

FAB Series

- ✓ FAB042
- ✓ FAB060
- ✓ FAB090
- ✓ FAB115
- ✓ FAB142
- ✓ FAB180
- ✓ FAB220



FAB

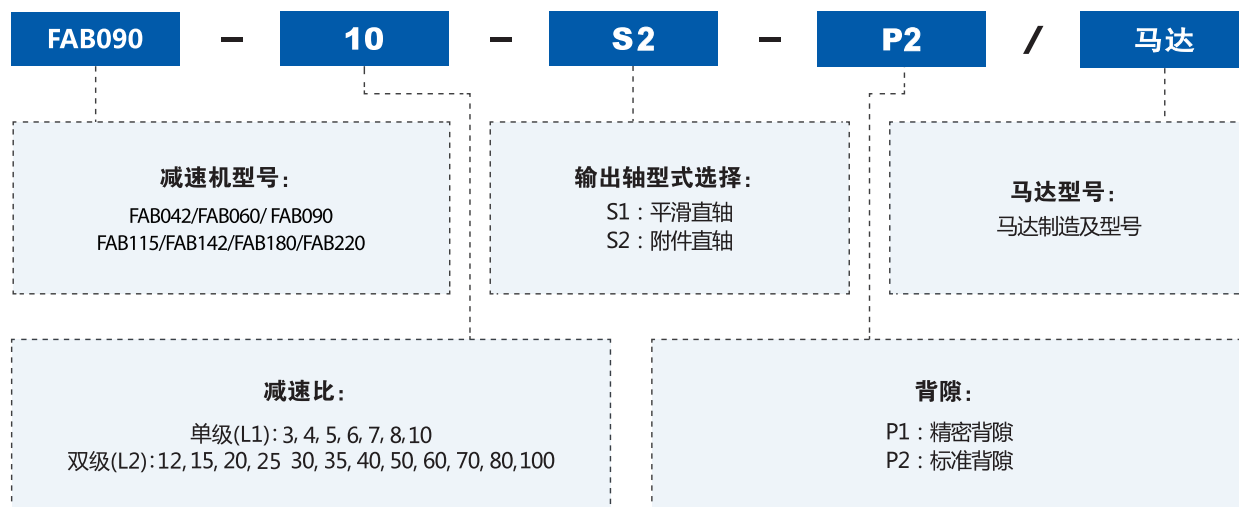
Series

SEIKO QUALITY

SHARED GLOBALLY

精工品质 全球共享

型号说明 MODEL ILLUMINATE



选用范例: FAB090-10-S2-P2 / MHMD-082G1U

FAB Series

性能 -FAB 减速机

规 格	单 位	节 数	减速比 ^①	FAB042	FAB060	FAB090	FAB115	FAB142	FAB180	FAB220
额定输出力矩 T_{2N}	Nm	单级 L1	3	20	55	130	208	342	588	1140
			4	19	50	140	290	542	1050	1700
			5	22	60	160	330	650	1200	2000
			6	20	55	150	310	550	1100	1900
			7	19	50	140	300	550	1100	1800
			8	17	45	120	260	500	1000	1600
		双级 L2	10	14	40	100	230	450	520	1220
			12	20	55	130	208	342	588	1140
			15	20	55	130	208	342	588	1140
			20	19	50	140	290	542	1050	1700
			25	22	60	160	330	650	1200	2000
			30	22	50	130	208	342	1200	2000
			350	22	50	160	300	650	1200	2000
			40	22	50	140	290	542	1200	2000
			50	22	55	160	330	650	1200	2000
			60	20	55	150	310	600	1100	1900
			70	19	50	140	300	550	1100	1800
			80	17	50	120	260	500	1000	1600
			100	14	40	100	230	450	520	1220
紧急制动力矩 T_{2B}	Nm	L1.L2	3~100	3 倍额定输出力矩						
额定输入转速 N_1	rpm	L1.L2	3~100	5000	5000	4000	4000	3000	3000	2000
最大输入转速 n_{1B}	rpm	L1.L2	3~100	10000	10000	8000	8000	6000	6000	4000
高精背隙 P0	arcmin	单级 L1	3~10	—	—	≤ 1	≤ 1	≤ 1	≤ 1	≤ 21
		双级 L2	12~100	—	—	—	≤ 3	≤ 3	≤ 3	≤ 3
精密背隙 P1	arcmin	单级 L1	3~10	≤ 3	≤ 3	≤ 3	≤ 3	≤ 3	≤ 3	≤ 3
		双级 L2	12~100	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5
标准背隙 P2	arcmin	单级 L1	3~10	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5
		双级 L2	12~100	≤ 7	≤ 7	≤ 7	≤ 7	≤ 7	≤ 7	≤ 7
扭转刚性	Nm/arcmin	L1.L2	3~100	3	7	14	25	50	145	225
容许径向力 F_{2rB} ^①	N	L1.L2	3~100	780	1500	3250	6700	9400	14500	50000
容许轴向力 F_{2aB} ^①	N	L1.L2	3~100	390	765	1625	3350	4700	7250	25000
使用寿命	hr	L1.L2	3~100	20000 ^③						
效率 η	%	单级 L1	3~10	≥ 97%						
		双级 L2	12~100	≥ 94%						
重量	kg	单级 L1	3~10	0.5	1.3	3.7	7.8	14.5	29	48
		双级 L2	12~100	0.8	1.9	4.1	9	17.5	33	60
使用温度	℃	L1.L2	3~100	-10℃ ~+90℃						
润滑		L1.L2	3~100	合成润滑油脂 / 终身润滑						
防护等级		L1.L2	3~100	IP65						
安装方式		L1.L2	3~100	任意方向						
噪音值 ($n_1=3000\text{rpm}$)	dB	L1.L2	3~100	≤ 56	≤ 58	≤ 60	≤ 63	≤ 65	≤ 67	≤ 70

惯量 -FAB 减速机

规 格	单 位	节 数	减速比 ^①	FAB042	FAB060	FAB090	FAB115	FAB142	FAB180	FAB220
转动惯量 J_1	$\text{kg} \cdot \text{cm}^2$	L1	3	0.03	0.16	0.61	3.25	9.21	28.98	69.61
			4	0.03	0.14	0.48	2.74	7.54	23.67	54.37
			5	0.03	0.13	0.47	2.71	7.42	23.27	53.27
			6	0.03	0.13	0.45	2.65	7.25	22.75	51.72
			7	0.03	0.13	0.45	2.62	7.14	22.48	50.97
			8	0.03	0.13	0.44	2.58	7.07	22.59	50.84
		L2	10	0.03	0.13	0.44	2.57	7.03	22.51	50.56
			12	0.03	0.3	0.13	0.47	2.71	7.42	23.29
			15	0.03	0.3	0.13	0.47	2.71	7.42	23.29
			20	0.03	0.3	0.13	0.47	2.71	7.42	23.29
			25	0.03	0.3	0.13	0.47	2.71	7.42	23.29
			30	0.03	0.3	0.13	0.47	2.71	7.42	23.29
			35	0.03	0.3	0.13	0.47	2.71	7.42	23.29
			40	0.03	0.3	0.13	0.47	2.71	7.42	23.29
			50	0.03	0.3	0.13	0.44	2.57	7.03	22.51
			60	0.03	0.3	0.13	0.44	2.57	7.03	22.51
			70	0.03	0.3	0.13	0.44	2.57	7.03	22.51
			80	0.03	0.3	0.13	0.44	2.57	7.03	22.51
			100	0.03	0.3	0.13	0.44	2.57	7.03	22.51

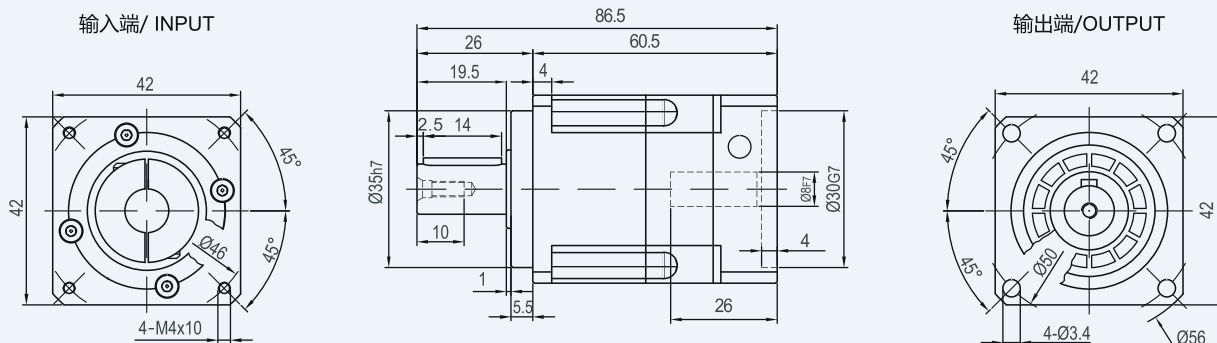
1. 减速比 ($i=N_1/N_{out}$)

2. 输出转速 100rpm 时, 作用于输出轴中心位置

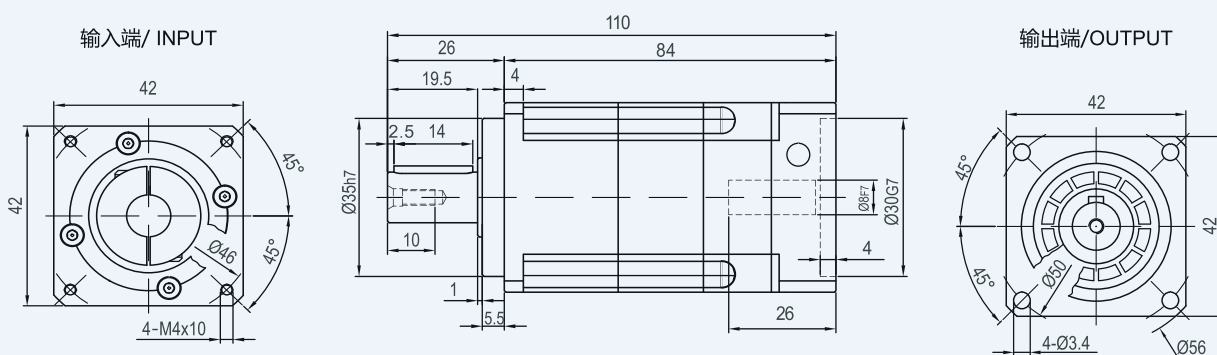
3. 连续运转降低使用寿命二分之一

外形尺寸图表 / OUTLINE DIMENSION SHEET

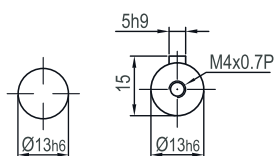
FAB-042-L1



FAB-042-L2



输出轴径



轴型式 S1 轴型式 S2

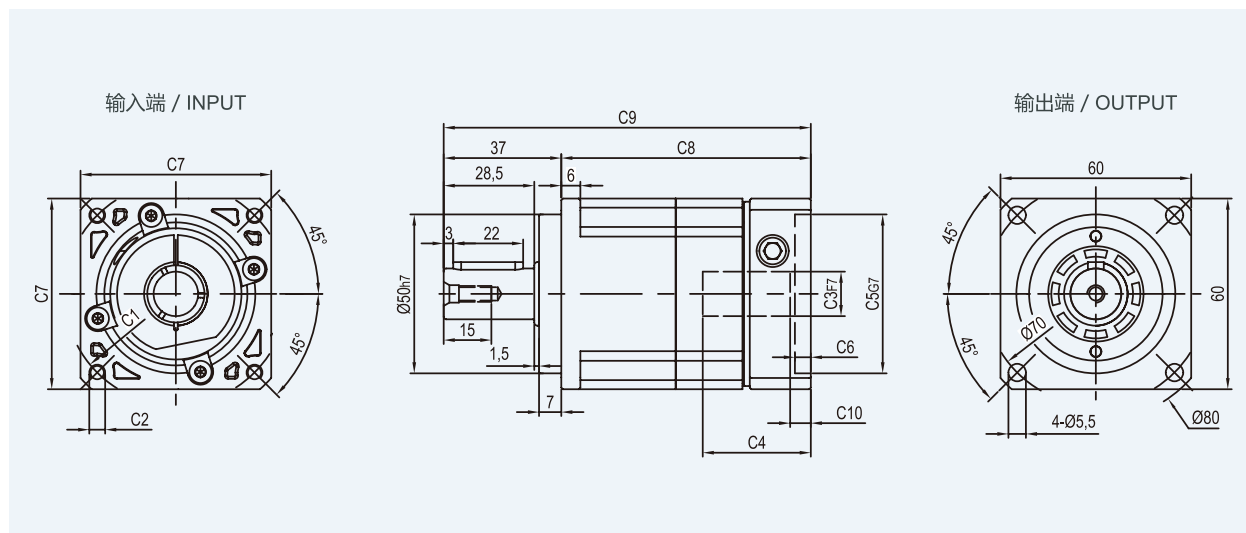
*输入马达连接板之尺寸,可根据客户要求单独定做。

*The input motor specific dimensions could be customised.

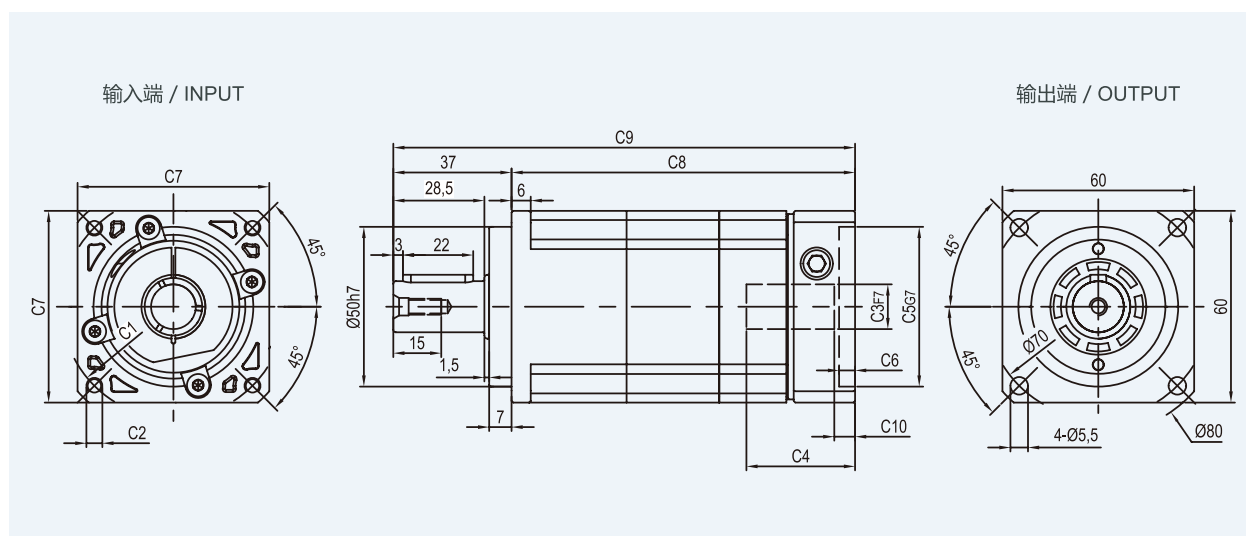
FAB Series

外形尺寸图表 / OUTLINE DIMENSION SHEET

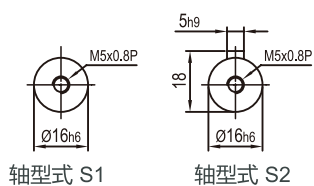
FAB-060-L1



FAB-060-L2



输出轴径



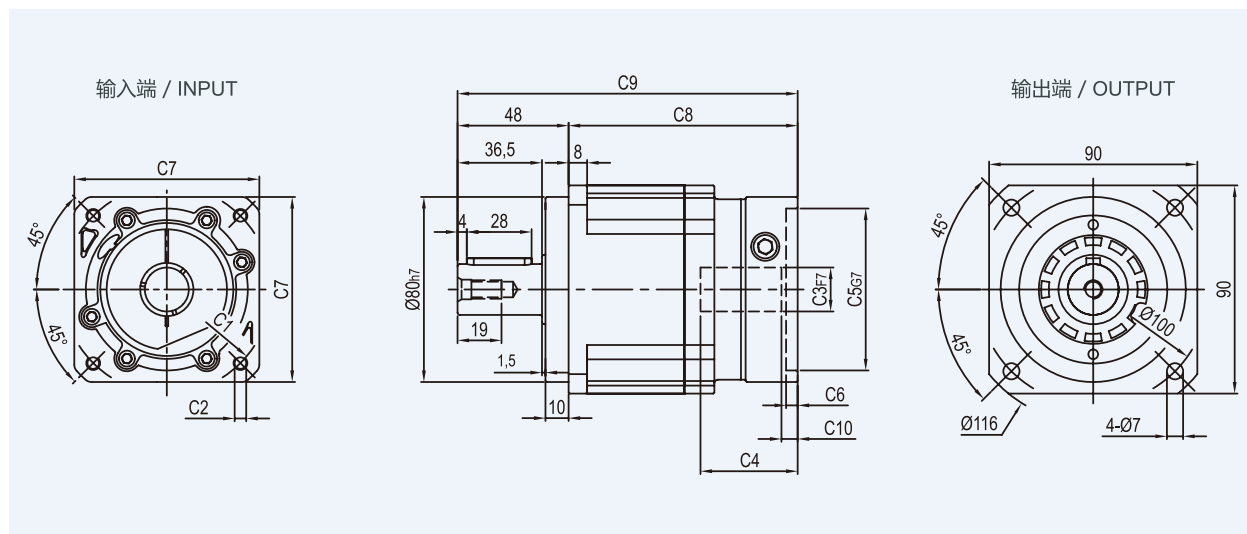
尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
FAB-060-L1	Ø66.7	4-M4x10	Ø8	34	Ø38.1	5	60	78.5	115.5	5.5
FAB-060-L2	Ø70	4-M4x10, 4-M5x12	Ø11, Ø14	34	Ø50	5	60	107.5	144.5	5.5
FAB-060-L1	Ø90	4-M5x12, 4-M6x14	Ø19	42	Ø70	6.5	80	85	122	12
FAB-060-L2								114	151	12

* C1~C7是公制标准马达连接板之尺寸,可根据客户要求单独定做。

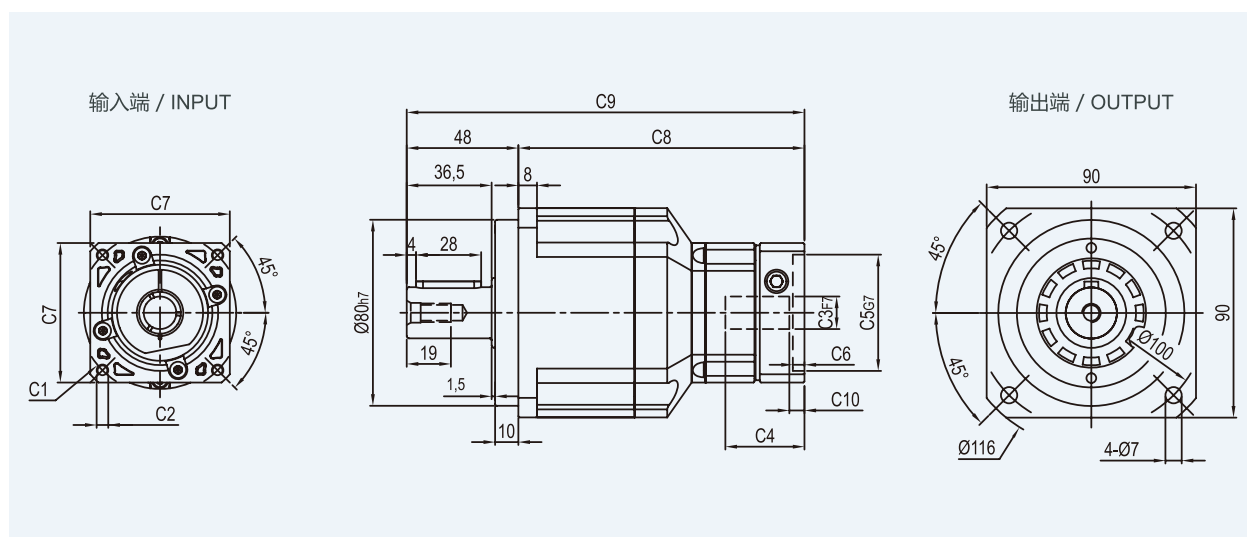
* C1~C7are motor(metric standard) specific dimensions, which could be customised.

外形尺寸图表 / OUTLINE DIMENSION SHEET

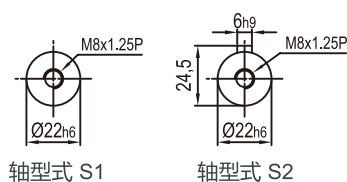
FAB-090-L1



FAB-090-L2



输出轴径



尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
FAB-090-L1	Ø90	4-M5x12,4-M6x14	Ø19	42	Ø70	6.5	80	99	147	7
	Ø100	4-M6x14	Ø16	42	Ø80	6.5	86	99	147	6
	Ø115	4-M8x20	Ø19, Ø22	56.5	Ø95	8	100	114.5	162.5	16.5
	Ø145	4-M8x20	Ø19, Ø22, Ø24	59	Ø110	11	130	117	165	19
FAB-090-L2	Ø66.7	4-M4x10	Ø8	34	Ø38.1	5	60	123	171	5.5
	Ø70	4-M4x10,4-M5x12	Ø11, Ø14	34	Ø50	5	60	123	171	5.5
	Ø90	4-M5x12,4-M6x14	Ø19	42	Ø70	6.5	80	129.5	177.5	12
	Ø100	4-M6x14	Ø16	42	Ø80	6.5	86	129.5	177.5	11

* C1~C7是公制标准马达连接板之尺寸,可根据客户要求单独定做。

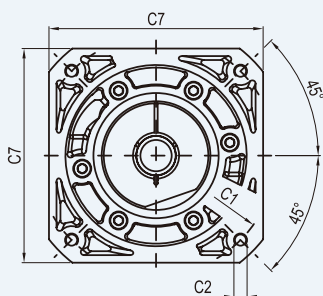
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FAB Series

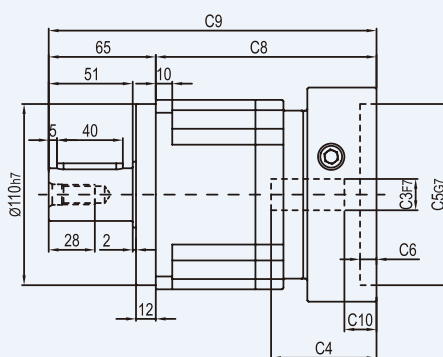
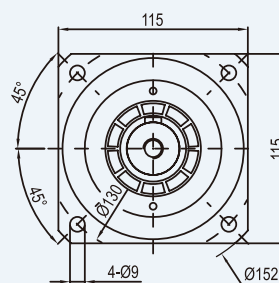
外形尺寸图表 / OUTLINE DIMENSION SHEET

FAB-115-L1

输入端 / INPUT

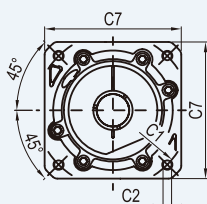


输出端 / OUTPUT

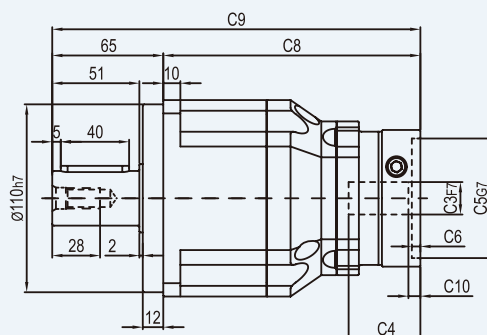
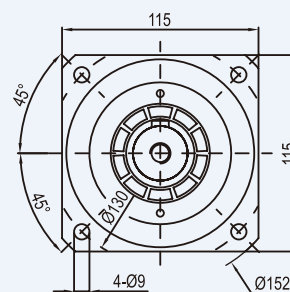


FAB-115-L2

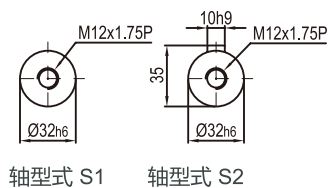
输入端 / INPUT



输出端 / OUTPUT



输出轴径



尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
FAB-115-L1	Ø145	4-M8x20	Ø19, Ø22, Ø24	64	Ø110	10	130	134	199	19.5
	Ø200	4-M12x28	Ø35	81	Ø114.3	10	180	151.5	216.5	28
FAB-115-L2	Ø90	4-M5x12, 4-M6x14	Ø19	42	Ø70	6.5	80	150.5	215.5	7
	Ø100	4-M6x14	Ø16	42	Ø80	6.5	86	150.5	215.5	6
	Ø115	4-M8x20	Ø19, Ø22	56.5	Ø95	8	100	166	231	16.5
	Ø145	4-M8x20	Ø19, Ø22, Ø24	59	Ø110	11	130	168.5	233.5	19

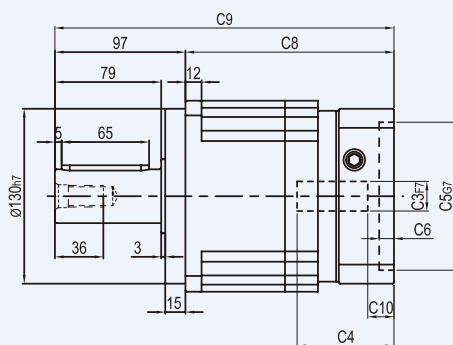
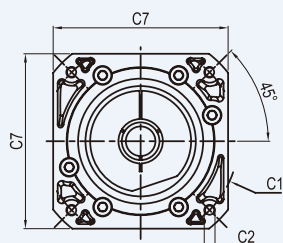
* C1~C7是公制标准马达连接板之尺寸,可根据客户要求单独定做。

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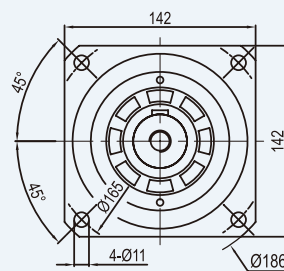
外形尺寸图表 / OUTLINE DIMENSION SHEET

FAB-142-L1

输入端/ INPUT

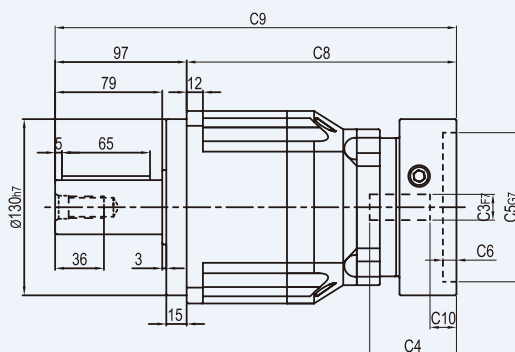
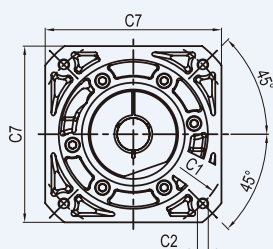


输出端/OUTPUT

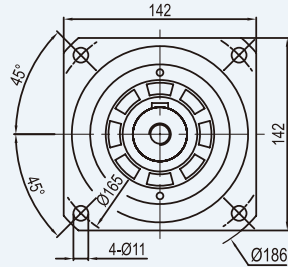


FAB-142-L2

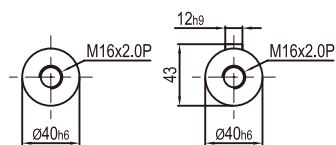
输入端/ INPUT



输出端/OUTPUT



输出轴径



轴型式 S1

轴型式 S2

尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
FAB-142-L1	Ø145	4-M8x20	Ø22, Ø24	72	Ø110	11	130	155	252	19.5
	Ø200	4-M12x28	Ø35	81.5	Ø114.3	8	180	165	262	25
FAB-142-L2	Ø145	4-M8x20	Ø19, Ø22, Ø24	64	Ø110	10	130	199	296	19.5
	Ø200	4-M12x28	Ø35	81	Ø114.3	10	180	216.5	313.5	28

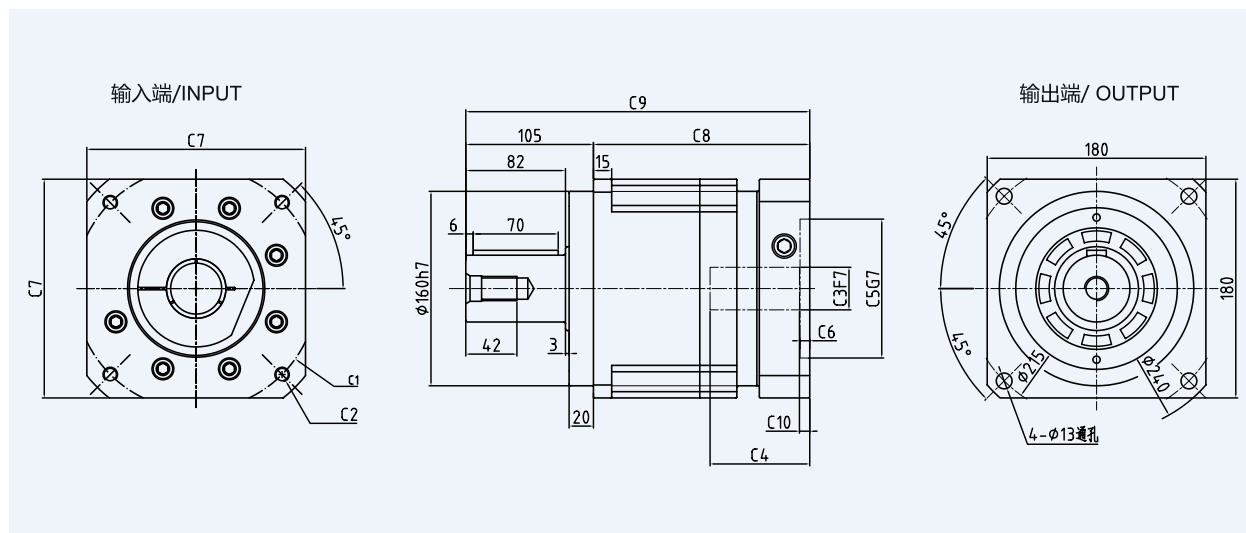
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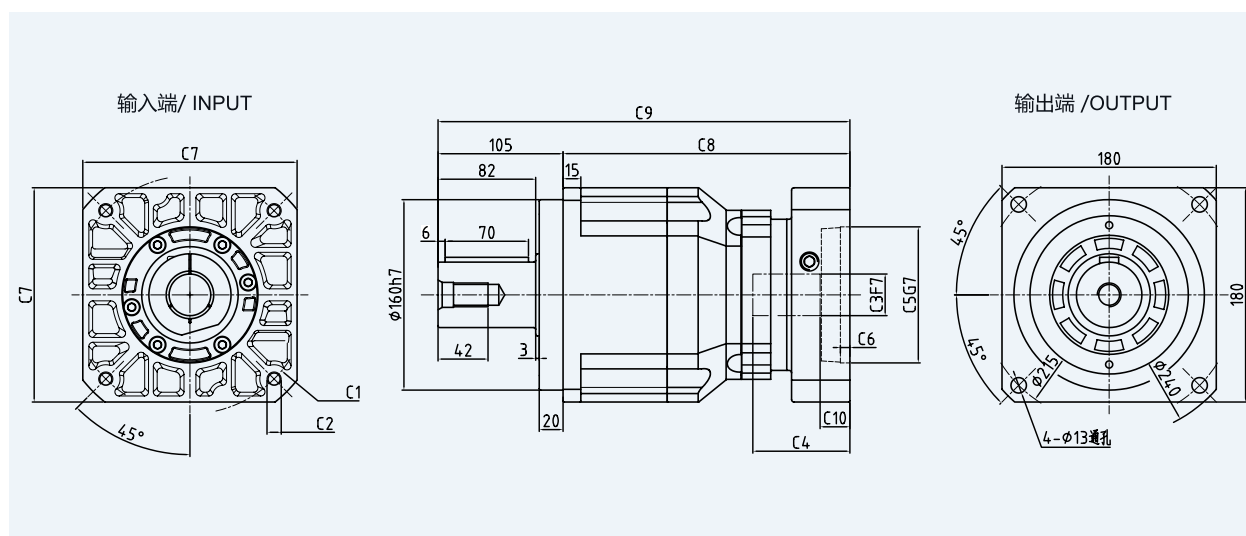
FAB Series

外形尺寸图表 / OUTLINE DIMENSION SHEET

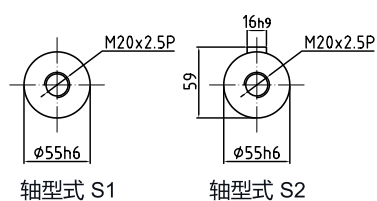
FAB-180-L1



FAB-180-L2



输出轴径



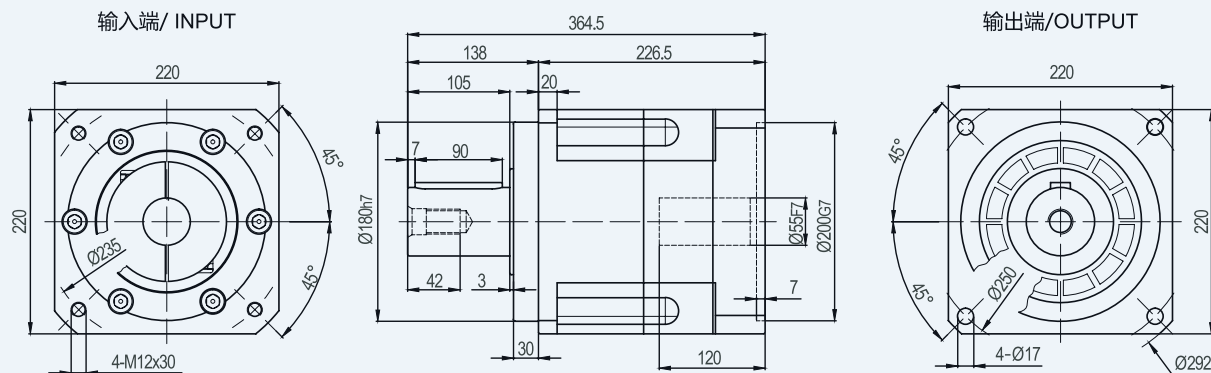
尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10
FAB180-L1	Ø200	4-M12X28	Ø35, Ø42	82	Ø114.3	8	180	178	283	8.5
	Ø200	4-M12X28	Ø42	117.5	Ø114.3	8	180	213.5	318.5	45.5
	Ø215	4-M12X28	Ø38, Ø42	87	Ø180	8	192	183	288	15
FAB180-L2	Ø145	4-M8X20	Ø22, Ø24	72	Ø110	11	130	231	336	19.5
	Ø200	4-M12X28	Ø35	81.5	Ø114.3	8	180	241	346	25
	Ø215	4-M12X28	Ø38	82	Ø180	8	192	243	348	25

* C1~C7是公制标准马达连接板的尺寸,可根据客户要求单独定做。

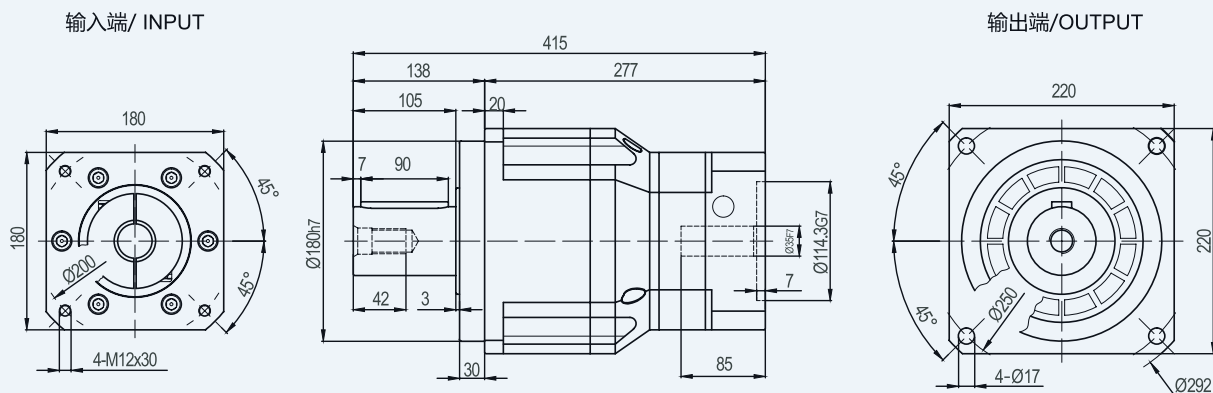
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外形尺寸图表 / OUTLINE DIMENSION SHEET

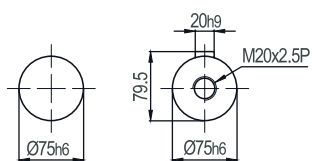
FAB-220-L1



FAB-220-L2



输出轴径



轴型式 S1 轴型式 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.