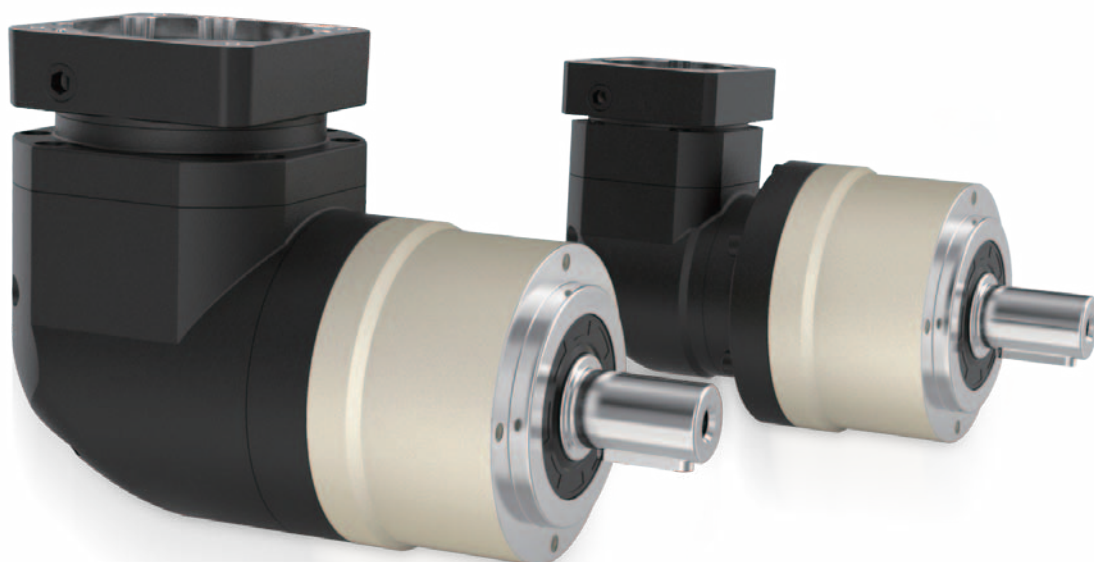


- ／ FER070
- ／ FER090
- ／ FER120
- ／ FER155
- ／ FER205



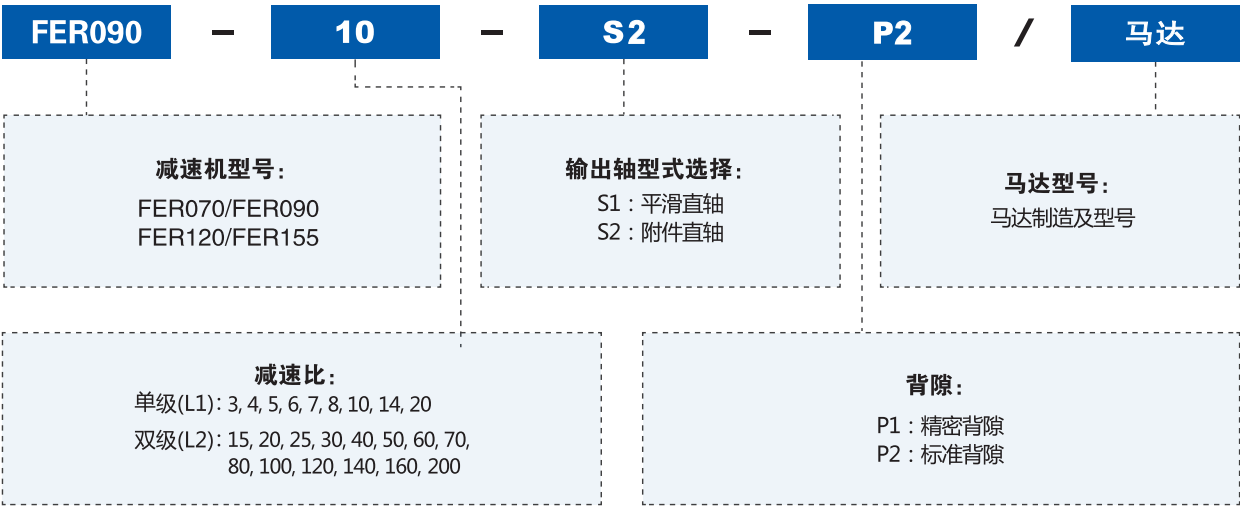
FER

Series

SEIKO QUALITY
SHARED GLOBALLY

精工品质 全球共享

型号说明 MODEL ILLUMINATE



选用范例：FER090-10-S2-P2 / MHMD-082G1U

性能 -FER 减速机

规 格	单 位	节 数	减速比 ^①	FER070	FER090	FER120	FER155	FER205
额定输出力矩 T_{2N}	Nm	单级 L1	3	55	130	208	342	588
			4	50	140	290	542	1050
			5	60	160	330	650	1200
			6	55	150	310	600	1100
			7	50	140	300	550	1100
			8	50	140	290	542	1050
			10	60	160	330	650	1200
			14	50	140	300	550	1100
			20	40	100	230	450	900
		双级 L2	12	55	130	208	342	588
			15	55	130	208	342	588
			20	50	140	290	542	1050
			25	60	160	330	650	1200
			30	55	130	208	342	588
			35	60	160	330	650	1200
			40	50	140	290	542	1050
			50	60	160	330	650	1200
			60	55	150	310	600	1100
			70	60	160	330	650	1200
			80	50	140	290	542	1050
			100	60	160	330	650	1200
			120	—	150	310	600	1100
			140	—	140	300	550	1100
			160	—	120	290	500	1000
			200	—	100	230	450	900
紧急制动力矩 T_{2B}	Nm	L1.L2	3~200	3 倍额定输出力矩				
额定输入转速 N_1	rpm	L1.L2	3~200	5000	4000	4000	3000	3000
最大输入转速 n_{1B}	rpm	L1.L2	3~200	10000	8000	8000	6000	6000
背隙	arcmin	L1	3~20	≤ 6	≤ 6	≤ 6	≤ 6	≤ 6
		L2	12~200	≤ 9	≤ 9	≤ 9	≤ 9	≤ 9
扭转刚性	Nm/arcmin	L1.L2	3~200	7	14	25	50	145
容许径向力 F_{2rB} ^②	N	L1.L2	3~200	1550	3250	6700	9400	14500
容许轴向力 F_{2aB} ^②	N	L1.L2	3~200	770	1630	3350	4700	6200
使用寿命	hr	L1.L2	3~200	20000 ^③				
效率 η	%	L1	3~20	≥ 97%				
		L2	12~200	≥ 94%				
重量	kg	L1	3~20	2.1	6.5	13	24.5	51
		L2	12~200	2.8	7.8	14.2	27.5	54
使用温度	℃	L1.L2	3~200	-10℃ ~ +90℃				
润滑		L1.L2	3~200	合成润滑油脂				
防护等级		L1.L2	3~200	IP65				
安装方式		L1.L2	3~200	任意方向				
噪音值 ($n_1=3000\text{rpm}$)	dB	L1.L2	3~200	≤ 63	≤ 65	≤ 68	≤ 70	≤ 75

惯量 -FER 减速机

规 格	单 位	节 数	减速比 ^①	FER060	FER090	FER115	FER142	FER205
转动惯量 J_1	$\text{kg} \cdot \text{cm}^2$	L1	3~10	0.35	2.25	6.84	23.4	68.9
			14	0.07	1.87	6.25	21.8	65.6
			20	0.07	1.87	6.25	21.8	65.6
		L2	12~100	0.09	0.35	2.25	6.84	23.4
			120~200	—	0.31	1.87	6.25	21.8

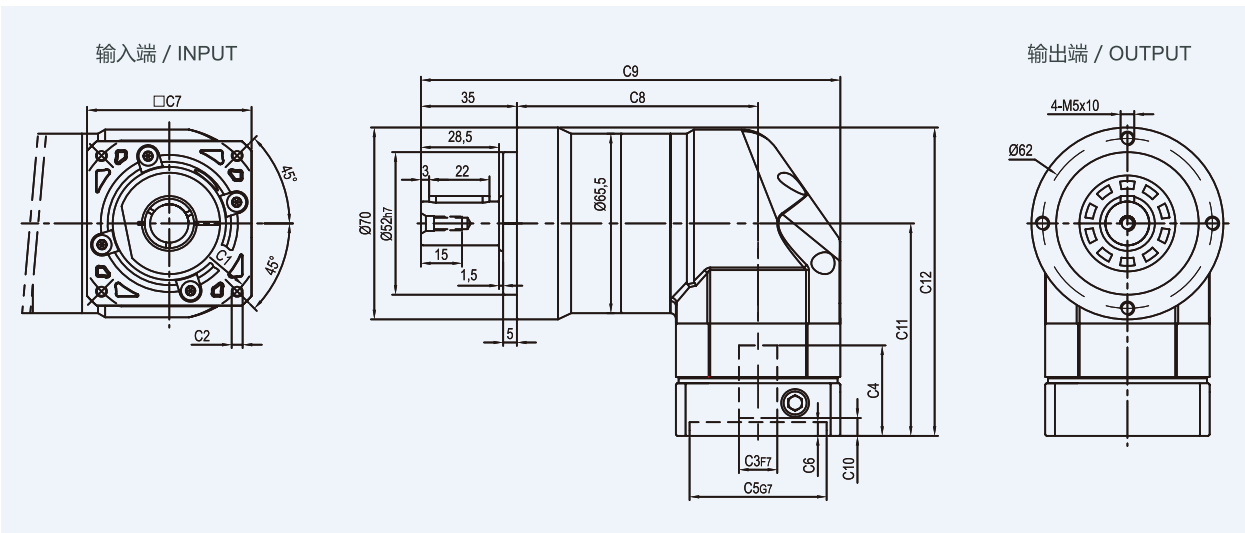
1. 减速比 ($i=N_{\text{in}}/N_{\text{out}}$)

2. 输出转速 100rpm 时, 作用于输出轴中心位置

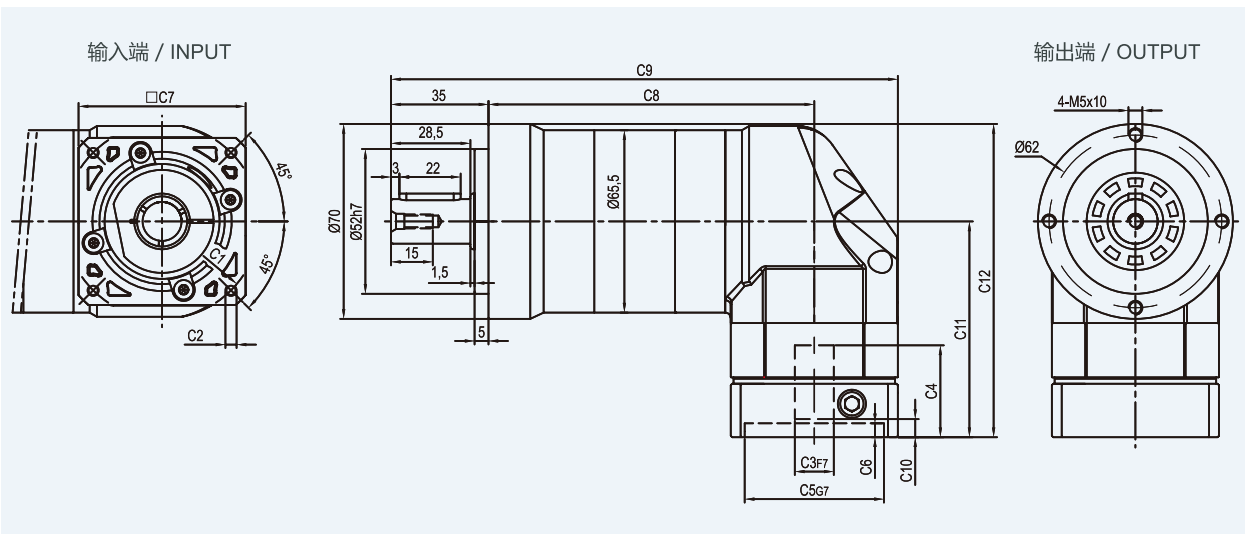
3. 连续运转降低使用寿命二分之一

外形尺寸图表 / OUTLINE DIMENSION SHEET

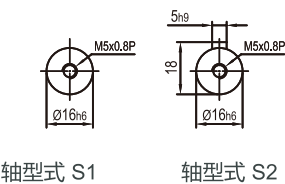
FER-070-L1



FER-070-L2



输出轴径



轴型式 S1

轴型式 S2

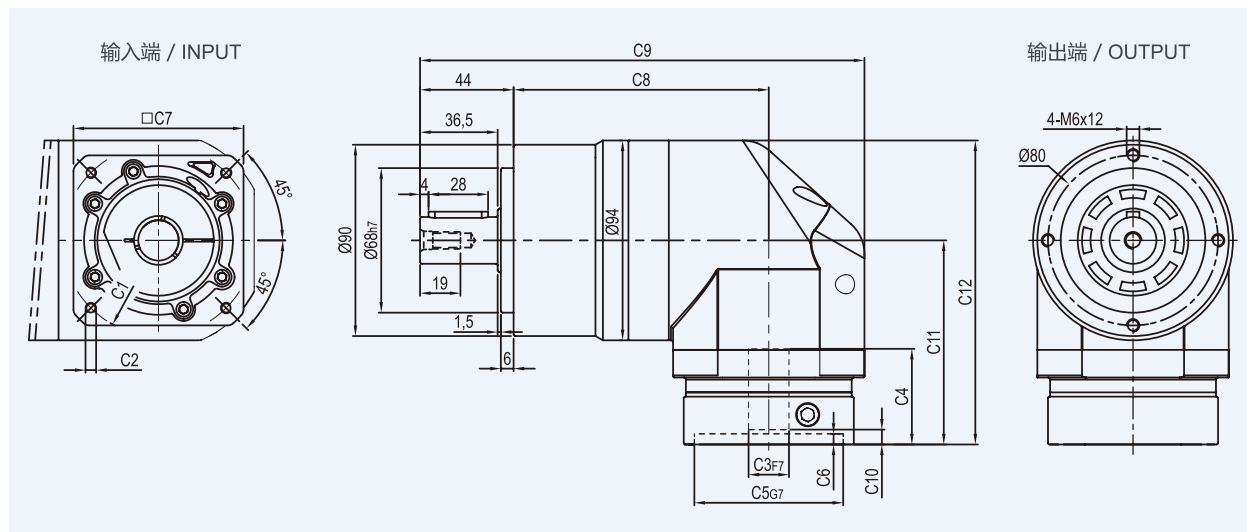
尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12
FER-070-L1	Ø66.7	4-M4x10	Ø8	33	Ø38.1	5	60	88	153	5.5	77.5	112.5
FER-070-L2	Ø70	4-M4x10, 4-M5x12	Ø11, Ø14	33	Ø50	5	60	88	153	5.5	77.5	112.5
FER-070-L1	Ø90	4-M5x12, 4-M6x14	Ø19	42.5	Ø70	6.5	80	88	163	12	87	122
FER-070-L2								117	182			

* 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。

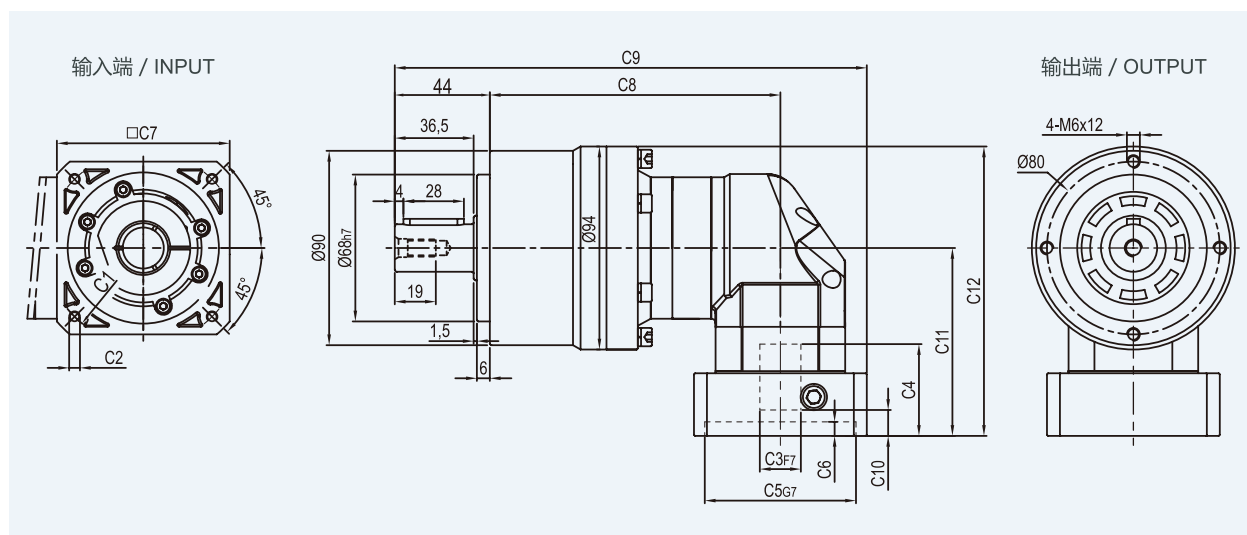
* C1~C7are motor(metric standard) specific dimensions, which could be customised.

外形尺寸图表 / OUTLINE DIMENSION SHEET

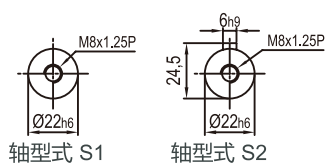
FER-090-L1



FER-090-L2



输出轴径



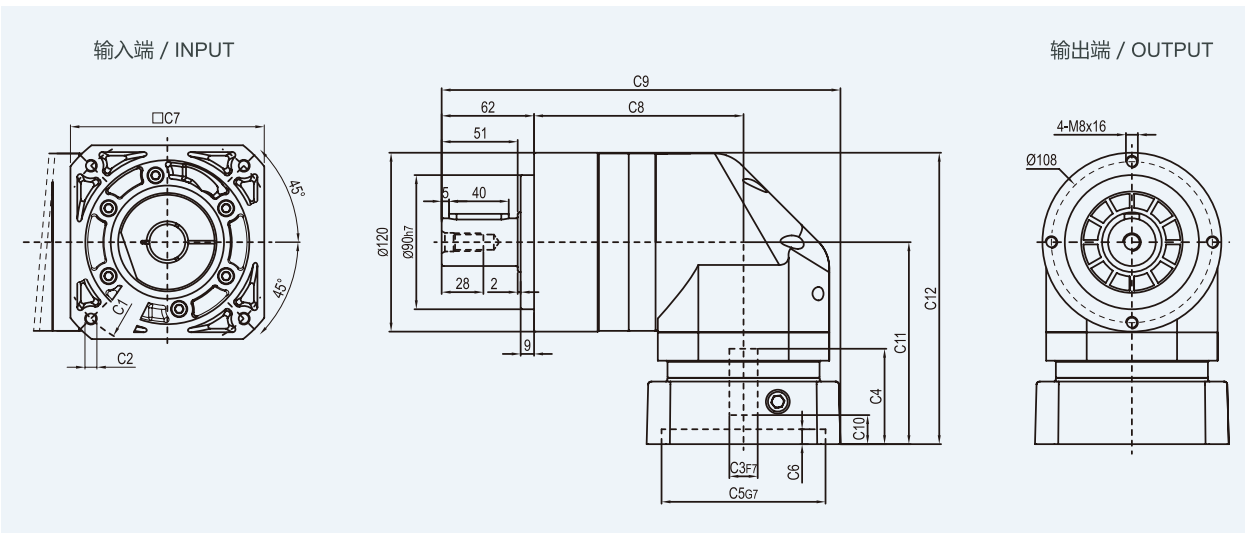
尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12
FER-090-L1	Ø90	4-M5x12,4-M6x14	Ø19	45	Ø70	6.5	80	120	209	7	96	143
	Ø100	4-M6x14	Ø16	45	Ø80	6.5	86	120	209	6	96	143
	Ø115	4-M8x20	Ø19,Ø22	56.5	Ø95	8	100	120	214	16.5	117.5	164.5
	Ø145	4-M8x20	Ø19,Ø22,Ø24	59	Ø110	11	130	120	229	19	120	167
FER-090-L2	Ø66.7	4-M4x10	Ø8	33	Ø38.1	5	60	134.5	208.5	5.5	77.5	124.5
	Ø70	4-M4x10,4-M5x12	Ø11,Ø14	33	Ø50	5	60	134.5	208.5	5.5	77.5	124.5
	Ø90	4-M5x12,4-M6x14	Ø19	42.5	Ø70	6.5	80	134.5	218.5	12	87	134
	Ø100	4-M6x14	Ø16	42.5	Ø80	6.5	86	134.5	221.5	11	87	134

* 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。

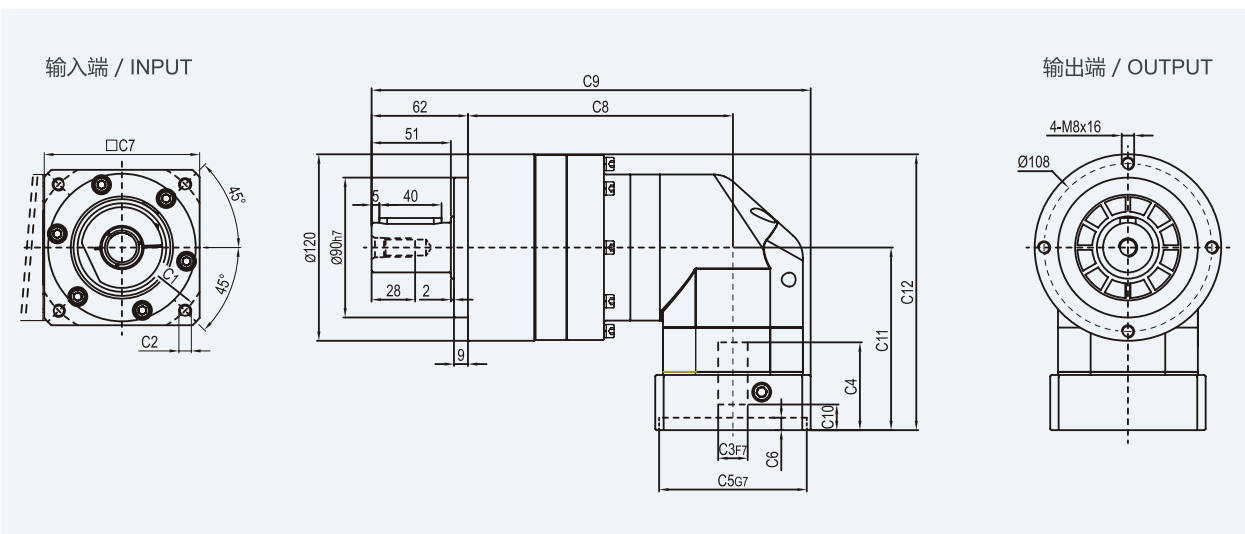
* C1~C7are motor(metric standard) specific dimensions, which could be customised.

外形尺寸图表 / OUTLINE DIMENSION SHEET

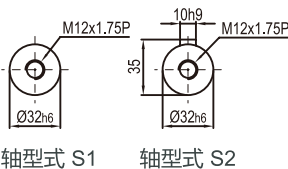
FER-120-L1



FER-120-L2



输出轴径



轴型式 S1

轴型式 S2

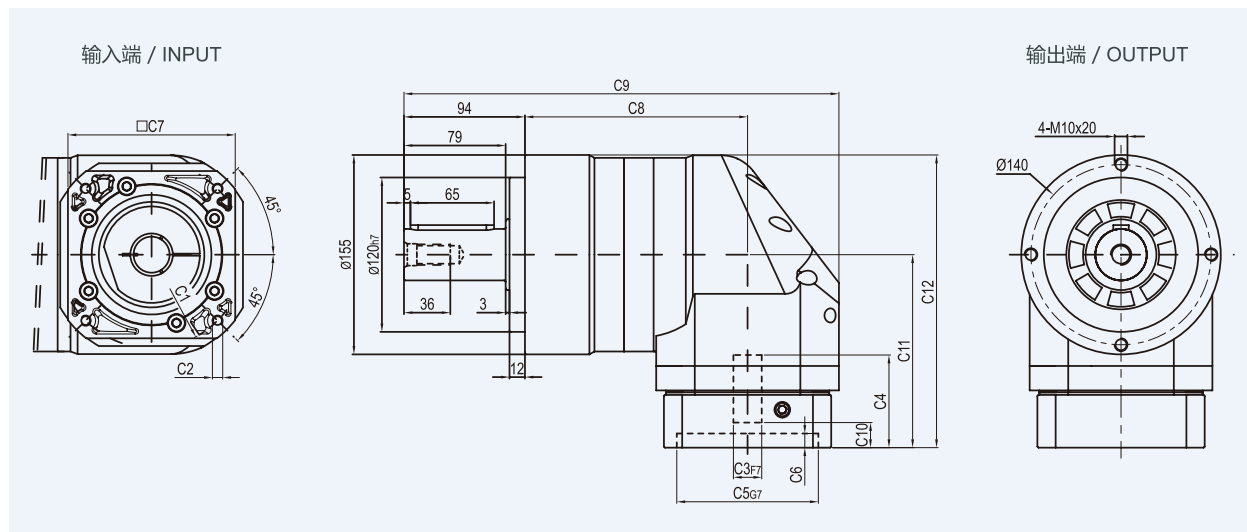
尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12
FER-120-L1	Ø145	4-M8x20	Ø19,Ø22,Ø24	64	Ø110	10	130	140.5	267.5	19.5	135.5	195.5
	Ø200	4-M12x28	Ø35	81	Ø114.3	10	180	140.5	292.5	28	152.5	212.5
FER-120-L2	Ø90	4-M5x12, 4-M6x14	Ø19	45	Ø70	6.5	80	170.5	277.5	7	96	156
	Ø100	4-M6x14	Ø16	45	Ø80	6.5	86	170.5	277.5	6	96	156
	Ø115	4-M8x20	Ø19,Ø22	56.5	Ø95	8	100	170.5	282.5	16.5	117.5	177.5
	Ø145	4-M8x20	Ø19,Ø22,Ø24	59	Ø110	11	130	170.5	297.5	19	120	180

* 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。

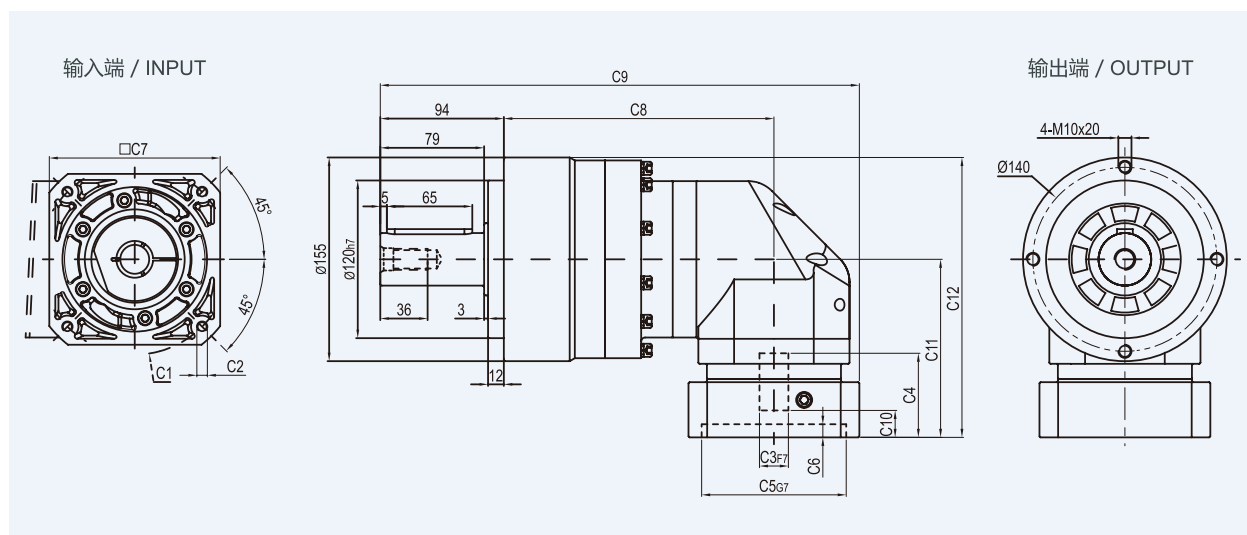
* C1~C7are motor(metric standard) specific dimensions, which could be customised.

外形尺寸图表 / OUTLINE DIMENSION SHEET

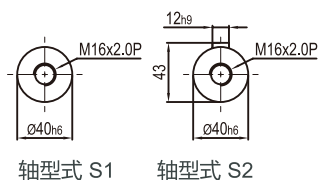
FER-155-L1



FER-155-L2



输出轴径



轴型式 S1

轴型式 S2

尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12
FER-155-L1	Ø145	4-M8x20	Ø22, Ø24	72	Ø110	11	130	173	338	19.5	150	227.5
	Ø200	4-M12x28	Ø35	82	Ø114.3	8	180	173	357	25	160	237.5
FER-155-L2	Ø145	4-M8x20	Ø19, Ø22, Ø24	64	Ø110	10	130	205.5	364.5	19.5	135.5	213
	Ø200	4-M12x28	Ø35	81	Ø114.3	10	180	205.5	389.5	28	152.5	230

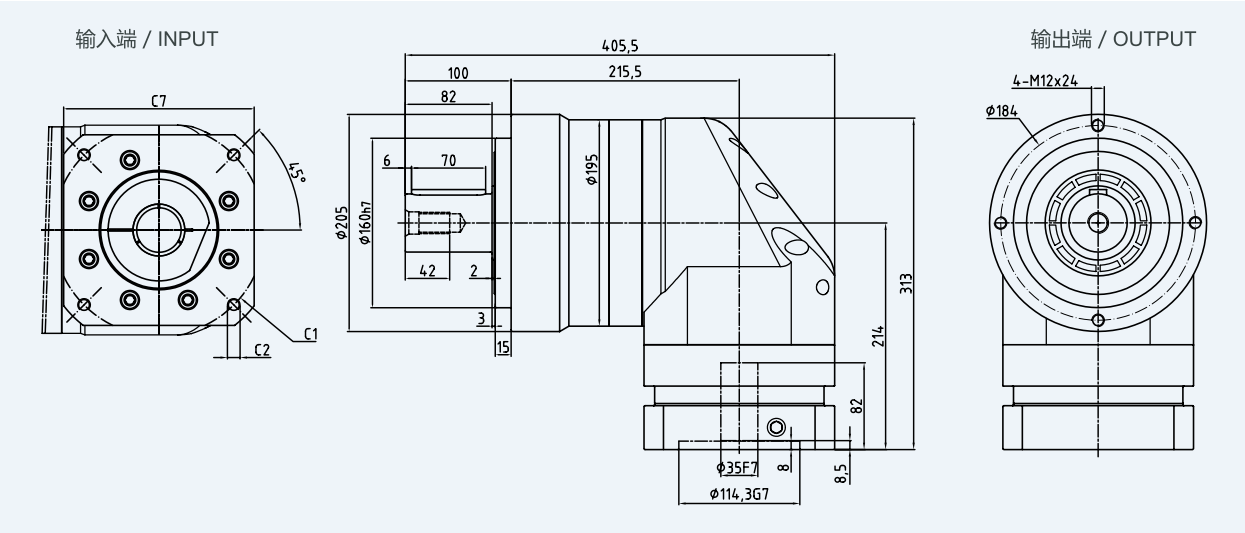
* C1~C7是公制标准马达连接板之尺寸,可根据客户要求单独定做。

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

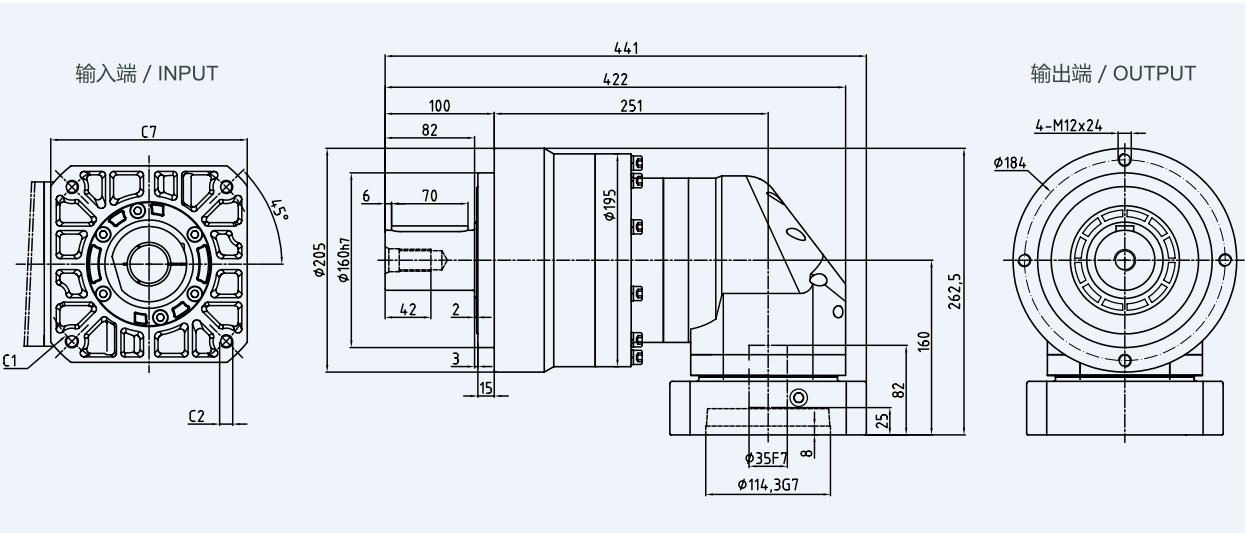
FER Series

外形尺寸图表 / OUTLINE DIMENSION SHEET

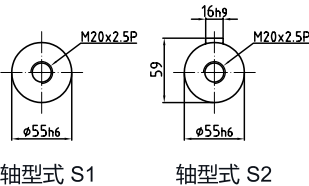
FER-205-L1



FER-205-L2



输出轴径



尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12
FER205-L1	Ø200	4-M12X28	Ø35, Ø42	82	Ø114.3	8	180	210.5	405.5	8.5	214	313
	Ø200	4-M12X28	Ø42	117.5	Ø114.3	8	180	210.5	405.5	45.5	249.5	348.5
	Ø215	4-M12X28	Ø38, Ø42	87	Ø180	8	192	210.5	405.5	13.5	219	318
	Ø235	4-M12X28	Ø38, Ø42	117.5	Ø200	10	220	210.5	405.5	45.5	249.5	348.5
FER205-L2	Ø145	4-M8X20	Ø22, Ø24	72	Ø110	11	130	251	422	19.5	150	252.5
	Ø200	4-M12X28	Ø35	82	Ø114.3	8	180	251	422	25	160	262.5
	Ø215	4-M12X28	Ø38	82	Ø180	8	192	251	422	25	171.5	274

* 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.