



精密行星 减速机



中国总代理

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德国梅尔(MEYLE)工业集团公司
Meyer Industrie-Electronic GmbH-MEYLE

Driving the world,
Leading the future

以行星传动驱驰世界·以精密制造引领未来



我们的使命

推动精密传动领域进步,助力中国制造;
让人类享受更美好生活,实现更多梦想。

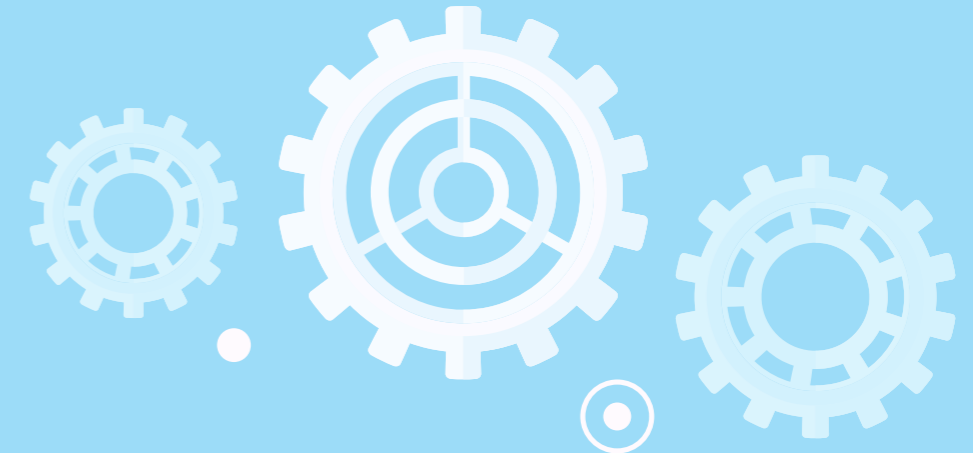
Our mission

Committed to the progress in the field of precision transmission,
make human have more freedom in the production and living,
Realize more dream!

ABOUT US 关于我们

本公司专业从事高科技的各种减速机马达及螺旋齿轮减速机,行星减速机的设计、研发、生产。近年来肩负着顾客们对产品质量与价格的追求,不断地在提高减速机的高性能、实现效率的最大化和提供广泛的技术资源等方面做着不懈的努力。

公司奉行[质量第一、顾客满意]及[勤、诚、信]的经营理念,不断吸纳专业人才,使得公司始终拥有一批掌握业界高端技术的科技人才。公司以积极务实的作风借鉴各种先进的管理经验,不断实现自我完善,建立起良好的企业文化。



The company specializes in the design, development and production of various high-tech reducer motors and spiral gear reducers, worm and worm gear reducers, planetary reducers. In recent years, with the customers' pursuit of product quality and price, we have made unremitting efforts to improve the performance of reducer, maximize efficiency and provide a wide range of technical resources. The company pursues the business philosophy of "quality first, customer satisfaction" and "diligence, sincerity, trust", constantly absorbing professional talents, so that the company has always had a number of high-end technology talents in the industry. With a positive and pragmatic style, the company draws lessons from various advanced management experience, constantly realizes self-improvement, and establishes a good corporate culture.

Product features

产品特点

精密行星齿轮减速机是我公司自主研发的新一代实用性产品,具有以下一些主要特点

Precision planetary gear reducer is a new generation of practical products independently developed by our company, which has the following main characteristics



低噪音
Low noise

低于65db。
below 65db.



高输入转速
High input speed

可达5000RPM。
Up to 5000RPM.



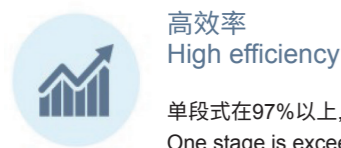
低间隙
Low Backlash

单级可达3弧分内,双级可达5弧分内。
One stage within 3 arc minutes, Two stage with 5 arcmin.



高扭矩
High torque

比一般行星减速机扭矩高。
Higher than conventional planetary gearbox.



高效率
High efficiency

单段式在97%以上,双段式在95%以上。
One stage is exceed 97%, Two stage is exceed 95%.



高稳定性
High stability

采用高强度合金钢材,整个齿轮经硬化处理,非只有表面硬化,确保使用寿命及长期使用仍保持最初的精密密度。
Using high-strength steel alloy material. Not just hardening on gear surface, but hardening entire gear to insure the gear life time and maintain high accuracy.

减速机规格确认事项

Confirmation items of reducer specification

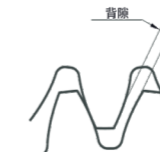
步骤	说明	代号	参数计算
1	设备使用系数	f ₁	Loading classification 负载类型
			Running per hour 每小时启动次数Z
			Running per day(h) 每日运行时间(h)
			Using fs 使用系数fs
			Running per hour 每小时启动次数Z
			Running per day(h) 每日运行时间(h)
2	扭矩的确定	T _{2N}	T _{2N} >T _{C2} 所选减速机的额定扭矩T _{2N} 必须大于计算扭矩T _{C2} 。T _{C2} =T ₂ ×f _s (T _{C2} -计算扭矩 T ₂ -实际所需扭矩fs-使用系数)
3	额定输入转速	n ₁	允许最大输出转速请参照减速机性能资料
4	确定减速比	i	i=n ₁ /n ₂
5	减速机效率	η	L1≥95%、L2≥92%
6	以被驱动设备所需的扭矩或功率,计算减速机的输入功率	P ₁	P ₁ =(T ₂ ×n ₁)/(9550×i×η) 或 P ₁ =P ₂ ÷η
7	根据计算传动力表确定减速机的规格	T _{2N} 、P _{1N}	T _{2N} ≥T ₃ ×f ₁ ×f ₂ P _{1N} ≥P ₁ ×f ₁ ×f ₂
8	输出轴径向力、轴向力校核	Fr、Fa	查《产品手册》性能资料表。对比小于减速机最大径向力、轴向力。频繁启动-停止运转工况应选择加强型
9	确认使用环境		防护等级、工作温度、化学环境等
10	根据空间确认安装方式		同轴安装、90°直角安装
11	确认减速机型号		根据性能资料表、输入、输出方式等确定具体系列、型号、规格及附件

说明:n₂、P₂为被驱动设备的转速和功率;P₁=P₂为被驱动设备所需的功率和扭矩;P_{1N}、T_{2N}为实际减速机所需功率和扭矩。

减速机的选用及事项 / GEAR UNIT SELECTION & ANNOUNCEMENTS

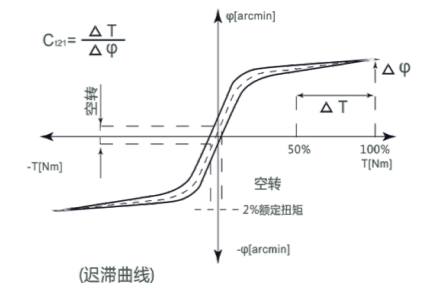
与选型有关的基本概念/Base concepts of precision planetary gear boxes

Ratio/减速比	Input speed/Output speed输出转速比上输入转速
额定输入转速 n ₁ [rpm]	减速机的驱动速度,若减速机与电机直接相连,则转速值与电机转速相同。本书中的额定输入转速是在环境温度为20°C的条件下测得的。环境温度较高时请降低转速n ₁
输出转速 n ₂ [rpm]	输出转速按照下列公式通过输入转速n ₁ 和传动比i计算出来:n ₂ =n ₁ /i
Poles 段/级数	The number of set of planetary gear. Owing to one set planetary gear can't satisfy bigger transmission ratio,two or three sets can meet Users' requirements of bigger transmission ratio. Since increasing the gear quantity,the length of two or three poles motor will increase accordingly,of course,the efficiency will reduce accordingly. 行星齿轮的套数。由于一套行星齿轮无法满足较大的传动比,有时需要两套或三套来满足用户对较大传动比的要求,也就是说,减速比越大段/级数越多。由于增加了行星齿轮的数量,所以二级或三级减速机的长度会有所增加,效率会有所下降。
Efficiency 传动效率	If refers to the gearing efficiency of the gearboxes in the case of the largest load. 指在额定负载情况下,减速机的传动效率。减速比越大,级数越多效率越低。
Average lifetime 平均寿命	Refers to the continuous working time of the gearboxes of the highest input rev. 指减速机在额定负载下,额定输入转速是减速机的连续工作时间。
Precise positioning 定位精度	In high-speed reciprocating mechanical movement achieve precise positioning is the key to minimizing the movement through the angular deviation,positioning accuracy depends on the two values,with a load of the deflection an angle(involving a return to space with torsion stiffness,and the other is control of the movement and rotation angle,involving partial synchronization the problem worse. 在高速机械往复运动中做到精确定位的关键在于尽量减小通过运动产生的角偏差。定位精度取决于两个值,f是与加载有关的偏转角,涉及到回程间隙和扭转刚度;另一个是与运动控制有关的偏转角,涉及到同步偏差问题。
Backlash 回程间隙背隙	减速机输出轴与输入轴的最大偏差角,测量时先将齿轮输入轴固定住,然后在输出轴用力矩仪加载一定力矩(2%K),以克服减速机内的摩擦力。



迟滞曲线

迟滞曲线是为了得出减速机的扭转刚度,通过检测得到迟滞曲线。检测时,先将减速机输入端固定住,然后在输出端的两个旋转方向分别持续地加载到T_{2B}最大输出力矩,继而逐步卸载,用仪器记录下力矩的仿差角,得到的曲线是一条闭合曲线,从中可以计算出减速机回程间隙(jt)和扭转刚度(C_{t21})。

Inertia
转动惯性

Moment of the rotary inertia this description refers to that at the input terminal.Said an object strive to maintain their rotational state(or a stationary of rotating)characteristics of a value.
本说明书中的该值均指输入端。表示一个物体尽力保持自己转动状态(或静止或转动)特征的一个值。

The proportion of inertia
惯量比

Refer to the ration of load inertia and inertia drive system(motor with gearbox).This ratio determines the controllability of the λ value,the greater is the moment of inertia greater margin,high-dynamic action on the more difficult process of precision control.The values can be control in 5,gearboxes can be used to reduce load 1/i².
是指负载惯量与传动系统惯量(电机加上减速机)之间的比值。这个比值决定了系统的可控性。入值越大也就是各转动惯量差值越大,高动态的动作就越难精确控制。建议尽可能将λ值控制在<5。齿轮箱可以将负载惯量降低1/i²。

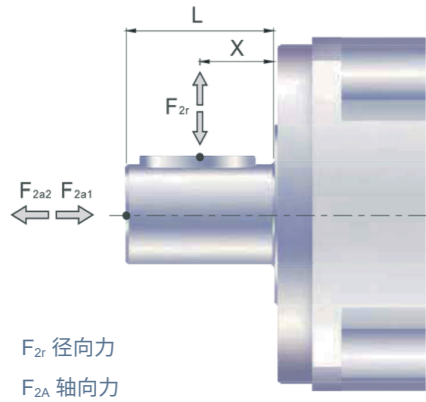
Noise
噪音

The unit is decibel(dB).The value is measured when the input rev is 3000r/m without load and at the distance of one meter from the gearboxes.
单位是分贝(dB)。此数值是在输入转速为3000转/分时,不带负载,距离减速机一米距离时测量的。

Operating temp/工作温度°C	-40°C~+90°C
Degree of protection/防护等级	IP54/IP65
Lubrication/润滑	Life time lubrication/长效润滑,整个试用期内无需添加润滑剂
Mounting position/安装方式	Any/任意

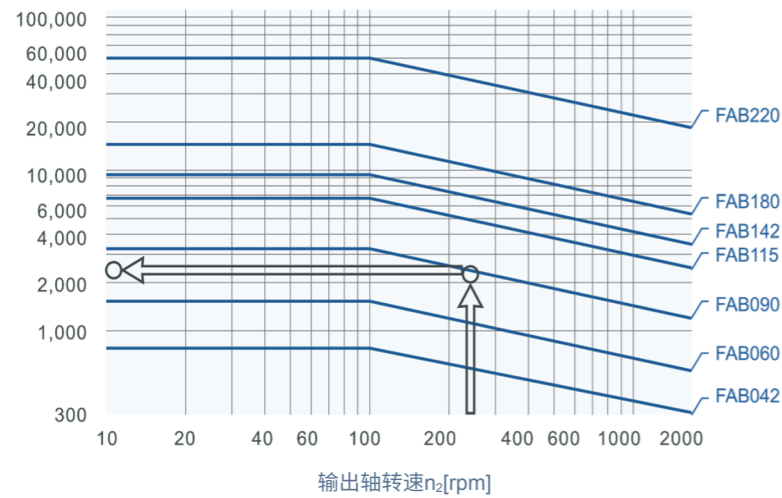
减速机输出轴之容许径向力及轴向力

REDUCER OUTPUT SHAFT OF THE PERMISSIBLE RADIAL FORCE AND SHAFT AND FORCE



减速机输出轴所能承受之最大径向力及轴向力。端视内部支撑轴承之设计,减速机采用大尺寸的轴承及较大跨距的设计,其能承受更大的径向及轴向负荷。

容许径向力 F_{2rB} [N]施力于轴中心位置

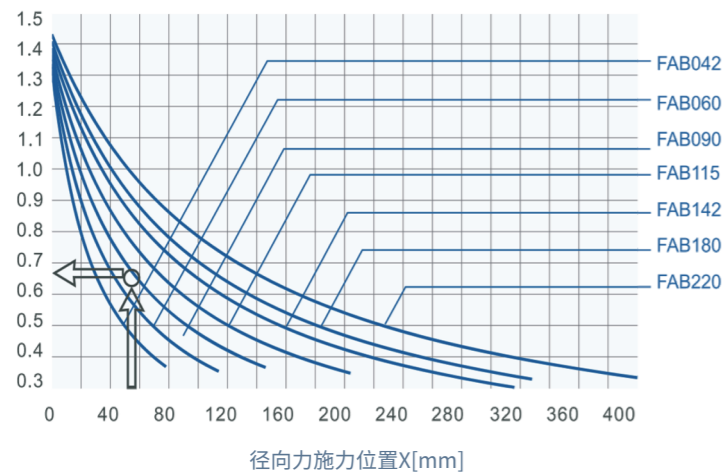


当径向力 F_{2r} 施力于轴中心位置即 $X=1/2 \times L$ 时,不同规格之减速机在不同输出转速运用下使用寿命为20,000hr*时,所能承受之容许径向力 F_{2rB} ,请参照左图,而能承受之容许轴向力 F_{2aB} ,为

$$F_{2a1B} = 0.2 \times F_{2rB}$$

$$F_{2a2B} = 0.1 \times F_{2rB}$$

位置负荷系数 K_b



当径向力 F_{2r} 施力不在轴中心位置时,越靠近减速机即 $X < 1/2 \times L$,所能承受之容许径向力变大,越远离减速机即 $X > 1/2 \times L$ 时,所能承受之容许径向力则变小,藉由左图,依减速机规格及径向力施力位置 X ,查出位置负荷系数 K_b ,在代入下列公式,求出容许径向力:

$$F'_{2rB} = K_b \times F_{2rB}$$

轴向力:

$$F_{2a1B} = 0.2 \times F_{2rB}$$

$$F_{2a2B} = 0.1 \times F_{2rB}$$

*连续运转降低使用寿命二分之一。



客户至上 贴心服务
您的满意,是我们不懈的追求

Meyle为完善客户服务质量,精心打造一支专业贴心的售后服务团队。耐心听取客户诉求并及时作出应是Meyle的职责。灵活调度和迅速解决问题是我们与客户密切合作的基础。不断改善产品体系和服务流程,并超出客户期望是我们的服务宗旨。

To improve customer service quality, Meyle has carefully built a professional and considerate after-sales service team. It is Meyle's responsibility to listen to customer's demands patiently and make timely decisions. Flexible scheduling and rapid problem solving are the basis of our close cooperation with customers. Our service tenet is to continuously improve the product system and service process and exceed customer expectations.

应用行业



非标自动化设备

适用于各大厂家料造的伺服、步进等电机
如:台达,松下,安川,信捷,富士,三菱,西门子,施耐德欧姆龙,FANNUC,科比国内品牌等。。。。电机尺寸



智能设备

- 1. 航空航天、军事产业
- 2. 医疗卫生、电子信息技术产业。
- 3. 工业机器人、生产自动化、数控机床制造产业。
- 4. 汽车制造、纺织、印刷、食品、冶金



锂电相关设备

- 5. 环保工程、仓储物流等产业
- 1. Aerospace, military industry
- 2. Healthcare, electronic information technology industry.
- 3. Industrial robots, production automation, CNC machine tool manufacturing industry.
- 4. Automobile manufacturing, textile, printing, food, metallurgy
- 5. Environmental protection engineering, warehousing and logistics and other industries



新能源/光伏设备

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PEH精密斜齿系列



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PGH精密斜齿系列



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PGHR精密斜齿系列



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PGF精密斜齿系列



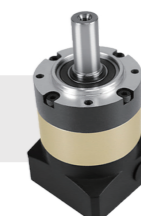
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PGFR精密斜齿系列



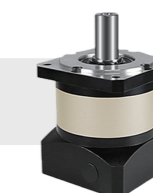
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JAE精密直齿系列



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JAF精密直齿系列



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JAER精密直齿系列



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JAFR精密直齿系列



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PEH系列精密斜齿行星减速机

PEH series precision helical planetary reducer



→→PEH060

→→PEH090

→→PEH115

→→PEH142

PEH系列减速机核心特性

The Core features of PEH series reducer

1. 采用斜齿齿轮传动, 经渗碳淬火处理, 齿向齿廓修形处理, 确保运行低噪音、平稳; 承载能力较直齿提高20%;

2. 整体式输出轴, 行星轮两端轴承支撑, 实现高精度、高强度;

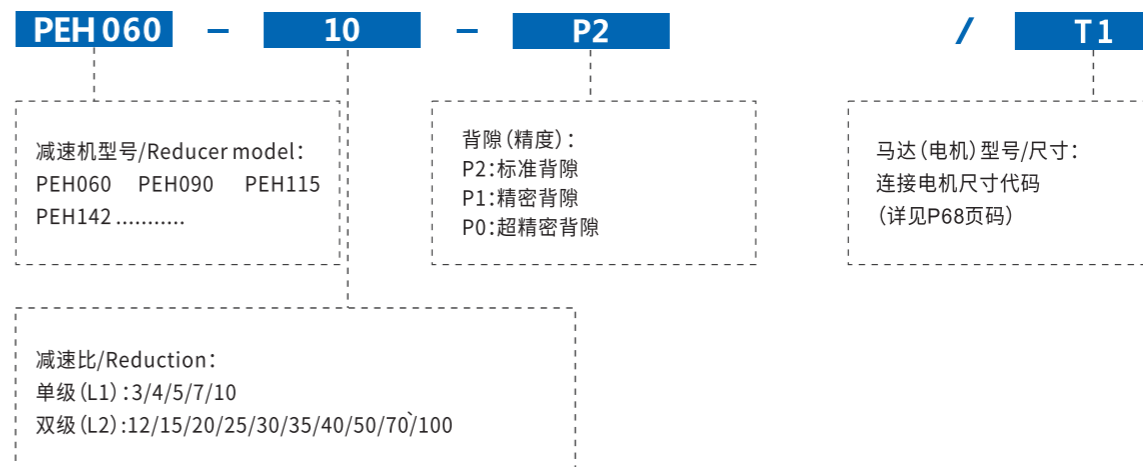
3. 回程间隙小, 精密型单级可以做到3arcmin以内;

1. Helical gear transmission, carburizing and quenching treatment, tooth profile modification treatment, Ensure low noise and stable operation; The bearing capacity is 20% higher than that of straight teeth;

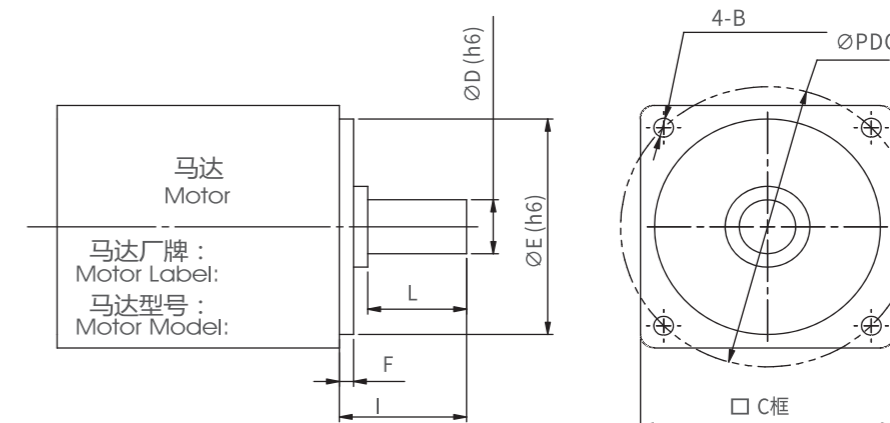
2. The integral output shaft is supported by bearings at both ends of the planetary gear to achieve high precision and high strength;

3. The return clearance is small, and the precision single stage can reach within 3 arcmin;

型号说明 / MODEL ILLUMINATE



FILL IN DATA OF MOTOR 客户填写资料



规格 SPECIFICATIONS

Motor Shaft Dia.	Flange Dia.	Motor Shaft Length	Flange Height	P.C.D of Bore	Bore Dia.	Motor Flange Square	Actual Length of Motor Shaft	Backlash
马达轴外径	马达凸缘外径	马达轴长度	马达凸缘高度	螺丝孔中心距	螺丝孔直径	马达面尺寸	马达轴有效长	要求背隙
ØD (h6)	ØE (h6)	I	F	PDC	4-B	C框	L	PO/P1/P2

减速机性能资料 / GEAR BOX PERFORMANCE INFORMATION

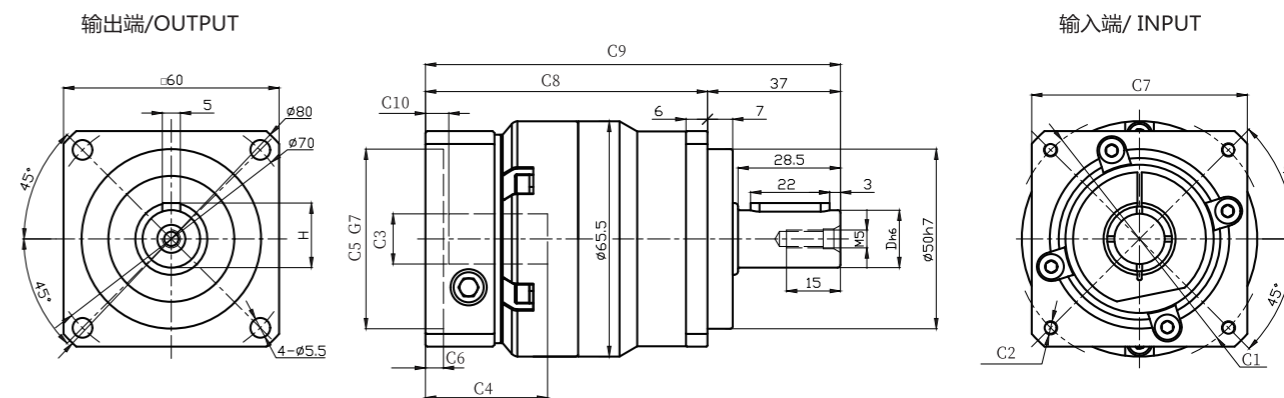
规格Specifications	单位unit	节数Stage	减速比Ratio	PEH060	PEH090	PEH115	PEH142
额定输出力矩T2N Nominal Output Torque	N.m	1	3	55	130	210	340
			4	50	140	295	540
			5	60	160	325	650
			7	50	140	300	550
		2	10	40	120	225	450
			12	55	130	210	340
			15	55	130	210	340
			20	50	140	295	540
			25	60	160	325	650
			30	55	130	210	340
			35	60	160	325	650
			40	50	140	295	540
			50	60	140	325	650
			70	50	160	300	550
100	40	140	225	450			
急停力矩T20T Emergency Stop Torque	N.m	1、2	3~100	3倍额定输出力矩 (3.0 times of Nominal Output Torque)			
额定输入转速n1 Nominal Input Speed	rpm	1、2	3~100	5000	4000	4000	3000
最大输入转速 (n1ma) Max. Input Speed	rpm	1、2	3~100	10000	8000	8000	6000
超精密背隙P0 Ultraprecise Backlash	arcmin	1	3~10	≤2	≤2	≤1	
		2	12~100	≤4	≤4	≤3	≤3
精密背隙P1 Precise Backlash	arcmin	1	3~10	≤4	≤3	≤3	≤3
		2	12~100	≤6	≤5	≤5	≤5
标准背隙P2 Standard Backlash	arcmin	2	3~10	≤6	≤5	≤5	≤5
		2	12~100	≤8	≤8	≤7	≤7
扭转刚性 Torsional Biquidity	N.m/arcmin	1、2	3~100	6	12	23	45
容许径向力F2rB Max. Radial Load	N	1、2	3~100	1010	1780	3420	5380
容许轴向力F2aB NAoy Axialload	N	1、2	3~100	600	1500	2650	4670
使用温度 Operating Temc	° C	1、2	3~100	-10° C~+90° C			
使用寿命 Service Life	hr	1、2	3~100	20,000 (10,000/连续运转continui operationg)			
效率η Efficiency	%	1	3~10	≥97%			
		2	12~100	≥94%			
重量 Weigh'	kg	1	3~10	13	35	78	16.1
		2	12~100	2.0	5.6	9.5	19.0
安装方向 mounting Position		1、2	3~100	任意方向			
噪音值 Noise Level	dBA/1m	1、2	3~100	58	60	63	65
防护等级 Protection Class		1、2	3~100	IP65			
润滑 Lubrication		1、2	3~100	全合成润滑脂油 Synthetic Lubricant			

减速机转动惯量

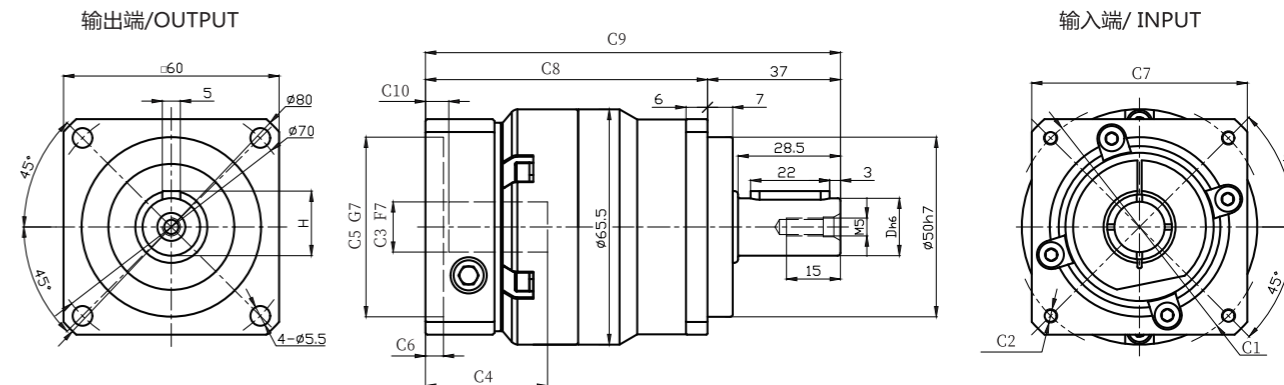
规格Specifications	单位unit	节数Stage	减速比Ratio	PEH060	PEH090	PEH115	PEH142
转动惯量J1 Inertia	kg.cm ²	1	3	0.16	0.60	3.25	9.21
			4	0.14	0.50	2.73	7.54
			5	0.13	0.49	2.70	7.25
			7	0.13	0.47	2.60	7.14
		2	10	0.13	0.45	2.55	7.03
			12	0.03	0.13	0.47	2.71
			15	0.03	0.13	0.47	2.71
			20	0.03	0.13	0.47	2.71
			25	0.03	0.13	0.47	2.71
			30	0.03	0.13	0.47	2.71
			35	0.03	0.13	0.47	2.71
			40	0.03	0.13	0.47	2.71
			50	0.03	0.13	0.47	2.57
			70	0.03	0.13	0.47	3.57
90	0.03	0.13	0.47	4.57			
100	0.03	0.13	0.47	5.57			

外形尺寸图表 / OUTLINE DIMENSION SHEET

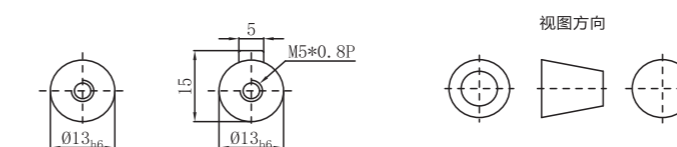
PEH060-L1



PEH060-L2



输出轴径/Output Diameter



型式S1

型式S2

*输入马达连接板之尺寸,可根据客户要求单独定做。
*The input motor specific dimensions could be customised.

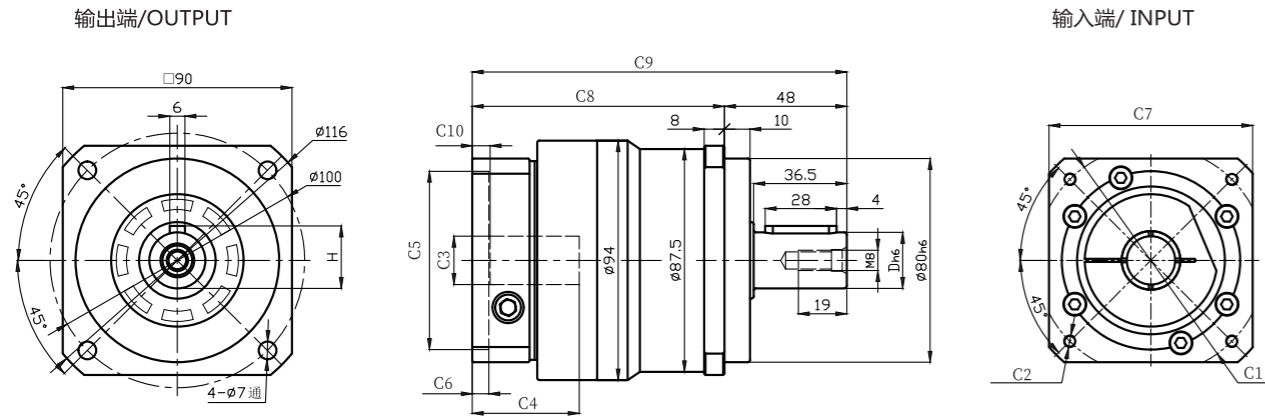
尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
PEH060-L2	φ46	4-M4x12,4-M5x12	≤ φ8	44	φ30	9	60	78.5	115.5	10.3
	φ66.7	4-M4x12	≤ φ8	38	φ38.1	3	60	78.5	115.5	4.3
	φ70	4-M4x12,4-M5x12	≤ φ14	38	φ50	5	60	78.5	115.5	5.3
	φ75	4-M4x12,4-M5x12	≤ φ14	38.5	φ60	5	66	78.5	115.5	5.5
	φ90	4-M5x15,4-M6x15	≤ φ19	44	φ70	7	80	78.5	115.5	11
PEH060-L2	φ100	4-M6x15	≤ φ19	44	φ80	7	90	78.5	115.5	11
	φ46	4-M4x12, 4-M5x12	≤ φ8	44	φ30	9	60	107.5	144.5	10.3
	φ66.7	4-M4x12	≤ φ8	38	φ38.1	3	60	107.5	144.5	4.3
	φ70	4-M4x12,4-M5x12	≤ φ14	38	φ50	5	60	107.5	144.5	5.3
	φ75	4-M4x10,4-M5x12	≤ φ14	38.5	φ60	5	66	107.5	144.5	5.5
PEH060-L2	φ90	4-M5x15,4-M6x15	≤ φ19	44	φ70	7	80	107.5	144.5	11
	φ100	4-M6x15	≤ φ19	44	φ80	7	90	107.5	144.5	11

* C1~C10是公制标准马达连接板之尺寸,可根据客户要求单独定做。

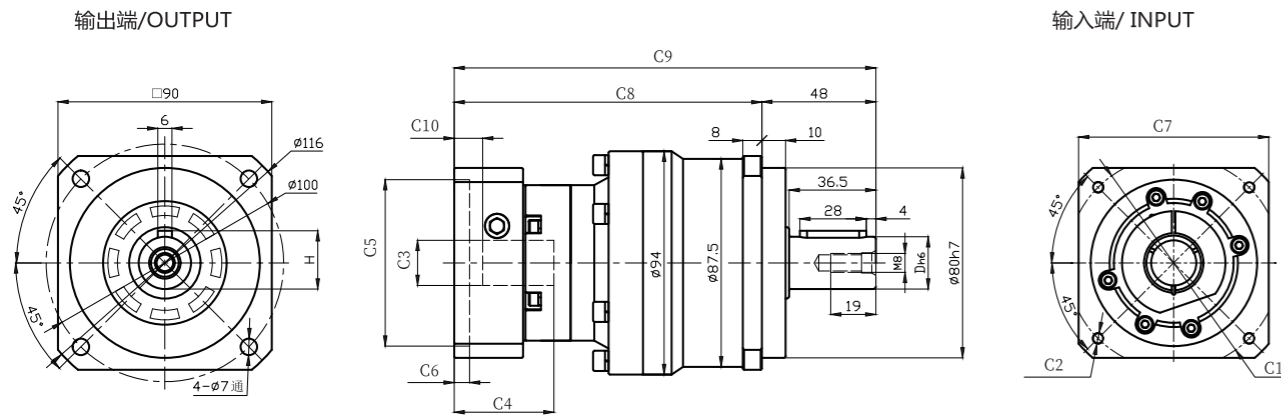
* C1~C10are motor (metric standard) specific dimensions, which could be customised.

外形尺寸图表 / OUTLINE DIMENSION SHEET

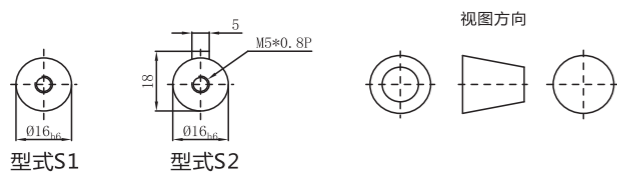
PEH090-L1



PEH090-L2



输出轴径/Output Diameter



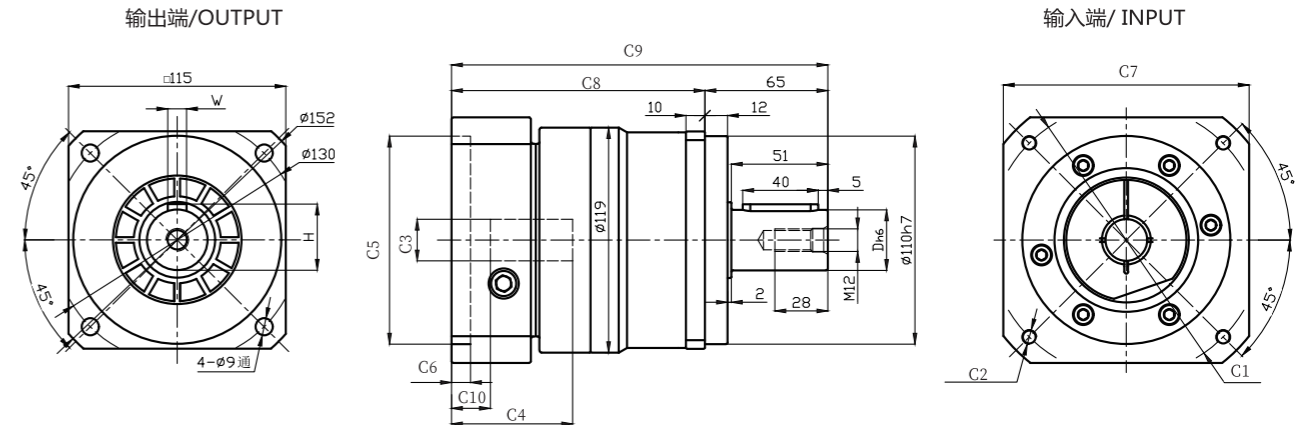
*输入马达连接板之尺寸, 可根据客户要求单独定做。
*The input motor specific dimensions could be customised.

尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
PEH090-L1	φ 90	A-M5x124-M6x14	≤ φ 19	42	φ 70	6.5	80	99	147	7
	φ 100	4-M6x14	≤ φ 16	42	φ 80	6.5	86	99	147	6
	φ 115	4-M8x20	≤ φ 22	56.5	φ 95	8	100	114.5	162.5	16.5
	φ 145	4-M8x20	≤ φ 24	59	φ 110	11	130	117	165	19
PEH090-L2	φ 66.7	4-M4x10	≤ φ 8	34	φ 38.1	5	60	123	171	5.5
	φ 70	4-M4x10,4-M5x12	≤ φ 14	34	φ 50	5	60	123	171	5.5
	φ 90	4-M5x12,4-M6x14	≤ φ 19	42	φ 70	6.5	80	129.5	177.5	12
	φ 100	4-M6x14	≤ φ 16	42	φ 80	6.5	86	129.5	177.5	11

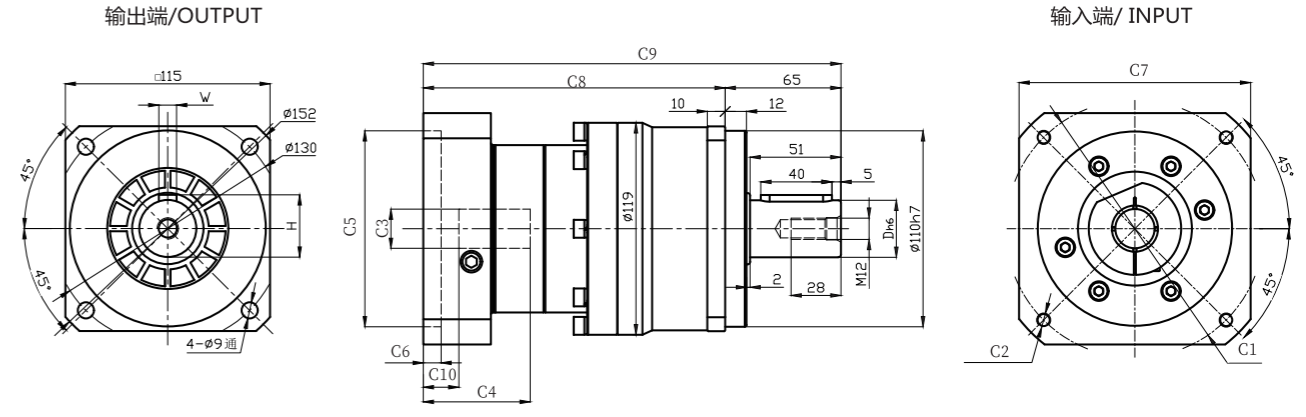
* C1~C1 是公制标准马达连接板之尺寸, 可根据客户要求单独定做。
* C1~C10 are motor (metric standard) specific dimensions, which could be customised.

外形尺寸图表 / OUTLINE DIMENSION SHEET

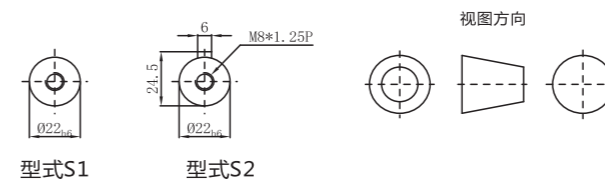
PEH115-L1



PEH115-L2



输出轴径/Output Diameter



*输入马达连接板之尺寸, 可根据客户要求单独定做。
*The input motor specific dimensions could be customised.

尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
PEH115-L1	φ 90	4-M5x12,4-M6x14	≤ φ 19	42	φ 70	6.5	80	134	199	7
	φ 110	4-M6x14	≤ φ 16	42	φ 80	6.5	86	134	199	6
	φ 115	4-M8x20	≤ φ 22	56.5	φ 95	8	100	134	199	16.5
	φ 145	4-M8x20	≤ φ 24	64	φ 110	10	130	134	199	19.5
	φ 200	4-M12x28	≤ φ 35	81	φ 114.3	10	180	151.5	216.5	28
PEH115-L2	φ 90	4-M5x12,4-M6x14	≤ φ 19	42	φ 70	6.5	80	150.5	215.5	7
	φ 110	4-M6x14	≤ φ 16	42	φ 80	6.5	86	150.5	215.5	6
	φ 115	4-M8x20	≤ φ 22	56.5	φ 95	8	100	166	231	16.5
	φ 145	4-M8x20	≤ φ 24	64	φ 110	10	130	166	231	19.5
	φ 200	4-M12x28	≤ φ 35	81	φ 114.3	10	180	166	231	28

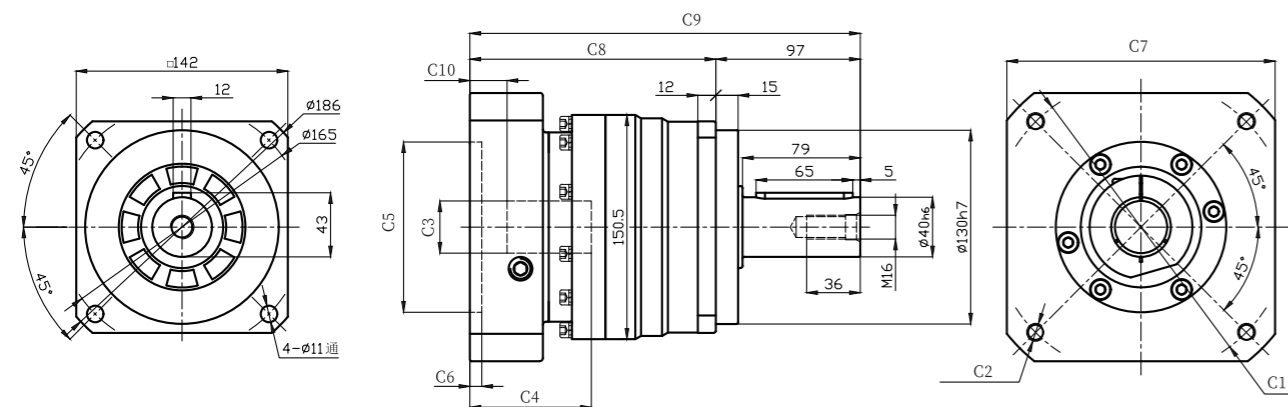
* C1~C9 是公制标准马达连接板之尺寸, 可根据客户要求单独定做。
* C1~C9 are motor (metric standard) specific dimensions, which could be customised.

外形尺寸图表 / OUTLINE DIMENSION SHEET

PEH142-L1

输出端/OUTPUT

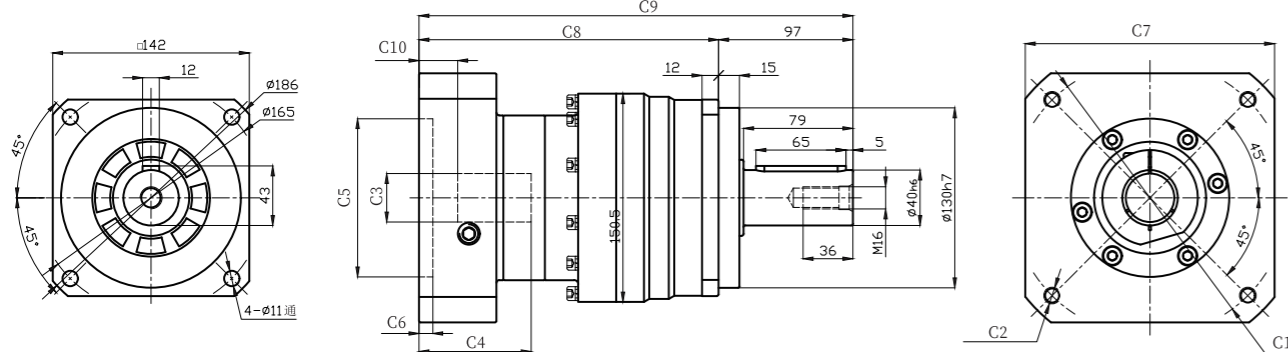
输入端/INPUT



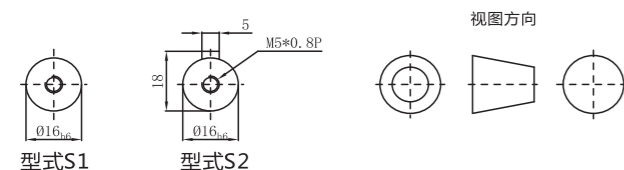
PEH142-L2

输出端/OUTPUT

输入端/INPUT



输出轴径/Output Diameter



*输入马达连接板之尺寸,可根据客户要求单独定做。
*The input motor specific dimensions could be customised.

尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
PEH142-L1	φ 145	4-M8x20	≤ φ 24	72	φ 110	11	130	155	252	19.5
	φ 200	4-M12x28	≤ φ 42	81.5	φ 114.3	8	180	165	262	25
PEH142-L2	φ 145	4-M8x20	≤ φ 24	64	φ 110	10	130	199	296	19.5
	φ 200	4-M12x28	≤ φ 42	81	φ 114.3	10	180	216.5	313.5	28

* C1~C9 是公制标准马达连接板之尺寸,可根据客户要求单独定做。

* C1~C9 are motor (metric standard) specific dimensions, which could be customised.



PGH系列精密斜齿行星减速机

PEH series precision helical planetary reducer



- PGH060
- PGH090
- PGH115
- PGH142
- PGH180
- PGH220

PGH系列减速机核心特性

The Core features of PEH series reducer

- 1.采用斜齿齿轮传动,经渗碳淬火处理,齿向齿廓修形处理,确保运行低噪音、平稳;承载能力较直齿提高20%;
- 2.整体式输出轴,行星轮两端轴承支撑,实现高精度、高强度;
- 3.回程间隙小,精密型单级可以做到3arcmin以内;

1. Helical gear transmission, carburizing and quenching treatment, tooth profile modification treatment, Ensure low noise and stable operation; The bearing capacity is 20% higher than that of straight teeth;
2. The integral output shaft is supported by bearings at both ends of the planetary gear to achieve high precision and high strength;
3. The return clearance is small, and the precision single stage can reach within 3 arcmin;

减速机性能资料 / GEAR BOX PERFORMANCE INFORMATION

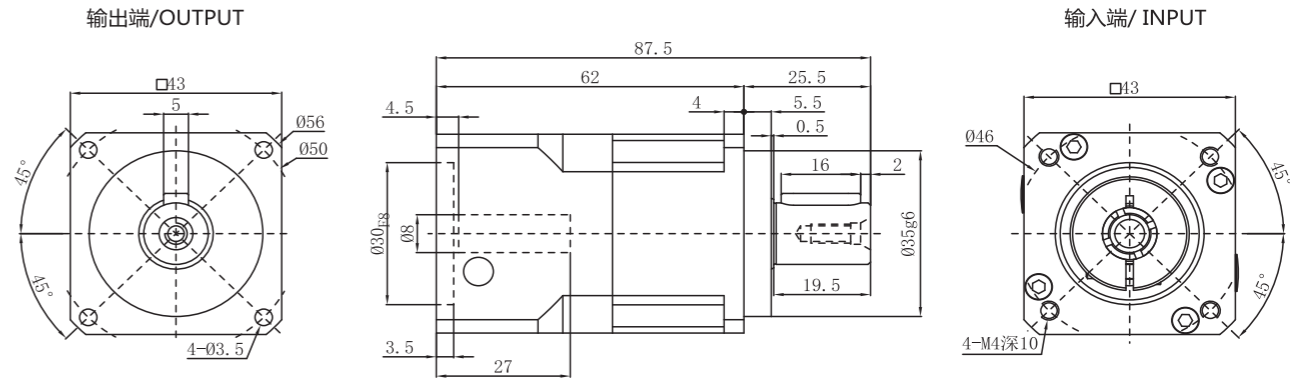
规格 Specifications	单位 unit	节数 Stage	减速比 Ratio	PGH042	PGH060	PGH090	PGH115	PGH142	PGH180	PGH220
额定输出力矩 T2N Nominal Output Torque	N.m	1	3	19	53	145	290	520	950	1550
			4	20	55	150	300	550	1000	1650
			5	17	54	140	290	530	1050	1700
			7	14	44	125	270	450	960	1500
			9	11	37	95	220	360	-	-
			10	11	37	95	220	360	620	1250
		2	12	19	53	145	290	520	950	1550
			15	19	53	145	290	520	950	1550
			20	20	55	150	300	550	1000	1650
			25	17	54	140	290	530	1050	1700
			30	17	54	140	290	530	1050	1700
			35	17	54	140	290	530	1050	1700
			40	20	55	150	300	550	1000	1650
			50	17	54	140	290	530	1050	1700
70	14	44	125	270	450	960	1500			
90	11	37	95	220	360	-	-			
100	11	37	95	220	360	800	1250			
急停力矩 T2NOT Emergency Stop Torque	N.m	1, 2	3 ~ 100	3倍额定输出力矩 (3.0 times of Nominal Output Torque)						
额定输入转速 n1 Nominal Input Speed	rpm	1, 2	3 ~ 100	5000	5000	4000	4000	3000	3000	2000
最大输入转速 n1 max Max. Input Speed	rpm	1, 2	3 ~ 100	10000	10000	8000	8000	6000	6000	4000
超精密背隙 P0 Ultraprecise Backlash	arcmin	1	3 ~ 10	≤2	≤2	≤2	≤1	≤1	≤1	≤1
		2	12 ~ 100	≤4	≤4	≤4	≤3	≤3	≤3	≤3
精密背隙 P1 Precise Backlash	arcmin	1	3 ~ 10	≤4	≤4	≤4	≤3	≤3	≤3	≤3
		2	12 ~ 100	≤6	≤6	≤6	≤5	≤5	≤5	≤5
标准背隙 P2 Standard Backlash	arcmin	1	3 ~ 10	≤6	≤6	≤6	≤5	≤5	≤5	≤5
		2	12 ~ 100	≤8	≤8	≤8	≤7	≤7	≤7	≤7
扭转刚性 Torsional Rigidity	N.m / arcmin	1, 2	3 ~ 100	2.5	6	12	23	45	148	220
容许径向力 F2rB Max. Radial Load	N	1, 2	3 ~ 100	515	1010	1780	3420	5380	8330	11120
容许轴向力 F2aB Max. Axial Load	N	1, 2	3 ~ 100	410	600	1500	2650	4670	6460	8560
使用温度 Operating Temp	°C	1, 2	3 ~ 100	-10° C ~ +90° C						
使用寿命 Service Life	hr	1, 2	3 ~ 100	20,000 (10,000/连续运转continui operationg)						
效率 η Efficiency	%	1	3 ~ 10	≥97%						
		2	12 ~ 100	≥94%						
重量 Weight	kg	1	3 ~ 10	0.6	1.3	3.5	7.8	16.1	30.0	58.0
		2	12 ~ 100	0.9	2.0	5.6	9.5	19.0	42.0	65.0
安装方向 mounting Position	-	1, 2	3 ~ 100	任意方向 Any direction						
噪音值 Noise Level	dBA/1m	1, 2	3 ~ 100	56	58	60	63	65	67	70
防护等级 Protection Class	-	1, 2	3 ~ 100	Ip65						
润滑 Lubrication	-	1, 2	3 ~ 100	全合成润滑脂油 Synthetic Lubricant						

减速机转动惯量

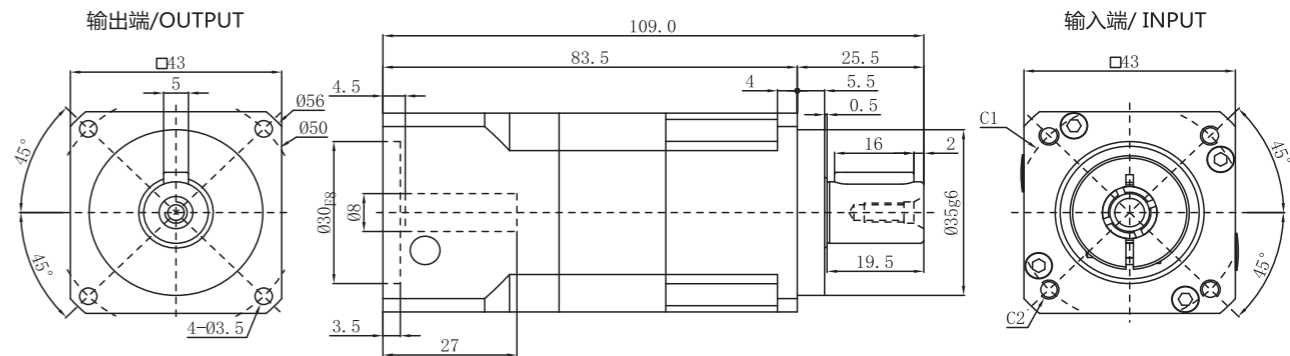
规格 Specifications	单位 unit	节数 Stage	减速比 Ratio	PGH042	PGH060	PGH090	PGH115	PGH142	PGH180	PGH220
转动惯量 J1 Inertia	kg.cm ²	1	3	0.03	0.23	0.97	2.35	10.00	28.90	69.63
			4	0.02	0.18	0.67	1.66	7.17	24.00	54.25
			5	0.02	0.17	0.65	1.50	6.52	23.27	53.30
			7	0.02	0.14	0.60	1.45	6.17	22.42	51.00
			9	0.02	0.14	0.58	1.41	6.10	-	-
			10	0.02	0.14	0.58	1.41	6.10	22.50	50.62
		2	12	0.02	0.17	0.65	1.50	6.52	23.27	53.30
			15	0.02	0.17	0.65	1.50	6.52	24.27	54.37
			20	0.02	0.17	0.65	1.50	6.52	23.27	53.30
			25	0.02	0.17	0.65	1.50	6.52	24.27	54.37
			30	0.02	0.14	0.60	1.45	6.52	23.27	53.30
			35	0.02	0.14	0.60	1.45	6.52	24.27	54.37
			40	0.02	0.14	0.60	1.45	6.52	23.27	53.30
			50	0.02	0.14	0.58	1.41	6.10	22.50	52.45
70	0.02	0.14	0.58	1.41	6.10	22.50	52.45			
90	0.02	0.14	0.58	1.41	6.10	-	-			
100	0.02	0.14	0.58	1.41	6.10	22.50	52.45			

外形尺寸图表 / OUTLINE DIMENSION SHEET

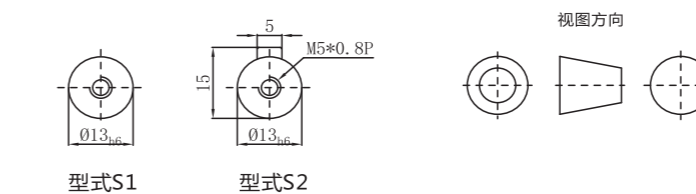
PGH042-L1



PGH042-L2



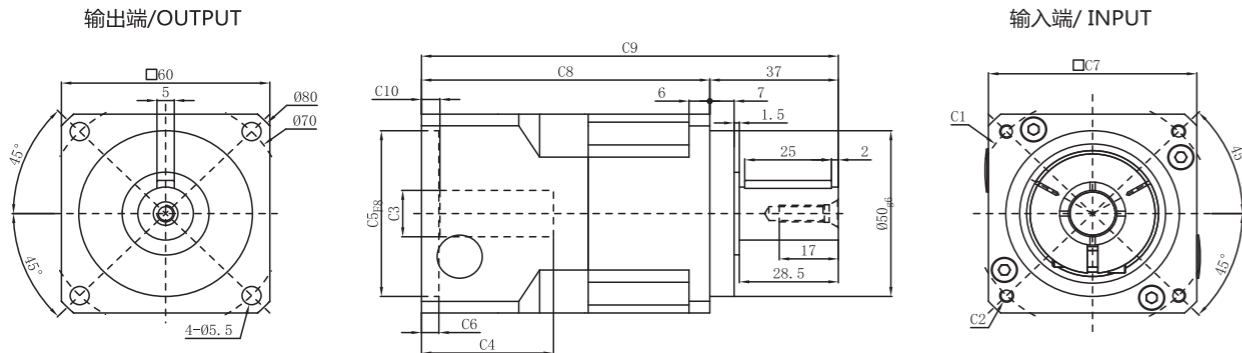
输出轴径/Output Diameter



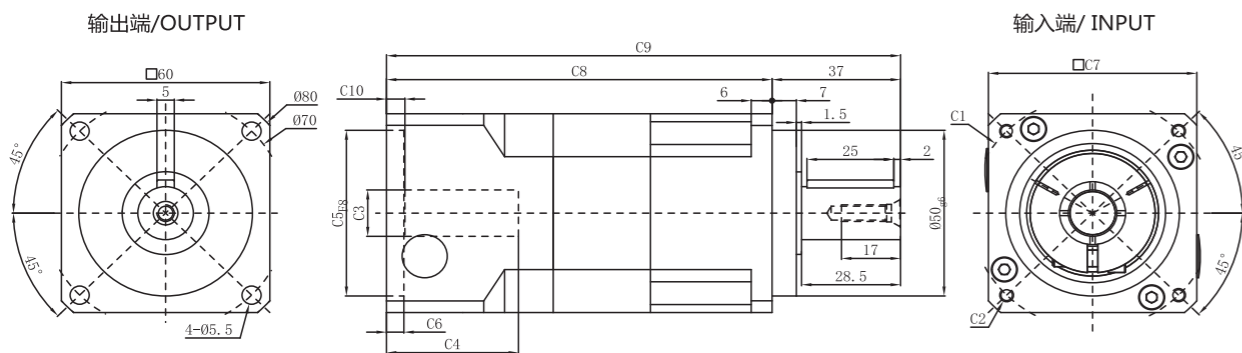
*输入马达连接板之尺寸, 可根据客户要求单独定做。
*The input motor specific dimensions could be customised.

外形尺寸图表 / OUTLINE DIMENSION SHEET

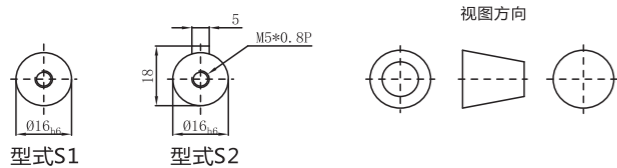
PGH060-L1



PGH060-L2



输出轴径/Output Diameter



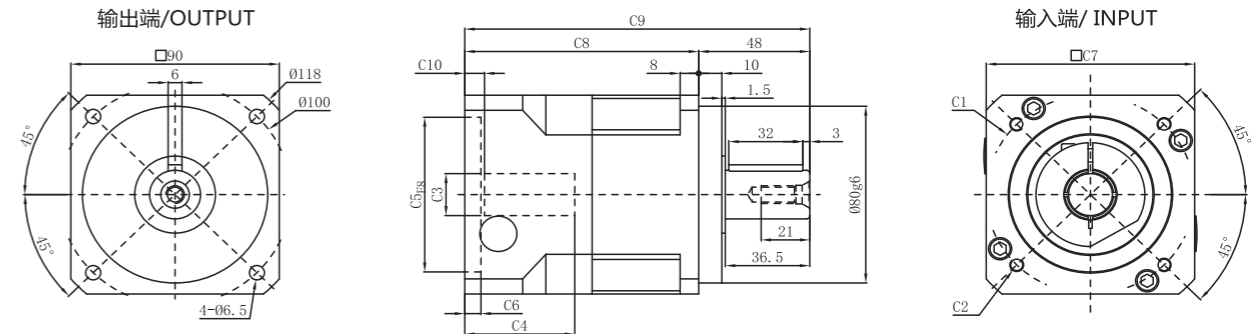
*输入马达连接板之尺寸, 可根据客户要求单独定做。
*The input motor specific dimensions could be customised.

尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
PGH060-L1	$\phi 46$	4-M4x12,4-M5x12	$\leq \phi 8$	44	$\phi 30$	9	60	91	126	10.3
	$\phi 66.7$	4-M4x12	$\leq \phi 8$	38	$\phi 38.1$	3	60	83	120	4.3
	$\phi 70$	4-M4x12,4-M5x12	$\leq \phi 14$	38	$\phi 50$	5	60	83	120	5.3
	$\phi 75$	4-M4x12,4-M5x12	$\leq \phi 14$	38.5	$\phi 60$	5	66	83.5	120	5.5
	$\phi 90$	4-M5x15,4-M6x15	$\leq \phi 19$	44	$\phi 70$	7	80	89	128	11
PGH060-L2	$\phi 46$	4-M4x12, 4-M5x12	$\leq \phi 8$	44	$\phi 30$	9	60	117	154	10.3
	$\phi 66.7$	4-M4x12	$\leq \phi 8$	38	$\phi 38.1$	3	60	111	148	4.3
	$\phi 70$	4-M4x12,4-M5x12	$\leq \phi 14$	38	$\phi 50$	5	60	111	148	5.3
	$\phi 75$	4-M4x10,4-M5x12	$\leq \phi 14$	38.5	$\phi 60$	5	66	111.5	148	5.5
	$\phi 90$	4-M5x15,4-M6x15	$\leq \phi 19$	44	$\phi 70$	7	80	117	156	11
$\phi 100$	4-M6x15	$\leq \phi 19$	44	$\phi 80$	7	90	117	156	11	

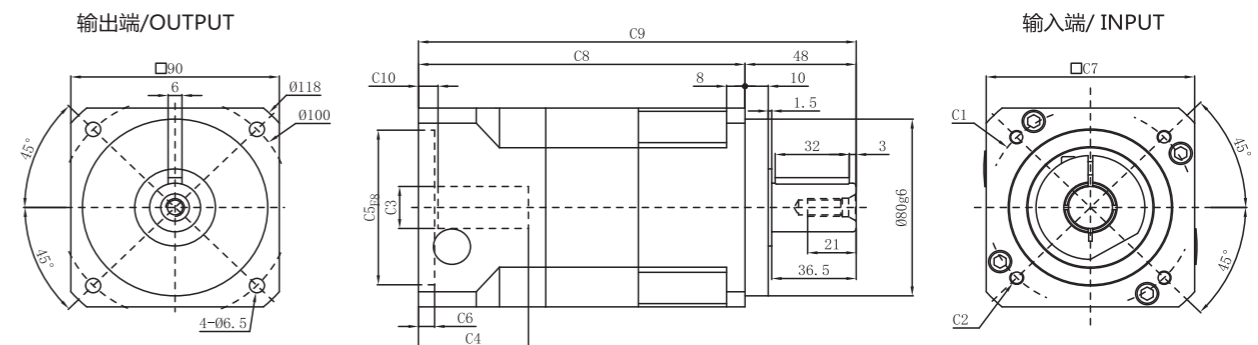
* C1~C10是公制标准马达连接板之尺寸,可根据客户要求单独定做。
* C1~C10are motor (metric standard) specific dimensions, which could be customised.

外形尺寸图表 / OUTLINE DIMENSION SHEET

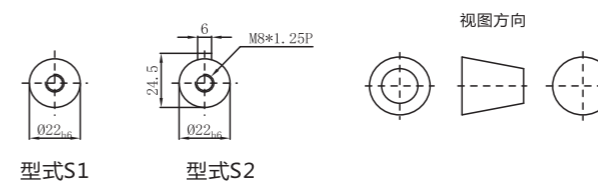
PGH090-L1



PGH090-L2



输出轴径/Output Diameter



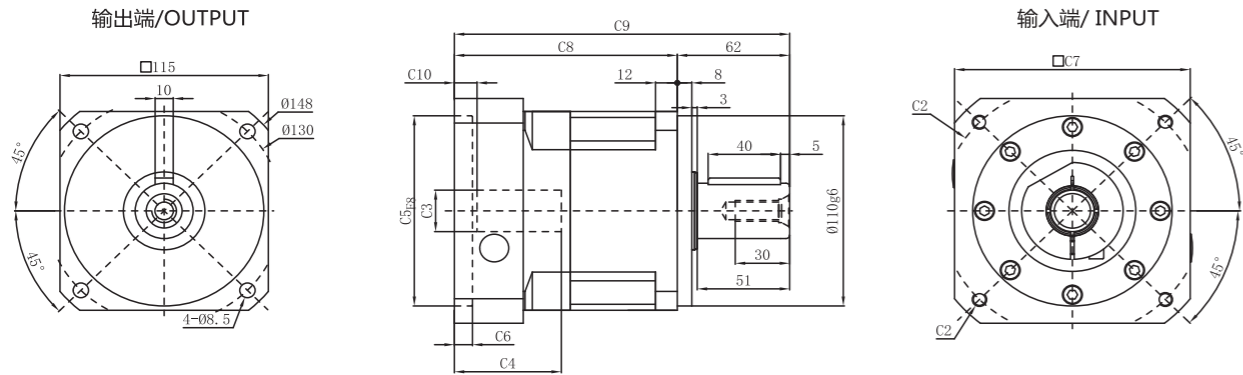
*输入马达连接板之尺寸, 可根据客户要求单独定做。
*The input motor specific dimensions could be customised.

尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
PGH090-L1	$\phi 70$	4-M4x12,4-M5x12	$\leq \phi 14$	47.5	$\phi 50$	4	90	101	149	6
	$\phi 75$	4-M4x12,4-M5x12	$\leq \phi 14$	47.5	$\phi 60$	5.5	90	101	149	6
	$\phi 90$	4-M5x15,4-M6x15	$\leq \phi 19$	47.5	$\phi 70$	7	90	101	149	7
	$\phi 98.4$	4-M6x15	$\leq \phi 14$	47.5	$\phi 73$	7	90	101	149	7
	$\phi 98.4$	4-M6x15	$\leq \phi 14$	47.5	$\phi 60$	7	90	101	149	7
	$\phi 100$	4-M6x15	$\leq \phi 19$	47.5	$\phi 80$	7	90	101	149	7
	$\phi 115$	4-M8x20	$\leq \phi 24$	61.5	$\phi 95$	10	100	113	161	12.5
	$\phi 130$	4-M8x20	$\leq \phi 24$	61.5	$\phi 95$	10	115	113	161	12.5
	$\phi 145$	4-M8x20	$\leq \phi 24$	61.5	$\phi 110$	10	130	113	161	12.5
	$\phi 145$	4-M8x20	$\leq \phi 24$	70.5	$\phi 110$	10	130	122	170	21.5
PGH090-L2	$\phi 70$	4-M4x12,4-M5x12	$\leq \phi 14$	47.5	$\phi 50$	4	90	141	189	6
	$\phi 75$	4-M4x12,4-M5x12	$\leq \phi 14$	47.5	$\phi 60$	5.5	90	141	189	6
	$\phi 90$	4-M5x15,4-M6x15	$\leq \phi 19$	47.5	$\phi 70$	7	90	141	189	7
	$\phi 98.4$	4-M6x15	$\leq \phi 14$	47.5	$\phi 73$	7	90	141	189	7
	$\phi 98.4$	4-M6x15	$\leq \phi 14$	47.5	$\phi 60$	7	90	141	189	7
	$\phi 100$	4-M6x15	$\leq \phi 19$	47.5	$\phi 80$	7	90	141	189	7
	$\phi 115$	4-M8x20	$\leq \phi 24$	61.5	$\phi 95$	10	100	153	201	12.5
	$\phi 130$	4-M8x20	$\leq \phi 24$	61.5	$\phi 95$	10	115	153	161	12.5
	$\phi 145$	4-M8x20	$\leq \phi 24$	61.5	$\phi 110$	10	130	153	201	12.5
	$\phi 145$	4-M8x20	$\leq \phi 24$	70.5	$\phi 110$	10	130	162	210	21.5

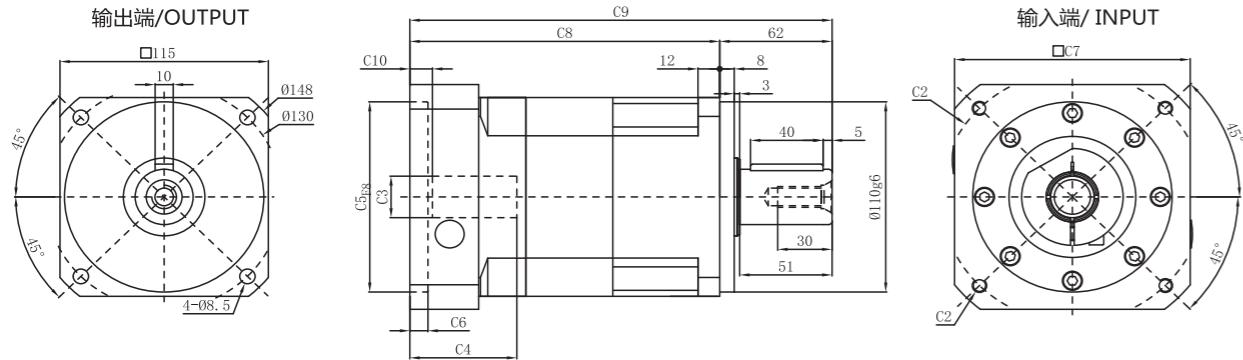
* C1~C10是公制标准马达连接板之尺寸,可根据客户要求单独定做。
* C1~C10are motor (metric standard) specific dimensions, which could be customised.

外形尺寸图表 / OUTLINE DIMENSION SHEET

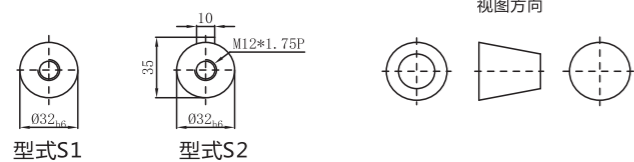
PGH115-L1



PGH115-L2



输出轴径/Output Diameter



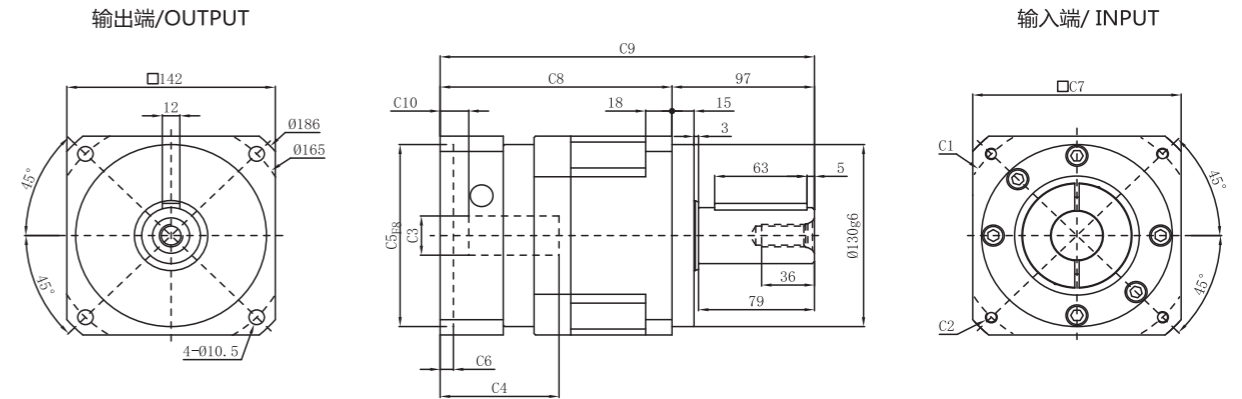
*输入马达连接板之尺寸, 可根据客户要求单独定做。
*The input motor specific dimensions could be customised.

尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
PGH 115-L1	φ 90	4-M5x15,4-M6x15	≦ φ 19	48.5	φ 70	7	115	112.5	174.5	7
	φ 100	4-M6x15	≦ φ 19	48.5	φ 80	7	115	112.5	174.5	7
	φ 115	4-M8x20	≦ φ 24	58	φ 95	10	115	122	184	11.5
	φ 130	4-M8x20	≦ φ 24	58	φ 85	10	115	122	184	11.5
	φ 145	4-M8x20	≦ φ 24	59	φ 110	10	130	123	185	12.5
	φ 145	4-M8x20	≦ φ 24	68	φ 110	10	130	132	194	21.5
	φ 165	4-M10x30	≦ φ 32	80	φ 130	10	142	148.5	210.5	18.5
	φ 200	4-M12x35	≦ φ 35	82	φ 114.3	8	180	150.5	212.5	20.5
PGH 115-L2	φ 90	4-M5x15,4-M6x15	≦ φ 19	48.5	φ 70	7	115	160.5	174.5	7
	φ 100	4-M6x15	≦ φ 19	48.5	φ 80	7	115	160.5	174.5	7
	φ 115	4-M8x20	≦ φ 24	58	φ 95	10	115	170	184	11.5
	φ 130	4-M8x20	≦ φ 24	58	φ 95	10	115	170	184	11.5
	φ 132	4-M8x20	≦ φ 24	58	φ 85	10	115	170	184	11.5
	φ 145	4-M8x20	≦ φ 24	59	φ 110	10	130	171	185	12.5
	φ 145	4-M8x20	≦ φ 24	68	φ 110	10	130	180	194	21.5
	φ 165	4-M10x30	≦ φ 32	80	φ 130	10	142	196.5	258.5	18.5
PGH 115-L1	φ 200	4-M12x35	≦ φ 35	82	φ 114.3	8	180	198.5	260.5	20.5
	φ 215	4-M14x35	≦ φ 38	82	φ 180	8	190	198.5	260.5	20.5

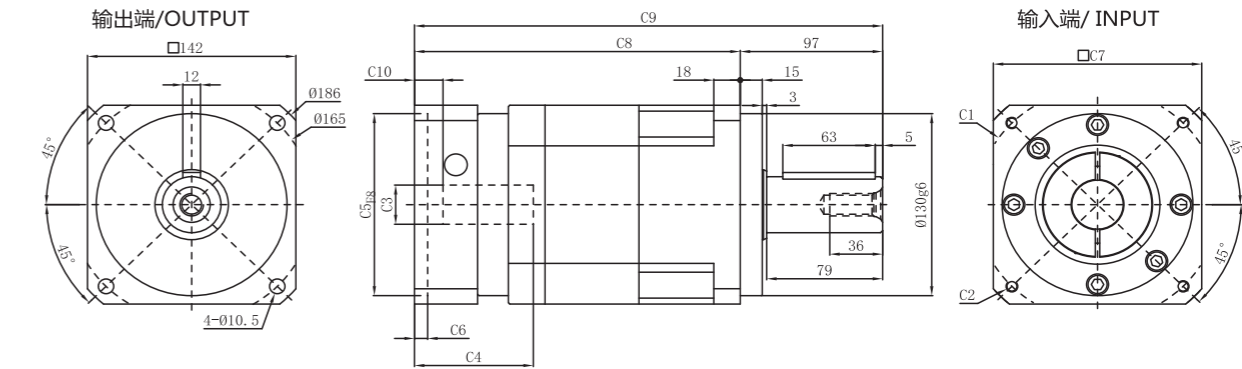
* C1~C10是公制标准马达连接板之尺寸,可根据客户要求单独定做。
* C1~C10are motor (metric standard) specific dimensions, which could be customised.

外形尺寸图表 / OUTLINE DIMENSION SHEET

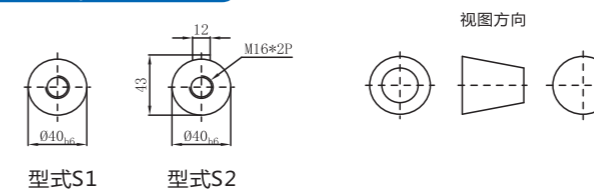
PGH142-L1



PGH142-L2



输出轴径/Output Diameter



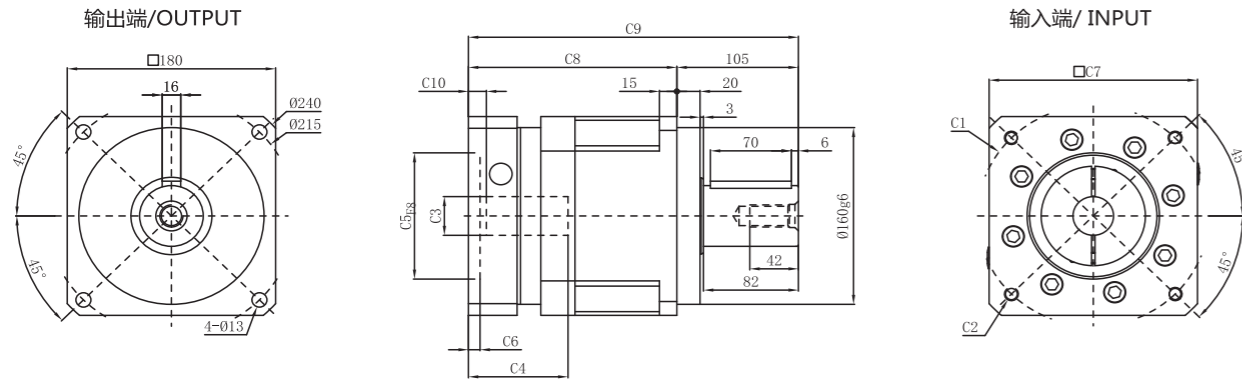
*输入马达连接板之尺寸, 可根据客户要求单独定做。
*The input motor specific dimensions could be customised.

尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
PGH 142-L1	φ 130	4-M8x20	≦ φ 24	81	φ 110	10	142	158	255	19.5
	φ 145	4-M8x20	≦ φ 24	81	φ 110	10	142	158	255	19.5
	φ 165	4-M10x25, 4-M12x35	≦ φ 32	81	φ 130	10	142	158	255	19.5
	φ 175	4-M10x25	≦ φ 32	81	φ 130	10	150	158	255	19.5
	φ 185	4-M10x30	≦ φ 35	81	φ 150	8	160	158	255	19.5
	φ 200	4-M12x35	≦ φ 42	83	φ 114.3	8	180	160	257	21.5
	φ 200	4-M12x35	≦ φ 42	115	φ 114.3	8	180	192	289	53.5
	φ 215	4-M12x35, 4-M14x35	≦ φ 42	83	φ 180	8	190	160	257	21.5
PGH 142-L2	φ 130	4-M8x20	≦ φ 24	81	φ 110	10	142	222	319	19.5
	φ 145	4-M8x20	≦ φ 24	81	φ 110	10	142	222	319	19.5
	φ 165	4-M10x25, 4-M12x35	≦ φ 32	81	φ 130	10	142	222	319	19.5
	φ 175	4-M10x25	≦ φ 32	81	φ 130	10	150	222	319	19.5
	φ 185	4-M10x30	≦ φ 35	81	φ 150	8	160	222	319	19.5
	φ 200	4-M12x35	≦ φ 42	83	φ 114.3	8	180	224	321	21.5
	φ 200	4-M12x35	≦ φ 42	115	φ 114.3	8	180	256	353	53.5
	φ 215	4-M12x35, 4-M14x35	≦ φ 42	83	φ 180	8	190	224	321	21.5

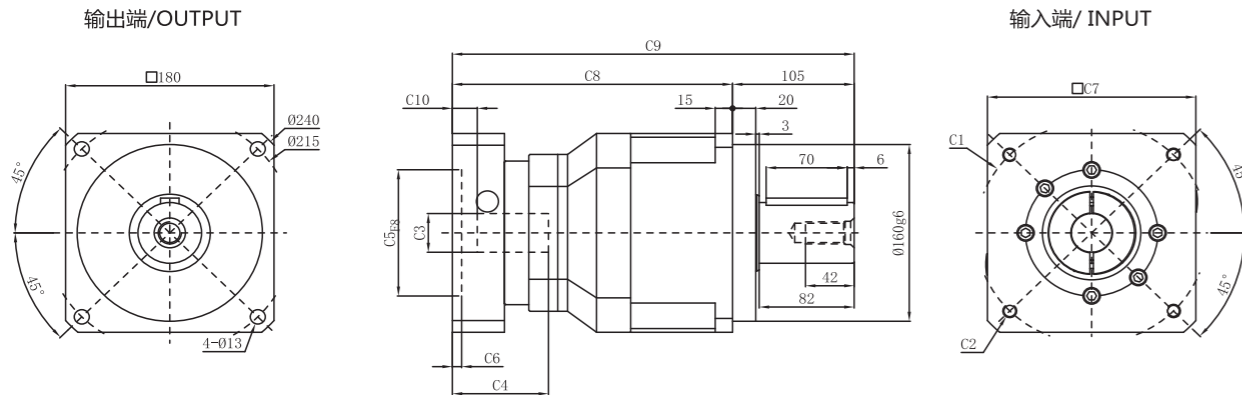
* C1~C10是公制标准马达连接板之尺寸,可根据客户要求单独定做。
* C1~C10are motor (metric standard) specific dimensions, which could be customised.

外形尺寸图表 / OUTLINE DIMENSION SHEET

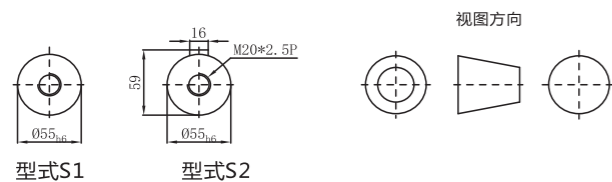
PGH180-L1



PGH180-L2



输出轴径/Output Diameter



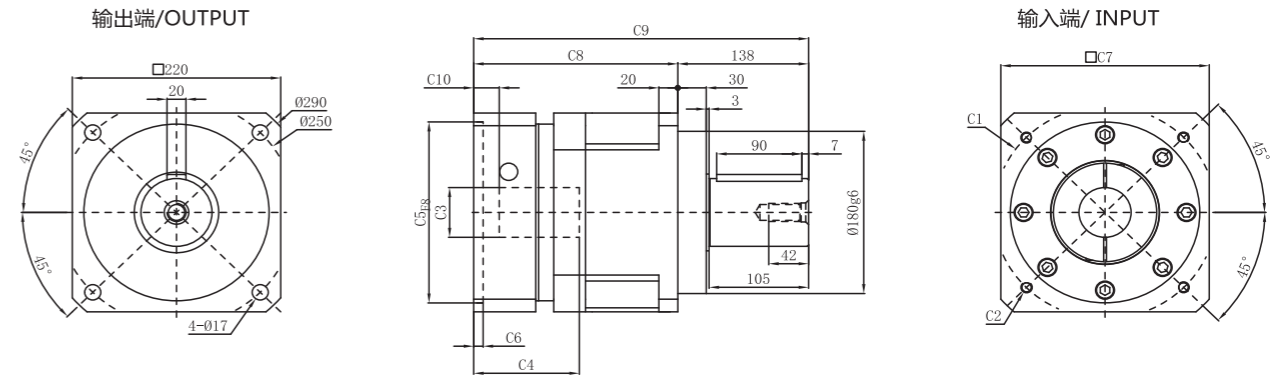
*输入马达连接板之尺寸, 可根据客户要求单独定做。
*The input motor specific dimensions could be customised.

尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
PGH 180-L1	φ 165	4-M10x25, 4-M12x35	≤ φ 32	86	φ 130	10	180	180	285	15.5
	φ 200	4-M12x35	≤ φ 42	86	φ 114.3	10	180	180	285	15.5
	φ 200	4-M12x35	≤ φ 42	118	φ 114.3	10	180	212	317	47.5
	φ 215	4-M14x35	≤ φ 42	86	φ 180	10	190	180	285	15.5
	φ 215	4-M14x35	≤ φ 42	118	φ 180	10	190	212	317	47.5
PGH 180-L2	φ 235	4-M10x30, 4-M14x35	≤ φ 55	118	φ 200	10	220	212	317	47.5
	φ 130	4-M8x20	≤ φ 24	81	φ 110	10	142	240	345	19.5
	φ 145	4-M8x20	≤ φ 24	81	φ 110	10	142	240	345	19.5
	φ 165	4-M10x25, 4-M12x35	≤ φ 32	86	φ 130	8	180	242	347	21.5
	φ 200	4-M12x35	≤ φ 42	83	φ 114.3	8	180	242	347	21.5

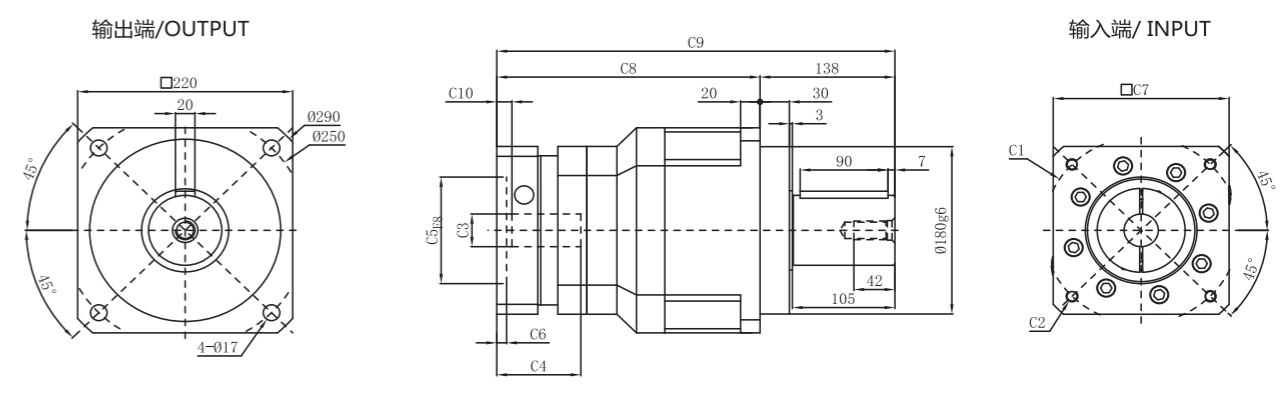
* C1~C10是公制标准马达连接板之尺寸,可根据客户要求单独定做。
* C1~C10are motor (metric standard) specific dimensions, which could be customised.

外形尺寸图表 / OUTLINE DIMENSION SHEET

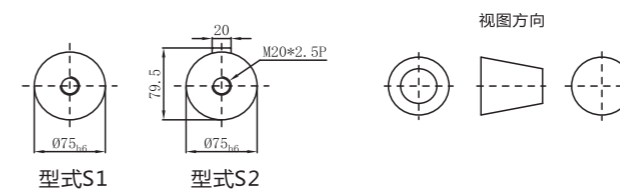
PGH220-L1



PGH220-L2



输出轴径/Output Diameter



*输入马达连接板之尺寸, 可根据客户要求单独定做。
*The input motor specific dimensions could be customised.

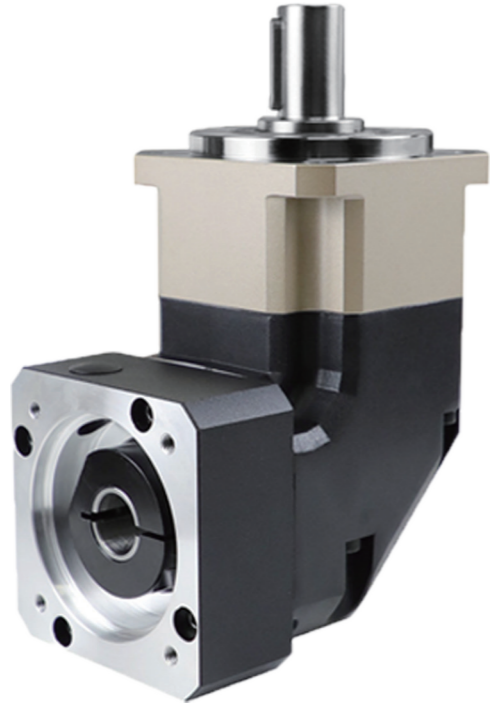
尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
PGH220-L1	φ 200	4-M12x35	≤ φ 42	119	φ 114.3	10	220	215.5	353.5	27
	φ 215	4-M14x35	≤ φ 42	119	φ 180	10	220	215.5	353.5	27
	φ 235	4-M12x35, 4-M14x35	≤ φ 55	119	φ 200	10	220	215.5	353.5	27
PGH220-L2	φ 165	4-M10x25, 4-M12x35	≤ φ 32	86	φ 130	10	180	269.5	407.5	15.5
	φ 200	4-M12x35	≤ φ 42	86	φ 114.3	10	180	269.5	407.5	15.5
	φ 200	4-M12x35	≤ φ 42	118	φ 114.3	10	180	301.5	439.5	47.5
	φ 215	4-M12x35, 4-M14x35	≤ φ 42	86	φ 180	10	190	269.5	407.5	15.5
	φ 215	4-M12x35, 4-M14x35	≤ φ 42	118	φ 180	10	190	301.5	439.5	47.5

* C1~C10是公制标准马达连接板之尺寸,可根据客户要求单独定做。
* C1~C10are motor (metric standard) specific dimensions, which could be customised.



PGHR系列精密斜齿行星减速机

PEH series precision helical planetary reducer



- PGHR060
- PGHR090
- PGHR115
- PGHR142
- PGHR180
- PGHR220

PGHR系列减速机核心特性

The Core features of PGHR series reducer

1.采用斜齿齿轮传动，经渗碳淬火处理，齿向齿廓修形处理，确保运行低噪音、平稳；承载能力较直齿提高20%；

2.整体式输出轴，行星轮两端轴承支撑，实现高精度、高强度；

3.回程间隙小，精密型单级可以做到5arcmin以内；

1. Helical gear transmission, carburizing and quenching treatment, tooth profile modification treatment,

Ensure low noise and stable operation; The bearing capacity is 20% higher than that of straight teeth;

2. The integral output shaft is supported by bearings at both ends of the planetary gear to achieve high precision and high strength;

3. The return clearance is small, and the precision single stage can reach within 3 arcmin:

减速机性能资料 / GEAR BOX PERFORMANCE INFORMATION

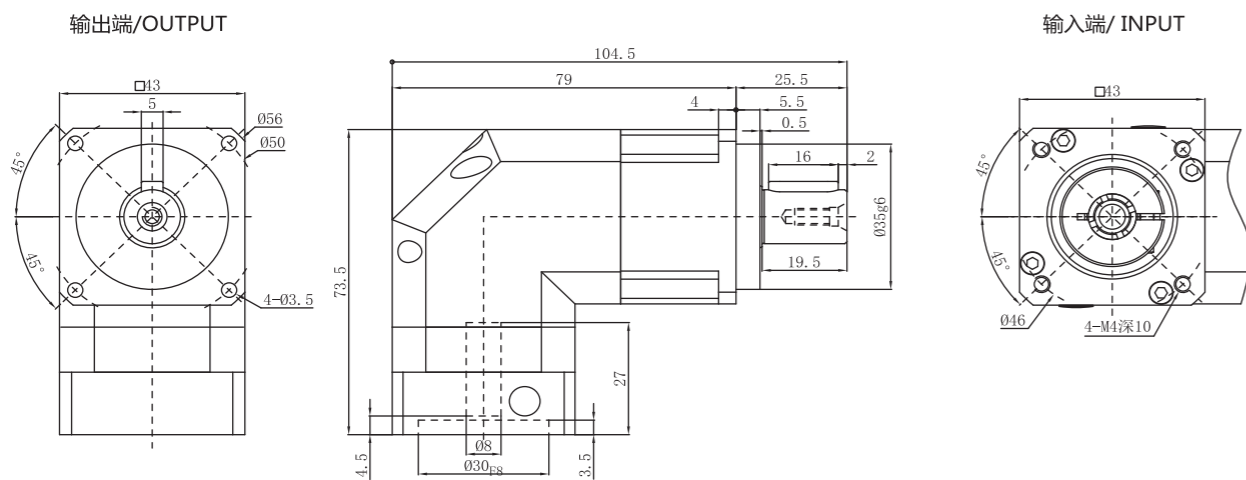
规格Specifications	单位unit	节数Stage	减速比	PGHR 042	PGHR 060	PGHR 090	PGHR 115	PGHR 142	PGHR 180	PGHR 220
额定输出力矩T2N Nominal Output Torque	N.m	1	3	19	53	145	290	520	950	1550
			4	20	55	150	300	550	1000	1650
			5	17	54	140	290	530	1050	1700
			6	19	53	145	290	520	950	1550
			7	14	44	125	270	450	960	1500
			8	20	55	150	300	550	1000	1650
			9	11	37	95	220	360	950	1550
			10	11	37	95	220	360	1050	1700
			14	14	44	125	270	450	960	1500
			18	11	37	95	220	360	800	1250
		20	11	37	95	220	360	800	1250	
		2	12	19	53	145	290	520	950	1550
			15	19	53	145	290	520	950	1550
			20	20	55	150	300	550	1000	1650
			25	17	54	140	290	530	1050	1700
			30	19	53	145	290	520	950	1550
			35	17	54	140	290	530	1050	1700
			40	20	55	150	300	550	1000	1650
			45	17	54	140	290	530	-	-
			50	17	54	140	290	530	1050	1700
70	17		54	140	290	530	1050	1700		
90	17	54	140	290	530	-	-			
100	17	54	140	290	530	1050	1700			
急停力矩T2NOT Emergency Stop Torque	N.m	1、2	3 ~ 100	3倍额定输出力矩 (3.0 times of Nominal Output Torque)						
额定输入转速n1 Nominal Input Speed	rpm	1、2	3 ~ 100	5000	3000	3000	3000	3000	1500	1500
最大输入转速n1max Max.Input Speed	rpm	1、2	3 ~ 100	10000	6000	6000	6000	6000	3000	3000
超精密背隙P0 Ultraprecise Backlash	arcmin	1	3 ~ 10	≤5	≤5	≤5	≤5	≤5	≤5	≤5
		2	12 ~ 100	≤8	≤8	≤8	≤8	≤8	≤8	≤8
精密背隙P1 Precise Backlash	arcmin	1	3 ~ 10	≤7	≤7	≤7	≤7	≤7	≤7	≤7
		2	12 ~ 100	≤10	≤10	≤10	≤10	≤10	≤10	≤10
标准背隙P2 Standard Backlash	arcmin	1	3 ~ 10	≤9	≤9	≤9	≤9	≤9	≤9	≤9
		2	12 ~ 100	≤12	≤12	≤12	≤12	≤12	≤12	≤12
扭转刚性 Torsional Rigidity	N.m /arcmin	1、2	3 ~ 100	2.5	6	12	23	45	148	220
容许径向力F2rB Max.Radial Load	N	1、2	3 ~ 100	515	1010	1780	3420	5380	8330	11120
容许轴向力F2aB Max.Axial Load	N	1、2	3 ~ 100	410	600	1500	2650	4670	6460	8560
使用温度 Operating Temp	° C	1、2	3 ~ 100	-10° C ~ +90° C						
使用寿命 Service Life	hr	1、2	3 ~ 100	20,000 (10,000/连续运转continuu operationg)						
效率η Efficiency	%	1	3 ~ 10	≥95%						
		2	12 ~ 100	≥92%						
重量 Weight	kg	1	3 ~ 10	1	1.3	3.5	7.8	16.1	30.0	58.0
		2	12 ~ 100	1.4	2.0	5.6	9.5	19.0	42.0	67.0
安装方向 mounting Position	-	1、2	3 ~ 100	任意方向 Any direction						
噪音值 Noise Level	dBA/1m	1、2	3 ~ 100	62	63	65	70	70	73	75
防护等级 Protection Class	-	1、2	3 ~ 100	Ip65						
润滑 Lubrication		1、2	3 ~ 100	全合成润滑油 Synthetic Lubricant						

减速机转动惯量

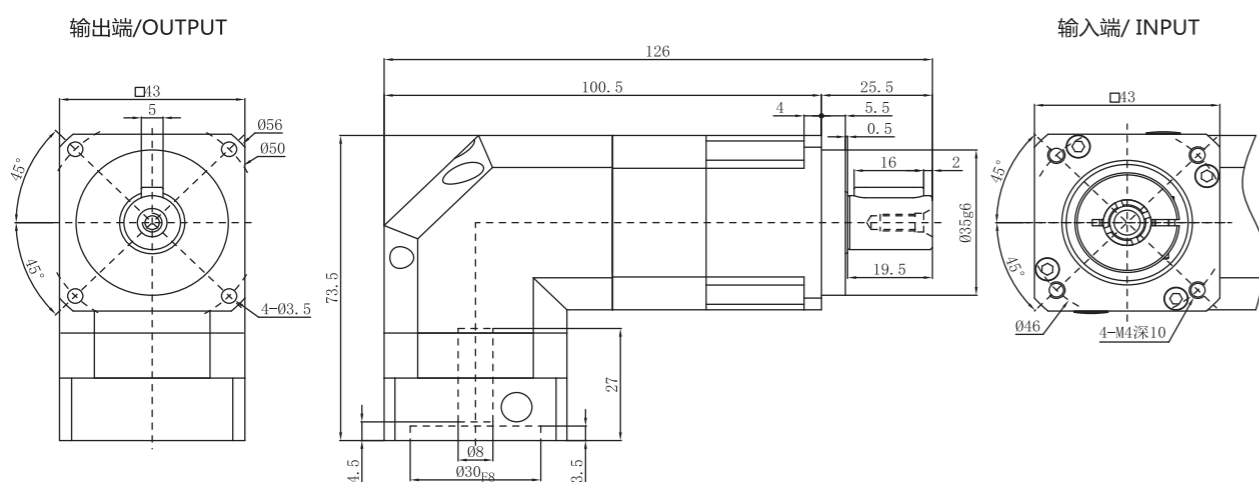
规格Specifications	单位unit	节数Stage	减速比Rat	PGHR 042	PGHR 060	PGHR 090	PGHR 115	PGHR 142	PGHR 180	PGHR 220
转动惯量J1 Inertia	kg.cm2	1	3	0.06	0.23	0.98	2.36	10.10	31.00	79.63
			4	0.06	0.18	0.68	1.68	7.30	26.00	59.30
			5	0.06	0.17	0.66	1.55	6.58	23.80	54.86
			6/7/8	0.05	0.15	0.60	1.48	6.22	23.00	54.32
			9/10/14/18/20	0.06	0.14	0.58	1.45	6.15	22.90	54.00
			12/15/18/20/15	0.05	0.18	0.68	2.40	6.52	24.27	54.37
		2	30/35/40	0.05	0.15	0.68	1.68	6.52	23.82	54.37
			45/50/70	0.05	0.15	0.60	1.51	6.21	22.94	53.30
			80/90/100	0.05	0.14	0.60	1.41	6.10	22.75	52.45

外形尺寸图表 / OUTLINE DIMENSION SHEET

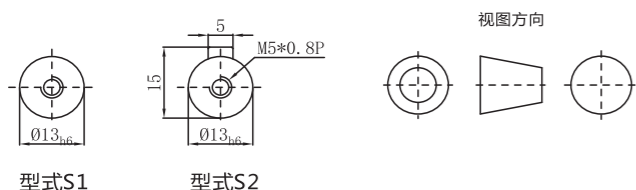
PGHR 042-L1



PGHR 042-L2



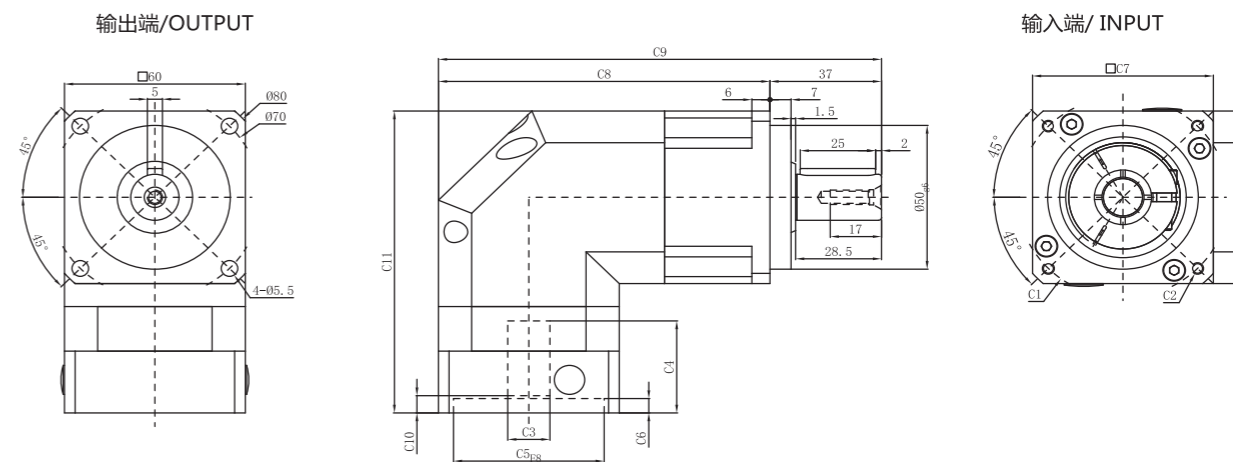
输出轴径/Output Diameter



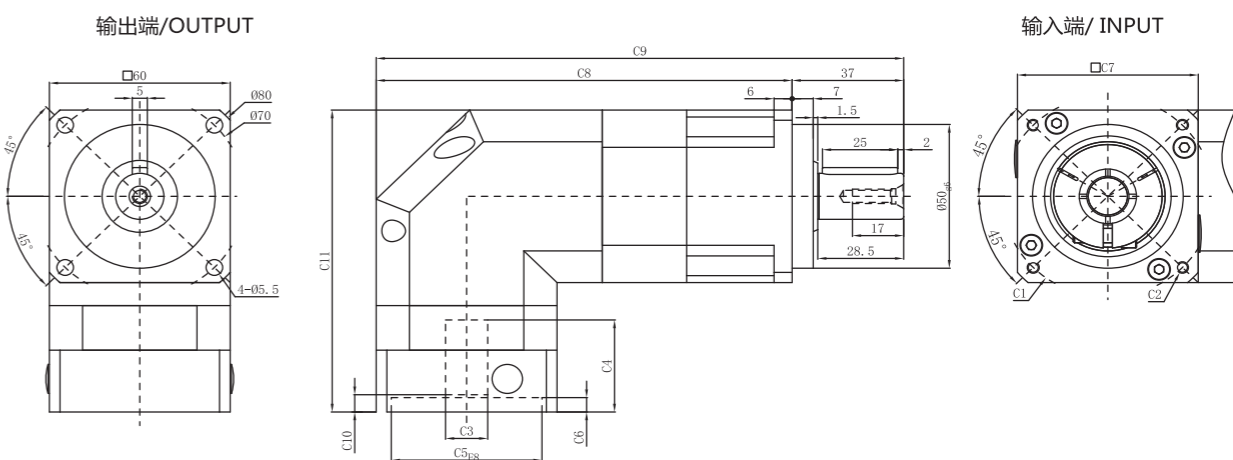
*输入马达连接板之尺寸, 可根据客户要求单独定做。
*The input motor specific dimensions could be customised.

外形尺寸图表 / OUTLINE DIMENSION SHEET

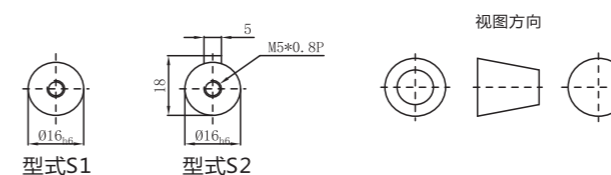
PGHR060-L1



PGHR060-L2



输出轴径/Output Diameter



*输入马达连接板之尺寸, 可根据客户要求单独定做。
*The input motor specific dimensions could be customised.

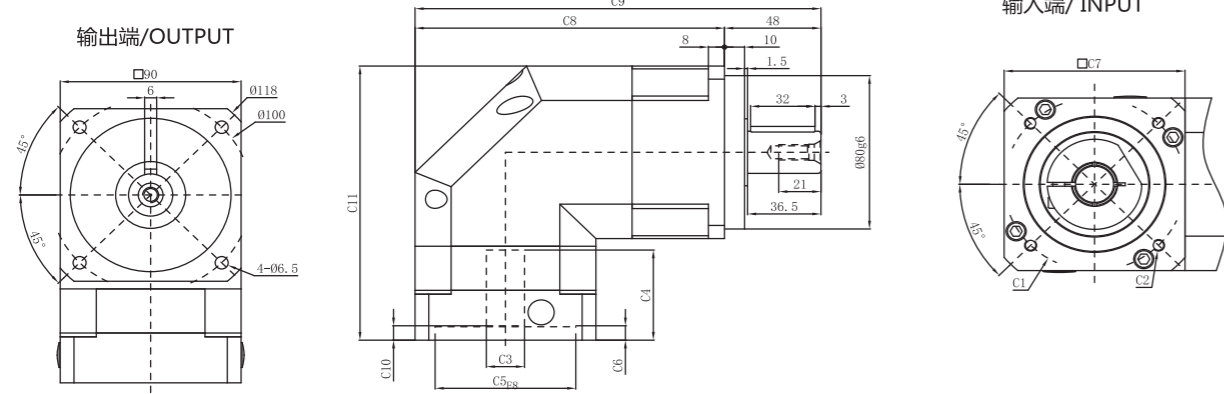
尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11
PGHR 060-L1	$\phi 46$	4-M4x12,4-M5x12	$\leq \phi 8$	37.5	$\phi 30$	10.5	60	110	147	11.5	110.5
	$\phi 66.7$	4-M4x12	$\leq \phi 8$	32	$\phi 38.1$	5	60	110	147	5.5	105
	$\phi 70$	4-M4x10,4-M5x12	$\leq \phi 14$	32	$\phi 50$	5	60	110	147	6	105
	$\phi 75$	4-M4x12,4-M5x12	$\leq \phi 14$	32	$\phi 60$	5	66	113	150	6	105
PGHR 060-L2	$\phi 90$	4-M6x15	$\leq \phi 19$	42	$\phi 70$	7	80	120	160	11	117
	$\phi 100$	4-M6x15	$\leq \phi 19$	44	$\phi 80$	7	90	120	160	11	117
	$\phi 46$	4-M4x12,4-M5x12	$\leq \phi 8$	37.5	$\phi 30$	10.5	60	138	175	11.5	110.5
	$\phi 66.7$	4-M4x12	$\leq \phi 8$	32	$\phi 38.1$	5	60	138	175	5.5	105
PGHR 060-L2	$\phi 70$	4-M4x10,4-M5x12	$\leq \phi 14$	32	$\phi 50$	5	60	138	175	6	105
	$\phi 75$	4-M4x12,4-M5x12	$\leq \phi 14$	32	$\phi 60$	5	66	141	178	6	105
	$\phi 90$	4-M6x15	$\leq \phi 19$	42	$\phi 70$	7	80	148	188	11	117
	$\phi 100$	4-M6x15	$\leq \phi 19$	44	$\phi 80$	7	90	148	188	11	117

* C1~C11 是公制标准马达连接板之尺寸, 可根据客户要求单独定做。

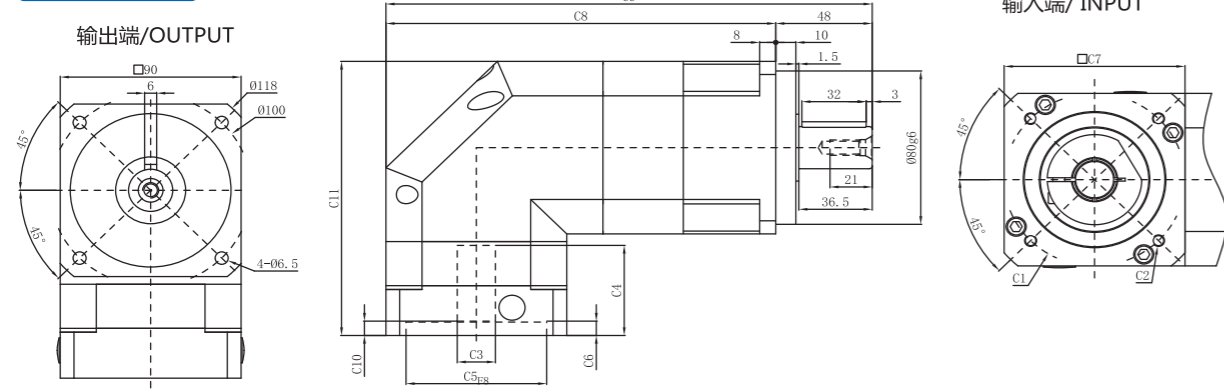
* C1~C11 are motor (metric standard) specific dimensions, which could be customised.

外形尺寸图表 / OUTLINE DIMENSION SHEET

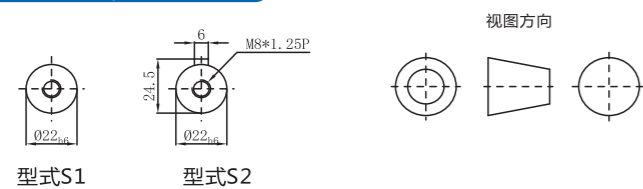
PGHR090-L1



PGHR090-L2



输出轴径/Output Diameter

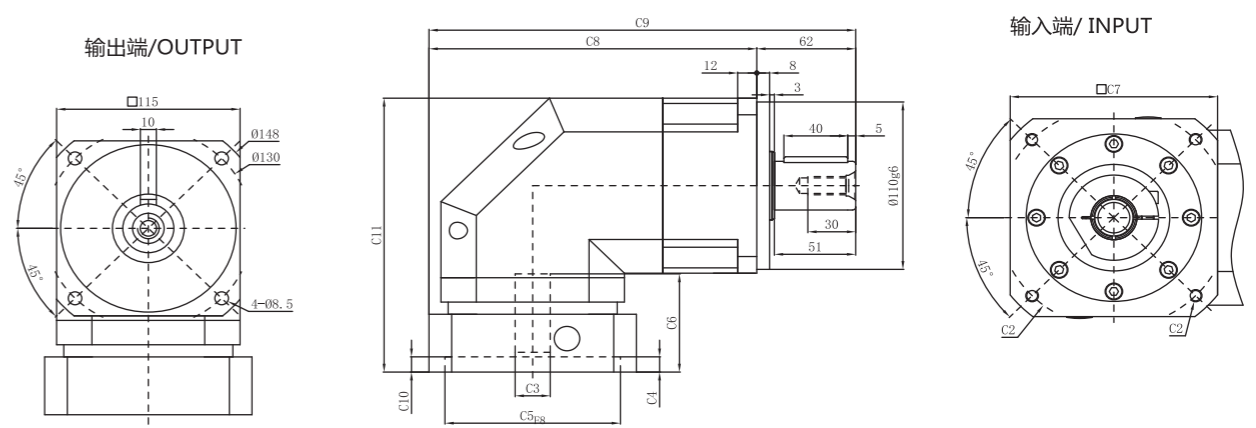


尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11
PGHR090-L1	φ 70	4-M4x10,4-M5x12	≤ φ 14	47	φ 50	4	90	154	202	6.5	143
	φ 75	4-M4x12,4-M5x12	≤ φ 14	47	φ 60	5.5	90	154	202	6.5	143
	φ 90	4-M5x15,4-M6x15	≤ φ 19	47	φ 70	7	90	154	202	7.5	143
	φ 98.4	4-M5x15,4-M6x15	≤ φ 14	47.5	φ 73	7	90	154	202	7.5	143
	φ 98.4	4-M6x15	≤ φ 14	47.5	φ 60	7	90	154	202	7.5	143
	φ 100	4-M6x15	≤ φ 19	47.5	φ 80	7	90	154	202	12.5	143
	φ 115	4-M8x20	≤ φ 24	59	φ 95	10	100	159	207	12.5	155
	φ 130	4-M8x20	≤ φ 24	59	φ 95	10	115	166.5	214.5	12.5	155
	φ 145	4-M8x20	≤ φ 24	59	φ 110	10	130	174	262	12.5	155
	φ 145	4-M8x20	≤ φ 24	68	φ 110	10	130	174	262	21.5	164
PGHR090-L2	φ 70	4-M4x10,4-M5x12	≤ φ 14	47	φ 50	4	90	194	262	6.5	143
	φ 75	4-M4x12,4-M5x12	≤ φ 14	47	φ 60	5.5	90	194	262	6.5	143
	φ 90	4-M5x15,4-M6x15	≤ φ 19	47	φ 70	7	90	194	262	7.5	143
	φ 98.4	4-M5x15,4-M6x15	≤ φ 14	47.5	φ 73	7	90	194	262	7.5	143
	φ 98.4	4-M6x15	≤ φ 14	47.5	φ 60	7	90	194	262	7.5	143
	φ 100	4-M6x15	≤ φ 19	47.5	φ 80	7	90	194	262	12.5	143
	φ 115	4-M8x20	≤ φ 24	59	φ 95	10	100	199	267	12.5	155
	φ 130	4-M8x20	≤ φ 24	59	φ 95	10	115	206.5	254.5	12.5	155
	φ 145	4-M8x20	≤ φ 24	59	φ 110	10	130	214	272	12.5	155
	φ 145	4-M8x20	≤ φ 24	68	φ 110	10	130	214	272	21.5	164

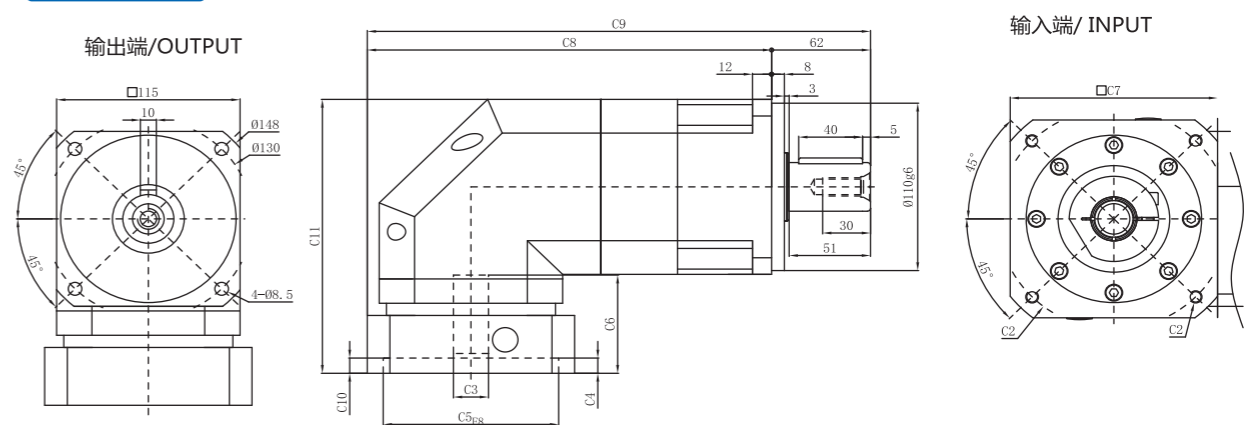
* C1~C11 是公制标准马达连接板之尺寸,可根据客户要求单独定做。
 * C1~C11 are motor (metric standard) specific dimensions, which could be customised.

外形尺寸图表 / OUTLINE DIMENSION SHEET

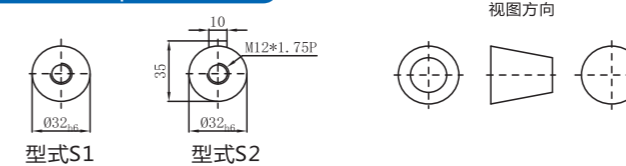
PGHR115-L1



PGHR115-L2



输出轴径/Output Diameter

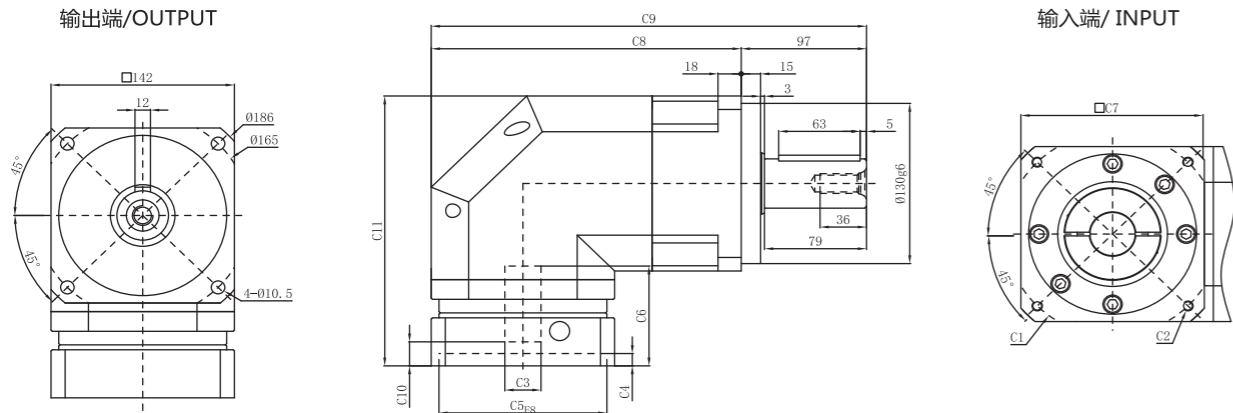


尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11
PGHR115-L1	φ 90	4-M5x15,4-M6x15	≤ φ 19	62	φ 70	7	115	198	260	12	180
	φ 100	4-M6x15	≤ φ 19	62	φ 80	7	115	198	260	12	180
	φ 115	4-M8x20	≤ φ 24	62	φ 95	10	115	198	260	13	180
	φ 130	4-M8x20	≤ φ 24	62	φ 95	10	115	198	260	13	180
	φ 132	4-M8x20	≤ φ 24	62	φ 95	10	115	198	260	13	180
	φ 145	4-M8x20	≤ φ 24	62	φ 110	10	130	205.5	267.5	13	180
	φ 145	4-M8x20	≤ φ 24	71	φ 110	10	130	205.5	267.5	22	189
	φ 90	4-M5x15,4-M6x15	≤ φ 19	62	φ 70	7	115	246	260	12	180
	φ 100	4-M6x15	≤ φ 19	62	φ 80	7	115	246	260	12	180
	φ 115	4-M8x20	≤ φ 24	62	φ 95	10	115	246	260	13	180
PGHR115-L2	φ 130	4-M8x20	≤ φ 24	62	φ 95	10	115	246	260	13	180
	φ 132	4-M8x20	≤ φ 24	62	φ 95	10	115	246	260	13	180
	φ 145	4-M8x20	≤ φ 24	62	φ 110	10	130	253.5	315.5	13	180
	φ 145	4-M8x20	≤ φ 24	71	φ 110	10	130	253.5	315.5	22	189

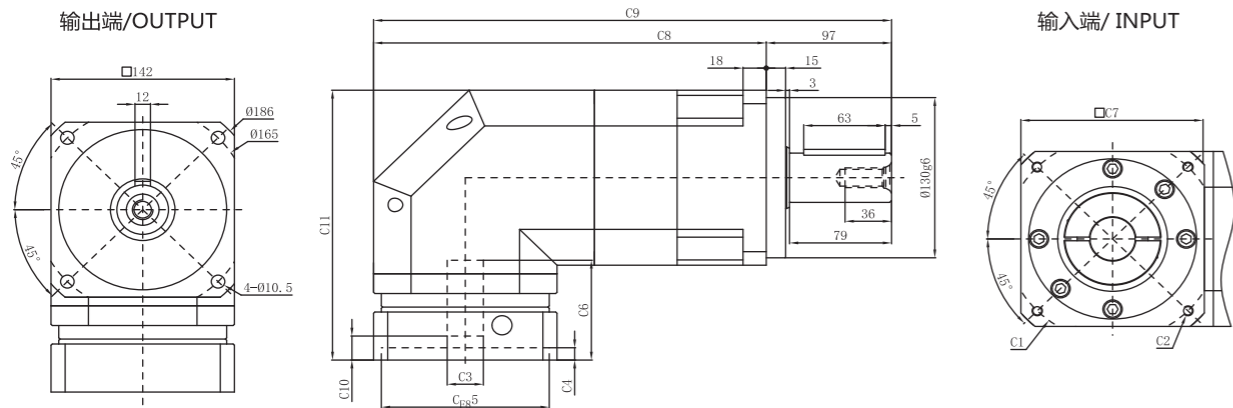
* C1~C11 是公制标准马达连接板之尺寸,可根据客户要求单独定做。
 * C1~C11 are motor (metric standard) specific dimensions, which could be customised.

外形尺寸图表 / OUTLINE DIMENSION SHEET

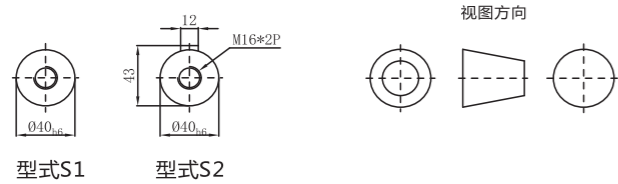
PGHR142-L1



PGHR142-L2



输出轴径/Output Diameter



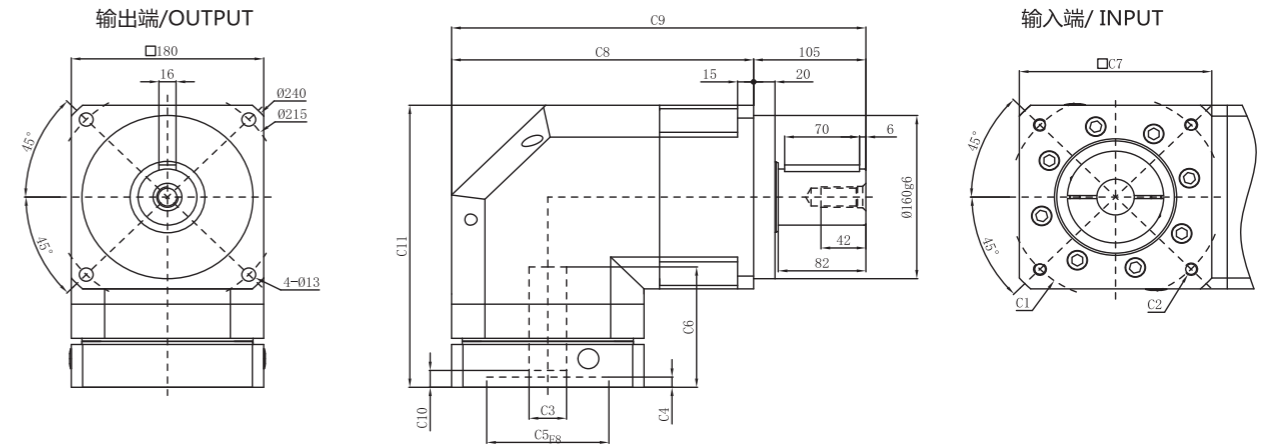
*输入马达连接板之尺寸, 可根据客户要求单独定做。
*The input motor specific dimensions could be customised.

尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11
PGHR142-L1	φ 130	4-M8x20	≤ φ 24	81	φ 110	10	142	240	337	19.5	219
	φ 145	4-M8x20	≤ φ 28	81	φ 110	10	142	240	337	19.5	219
	φ 165	4-M10x25, 4-M12x35	≤ φ 32	81	φ 130	10	142	240	337	19.5	219
	φ 200	4-M12x35	≤ φ 42	83	φ 114.3	8	180	259	356	21.5	221
	φ 200	4-M12x35	≤ φ 42	115	φ 114.3	8	180	259	356	53.5	253
PGHR142-L2	φ 130	4-M8x20	≤ φ 24	81	φ 110	10	142	304	401	19.5	219
	φ 145	4-M8x20	≤ φ 28	81	φ 110	10	142	304	401	19.5	219
	φ 165	4-M10x25, 4-M12x35	≤ φ 32	81	φ 130	10	142	304	401	19.5	219
	φ 200	4-M12x35	≤ φ 42	83	φ 114.3	8	180	323	420	21.5	221
	φ 200	4-M12x35	≤ φ 42	115	φ 114.3	8	180	323	420	53.5	253
φ 215	4-M12x35	≤ φ 42	83	φ 180	8	190	328	425	21.5	221	

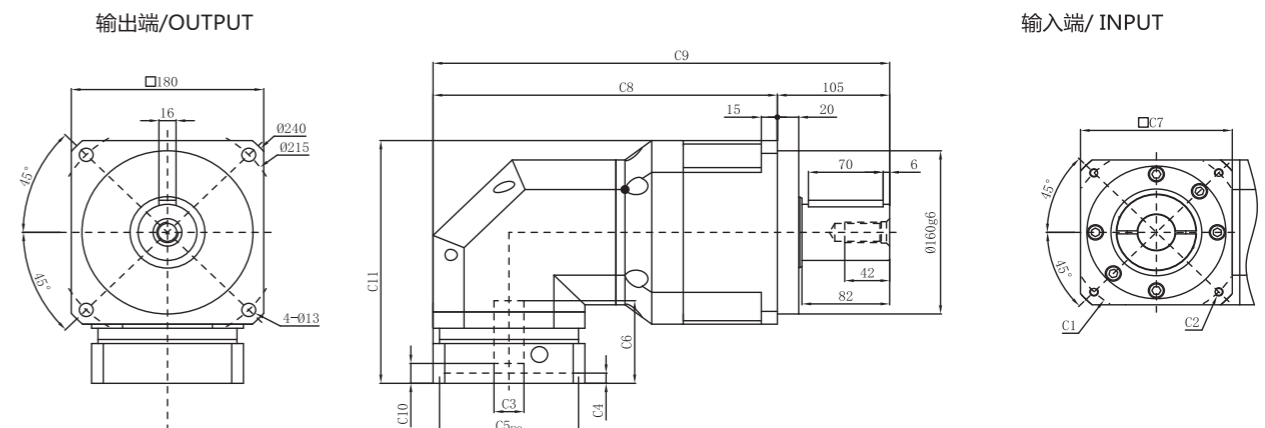
* C1~C11 是公制标准马达连接板之尺寸, 可根据客户要求单独定做。
* C1~C11 are motor (metric standard) specific dimensions, which could be customised.

外形尺寸图表 / OUTLINE DIMENSION SHEET

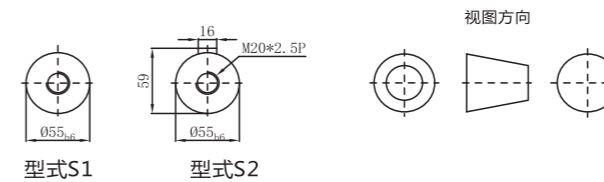
PGHR180-L1



PGHR180-L2



输出轴径/Output Diameter



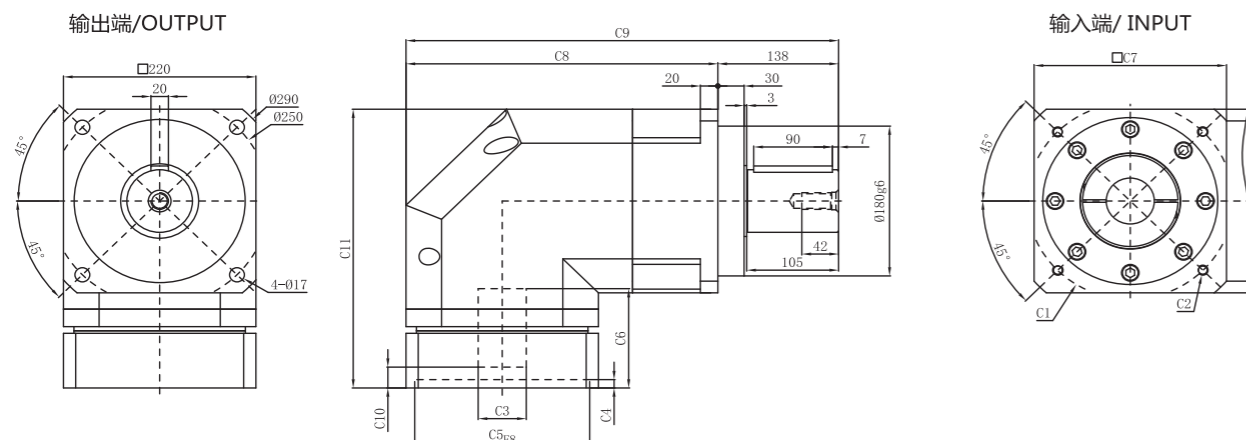
*输入马达连接板之尺寸, 可根据客户要求单独定做。
*The input motor specific dimensions could be customised.

尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11
PGHR180-L1	φ 165	4-M10x25, 4-M12x35	≤ φ 32	118	φ 130	10	180	282.5	387.5	16.5	276.5
	φ 200	4-M12x35	≤ φ 42	118	φ 114.3	10	180	282.5	387.5	16.5	276.5
	φ 215	4-M14x35	≤ φ 42	118	φ 180	10	190	287.5	392.5	16.5	276.5
PGHR180-L2	φ 130	4-M8x20	≤ φ 24	81	φ 110	10	142	322	427	19.5	238
	φ 145	4-M8x20	≤ φ 24	81	φ 110	10	142	322	427	19.5	238
	φ 165	4-M10x25, 4-M12x35	≤ φ 32	81	φ 130	10	142	322	427	19.5	238
φ 200	4-M12x35	≤ φ 42	83	φ 114.3	8	180	341	446	21.5	240	
φ 200	4-M10x25, 4-M12x35	≤ φ 42	115	φ 114.3	8	180	341	446	53.5	272	
φ 215	4-M14x35	≤ φ 42	83	φ 180	8	190	346	451	21.5	240	

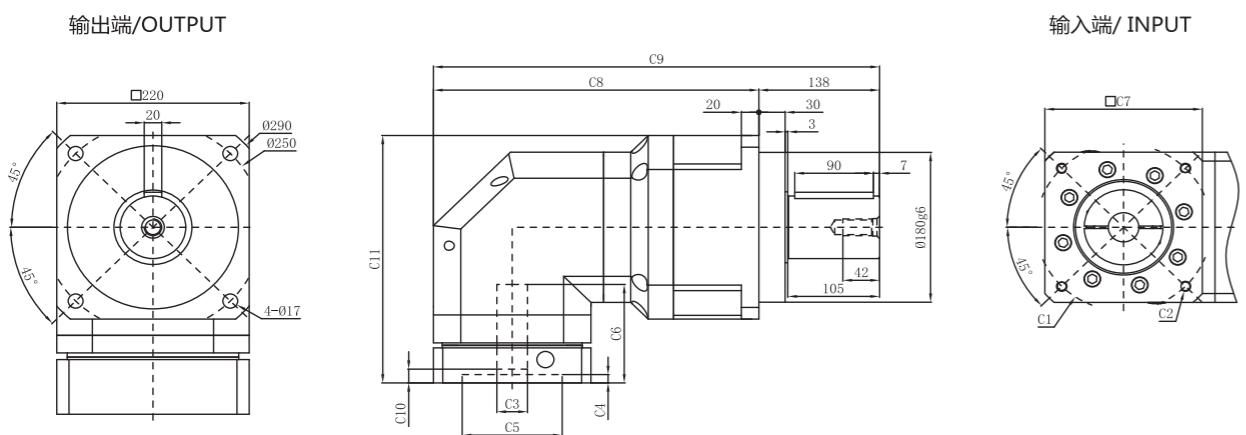
* C1~C11 是公制标准马达连接板之尺寸, 可根据客户要求单独定做。
* C1~C11 are motor (metric standard) specific dimensions, which could be customised.

外形尺寸图表 / OUTLINE DIMENSION SHEET

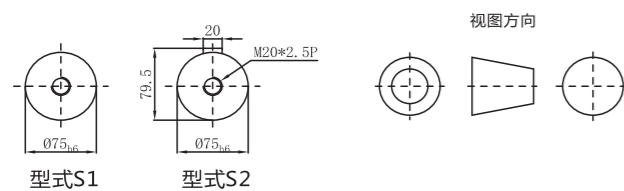
PGHR 220-L1



PGHR 220-L2



输出轴径/Output Diameter



*输入马达连接板之尺寸, 可根据客户要求单独定做。
*The input motor specific dimensions could be customised.

尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11
PGHR 220-L1	φ 200	4-M12x35	≤ φ 42	119	φ 114.3	10	220	356.5	494.5	25	334
	φ 215	4-M14x35	≤ φ 42	119	φ 180	10	220	356.5	494.5	25	334
	φ 235	4-M12x35, 4-M14x35	≤ φ 55	119	φ 200	10	220	356.5	494.5	25	334
PGHR 220-L2	φ 165	4-M10x25, 4-M12x35	≤ φ 32	118	φ 130	10	180	372	510	16.5	296.5
	φ 200	4-M12x35	≤ φ 42	118	φ 114.3	10	180	372	510	16.5	296.5
	φ 215	4-M12x35, 4-M14x35	≤ φ 42	118	φ 180	10	190	377	515	16.5	296.5
	φ 235	4-M12x35, 4-M14x35	≤ φ 55	150	φ 200	10	220	392	530	48.5	328.5

* C1~C11 是公制标准马达连接板之尺寸, 可根据客户要求单独定做。
* C1~C11 are motor (metric standard) specific dimensions, which could be customised.



PGF系列精密行星减速机

PGF series precision planetary reducer



- PGF047
- PGF064
- PGF090
- PGF110
- PGF140
- PGF200
- PGF255

PGF系列减速机核心特性 The Core features of PGF series reducer

1. 采用斜齿齿轮传动, 经渗碳淬火处理, 齿向齿廓修形处理, 确保运行低噪音、平稳; 承载能力较直齿提高20%;
 2. 整体式输出轴, 行星轮两端轴承支撑, 实现高精度、高强度;
 3. 回程间隙小, 精密型单级可以做到3arcmin以内;
1. Helical gear transmission, carburizing and quenching treatment, tooth profile modification treatment, Ensure low noise and stable operation; The bearing capacity is 20% higher than that of straight teeth;
 2. The integral output shaft is supported by bearings at both ends of the planetary gear to achieve high precision and high strength;
 3. The return clearance is small, and the precision single stage can reach within 3 arcmin;

减速机性能资料 / GEAR BOX PERFORMANCE INFORMATION

规格Specifications	单位unit	节数Stage	减速比Ratio	PGF047	PGF064	PGF090	PGF110	PGF140	PGF200	PGF255
额定输出力矩T2N Nominal Output Torque	N.m	1	4	21	50	142	285	582	1145	1650
			5	25	66	176	335	600	1220	1700
			7	21	54	145	310	540	1120	1500
			10	16	45	122	250	500	620	1250
		2	16	21	50	142	285	582	1060	1600
			20	21	50	142	285	582	1120	1700
			25	25	66	176	335	600	1220	2000
			35	25	66	176	335	600	1220	2000
			40	21	50	142	285	582	1145	1700
			50	25	66	176	335	600	1220	2000
70	21	54	145	310	540	1120	1800			
100	16	45	122	250	500	620	1250			
急停力矩T2NOT Emergency Stop Torque	N.m	1、2	4~100	3倍额定输出力矩 (3.0 times of Nominal Output Torque)						
额定输入转速n1 Nominal Input Speed	rpm	1、2	4~100	5000	5000	5000	4000	3000	3000	2000
最大输入转速n1max Max.Input Speed	rpm	1、2	4~100	10000	10000	10000	8000	6000	6000	4000
超精密背隙P0 Ultraprecise Backlash	arcmin	1	4~10	≤2	≤2	≤2	≤1	≤1	≤1	≤1
		2	16~100	≤4	≤4	≤4	≤3	≤3	≤3	≤3
精密背隙P1 Precise Backlash	arcmin	1	4~10	≤4	≤4	≤4	≤3	≤3	≤3	≤3
		2	16~100	≤6	≤6	≤6	≤5	≤5	≤5	≤5
标准背隙P2 Standard Backlash	arcmin	1	4~10	≤6	≤6	≤6	≤5	≤5	≤5	≤5
		2	16~100	≤8	≤8	≤8	≤7	≤7	≤7	≤7
扭转刚性 Torsional Rigidity	N.m /arcmin	1、2	4~100	6	11	30	84	150	435	1006
最大弯曲力矩M2kB Max.Radial Load	N	1、2	4~100	40	120	241	417	1320	3200	5900
容许轴向力F2aB Max.Axial Load	N	1、2	4~100	960	1800	2000	4550	6110	5300	10600
使用温度 Operating Temp	°C	1、2	4~100	-10° C ~ +90° C						
使用寿命 Service Life	hr	1、2	4~100	20000 (10000/连续运转)						
效率η Efficiency	%	1	4~10	≥97%						
		2	16~100	≥94%						
重量 Weight	kg	1	4~10	0.8	1.2	3.3	7.5	14.6	32.4	
		2	16~100	1.1	1.8	4.5	9.2	18.7	37.5	
安装方向 mounting Position		1、2	3~100	任意方向 Any direction						
噪音值 Noise Level	dB(A)/m	1、2	3~100	60	60	63	65	68	70	73
防护等级 Protection Class		1、2	3~100	Ip65						
润滑 Lubrication		1、2	3~100	全合成润滑脂油 Synthetic Lubricant						

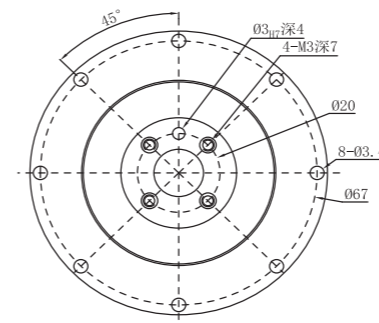
减速机转动惯量

规格Specifications	单位unit	节数Stage	减速比Ratio	PGF047	PGF064	PGF090	PGF110	PGF140	PGF200	PGF255
转动惯量J1 Inertia	kg.cm2	1	4	0.04	0.18	0.67	1.66	7.17	24.92	58.30
			5	0.04	0.17	0.65	1.50	6.52	23.42	53.30
			7	0.04	0.14	0.60	1.45	6.17	22.64	51.02
			9	0.04	0.14	0.58	1.41	6.10	22.64	50.96
		2	10	0.04	0.14	0.58	1.41	6.10	22.72	50.55
			16	0.04	0.18	0.18	0.65	2.80	7.56	23.22
			20	0.04	0.17	0.17	0.65	2.80	7.56	23.22
			25	0.04	0.17	0.17	0.65	2.80	7.56	23.22
			35	0.04	0.14	0.14	0.60	2.59	7.56	23.22
			40	0.04	0.14	0.14	0.60	2.59	7.06	22.51
			50	0.04	0.14	0.14	0.58	2.54	7.06	22.51
			70	0.04	0.14	0.14	0.58	2.54	7.06	22.51
			90	0.04	0.14	0.14	0.58	2.54	7.06	22.51
			100	0.04	0.14	0.14	0.58	2.54	7.06	22.51

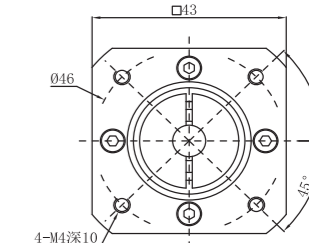
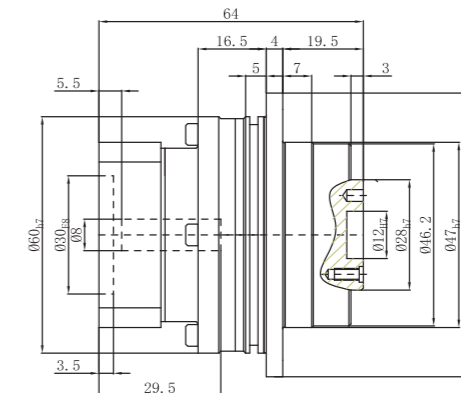
外形尺寸图表 / OUTLINE DIMENSION SHEET

PGF 047-L1

输出端/OUTPUT

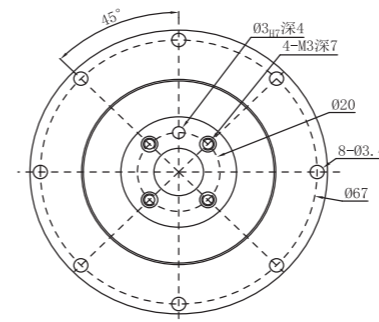


输入端/INPUT

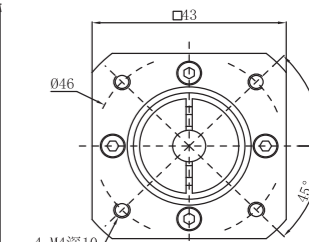
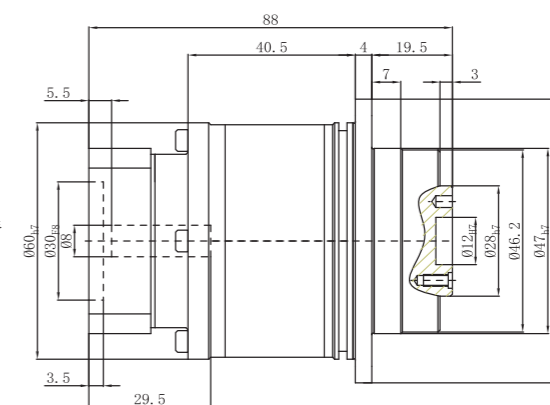


PGF 047-L2

输出端/OUTPUT

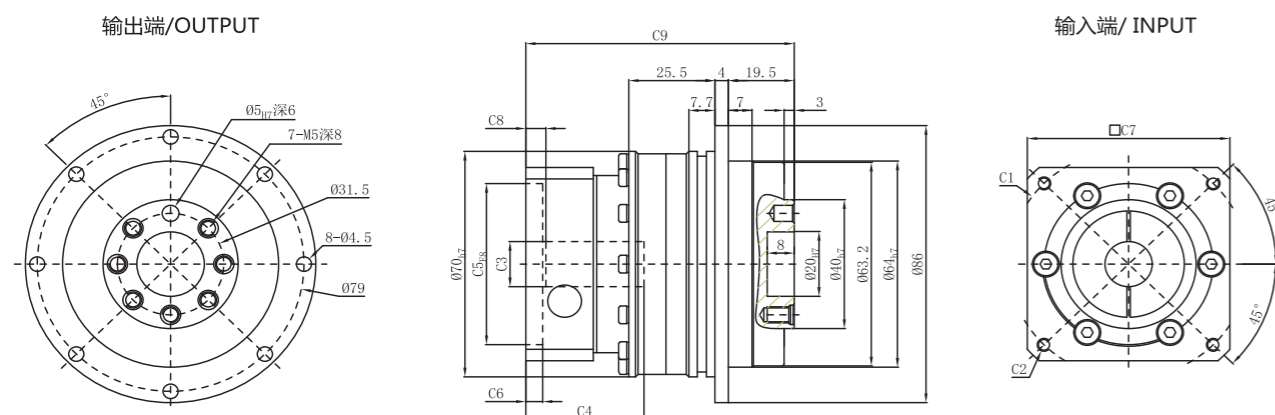


输入端/INPUT

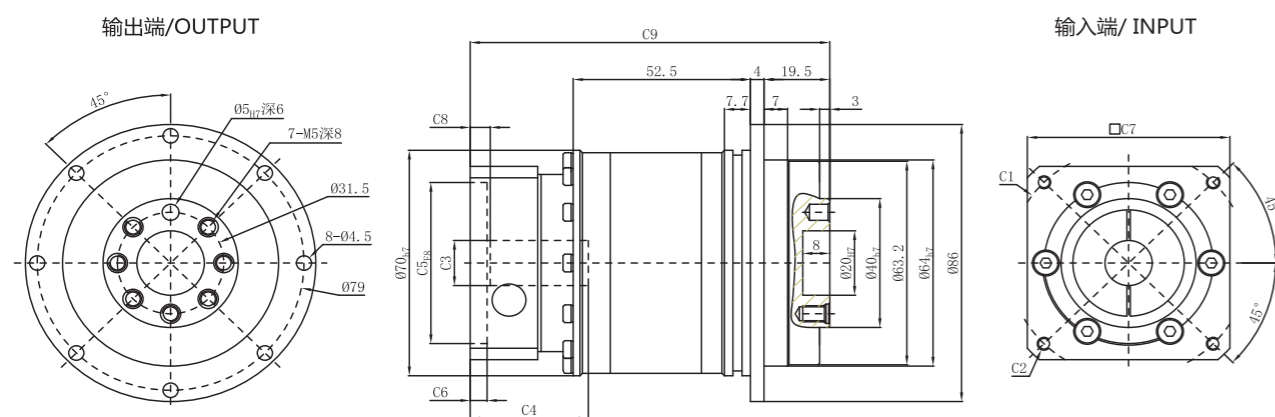


外形尺寸图表 / OUTLINE DIMENSION SHEET

PGF064-L1



PGF064-L2

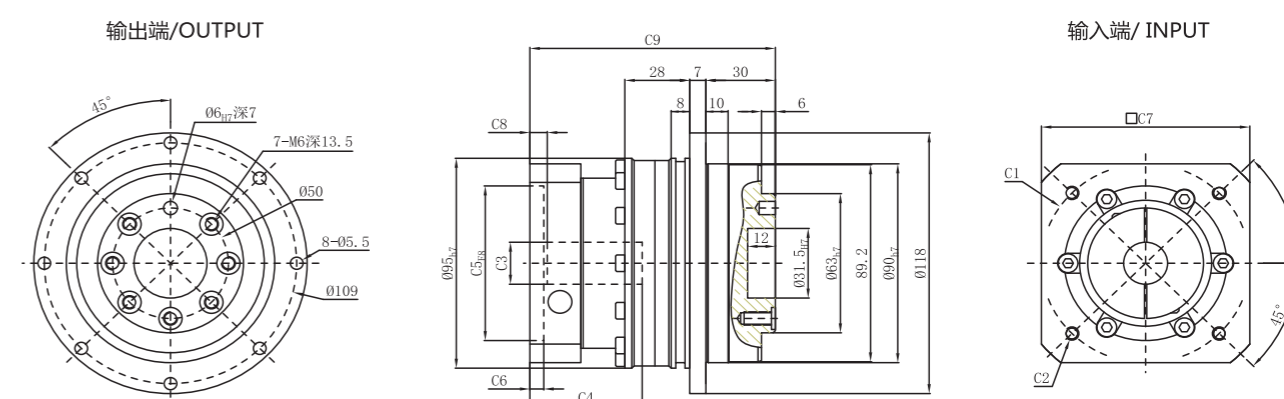


尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9
PGF064-L1	φ 46	4-M4x10	≦ φ 8	35	φ 30	5	60	5.5	79.5
	φ 66.7	4-M4x10	≦ φ 8	35	φ 38.1	5	60	5.5	79.5
	φ 70	4-M4x10,4-M5x10	≦ φ 14	35	φ 50	5	60	5.5	79.5
	φ 75	4-M4x10,4-M5x10	≦ φ 14	35	φ 60	5	66	5.5	79.5
PGF064-L2	φ 46	4-M4x10	≦ φ 8	35	φ 30	5	60	5.5	106.5
	φ 66.7	4-M4x10	≦ φ 8	35	φ 38.1	5	60	5.5	106.5
	φ 70	4-M4x10,4-M5x10	≦ φ 14	35	φ 50	5	60	5.5	106.5
	φ 75	4-M4x10,4-M5x10	≦ φ 14	35	φ 60	5	66	5.5	106.5

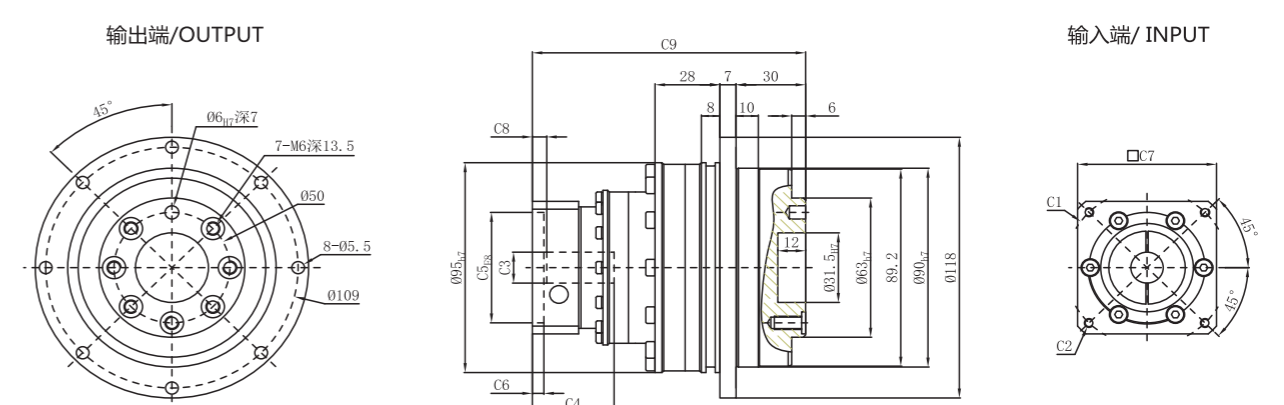
* C1~C9 是公制标准马达连接板之尺寸,可根据客户要求单独定做。
* C1~C9 are motor (metric standard) specific dimensions, which could be customised.

外形尺寸图表 / OUTLINE DIMENSION SHEET

PGF090-L1



PGF090-L2

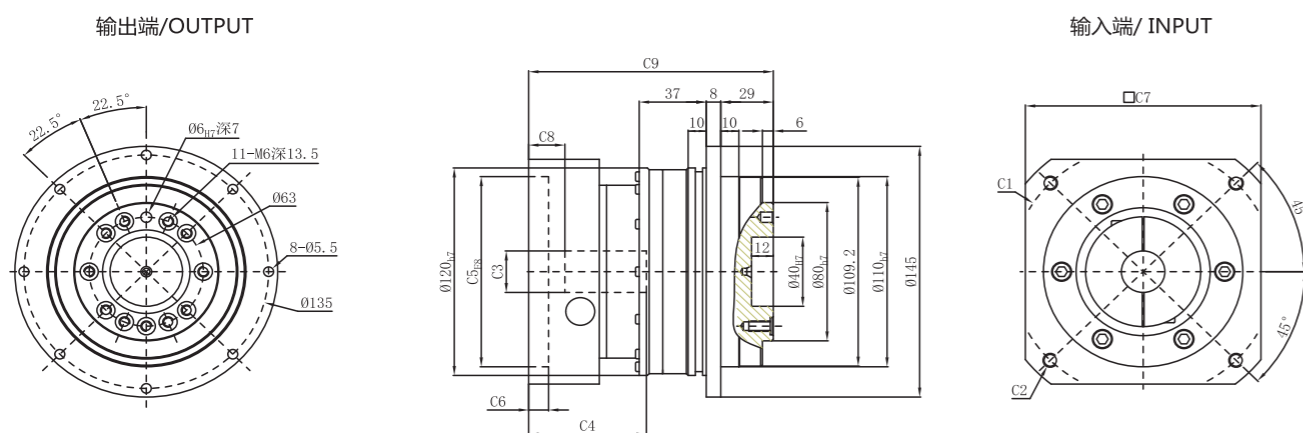


尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9
PGF090-L1	φ 90	4-M5x15,4-M6x15	≦ φ 24	47	φ 70	6	90	7	106
	φ 98.4	4-M5x15,4-M6x15	≦ φ 14	47	φ 73	6	90	7	106
	φ 100	4-M6x15	≦ φ 24	47	φ 80	6	90	7	106
	φ 115	4-M6x20,4-M8x20	≦ φ 24	59	φ 95	11	100	19	118
	φ 130	4-M8x20	≦ φ 24	59	φ 95	11	115	19	118
	φ 145	4-M8x20	≦ φ 24	59	φ 110	11	130	19	118
PGF090-L2	φ 145	4-M8x20	≦ φ 24	70	φ 110	11	130	30	129
	φ 70	4-M4x10,4-M5x10	≦ φ 14	35	φ 50	5	60	5.5	118
	φ 90	4-M5x15,4-M6x15	≦ φ 24	47	φ 70	6	90	7	139.5
	φ 98.4	4-M5x15,4-M6x15	≦ φ 14	47	φ 73	6	90	7	139.5
	φ 100	4-M6x15	≦ φ 24	47	φ 80	6	90	7	139.5
	φ 115	4-M6x20,4-M8x20	≦ φ 24	59	φ 95	11	100	19	151.5
PGF090-L2	φ 130	4-M8x20	≦ φ 24	59	φ 95	11	115	19	151.5
	φ 145	4-M8x20	≦ φ 24	59	φ 110	11	130	19	151.5
	φ 145	4-M8x20	≦ φ 24	70	φ 110	11	130	30	162.5

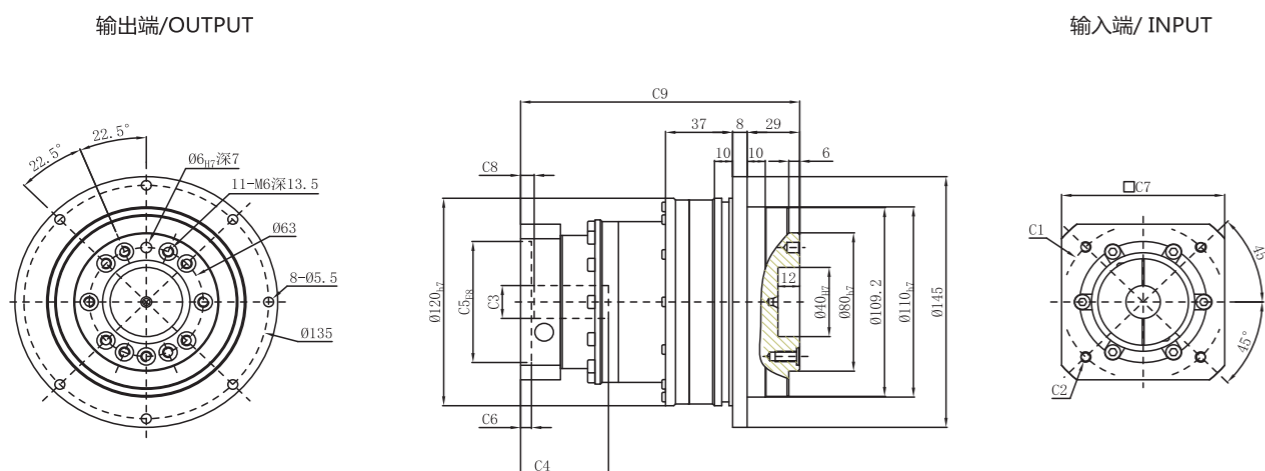
* C1~C9 是公制标准马达连接板之尺寸,可根据客户要求单独定做。
* C1~C9 are motor (metric standard) specific dimensions, which could be customised.

外形尺寸图表 / OUTLINE DIMENSION SHEET

PGF110-L1



PGF110-L2



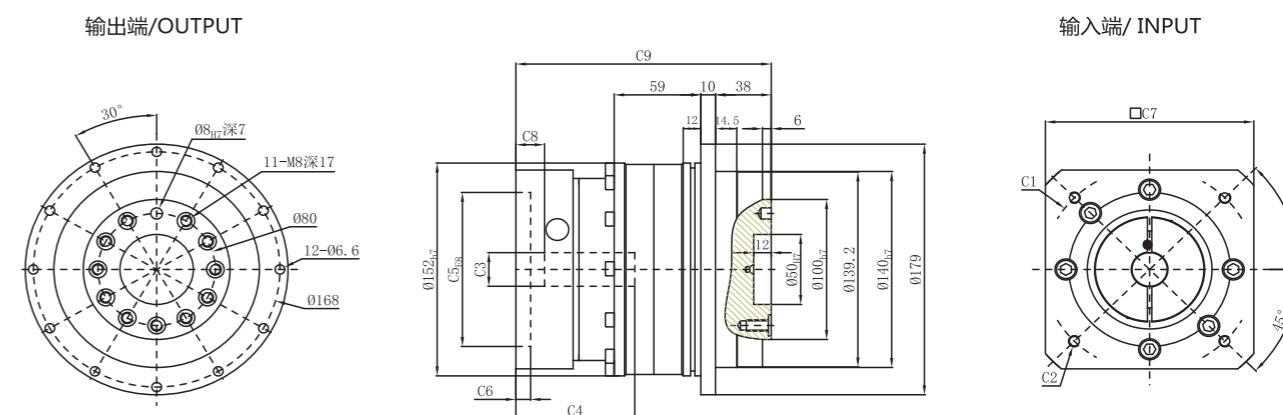
尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9
PGF110-L1	φ 115	4-M6x20,4-M8x20	≤ φ 24	61	φ 95	11	115	17	132
	φ 130	4-M8x20	≤ φ 24	61	φ 95	11	115	17	132
	φ 145	4-M8x20	≤ φ 24	64	φ 110	11	130	19	135
	φ 145	4-M8x20	≤ φ 24	71	φ 110	11	130	26	142
PGF110-L2	φ 90	4-M5x15,4-M6x15	≤ φ 19	47	φ 70	6	90	7	154
	φ 115	4-M8x20	≤ φ 24	59	φ 95	11	115	19	166
	φ 130	4-M8x20	≤ φ 24	59	φ 95	11	115	19	166
	φ 145	4-M8x20	≤ φ 24	59	φ 110	11	130	19	166
φ 145	4-M8x20	≤ φ 24	70	φ 110	11	130	30	177	

* C1~C9 是公制标准马达连接板之尺寸,可根据客户要求单独定做。

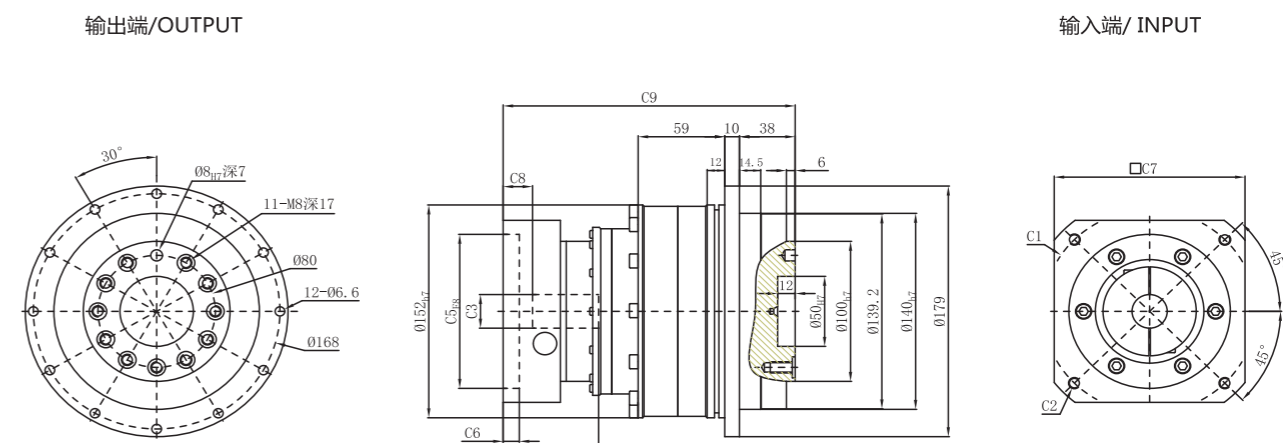
* C1~C9 are motor (metric standard) specific dimensions, which could be customised.

外形尺寸图表 / OUTLINE DIMENSION SHEET

PGF140-L1



PGF140-L2



尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9
PGF140-L1	φ 145	4-M8x20	≤ φ 24	81	φ 110	10	142	19.5	174
	φ 165	4-M10x30	≤ φ 28	81	φ 130	10	142	19.5	174
	φ 200	4-M12x35	≤ φ 42	83	φ 114.3	8	180	21.5	176
PGF140-L2	φ 145	4-M8x25	≤ φ 24	65	φ 110	11	142	20	199
	φ 165	4-M10x30	≤ φ 28	65	φ 130	10	142	20	199
	φ 200	4-M12x35	≤ φ 42	83	φ 114.3	8	180	21.5	239.5

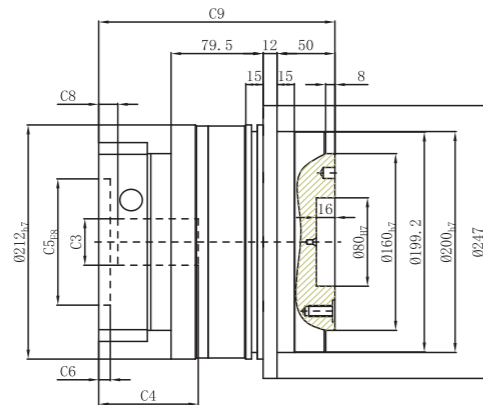
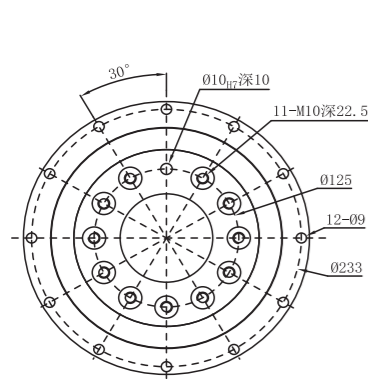
* C1~C9 是公制标准马达连接板之尺寸,可根据客户要求单独定做。

* C1~C9 are motor (metric standard) specific dimensions, which could be customised.

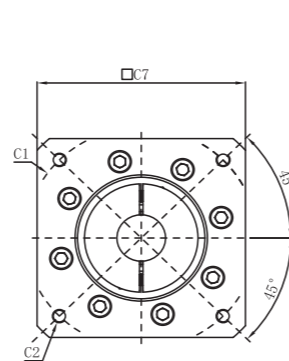
外形尺寸图表 / OUTLINE DIMENSION SHEET

PGF200-L1

输出端/OUTPUT



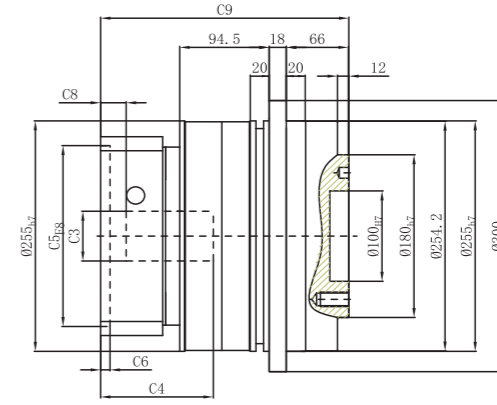
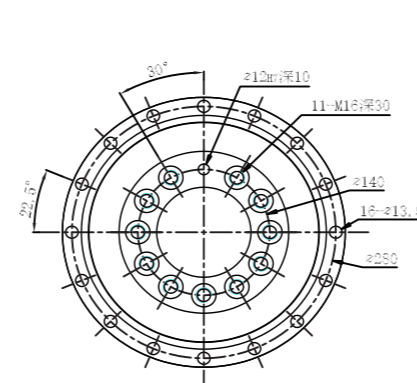
输入端/INPUT



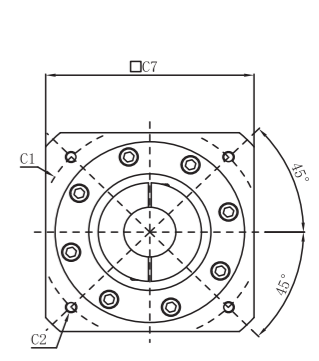
外形尺寸图表 / OUTLINE DIMENSION SHEET

PGF255-L1

输出端/OUTPUT

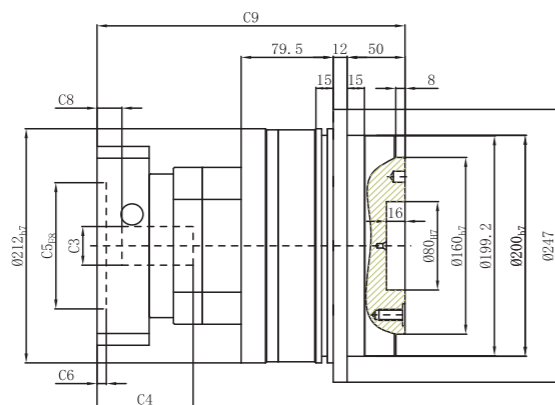
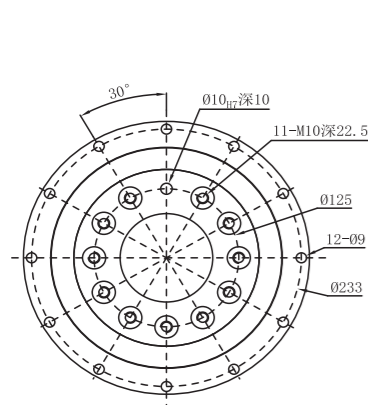


输入端/INPUT

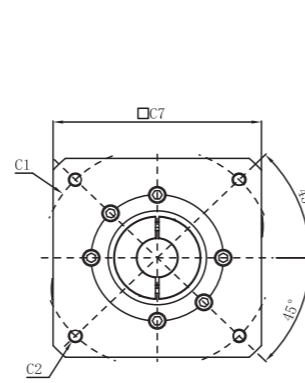


PGF200-L2

输出端/OUTPUT

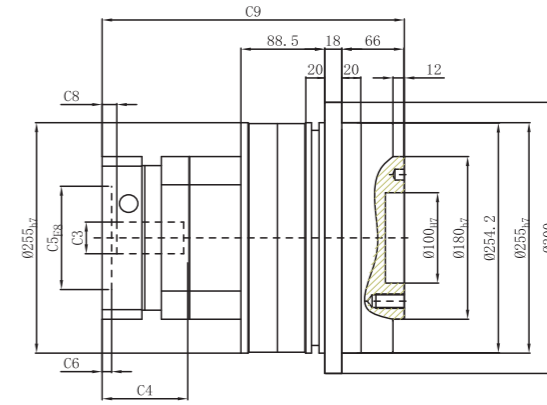
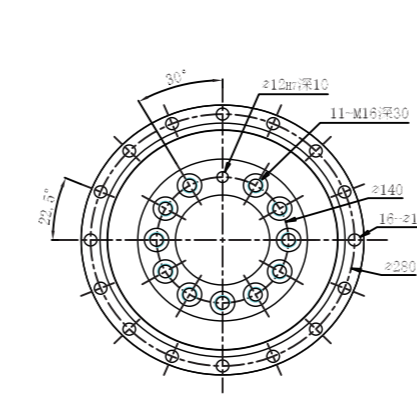


输入端/INPUT

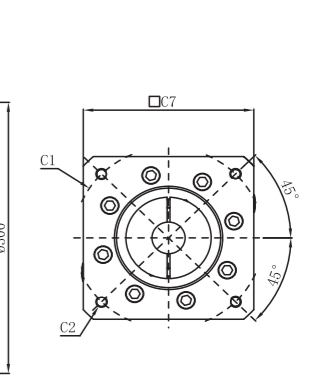


PGF255-L2

输出端/OUTPUT



输入端/INPUT



尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9
PGF 200-L1	φ 165	4-M10x25	≦ φ 32	86	φ 30	10	180	16.5	204
	φ 200	4-M12x35	≦ φ 42	86	φ 114.3	10	180	16.5	204
	φ 200	4-M12x35	≦ φ 42	118	φ 114.3	10	180	48.5	236
	φ 215	4-M12x35, 4-M14x35	≦ φ 42	86	φ 180	10	190	16.5	204
	φ 235	4-M10x30, 4-M14x35	≦ φ 55	118	φ 200	10	220	48.5	236
PGF 200-L2	φ 145	4-M8x20	≦ φ 24	81	φ 110	10	142	19.5	264
	φ 165	4-M10x30	≦ φ 28	81	φ 130	10	142	19.5	264
	φ 200	4-M12x35	≦ φ 42	83	φ 114.3	8	180	21.5	266
	φ 200	4-M12x35, 4-M14x35	≦ φ 42	115	φ 114.3	8	180	53.5	298
	φ 215	4-M14x35	≦ φ 42	83	φ 180	8	190	21.5	266

* C1~C9 是公制标准马达连接板之尺寸,可根据客户要求单独定做。
* C1~C9 are motor (metric standard) specific dimensions, which could be customised.

尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9
PGF255-L1	φ 200	4-M12x35	≦ φ 42	119	φ 114.3	10	220	27	262
	φ 215	4-M14x35	≦ φ 42	119	φ 180	10	220	27	262
	φ 235	4-M12x35, 4-M14x35	≦ φ 55	119	φ 200	10	220	27	262
PGF255-L2	φ 165	4-M10x25, 4-M12x35	≦ φ 32	118	φ 130	10	180	16.5	319
	φ 200	4-M12x35	≦ φ 42	118	φ 114.3	10	180	16.5	319
	φ 215	4-M12x35, 4-M14x35	≦ φ 42	118	φ 180	10	190	16.5	319
	φ 235	4-M12x35, 4-M14x35	≦ φ 55	150	φ 200	10	220	48.5	351

* C1~C9 是公制标准马达连接板之尺寸,可根据客户要求单独定做。
* C1~C9 are motor (metric standard) specific dimensions, which could be customised.



PGFR系列精密行星减速机

PGFR series precision planetary reducer



- PGFR047
- PGFR064
- PGFR090
- PGFR110
- PGFR140
- PGFR200
- PGFR255

PGFR系列减速机核心特性

The Core features of PGFR series reducer

1. 采用斜齿齿轮传动，经渗碳淬火处理，齿向齿廓修形处理，确保运行低噪音、平稳；承载能力较直齿提高20%；
2. 整体式输出轴，行星轮两端轴承支撑，实现高精度、高强度；
3. 回程间隙小，精密型单级可以做到3arcmin以内；

1. Helical gear transmission, carburizing and quenching treatment, tooth profile modification treatment,

Ensure low noise and stable operation; The bearing capacity is 20% higher than that of straight teeth;

2. The integral output shaft is supported by bearings at both ends of the planetary gear to achieve high precision and high strength;

3. The return clearance is small, and the precision single stage can reach within 3 arcmin:

减速机性能资料 / GEAR BOX PERFORMANCE INFORMATION

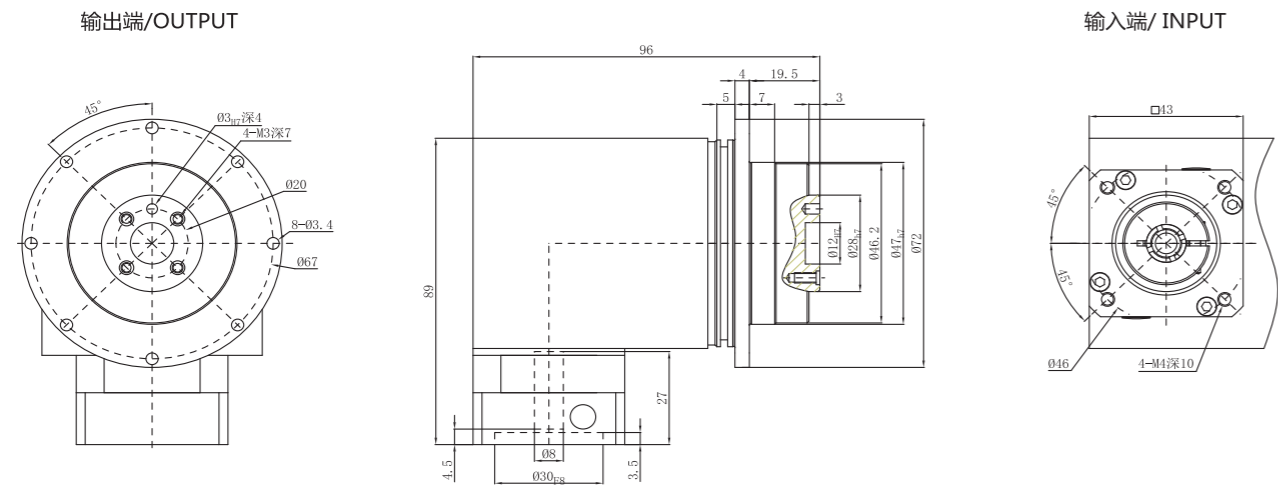
规格Specifications	单位unit	节数Stage	减速比	PGHR 042	PGHR 060	PGHR 090	PGHR 115	PGHR 142	PGHR 180	PGHR 220
额定输出力矩T2N Nominal Output Torque	N.m	1	3	19	53	145	290	520	950	1550
			4	20	55	150	300	550	1000	1650
			5	17	54	140	290	530	1050	1700
			6	19	53	145	290	520	950	1550
			7	14	44	125	270	450	960	1500
			8	20	55	150	300	550	1000	1650
			9	11	37	95	220	360	950	1550
			10	11	37	95	220	360	1050	1700
			14	14	44	125	270	450	960	1500
			18	11	37	95	220	360	800	1250
		20	11	37	95	220	360	800	1250	
		2	12	19	53	145	290	520	950	1550
			15	19	53	145	290	520	950	1550
			20	20	55	150	300	550	1000	1650
			25	17	54	140	290	530	1050	1700
			30	19	53	145	290	520	950	1550
			35	17	54	140	290	530	1050	1700
			40	20	55	150	300	550	1000	1650
			45	17	54	140	290	530	-	-
			50	17	54	140	290	530	1050	1700
70	17		54	140	290	530	1050	1700		
90	17	54	140	290	530	-	-			
100	17	54	140	290	530	1050	1700			
急停力矩T2NOT Emergency Stop Torque	N.m	1、2	3 ~ 100	3倍额定输出力矩 (3.0 times of Nominal Output Torque)						
额定输入转速n1 Nominal Input Speed	rpm	1、2	3 ~ 100	5000	3000	3000	3000	3000	1500	1500
最大输入转速n1max Max.Input Speed	rpm	1、2	3 ~ 100	10000	6000	6000	6000	6000	3000	3000
超精密背隙P0 Ultraprecise Backlash	arcmin	1	3 ~ 10	≤5	≤5	≤5	≤5	≤5	≤5	≤5
		2	12 ~ 100	≤8	≤8	≤8	≤8	≤8	≤8	≤8
精密背隙P1 Precise Backlash	arcmin	1	3 ~ 10	≤7	≤7	≤7	≤7	≤7	≤7	≤7
		2	12 ~ 100	≤10	≤10	≤10	≤10	≤10	≤10	≤10
标准背隙P2 Standard Backlash	arcmin	1	3 ~ 10	≤9	≤9	≤9	≤9	≤9	≤9	≤9
		2	12 ~ 100	≤12	≤12	≤12	≤12	≤12	≤12	≤12
扭转刚性 Torsional Rigidity	N.m /arcmin	1、2	3 ~ 100	2.5	6	12	23	45	148	220
容许径向力F2rB Max.Radial Load	N	1、2	3 ~ 100	515	1010	1780	3420	5380	8330	11120
容许轴向力F2aB Max.Axial Load	N	1、2	3 ~ 100	410	600	1500	2650	4670	6460	8560
使用温度 Operating Temp	° C	1、2	3 ~ 100	-10° C ~ +90° C						
使用寿命 Service Life	hr	1、2	3 ~ 100	20,000 (10,000/连续运转continuu operationg)						
效率η Efficiency	%	1	3 ~ 10	≥95%						
		2	12 ~ 100	≥92%						
重量 Weight	kg	1	3 ~ 10	1	1.3	3.5	7.8	16.1	30.0	58.0
		2	12 ~ 100	1.4	2.0	5.6	9.5	19.0	42.0	67.0
安装方向 mounting Position	-	1、2	3 ~ 100	任意方向 Any direction						
噪音值 Noise Level	dBA/1m	1、2	3 ~ 100	62	63	65	70	70	73	75
防护等级 Protection Class	-	1、2	3 ~ 100	Ip65						
润滑 Lubrication		1、2	3 ~ 100	全合成润滑脂油 Synthetic Lubricant						

减速机转动惯量

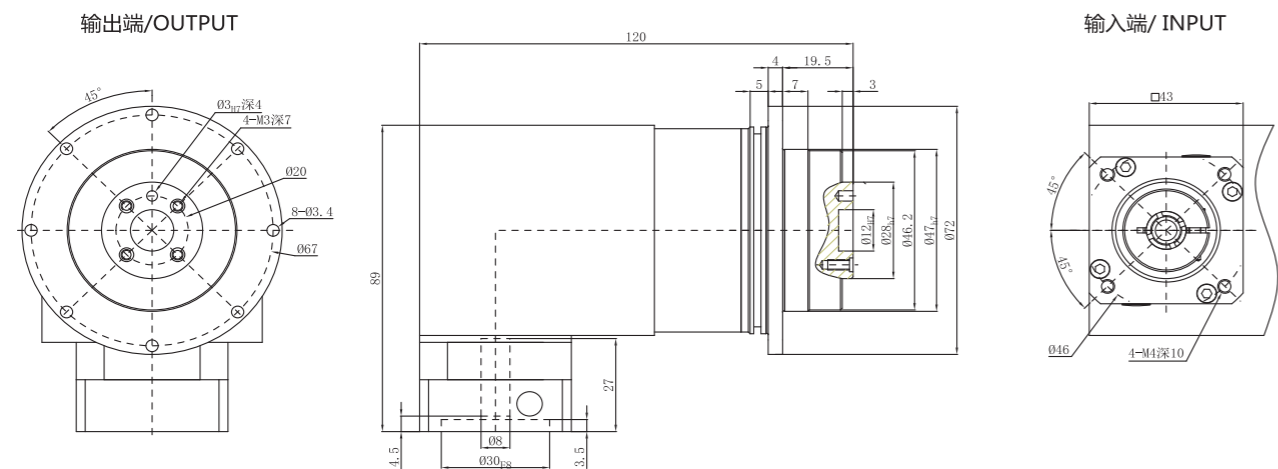
规格Specifications	单位unit	节数Stage	减速比Rat	PGHR 042	PGHR 060	PGHR 090	PGHR 115	PGHR 142	PGHR 180	PGHR 220
转动惯量J1 Inertia	kg.cm2	1	3	0.06	0.23	0.98	2.36	10.10	31.00	79.63
			4	0.06	0.18	0.68	1.68	7.30	26.00	59.30
			5	0.06	0.17	0.66	1.55	6.58	23.80	54.86
			6/7/8	0.05	0.15	0.60	1.48	6.22	23.00	54.32
			9/10/14/18/20	0.06	0.14	0.58	1.45	6.15	22.90	54.00
			12/15/18/20/15	0.05	0.18	0.68	2.40	6.52	24.27	54.37
		2	30/35/40	0.05	0.15	0.68	1.68	6.52	23.82	54.37
			45/50/70	0.05	0.15	0.60	1.51	6.21	22.94	53.30
			80/90/100	0.05	0.14	0.60	1.41	6.10	22.75	52.45

外形尺寸图表 / OUTLINE DIMENSION SHEET

PGFR 047-L1

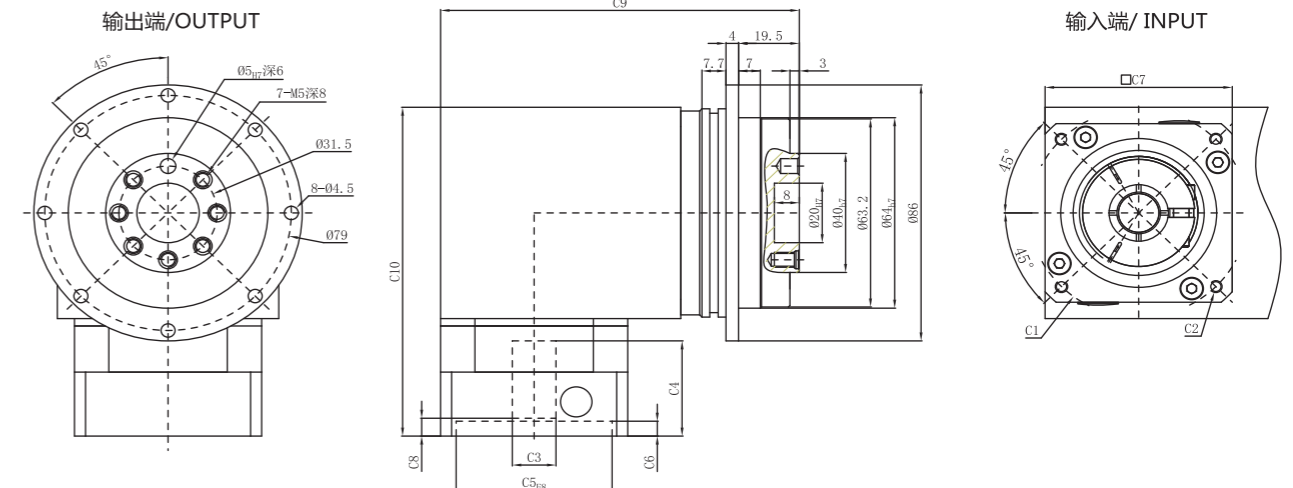


PGFR 047-L2

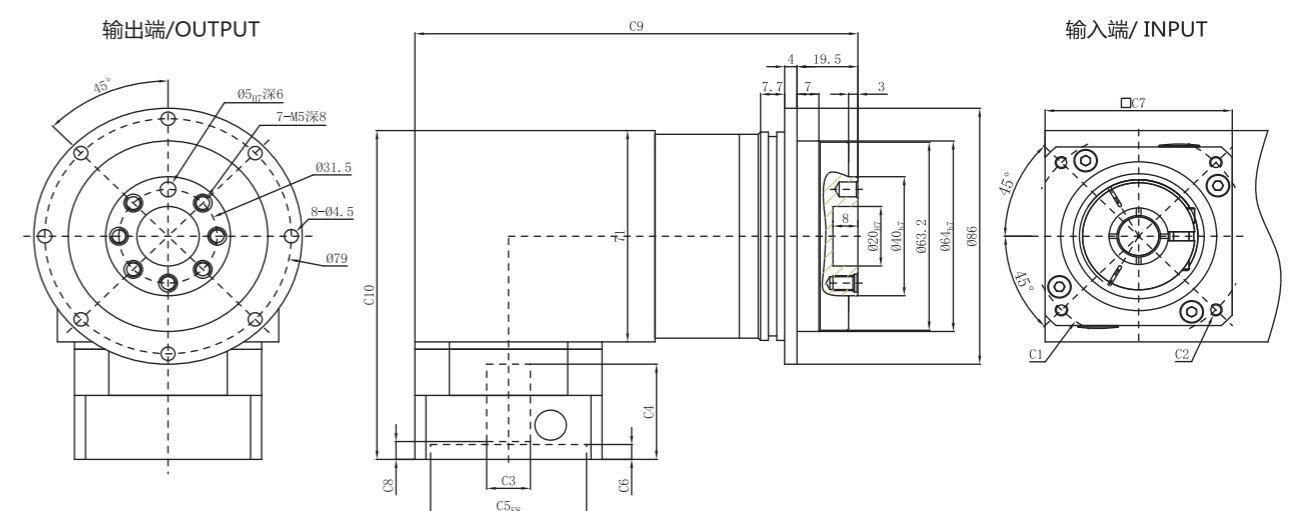


外形尺寸图表 / OUTLINE DIMENSION SHEET

PGFR 064-L1



PGFR 064-L2



尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
PGFR064-L1	φ 46	4-M4x12,4-M5x12	≤ φ 8	37.5	φ 30	10.5	60	11.5	115	116
	φ 66.7	4-M4x12	≤ φ 8	32	φ 38.1	5	60	6	115	110.5
	φ 70	4-M4x10,4-M5x12	≤ φ 14	32	φ 50	5	60	6	115	110.5
PGFR064-L2	φ 46	4-M4x12,4-M5x12	≤ φ 8	37.5	φ 30	10.5	60	11.5	142	116
	φ 66.7	4-M4x12	≤ φ 8	32	φ 38.1	5	60	6	142	110.5
	φ 70	4-M4x10,4-M5x12	≤ φ 14	32	φ 50	5	60	6	142	110.5
	φ 75	4-M4x12,4-M5x12	≤ φ 14	32	φ 60	5	66	6	145	110.5

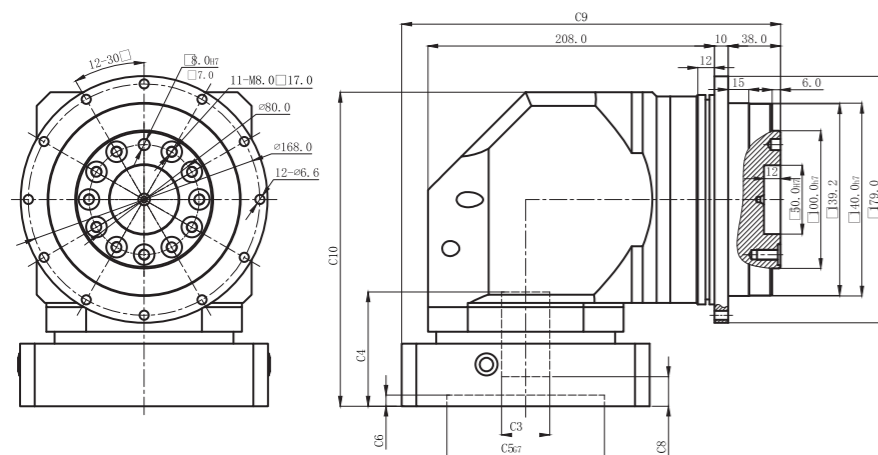
* C1~C10是公制标准马达连接板之尺寸,可根据客户要求单独定做。

* C1~C10are motor (metric standard) specific dimensions, which could be customised.

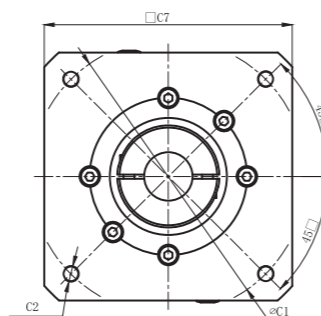
外形尺寸图表 / OUTLINE DIMENSION SHEET

PGFR 140-L1

输出端/OUTPUT

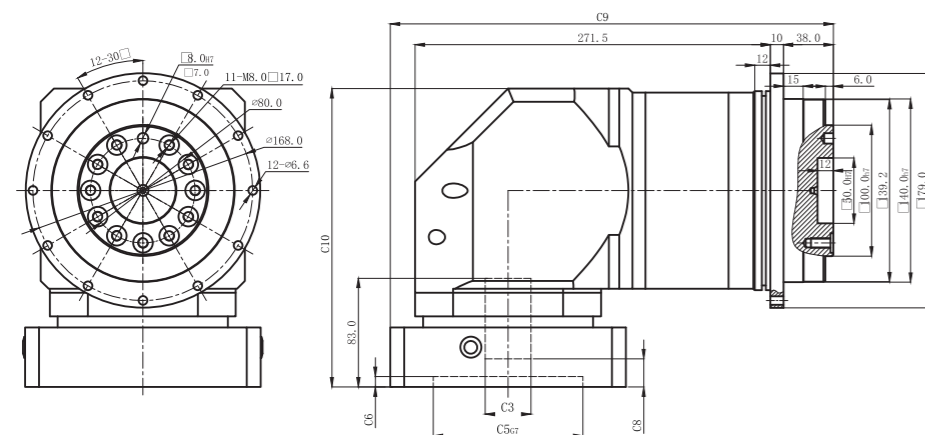


输入端/INPUT

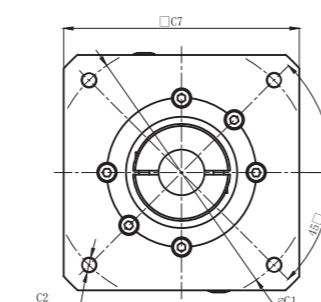


PGFR 140-L2

输出端/OUTPUT



输入端/INPUT



尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
PGFR140-L1	φ 145	4-M8x20	≤ φ 28	81	φ 110	10	142	19.5	256	226
	φ 165	4-M10x25, 4-M12x35	≤ φ 32	81	φ 130	10	142	19.5	256	226
	φ 200	4-M12x35	≤ φ 42	83	φ 114.3	8	180	21.5	275	228
PGFR140-L2	φ 200	4-M12x35	≤ φ 42	115	φ 114.3	8	180	53.5	275	260
	φ 145	4-M8x25	≤ φ 24	62	φ 110	10	142	13	271.5	198.5
	φ 165	4-M10x30	≤ φ 28	62	φ 130	10	142	13	271.5	198.5

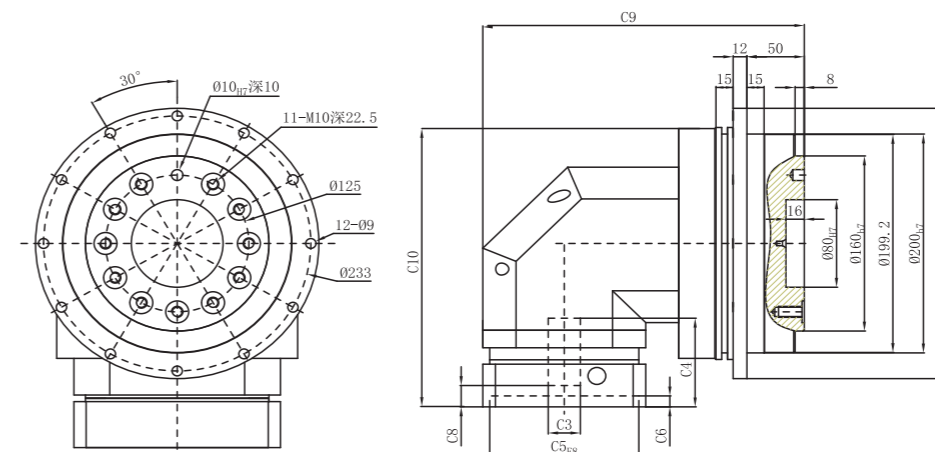
* C1~C10是公制标准马达连接板之尺寸,可根据客户要求单独定做。

* C1~C10 are motor (metric standard) specific dimensions, which could be customised.

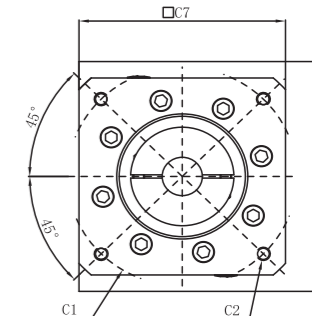
外形尺寸图表 / OUTLINE DIMENSION SHEET

PGFR 200-L1

输出端/OUTPUT

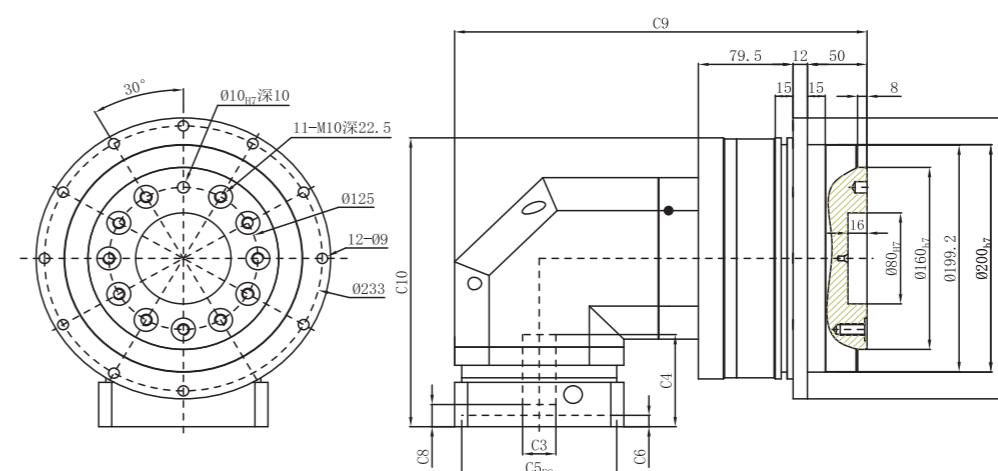


输入端/INPUT

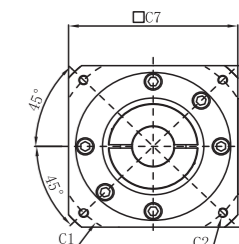


PGFR 200-L2

输出端/OUTPUT



输入端/INPUT



尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
PGFR 200-L1	φ 165	4-M10x25, 4-M12x35	≤ φ 32	118	φ 130	10	180	16.5	306.5	291.5
	φ 200	4-M12x35	≤ φ 42	118	φ 114.3	10	180	16.5	306.5	291.5
	φ 215	4-M14x35	≤ φ 42	118	φ 180	10	190	16.5	311.5	291.5
	φ 235	4-M10x30, 4-M14x35	≤ φ 55	150	φ 200	10	220	48.5	326.5	323.5
PGFR 200-L2	φ 130	4-M8x20	≤ φ 24	81	φ 110	10	142	19.5	346	254
	φ 145	4-M8x20	≤ φ 24	81	φ 110	10	142	19.5	346	254
	φ 165	4-M10x25, 4-M12x35	≤ φ 32	81	φ 130	10	142	19.5	346	254
	φ 200	4-M12x35	≤ φ 42	83	φ 114.3	8	180	21.5	365	256
	φ 200	4-M10x25, 4-M12x35	≤ φ 42	115	φ 114.3	8	180	53.5	365	288
	φ 215	4-M14x35	≤ φ 42	83	φ 180	8	190	21.5	370	256

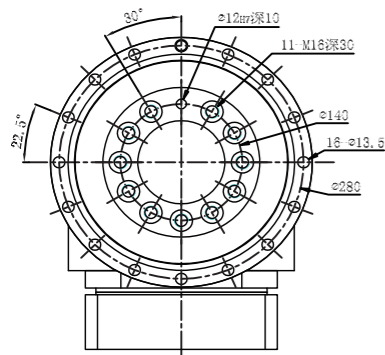
* C1~C10是公制标准马达连接板之尺寸,可根据客户要求单独定做。

* C1~C10 are motor (metric standard) specific dimensions, which could be customised.

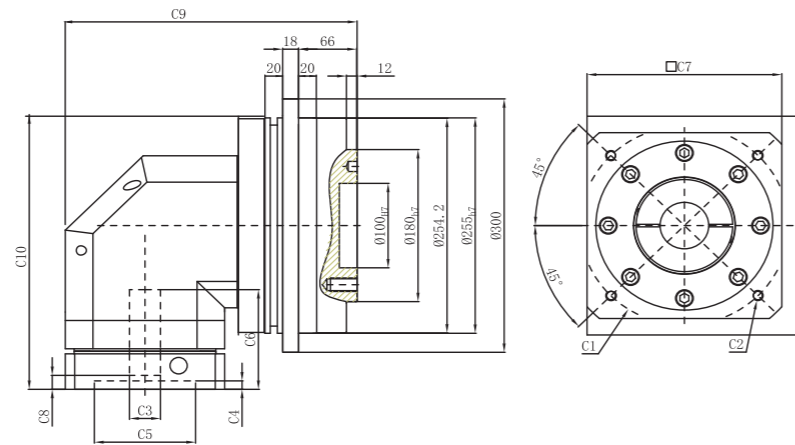
外形尺寸图表 / OUTLINE DIMENSION SHEET

PGFR 255-L1

输出端/OUTPUT

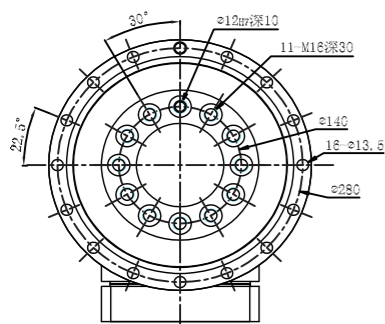


输入端/INPUT

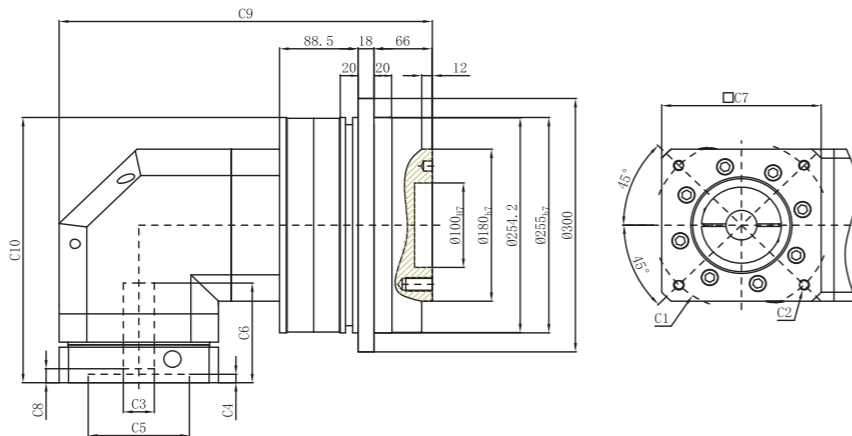


PGFR 255-L2

输出端/OUTPUT



输入端/INPUT



尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
PGFR255-L1	φ 200	4-M12x35	≤ φ 42	119	φ 114.3	10	220	27	403	353.5
	φ 215	4-M14x35	≤ φ 42	119	φ 180	10	220	27	403	353.5
	φ 235	4-M12x35, 4-M14x35	≤ φ 55	119	φ 200	10	220	27	403	353.5
PGFR255-L2	φ 165	4-M10x25, 4-M12x35	≤ φ 32	118	φ 130	10	180	16.5	421.5	314
	φ 200	4-M12x35	≤ φ 42	118	φ 114.3	10	180	16.5	421.5	314
	φ 215	4-M12x35, 4-M14x35	≤ φ 42	118	φ 180	10	190	16.5	426.5	314
	φ 235	4-M12x35, 4-M14x35	≤ φ 55	150	φ 200	10	220	48.5	441.5	346

* C1~C10是公制标准马达连接板之尺寸,可根据客户要求单独定做。

* C1~C10are motor (metric standard) specific dimensions, which could be customised.



JAE系列精密行星减速机

JAE series precision planetary reducer



→→JAE060

→→JAE090

→→JAE120

→→JAE160

JAE系列减速机

The Core features of JAE series reducer

1.采用直齿齿轮传动,经渗碳淬火处理,齿向齿廓修形处理,确保运行平稳,噪音小;

2.结构简单,可大批量生产,且交货期快性价比高;

3.减速机种类齐全,可以满足市场上绝大多数减速机的配合。

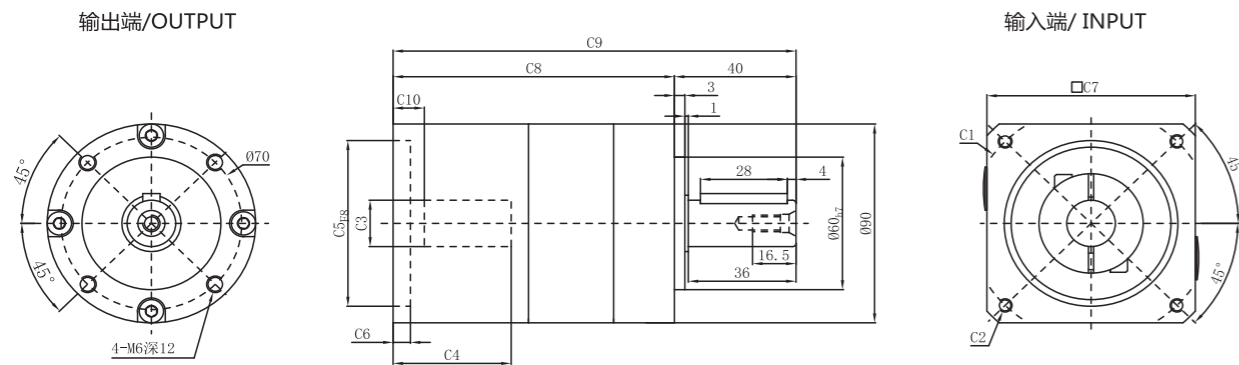
1. Adopt straight tooth gear transmission, through carburizing treatment, ensure smooth operation, low noise.

2. Simple structure, mass production, and fast delivery time and high cost performance.

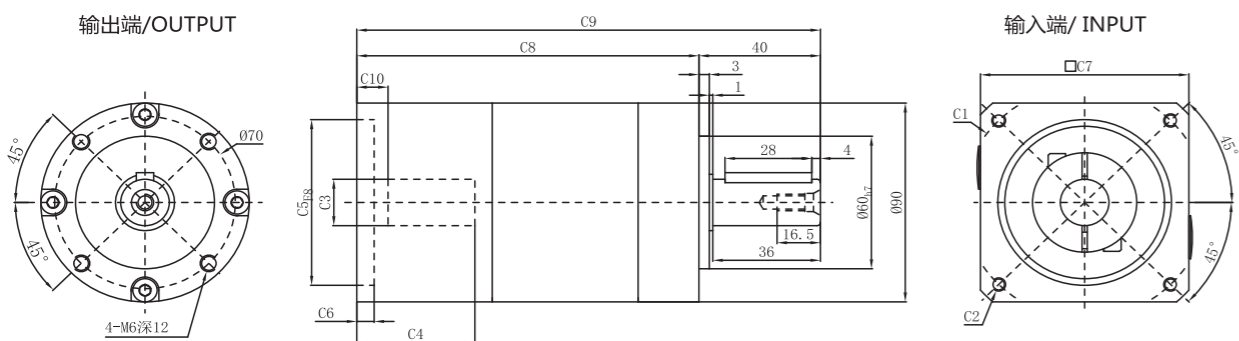
3. Reducer has a complete range, which can meet the needs of most reducer in the market.

外形尺寸图表 / OUTLINE DIMENSION SHEET

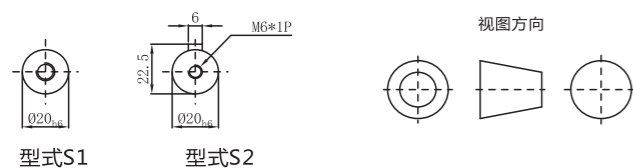
JAE 090-L1



JAE 090-L2



输出轴径/Output Diameter



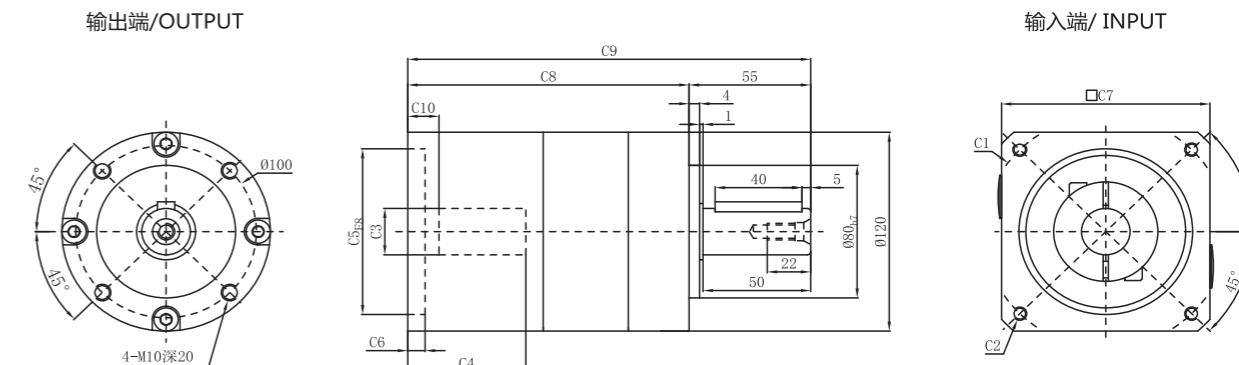
*输入马达连接板之尺寸, 可根据客户要求单独定做。
*The input motor specific dimensions could be customised.

尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
JAE 090-L1	φ 70	4-M4x12,4-M5x12	≤ φ 14	46	φ 50	4	90	100	140	6
	φ 75	4-M4x12,4-M5x12	≤ φ 14	46	φ 60	5.5	90	100	140	6
	φ 90	4-M5x15,4-M6x15	≤ φ 19	46	φ 70	7	90	100	140	7
	φ 100	4-M6x15	≤ φ 19	46	φ 80	7	90	100	140	7
	φ 115	4-M8x20	≤ φ 24	61.5	φ 95	10	100	100	140	12.5
JAE 090-L2	φ 70	4-M4x12,4-M5x12	≤ φ 14	46	φ 50	4	90	119	159	6
	φ 75	4-M4x12,4-M5x12	≤ φ 14	46	φ 60	5.5	90	119	159	6
	φ 90	4-M5x15,4-M6x15	≤ φ 19	46	φ 70	7	90	119	159	7
	φ 100	4-M6x15	≤ φ 19	46	φ 80	7	90	119	159	7
	φ 115	4-M8x20	≤ φ 24	61.5	φ 95	10	100	119	159	12.5
φ 145	4-M8x20	≤ φ 24	61.5	φ 110	10	130	119	159	12.5	

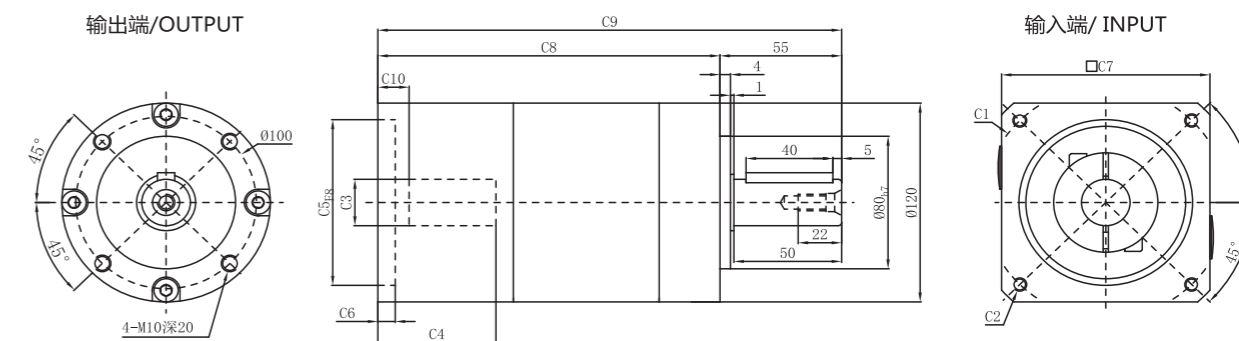
* C1~C10是公制标准马达连接板之尺寸, 可根据客户要求单独定做。
* C1~C10are motor (metric standard) specific dimensions, which could be customised.

外形尺寸图表 / OUTLINE DIMENSION SHEET

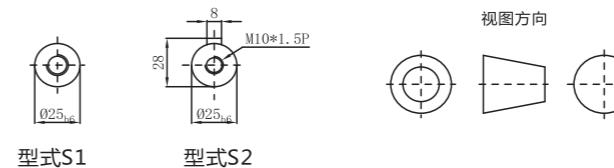
JAE 120-L1



JAE 120-L2



输出轴径/Output Diameter



*输入马达连接板之尺寸, 可根据客户要求单独定做。
*The input motor specific dimensions could be customised.

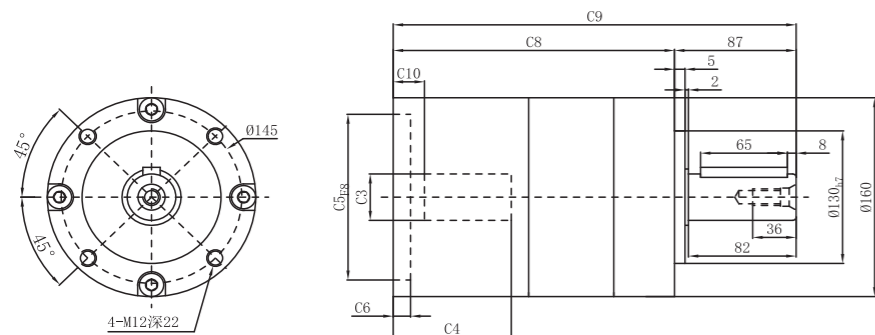
尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
JAE 120-L1	φ 90	4-M5x15,4-M6x15	≤ φ 19	48.5	φ 70	7	115	153	208	7
	φ 100	4-M6x15	≤ φ 19	48.5	φ 80	7	115	153	208	7
	φ 115	4-M8x20	≤ φ 24	58	φ 95	10	115	153	208	11.5
JAE 120-L2	φ 90	4-M5x15,4-M6x15	≤ φ 19	48.5	φ 70	7	115	180	235	7
	φ 100	4-M6x15	≤ φ 19	48.5	φ 80	7	115	180	235	7
	φ 115	4-M8x20	≤ φ 24	58	φ 95	10	115	180	235	11.5
φ 145	4-M8x20	≤ φ 24	59	φ 110	10	130	180	235	12.5	

* C1~C10是公制标准马达连接板之尺寸, 可根据客户要求单独定做。
* C1~C10are motor (metric standard) specific dimensions, which could be customised.

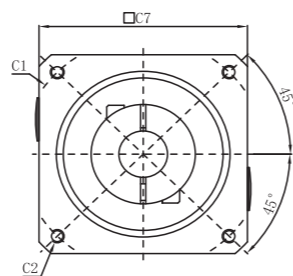
外形尺寸图表 / OUTLINE DIMENSION SHEET

JAE 160-L1

输出端/OUTPUT

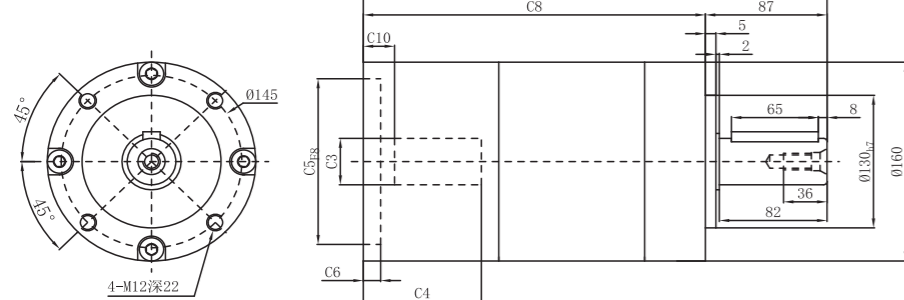


输入端/INPUT

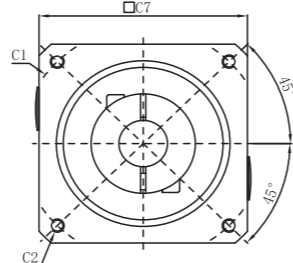


JAE 160-L2

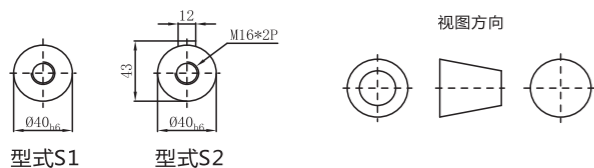
输出端/OUTPUT



输入端/INPUT



输出轴径/Output Diameter



*输入马达连接板之尺寸, 可根据客户要求单独定做。
*The input motor specific dimensions could be customised.

尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
JAE 160-L1	φ 145	4-M8x20	≤ φ 24	81	φ 110	10	142	173	260	19.5
	φ 165	4-M10x25, 4-M12x35	≤ φ 32	81	φ 130	10	142	173	260	19.5
	φ 200	4-M12x35	≤ φ 42	83	φ 114.3	8	180	173	260	21.5
	φ 200	4-M12x35	≤ φ 42	115	φ 114.3	8	180	205	292	53.5
JAE 160-L2	φ 215	4-M12x35, 4-M14x35	≤ φ 42	83	φ 180	8	190	173	260	21.5
	φ 145	4-M8x20	≤ φ 24	81	φ 110	10	142	243	330	19.5
	φ 165	4-M10x25, 4-M12x35	≤ φ 32	81	φ 130	10	142	243	330	19.5
	φ 200	4-M12x35	≤ φ 42	83	φ 114.3	8	180	243	330	21.5
	φ 200	4-M12x35	≤ φ 42	115	φ 114.3	8	180	275	362	53.5
	φ 215	4-M12x35, 4-M14x35	≤ φ 42	83	φ 180	8	190	243	330	21.5

* C1~C10是公制标准马达连接板之尺寸, 可根据客户要求单独定做。
* C1~C10are motor (metric standard) specific dimensions, which could be customised.



JAF系列精密行星减速机

JAF series precision planetary reducer



- JAF060
- JAF090
- JAF120
- JAF160

JAF系列减速机核心特性

The Core features of JAFseries reducer

1. 采用直齿齿轮传动, 经渗碳淬火处理, 齿向齿廓修形处理, 确保运行平稳, 噪音小;
2. 结构简单, 可大批量生产, 且交货期快性价比高;
3. 减速机种类齐全, 可以满足市场上绝大多数减速机的配合。

1. Adopt straight tooth gear transmission, through carburizing and quenching treatment, tooth profile modification treatment, ensure smooth operation, low noise.
2. Simple structure, mass production, and fast delivery time and high cost performance.
3. Reducer has a complete range, which can meet the needs of most reducer in the market.

减速机性能资料 / GEAR BOX PERFORMANCE INFORMATION

规格 Specifications	单位 unit	节数 Stage	减速比 Ratio	JAF060	JAF080	JAF090	JAF120	JAF160
额定输出力矩 T2N Nominal Output Torque	N.m	1	3	32.6	85.7	95.2	283	482
			4	30.1	67.1	74.6	249	490
			5	32.3	85.7	95.2	283	473
			7	30.9	77.0	85.6	219	400
			10	25.0	67.5	75.0	210	320
		2	12	32.6	85.7	95.2	283	482
			15	32.6	85.7	95.2	283	482
			20	30.1	67.1	74.6	249	490
			25	32.3	85.7	95.2	283	473
			30	32.3	85.7	95.2	283	473
			35	32.3	85.7	95.2	283	473
			40	32.3	85.7	95.2	283	473
			50	32.3	85.7	95.2	283	473
70	30.9	76.5	85.0	219	400			
100	25.0	67.5	75.0	210	320			
急停力矩 T2NOT Emergency Stop Torque	N.m	1、2	3 ~ 100	3倍额定输出力矩 (3.0 times of Nominal Output Torque)				
额定输入转速 n1 Nominal Input Speed	rpm	1、2	3 ~ 100	3000	3000	3000	2500	2000
最大输入转速 n1max Max. Input Speed	rpm	1、2	3 ~ 100	6000	6000	6000	5000	4000
超精密背隙 P0 Ultraprecise Backlash	arcmin	1	3 ~ 10	-	-	-	≤3	≤3
		2	12 ~ 100	-	-	-	≤5	≤5
精密背隙 P1 Precise Backlash	arcmin	1	3 ~ 10	-	≤6	≤6	≤5	≤5
		2	12 ~ 100	-	≤9	≤9	≤7	≤7
标准背隙 P2 Standard Backlash	arcmin	1	3 ~ 10	≤12	≤9	≤9	≤7	≤7
		2	12 ~ 100	≤15	≤12	≤12	≤9	≤9
扭转刚性 Torsional Rigidity	N.m / arcmin	1、2	3 ~ 100	2.6	6.75	7.5	15.5	30
容许径向力 F2rB Max. Radial Load	N	1、2	3 ~ 100	889	1467	1630	3380	6450
容许轴向力 F2aB Max. Axial Load	N	1、2	3 ~ 100	850	1278	1420	2930	5510
使用温度 Operating Temp	° C	1、2	3 ~ 100	-10° C ~ +90° C				
使用寿命 Service Life	hr	1、2	3 ~ 100	20,000 (10,000/连续运转continui operationg)				
效率 η Efficiency	%	1	3 ~ 10	≥96%				
		2	12 ~ 100	≥92%				
重量 Weight	kg	1	3 ~ 10	1.3	2.7	3.0	7.3	15.6
		2	12 ~ 100	2.0	4.5	5.0	11.5	20.7
安装方向 mounting Position	-	1、2	3 ~ 100	任意方向 Any direction				
噪音值 Noise Level	dBA/1m	1、2	3 ~ 100	60	58.5	65	65	70
防护等级 Protection Class	-	1、2	3 ~ 100	Ip65				
润滑 Lubrication	-	1、2	3 ~ 100	全合成润滑脂油 Synthetic Lubricant				

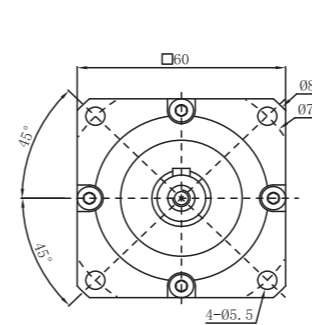
减速机转动惯量

规格 Specifications	单位 unit	节数 Stage	减速比 Ratio	JAF060	JAF080	JAF090	JAF120	JAF160
转动惯量 J1 Inertia	kg.cm ²	1	3	0.25	0.73	0.81	2.2	7.89
			4	0.18	0.59	0.65	1.8	5.83
			5	0.16	0.56	0.62	1.61	5.83
			7	0.14	0.54	0.60	1.55	5.22
			10	0.14	0.54	0.60	1.53	5.20
		2	12	0.16	0.56	0.62	1.61	5.83
			15	0.16	0.56	0.62	1.61	5.83
			20	0.16	0.56	0.62	1.61	5.83
			25	0.16	0.56	0.62	1.61	5.83
			30	0.14	0.54	0.60	1.55	5.22
			35	0.14	0.54	0.60	1.55	5.22
			40	0.14	0.54	0.60	1.55	5.22
			50	0.14	0.54	0.60	1.55	5.22
			70	0.14	0.54	0.60	1.53	5.20
			100	0.14	0.54	0.60	1.53	5.20

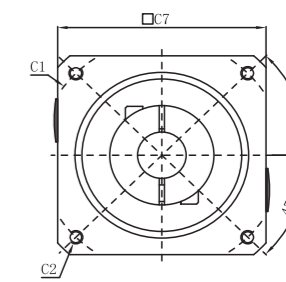
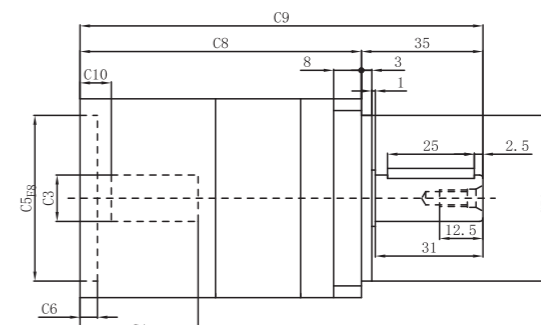
外形尺寸图表 / OUTLINE DIMENSION SHEET

JAF060-L1

输出端/OUTPUT

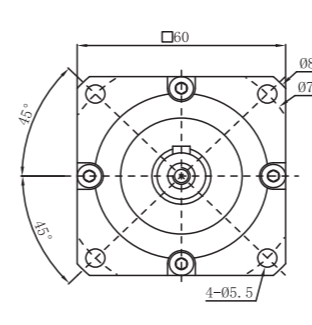


输入端/INPUT

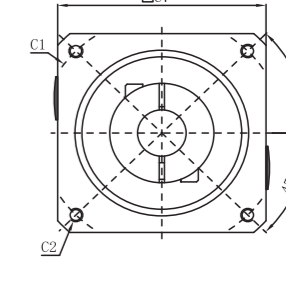
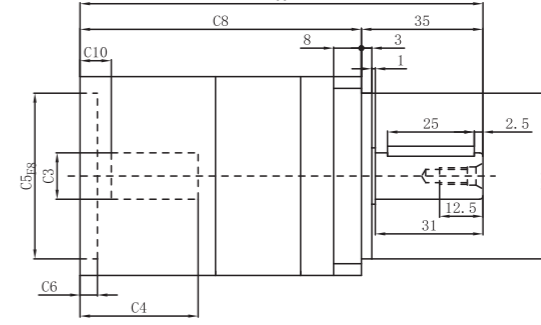


JAF060-L2

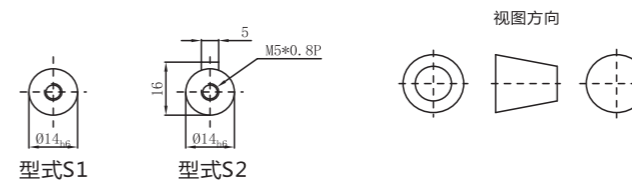
输出端/OUTPUT



输入端/INPUT



输出轴径/Output Diameter



视图方向

*输入马达连接板之尺寸, 可根据客户要求单独定做。
*The input motor specific dimensions could be customised.

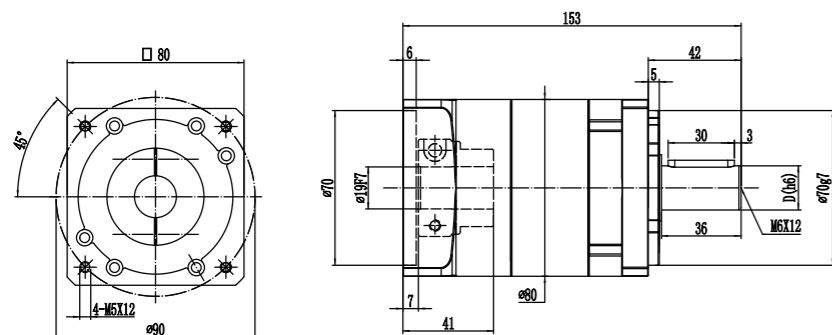
尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
JAF 060-L1	φ 46	4-M4x10	≤ φ 8	34	φ 30	5	60	81	116	9
	φ 66.7	4-M4x10	≤ φ 8	34	φ 38.1	5	60	81	116	8
	φ 70	4-M4x10, 4-M5x12	≤ φ 14	34	φ 50	5	60	81	116	9
JAF 060-L2	φ 46	4-M4x10	≤ φ 8	34	φ 30	5	60	137.5	172.5	9
	φ 66.7	4-M4x10	≤ φ 8	34	φ 38.1	5	60	137.5	172.5	8
	φ 70	4-M4x10, 4-M5x12	≤ φ 14	34	φ 50	5	60	137.5	172.5	9

* C1~C10是公制标准马达连接板之尺寸, 可根据客户要求单独定做。
* C1~C10 are motor (metric standard) specific dimensions, which could be customised.

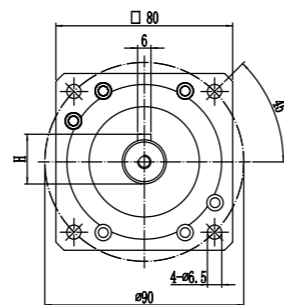
外形尺寸图表 / OUTLINE DIMENSION SHEET

JAF080-L1

输出端/OUTPUT

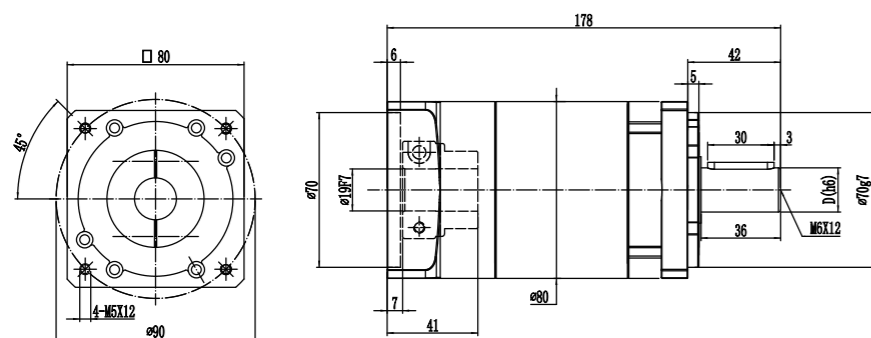


输入端/ INPUT

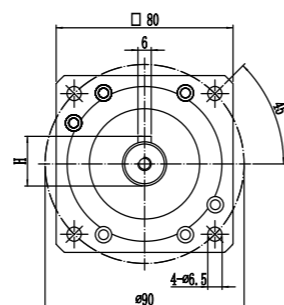


JAF080-L2

输出端/OUTPUT



输入端/ INPUT



输出轴径/Output Diameter



*输入马达连接板之尺寸,可根据客户要求单独定做。
*The input motor specific dimensions could be customised.

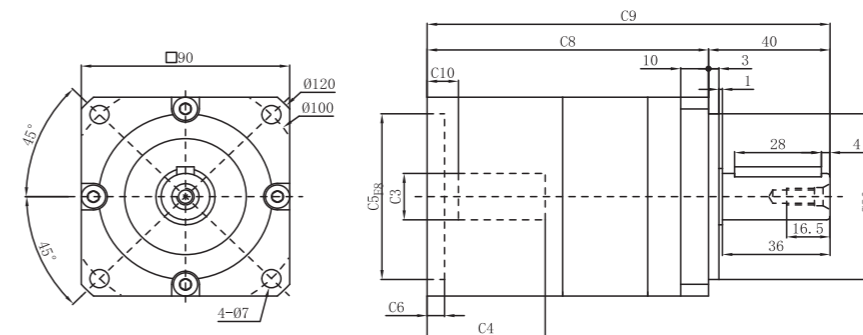
尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
JAF080-L1	φ 70	4-M4x12,4-M5x12	≤ φ 14	46	φ 50	4	90	100	140	6
	φ 75	4-M4x12,4-M5x12	≤ φ 14	46	φ 60	5.5	90	100	1	6
	φ 90	4-M5x15,4-M6x15	≤ φ 19	46	φ 70	7	90	100	140	7
	φ 100	4-M6x15	≤ φ 19	46	φ 80	7	90	100	1	7
	φ 115	4-M8x20	≤ φ 24	61.5	φ 95	10	100	100	140	12.5
	φ 145	4-M8x20	≤ φ 24	61.5	φ 110	10	130	100	1	12.5
JAF080-L2	φ 70	4-M4x12,4-M5x12	≤ φ 14	46	φ 50	4	90	119	159	6
	φ 75	4-M4x12,4-M5x12	≤ φ 14	46	φ 60	5.5	90	119	1	6
	φ 90	4-M5x15,4-M6x15	≤ φ 19	46	φ 70	7	90	119	159	7
	φ 100	4-M6x15	≤ φ 19	46	φ 80	7	90	119	1	7
	φ 115	4-M8x20	≤ φ 24	61.5	φ 95	10	100	119	159	12.5
	φ 145	4-M8x20	≤ φ 24	61.5	φ 110	10	130	119	1	12.5

* C1~C10是公制标准马达连接板之尺寸,可根据客户要求单独定做。
* C1~C10 are motor (metric standard) specific dimensions, which could be customised.

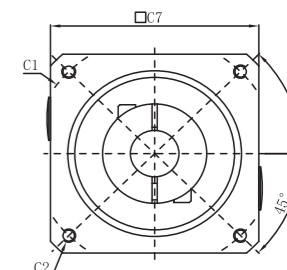
外形尺寸图表 / OUTLINE DIMENSION SHEET

JAF090-L1

输出端/OUTPUT

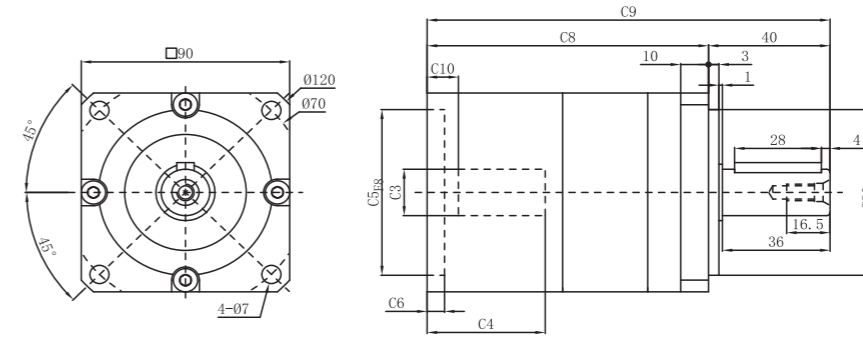


输入端/ INPUT

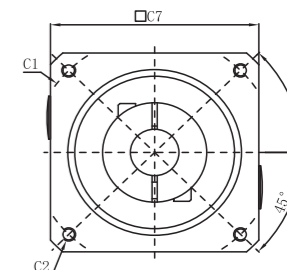


JAF090-L2

输出端/OUTPUT



输入端/ INPUT



输出轴径/Output Diameter



*输入马达连接板之尺寸,可根据客户要求单独定做。
*The input motor specific dimensions could be customised.

尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
JAF090-L1	φ 70	4-M4x12,4-M5x12	≤ φ 14	46	φ 50	4	90	100	140	6
	φ 75	4-M4x12,4-M5x12	≤ φ 14	46	φ 60	5.5	90	100	1	6
	φ 90	4-M5x15,4-M6x15	≤ φ 19	46	φ 70	7	90	100	140	7
	φ 100	4-M6x15	≤ φ 19	46	φ 80	7	90	100	1	7
	φ 115	4-M8x20	≤ φ 24	61.5	φ 95	10	100	100	140	12.5
	φ 145	4-M8x20	≤ φ 24	61.5	φ 110	10	130	100	1	12.5
JAF090-L2	φ 70	4-M4x12,4-M5x12	≤ φ 14	46	φ 50	4	90	119	159	6
	φ 75	4-M4x12,4-M5x12	≤ φ 14	46	φ 60	5.5	90	119	1	6
	φ 90	4-M5x15,4-M6x15	≤ φ 19	46	φ 70	7	90	119	159	7
	φ 100	4-M6x15	≤ φ 19	46	φ 80	7	90	119	1	7
	φ 115	4-M8x20	≤ φ 24	61.5	φ 95	10	100	119	159	12.5
	φ 145	4-M8x20	≤ φ 24	61.5	φ 110	10	130	119	1	12.5

* C1~C10是公制标准马达连接板之尺寸,可根据客户要求单独定做。
* C1~C10 are motor (metric standard) specific dimensions, which could be customised.



JAER系列精密行星减速机

JAER series precision planetary reducer



→→JAER060

→→JAER090

→→JAER120

→→JAER160

JAER系列减速机核心特性

The Core features of JAERseries reducer

- 1.采用直齿齿轮传动，经渗碳淬火处理，齿向齿廓修形处理，确保运行平稳，噪音小；
- 2.结构简单，可大批量生产，且交货期快性价比高；
- 3.减速机种类齐全，可以满足市场上绝大多数减速机的配合。

1. Adopt straight tooth gear transmission, through carburizing and quenching treatment, tooth profile modification treatment, ensure smooth operation, low noise.
2. Simple structure, mass production, and fast delivery time and high cost performance.
3. Reducer has a complete range, which can meet the needs of most reducer in the market.

减速机性能资料 / GEAR BOX PERFORMANCE INFORMATION

规格Specifications	单位unit	节数Stage	减速比Ratio	PGCR 060	PGCR 090	PGCR 120
额定输出力矩T2N Nominal Output Torque	N.m	1	3	32.6	95.2	283
			4	30.1	74.6	249
			5	32.3	95.2	283
			7	30.9	85.6	219
			10	25.0	75.0	210
		2	12	32.6	95.2	283
			15	32.6	95.2	283
			20	30.1	74.6	249
			25	32.3	95.2	283
			30	32.3	95.2	283
			35	32.3	95.2	283
			40	32.3	95.2	283
			50	32.3	95.2	283
			70	30.9	85.0	219
100	25.0	75.0	210			
急停力矩T2NOT Emergency Stop Torque	N.m	1、2	3 ~ 100	3倍额定输出力矩 (3.0 times of Nominal Output Torque)		
额定输入转速n1 Nominal Input Speed	rpm	1、2	3 ~ 100	3000	3000	2500
最大输入转速n1max Max.Input Speed	rpm	1、2	3 ~ 100	6000	6000	5000
超精密背隙P0 Ultraprecise Backlash	arcmin	1	3 ~ 10	-	-	≤3
		2	12 ~ 100	-	-	≤5
精密背隙P1 Precise Backlash	arcmin	1	3 ~ 10	-	≤6	≤5
		2	12 ~ 100	-	≤9	≤7
标准背隙P2 Standard Backlash	arcmin	1	3 ~ 10	≤12	≤9	≤7
		2	12 ~ 100	≤15	≤12	≤9
扭转刚性 Torsional Rigidity	N.m /arcmin	1、2	3 ~ 100	2.6	7.5	15.5
容许径向力F2rB Max.Radial Load	N	1、2	3 ~ 100	889	1630	3380
容许轴向力F2aB Max.Axial Load	N	1、2	3 ~ 100	850	1420	2930
使用温度 Operating Temp	° C	1、2	3 ~ 100	-10° C ~ +90° C		
使用寿命 Service Life	hr	1、2	3 ~ 100	20,000 (10,000/连续运转continui operating)		
效率η Efficiency	%	1	3 ~ 10	≥96%		
		2	12 ~ 100	≥92%		
重量 Weight	kg	1	3 ~ 10	1.3	3.0	7.3
		2	12 ~ 100	2.0	5.0	11.5
安装方向 mounting Position	-	1、2	3 ~ 100	任意方向 Any direction		
噪音值 Noise Level	dB(A)/1m	1、2	3 ~ 100	60	65	65
防护等级 Protection Class	-	1、2	3 ~ 100	Ip65		
润滑 Lubrication	-	1、2	3 ~ 100	全合成润滑脂油 Synthetic Lubricant		

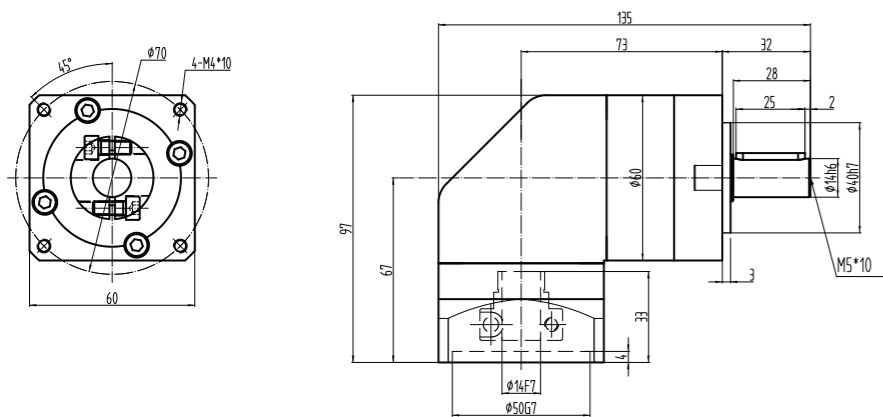
减速机转动惯量

规格Specifications	单位unit	节数Stage	减速比Ratio	PGCR 060	PGCR 090	PGCR 120
转动惯量J1 Inertia	kg.cm ²	1	3	0.25	0.81	2.2
			4	0.18	0.65	1.8
			5	0.16	0.62	1.61
			7	0.14	0.60	1.55
			10	0.14	0.60	1.53
		2	12	0.16	0.62	1.61
			15	0.16	0.62	1.61
			20	0.16	0.62	1.61
			25	0.16	0.62	1.61
			30	0.14	0.60	1.55
			35	0.14	0.60	1.55
			40	0.14	0.60	1.55
			50	0.14	0.60	1.55
			70	0.14	0.60	1.53
100	0.14	0.60	1.53			

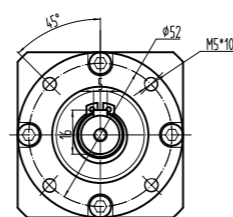
外形尺寸图表 / OUTLINE DIMENSION SHEET

JAER 60-L1

输出端/OUTPUT

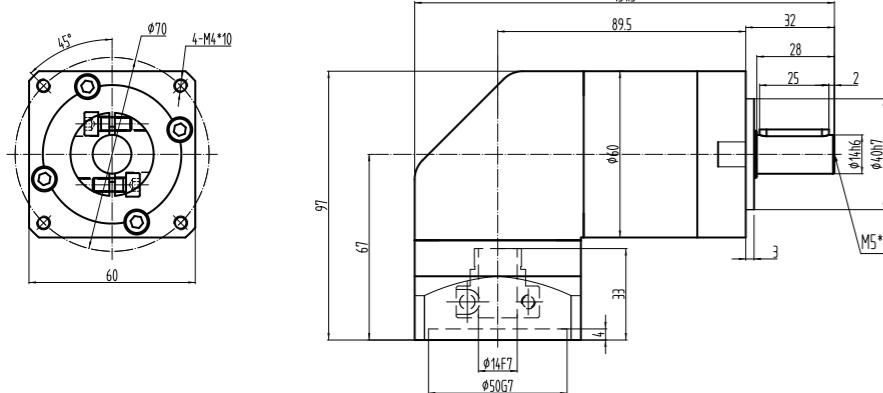


输入端/INPUT

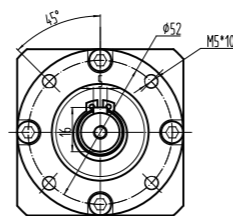


JAER 60-L2

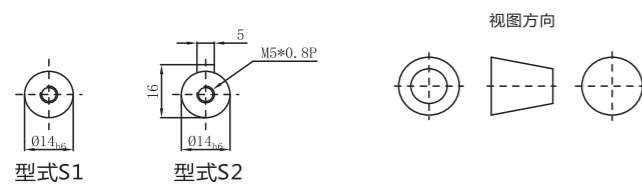
输出端/OUTPUT



输入端/INPUT



输出轴径/Output Diameter



*输入马达连接板之尺寸, 可根据客户要求单独定做。
*The input motor specific dimensions could be customised.

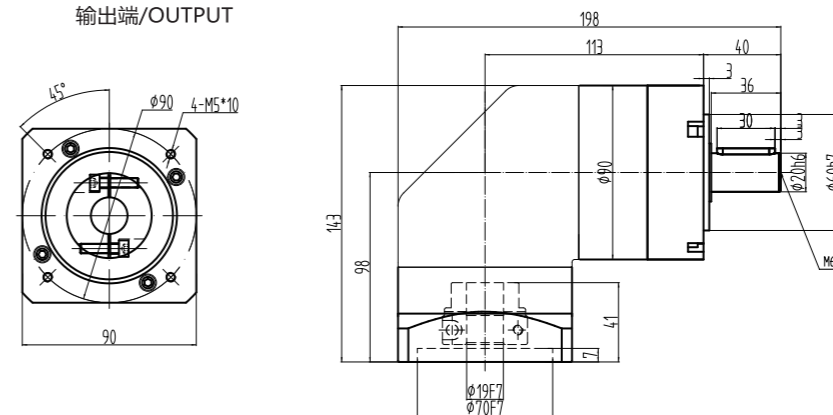
尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
JAER60-L1	φ 46	4-M4x10	≤ φ 8	34	φ 30	5	60	81	116	9
	φ 66.7	4-M4x10	≤ φ 8	34	φ 38.1	5	60	81	116	8
	φ 70	4-M4x10, 4-M5x12	≤ φ 14	34	φ 50	5	60	81	116	9
JAER60-L2	φ 46	4-M4x10	≤ φ 8	34	φ 30	5	60	137.5	172.5	9
	φ 66.7	4-M4x10	≤ φ 8	34	φ 38.1	5	60	137.5	172.5	8
	φ 70	4-M4x10, 4-M5x12	≤ φ 14	34	φ 50	5	60	137.5	172.5	9

* C1~C10是公制标准马达连接板之尺寸, 可根据客户要求单独定做。
* C1~C10are motor (metric standard) specific dimensions, which could be customised.

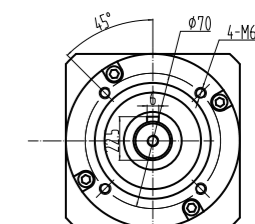
外形尺寸图表 / OUTLINE DIMENSION SHEET

JAER 90-L1

输出端/OUTPUT

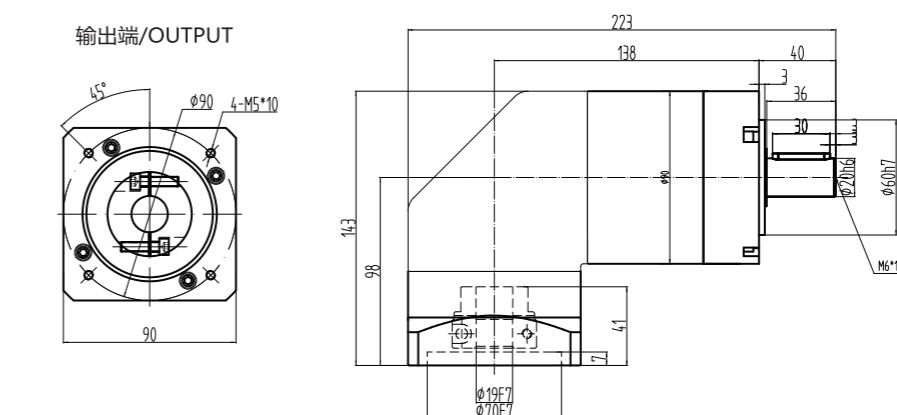


输入端/INPUT

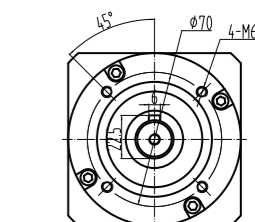


JAER 90-L2

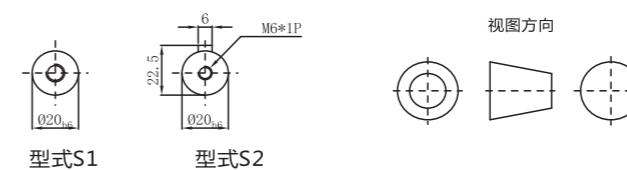
输出端/OUTPUT



输入端/INPUT



输出轴径/Output Diameter



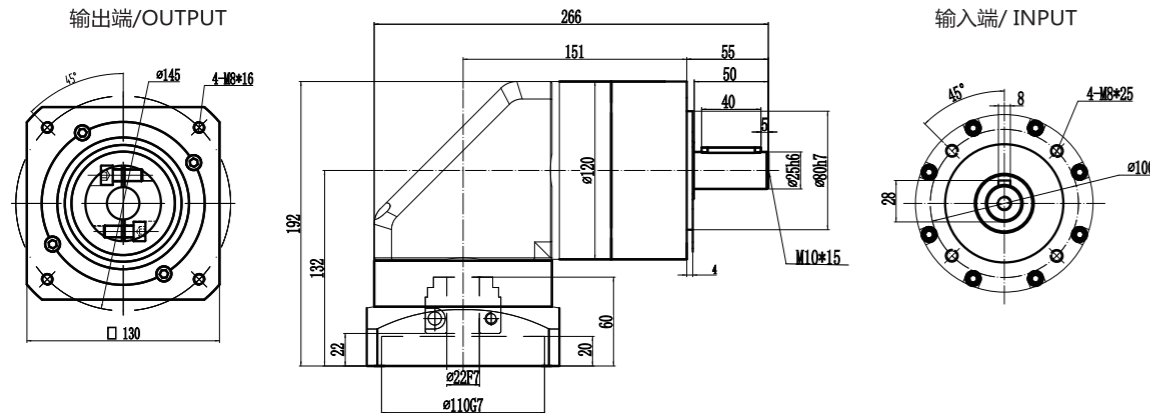
*输入马达连接板之尺寸, 可根据客户要求单独定做。
*The input motor specific dimensions could be customised.

尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
JAER90-L1	φ 70	4-M4x12, 4-M5x12	≤ φ 14	46	φ 50	4	90	100	140	6
	φ 75	4-M4x12, 4-M5x12	≤ φ 14	46	φ 60	5.5	90	100	140	6
	φ 90	4-M5x15, 4-M6x15	≤ φ 19	46	φ 70	7	90	100	140	7
	φ 100	4-M6x15	≤ φ 19	46	φ 80	7	90	100	140	7
	φ 115	4-M8x20	≤ φ 24	61.5	φ 95	10	100	100	140	12.5
	φ 145	4-M8x20	≤ φ 24	61.5	φ 110	10	130	100	140	12.5
JAER90-L2	φ 70	4-M4x12, 4-M5x12	≤ φ 14	46	φ 50	4	90	119	159	6
	φ 75	4-M4x12, 4-M5x12	≤ φ 14	46	φ 60	5.5	90	119	159	6
	φ 90	4-M5x15, 4-M6x15	≤ φ 19	46	φ 70	7	90	119	159	7
	φ 100	4-M6x15	≤ φ 19	46	φ 80	7	90	119	159	7
	φ 115	4-M8x20	≤ φ 24	61.5	φ 95	10	100	119	159	12.5
	φ 145	4-M8x20	≤ φ 24	61.5	φ 110	10	130	119	159	12.5

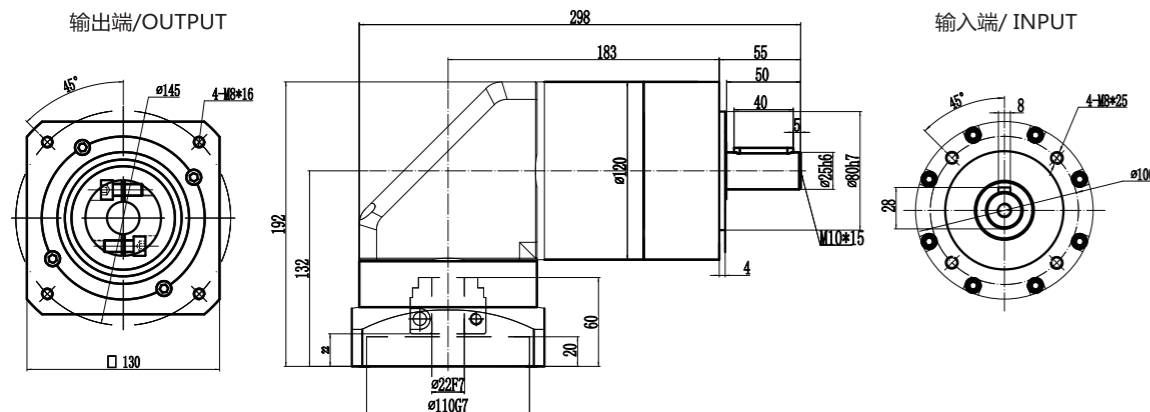
* C1~C10是公制标准马达连接板之尺寸, 可根据客户要求单独定做。
* C1~C10are motor (metric standard) specific dimensions, which could be customised.

外形尺寸图表 / OUTLINE DIMENSION SHEET

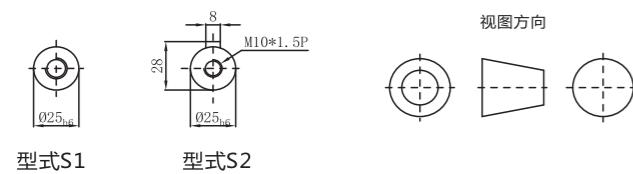
PGCR120-L1



PGCR120-L2



输出轴径/Output Diameter



*输入马达连接板之尺寸,可根据客户要求单独定做。
*The input motor specific dimensions could be customised.

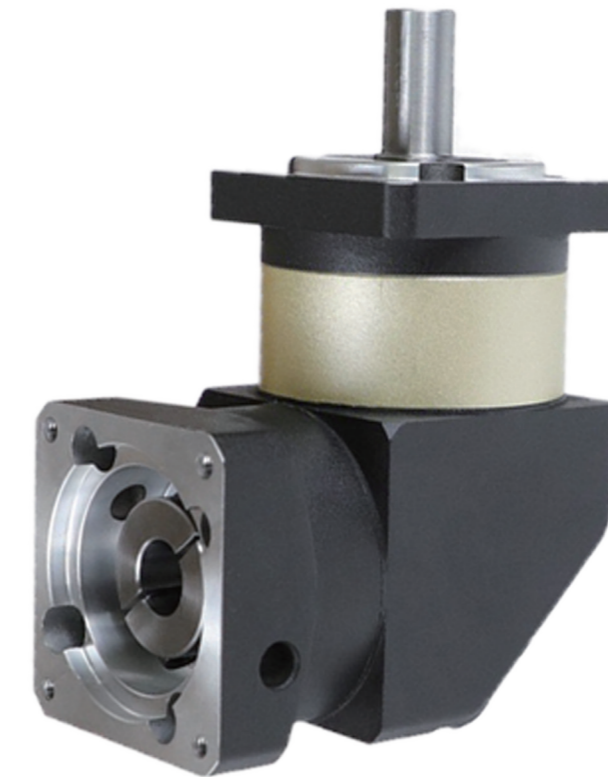
尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
PGCR 120-L1	φ 90	4-M5x15,4-M6x15	≤ φ 19	48.5	φ 70	7	115	153	208	7
	φ 100	4-M6x15	≤ φ 19	48.5	φ 80	7	115	153	2	7
	φ 115	4-M8x20	≤ φ 24	58	φ 95	10	115	153	208	11.5
	φ 145	4-M8x20	≤ φ 24	59	φ 110	10	130	153	2	12.5
PGCR 120-L2	φ 90	4-M5x15,4-M6x15	≤ φ 19	48.5	φ 70	7	115	180	2	7
	φ 100	4-M6x15	≤ φ 19	48.5	φ 80	7	115	180	235	7
	φ 115	4-M8x20	≤ φ 24	58	φ 95	10	115	180	235	11.5
	φ 145	4-M8x20	≤ φ 24	59	φ 110	10	130	180	235	12.5
	φ 145	4-M8x20	≤ φ 24	68	φ 110	10	130	189	244	21.5

* C1~C10是公制标准马达连接板之尺寸,可根据客户要求单独定做。
* C1~C10are motor (metric standard) specific dimensions, which could be customised.



JAFR系列精密行星减速机

JAFR series precision planetary reducer



- JAFR060
- JAFR090
- JAFR120
- JAFR160

JAFR系列减速机核心特性

The Core features of JAFRseries reducer

- 1.采用直齿齿轮传动,经渗碳淬火处理,齿向齿廓修形处理,确保运行平稳,噪音小;
- 2.结构简单,可大批量生产,且交货期快性价比高;
- 3.减速机种类齐全,可以满足市场上绝大多数减速机的配合。

1. Adopt straight tooth gear transmission, through carburizing and quenching treatment, tooth profile modification treatment, ensure smooth operation, low noise.

2. Simple structure, mass production, and fast delivery time and high cost performance.

3. Reducer has a complete range, which can meet the needs of most reducer in the market.

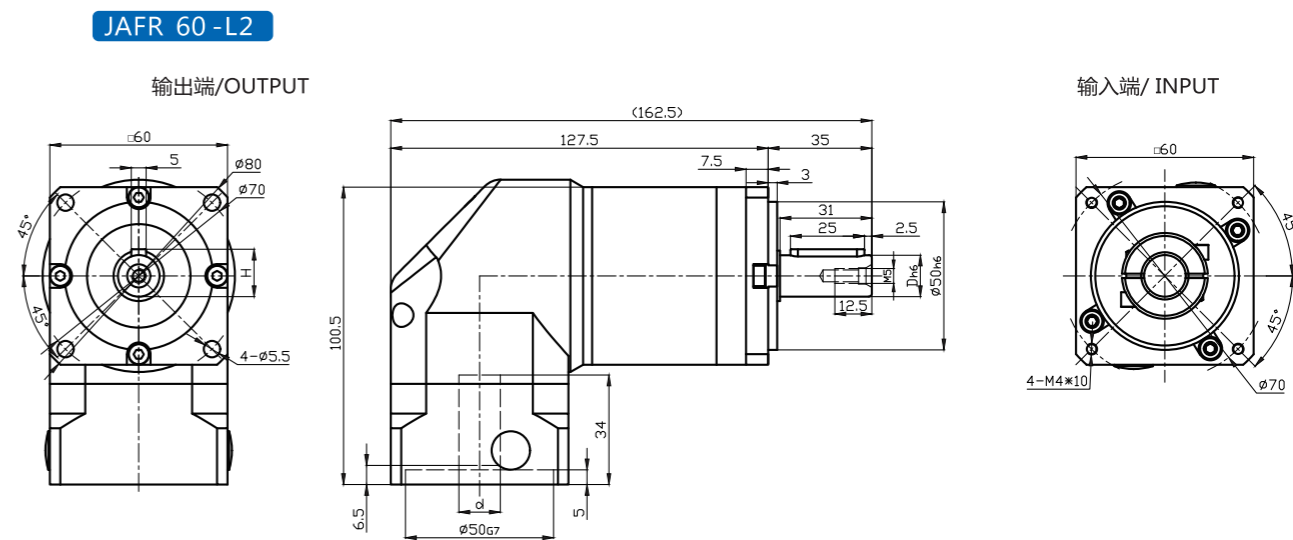
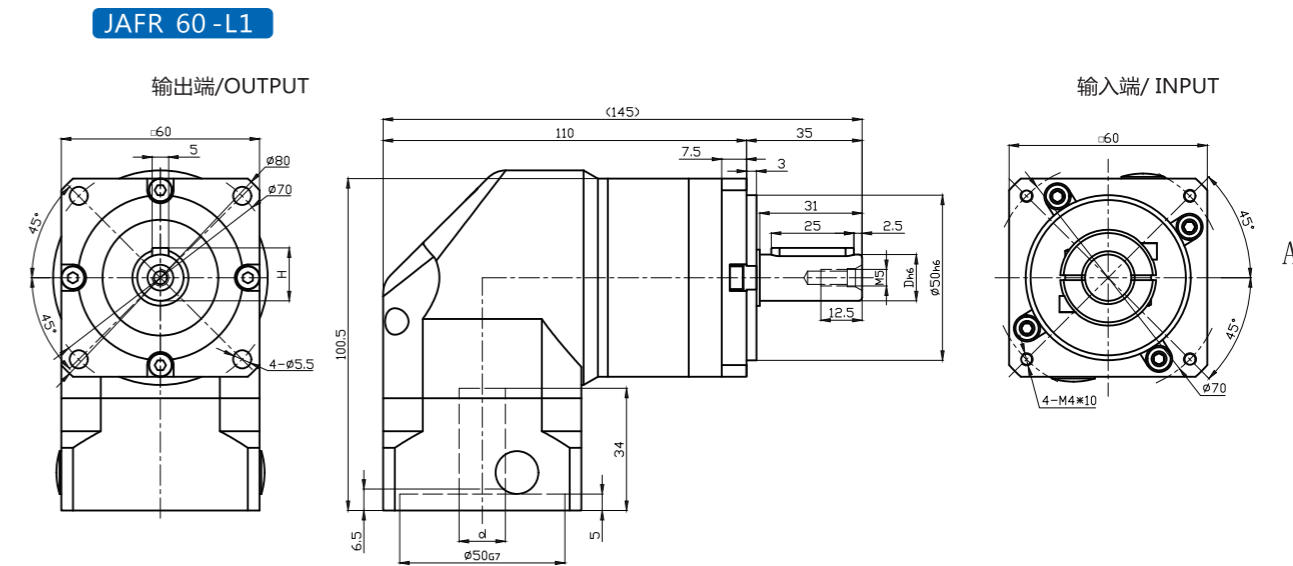
减速机性能资料 / GEAR BOX PERFORMANCE INFORMATION

规格Specifications	单位unit	节数Stage	减速比Ratio	PGER 060	PGER 090	PGER 120
额定输出力矩T2N Nominal Output Torque	N.m	1	3	32.6	95.2	283
			4	30.1	74.6	249
			5	32.3	95.2	283
			7	30.9	85.6	219
			10	25.0	75.0	210
		2	12	32.6	95.2	283
			15	32.6	95.2	283
			20	30.1	74.6	249
			25	32.3	95.2	283
			30	32.3	95.2	283
			35	32.3	95.2	283
			40	32.3	95.2	283
			50	32.3	95.2	283
			70	30.9	85.0	219
100	25.0	75.0	210			
急停力矩T2NOT Emergency Stop Torque	N.m	1、2	3 ~ 100	3倍额定输出力矩 (3.0 times of Nominal Output Torque)		
额定输入转速n1 Nominal Input Speed	rpm	1、2	3 ~ 100	3000	3000	2500
最大输入转速n1max Max.Input Speed	rpm	1、2	3 ~ 100	6000	6000	5000
超精密背隙P0 Ultraprecise Backlash	arcmin	1	3 ~ 10	-	-	≤ 3
		2	12 ~ 100	-	-	≤ 5
精密背隙P1 Precise Backlash	arcmin	1	3 ~ 10	-	≤ 6	≤ 5
		2	12 ~ 100	-	≤ 9	≤ 7
标准背隙P2 Standard Backlash	arcmin	1	3 ~ 10	≤ 12	≤ 9	≤ 7
		2	12 ~ 100	≤ 15	≤ 12	≤ 9
扭转刚性 Torsional Rigidity	N.m /arcmin	1、2	3 ~ 100	2.6	7.5	15.5
容许径向力F2rB Max.Radial Load	N	1、2	3 ~ 100	889	1630	3380
容许轴向力F2aB Max.Axial Load	N	1、2	3 ~ 100	850	1420	2930
使用温度 Operating Temp	° C	1、2	3 ~ 100	-10° C ~ +90° C		
使用寿命 Service Life	hr	1、2	3 ~ 100	20,000 (10,000/连续运转continuiu operiong)		
效率η Efficiency	%	1	3 ~ 10	≥ 96%		
		2	12 ~ 100	≥ 92%		
重量 Weight	kg	1	3 ~ 10	1.3	3.0	7.3
		2	12 ~ 100	2.0	5.0	11.5
安装方向 mounting Position	-	1、2	3 ~ 100	任意方向 Any direction		
噪音值 Noise Level	dBA/1m	1、2	3 ~ 100	60	65	65
防护等级 Protection Class	-	1、2	3 ~ 100	Ip65		
润滑 Lubrication		1、2	3 ~ 100	全合成润滑脂油 Synthetic Lubricant		

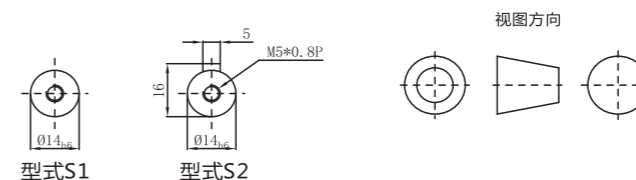
减速机转动惯量

规格Specifications	单位unit	节数Stage	减速比Ratio	PGER 060	PGER 090	PGER 120
转动惯量J1 Inertia	kg.cm ²	1	3	0.25	0.81	2.2
			4	0.18	0.65	1.8
			5	0.16	0.62	1.61
			7	0.14	0.60	1.55
			10	0.14	0.60	1.53
		2	12	0.16	0.62	1.61
			15	0.16	0.62	1.61
			20	0.16	0.62	1.61
			25	0.16	0.62	1.61
			30	0.14	0.60	1.55
			35	0.14	0.60	1.55
			40	0.14	0.60	1.55
			50	0.14	0.60	1.55
			70	0.14	0.60	1.53
100	0.14	0.60	1.53			

外形尺寸图表 / OUTLINE DIMENSION SHEET



输出轴径/Output Diameter



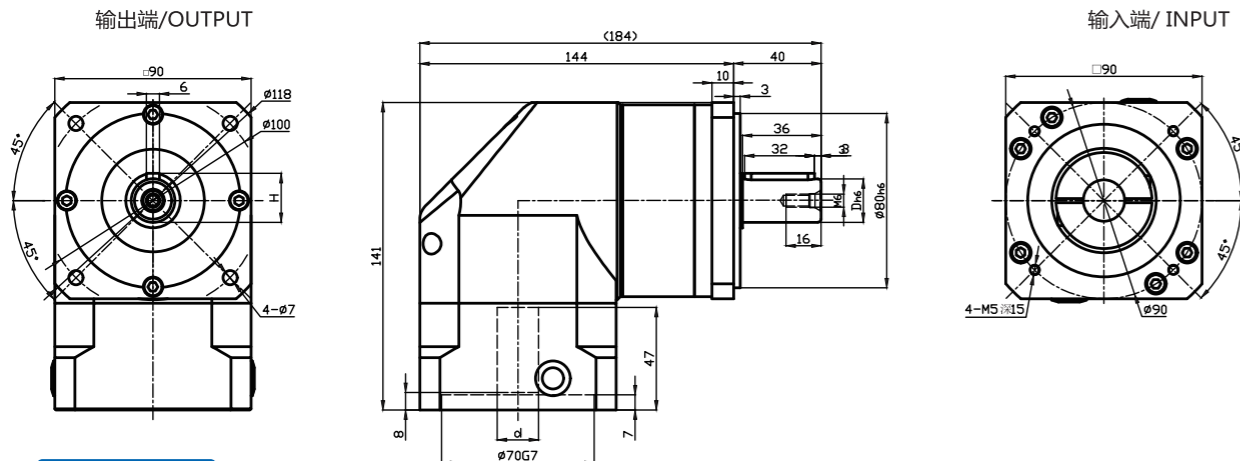
*输入马达连接板之尺寸, 可根据客户要求单独定做。
*The input motor specific dimensions could be customised.

尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
JAFR60-L1	ø 46	4-M4x10	≤ ø 8	34	ø 30	5	60	81	116	9
	ø 66.7	4-M4x10	≤ ø 8	34	ø 38.1	5	60	81	116	8
	ø 70	4-M4x10, 4-M5x12	≤ ø 14	34	ø 50	5	60	81	116	9
JAFR60-L2	ø 46	4-M4x10	≤ ø 8	34	ø 30	5	60	137.5	172.5	9
	ø 66.7	4-M4x10	≤ ø 8	34	ø 38.1	5	60	137.5	172.5	8
	ø 70	4-M4x10, 4-M5x12	≤ ø 14	34	ø 50	5	60	137.5	172.5	9

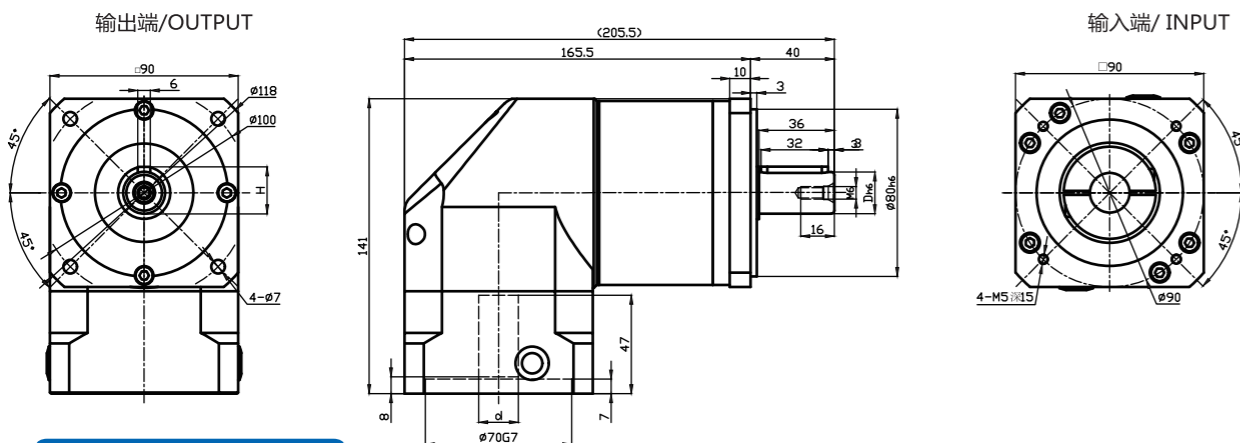
* C1~C10是公制标准马达连接板之尺寸, 可根据客户要求单独定做。
* C1~C10are motor (metric standard) specific dimensions, which could be customised.

外形尺寸图表 / OUTLINE DIMENSION SHEET

JAFR 90-L1



JAFR 90-L2



输出轴径/Output Diameter



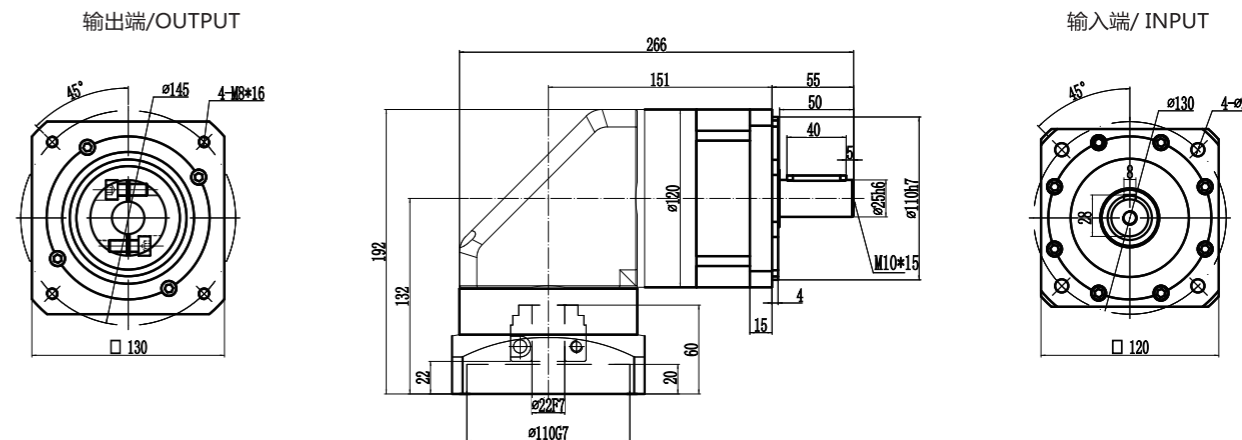
*输入马达连接板之尺寸, 可根据客户要求单独定做。
*The input motor specific dimensions could be customised.

尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
JAFR90-L1	φ 70	4-M4x12,4-M5x12	≤ φ 14	46	φ 50	4	90	100	140	6
	φ 75	4-M4x12,4-M5x12	≤ φ 14	46	φ 60	5.5	90	100	140	6
	φ 90	4-M5x15,4-M6x15	≤ φ 19	46	φ 70	7	90	100	140	7
	φ 100	4-M6x15	≤ φ 19	46	φ 80	7	90	100	140	7
	φ 115	4-M8x20	≤ φ 24	61.5	φ 95	10	100	100	140	12.5
JAFR90-L2	φ 70	4-M4x12,4-M5x12	≤ φ 14	46	φ 50	4	90	119	159	6
	φ 75	4-M4x12,4-M5x12	≤ φ 14	46	φ 60	5.5	90	119	159	6
	φ 90	4-M5x15,4-M6x15	≤ φ 19	46	φ 70	7	90	119	159	7
	φ 100	4-M6x15	≤ φ 19	46	φ 80	7	90	119	159	7
	φ 115	4-M8x20	≤ φ 24	61.5	φ 95	10	100	119	159	12.5
φ 145	4-M8x20	≤ φ 24	61.5	φ 110	10	130	119	159	12.5	

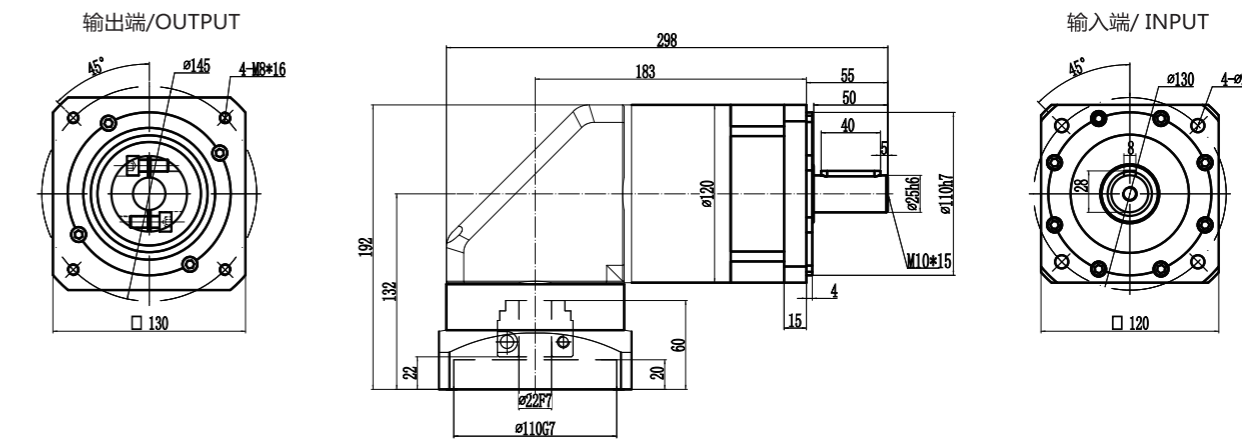
* C1~C10是公制标准马达连接板之尺寸,可根据客户要求单独定做。
* C1~C10are motor (metric standard) specific dimensions, which could be customised.

外形尺寸图表 / OUTLINE DIMENSION SHEET

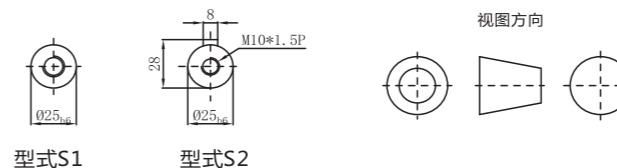
JAFR 120-L1



JAFR 120-L2



输出轴径/Output Diameter



*输入马达连接板之尺寸, 可根据客户要求单独定做。
*The input motor specific dimensions could be customised.

尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
JAFR 120-L1	φ 90	4-M5x15,4-M6x15	≤ φ 19	48.5	φ 70	7	115	153	208	7
	φ 100	4-M6x15	≤ φ 19	48.5	φ 80	7	115	153	2	7
	φ 115	4-M8x20	≤ φ 24	58	φ 95	10	115	153	208	11.5
	φ 145	4-M8x20	≤ φ 24	59	φ 110	10	130	153	2	12.5
	φ 145	4-M8x20	≤ φ 24	68	φ 110	10	130	162	217	21.5
JAFR 120-L2	φ 90	4-M5x15,4-M6x15	≤ φ 19	48.5	φ 70	7	115	180	2	7
	φ 100	4-M6x15	≤ φ 19	48.5	φ 80	7	115	180	235	7
	φ 115	4-M8x20	≤ φ 24	58	φ 95	10	115	180	235	11.5
	φ 145	4-M8x20	≤ φ 24	59	φ 110	10	130	180	235	12.5
	φ 145	4-M8x20	≤ φ 24	68	φ 110	10	130	189	244	21.5

* C1~C10是公制标准马达连接板之尺寸,可根据客户要求单独定做。
* C1~C10are motor (metric standard) specific dimensions, which could be customised.


行星减速机马达安装说明书 / PLANETARY GEARBOX WITH MOTOR MOUNTING INSTRUCTIONS

For General Type

1

先确认马达减速机规格是否正确，并将马达与减速机安装面擦拭干净。

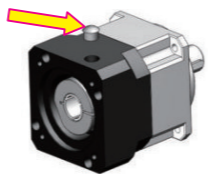
Check the motor and gearbox size. Clean the mounting surface.



2

将连接板上扣式塞头取下，转动马达锁紧环，直到锁紧环螺丝对准塞头孔。

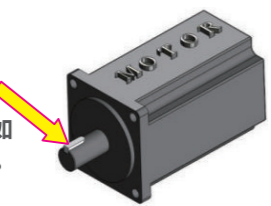
Take off the plug from the bracket. Revolve the set collar until the bolt is aligned with the hole.



3

取下马达上原先的键，如有必要，请安装平衡键。

Remove the key from the motor shaft. Mounting the balance key if necessary.



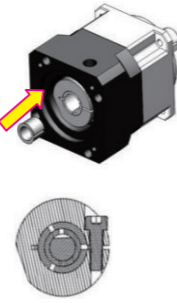
4

确认马达轴心尺寸，轴心太小选用适当衬套。

Make sure the motor shaft size. Choose the right bushing if necessary.

当马达为平轴状，对准衬套夹缝在平轴中心线，使锁紧环螺丝与平轴面呈垂直。

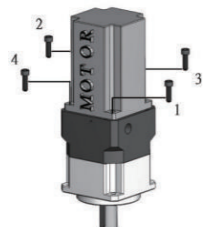
As installing on flatted shaft, be sure to align the collet gap over the flat and the set collar bolt perpendicular to the flat.



5

以锁紧扭力表建议扭力值5%，依照1至4顺序，将螺丝轻轻锁上。

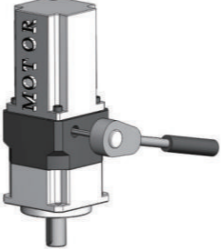
Tighten the mounting bolts in 1~4 order with torque wrench to 5% specified torque.



6

将马达与减速机直立摆设，参照锁紧扭力表建议之扭力值，以扭力扳手将马达锁紧环螺丝锁紧。

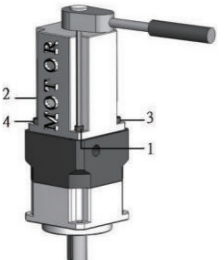
Install gearbox and motor vertically. Tighten the set collar bolt with torque wrench to specified torque.



7

以锁紧扭力表建议之扭力值，依照1至4顺序，用扭力扳手将螺丝锁紧。

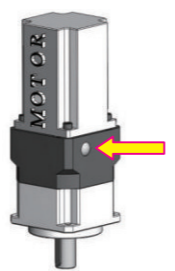
Tighten the mounting bolts in 1~4 order with torque wrench to specified torque.



8

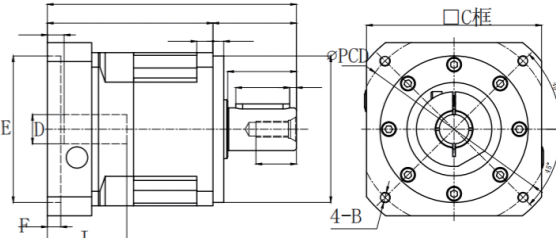
将扣式塞头装回。

Put the plug back.



行星减速机输入端配电机尺寸表 / DIMENSION TABLE OF MOTOR AT INPUT END OF PLANETARY REDUCER

减速机框号	配电机端口尺寸							减速机框号	配电机端口尺寸						
60型减速机	D轴	E止口	距PCD	B孔	C框	F止口高度	I轴长	115型减速机	D轴	E止口	距PCD	B孔	C框	F止口高度	I轴长
T1	11	50	70	M4	60	3	30	T1	19	70	90	M6	80	3	40
T2	11	50	70	M5	60	3	30	T2	19	80	100	M6	80	3	40
T3	14	50	70	M4	60	3	30	T3	19	95	115	M8	100	6	55
T4	14	50	70	M5	60	3	30	T4	19	95	130	M8	110	6	55
T5	8	38.1	66.7	M4	57	3	30	T5	19	110	145	M8	130	6	55
T6	8	38.1	66.7	M5	57	3	30	T6	22	110	145	M8	130	6	55
T7	6.35	38.1	66.7	M4	57	3	30	T7	24	110	145	M8	130	6	55
T8	19	70	90	M6	80	3	55	T8	35	114.3	200	M12	180	3.2	79
T9	19	70	90	M5	80	3	55	T9	19	110	145	M8	130	6	65
T10	8	36	70.7	M4	60	3	30	T10	22	110	145	M8	130	6	65
T11	16	80	100	M6	90	3	55	T11	24	110	145	M8	130	6	65
T12	11	60	75	M5	70	3	30	T12	28	110	145	M8	130	6	65
								T13	22	95	115	M8	100	6	55
80/90型减速机	D轴	E止口	距PCD	B孔	C框	F止口高度	I轴长	142/160型减速机	D轴	E止口	距PCD	B孔	C框	F止口高度	I轴长
T1	19	70	90	M5	80	3	40	T14	24	95	115	M8	100	6	55
T2	19	80	100	M5	80	3	40	T15	28	110	145	M8	130	6	55
T3	19	70	90	M6	80	3	40	T16	24	130	165	M10	142	6	65
T4	16	80	100	M5	80	3	40	T17	24	95	115	M6	100	6	55
T5	14	73	98.9	M5	90	3	40	T18	32	130	165	M10	142	6	65
T6	14	50	70	M4	60	3	30	T22	19	55.2	125.9	M8	115	3	55
T7	24	110	145	M8	130	6	55	T1	42	114.3	200	M12	180	3.2	79
T8	22	110	145	M8	130	6	55	T2	35	114.3	200	M12	180	3.2	113
T9	16	80	100	M6	80	3	40	T3	42	114.3	200	M12	180	3.2	113
T10	19	95	115	M8	100	6	55	T4	24	110	145	M8	130	6	65
T11	19	95	130	M8	110	6	55	T5	19	110	145	M8	130	6	55
T12	19	110	145	M8	130	6	55	T6	22	110	145	M8	130	6	55
T13	19	110	145	M8	130	6	65	T7	24	110	145	M8	130	6	55
T14	22	110	145	M8	130	6	65	T8	35	114.3	200	M12	180	3.2	79
T15	24	110	145	M8	130	6	65	T9	19	110	145	M8	130	6	65
T16	14	50	70	M5	60	3	30	T10	22	110	145	M8	130	6	65
T17	22	95	115	M8	110	6	55	T11	24	110	145	M8	130	6	65
T18	24	95	115	M8	110	6	55	T12	28	110	145	M8	130	6	65
T19	19	95	115	M6	100	6	55	T13	28	114.3	200	M12	180	3.2	79
T20	24	95	115	M6	100	6	55	T14	32	130	165	M10	155	3.5	65
T21	19	80	100	M6	90	6	55	T15	32	114.3	200	M10	180	3.5	79
T22	14	73	98.9	M6	86	6	55	T16	24	110	130	M8	130	6	79
T23	12.7	73	98.9	M6	86	6	55	T17	38	180	215	M12	190	6	79
T24	24	110	130	M8	130	6	55	T18	28	130	165	M10	150	6	65
180型减速机	D轴	E止口	距PCD	B孔	C框	F止口高度	I轴长								
T1	42	114.3	200	M12	180	3.2	79								
T2	35	114.3	200	M12	180	3.2	113								
T3	42	114.3	200	M12	180	3.2	113								
T4	55	180	215	M12	190	3.2	113								
T5	55	200	230	M12	220	3.2	113								
T6	42	180	215	M12	190	3.2	79								
T7	24	110	145	M8	130	6	65								
T8	35	114.3	200	M12	180	3.2	79								
T9	38	180	215	M12	190	6	113								
T10	22	110	145	M8	130	6	55								
T11	42	180	215	M12	190	3.2	113								
T12	38	180	215	M12	190	3.2	113								
T13	42	200	235	M12	200	3.2	113								
T14	42	180	215	M12	190	3.2	83								



* 如果不清楚可以直接把电机品牌型号或尺寸图发过来我们来帮你配。
* If you are not clear, you can directly send the brand model or size drawing of the motor to us to help you match it.