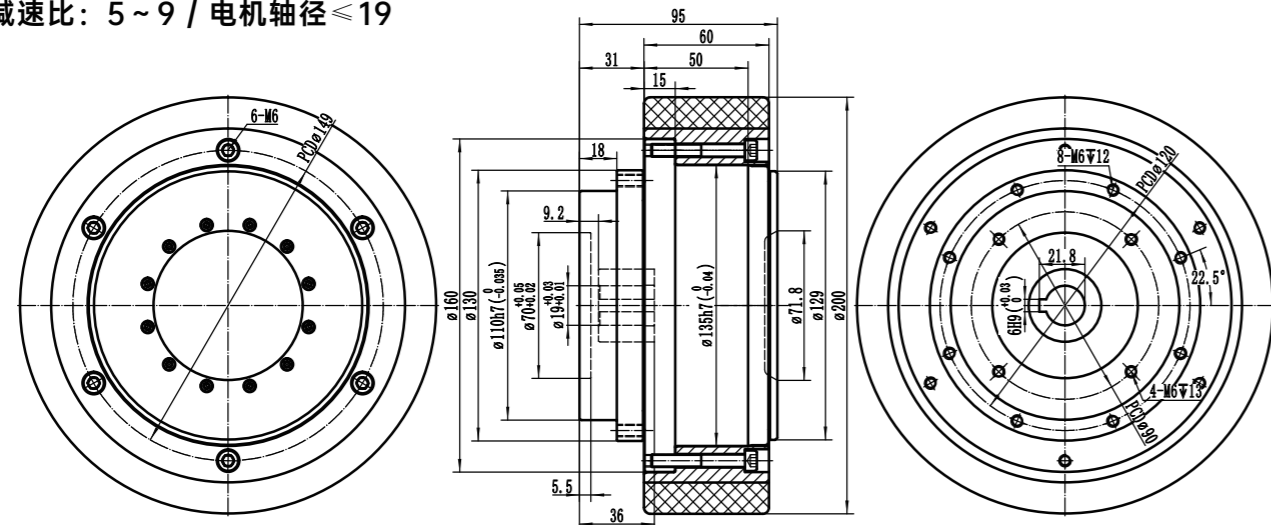
单级减速比: 2 ~ 4 / 电机轴径 ≤ 19



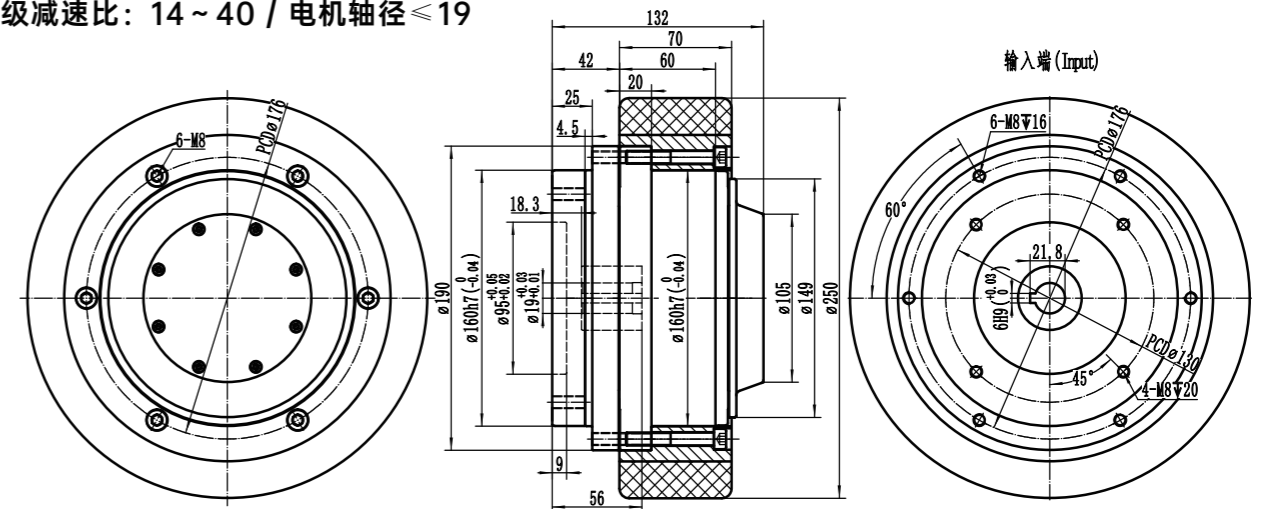
单级减速比: 2 ~ 9 / 电机轴径 ≤ 28

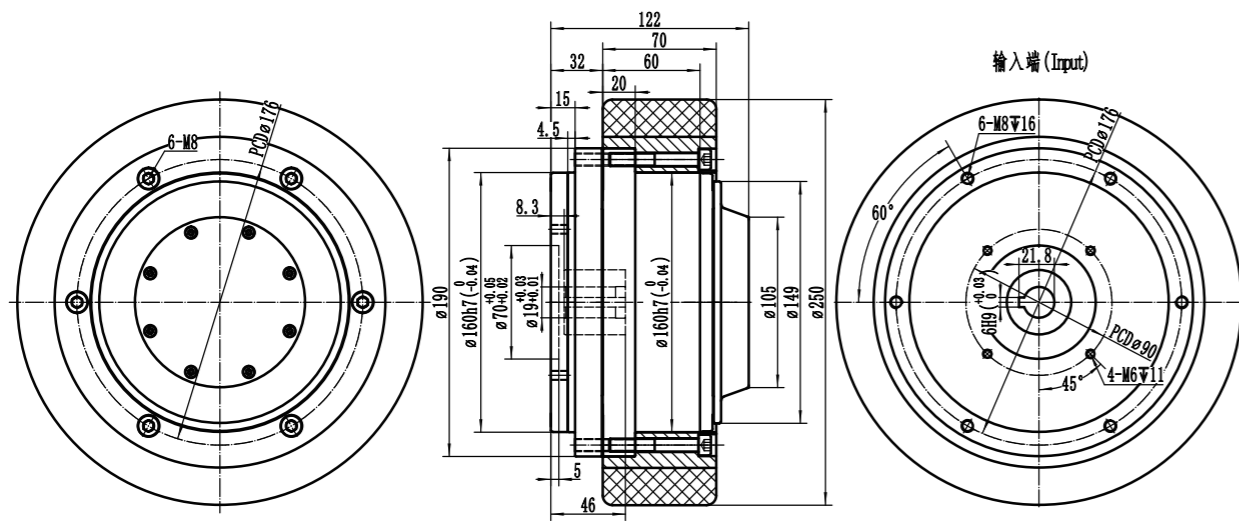


单级减速比: 5 ~ 9 / 电机轴径 ≤ 19

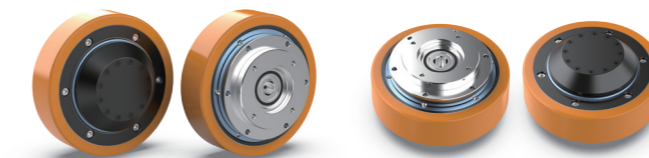
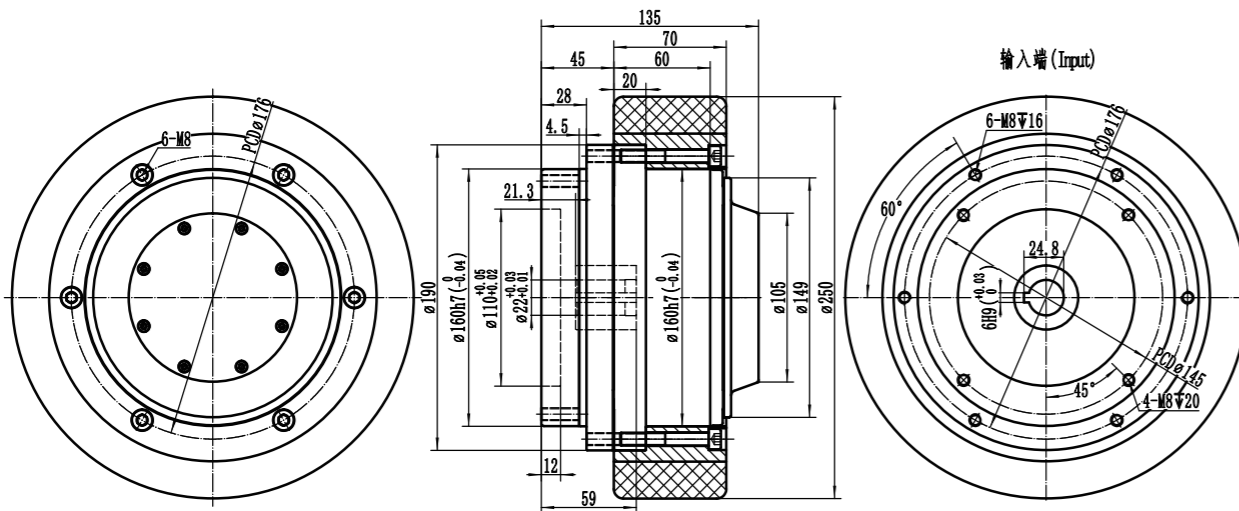


双级减速比: 14 ~ 40 / 电机轴径 ≤ 19





双级减速比: 14 ~ 40 / 电机轴径 ≤ 28



- 广泛应用于AGV、RGV行走系统
- 低噪音大扭矩，径向承载能力强
- 结构紧凑,安装方便
- 可定制化生产

- Widely used in heavy-duty AGV, crawler type walking system
- Low noise, high torque, strong radial bearing capacity
- Compact structure, easy to install
- Customizable production