

# FAD Series

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- / FAD047
- / FAD064
- / FAD090
- / FAD110
- / FAD140
- / FAD200
- / FAD255



**FAD**

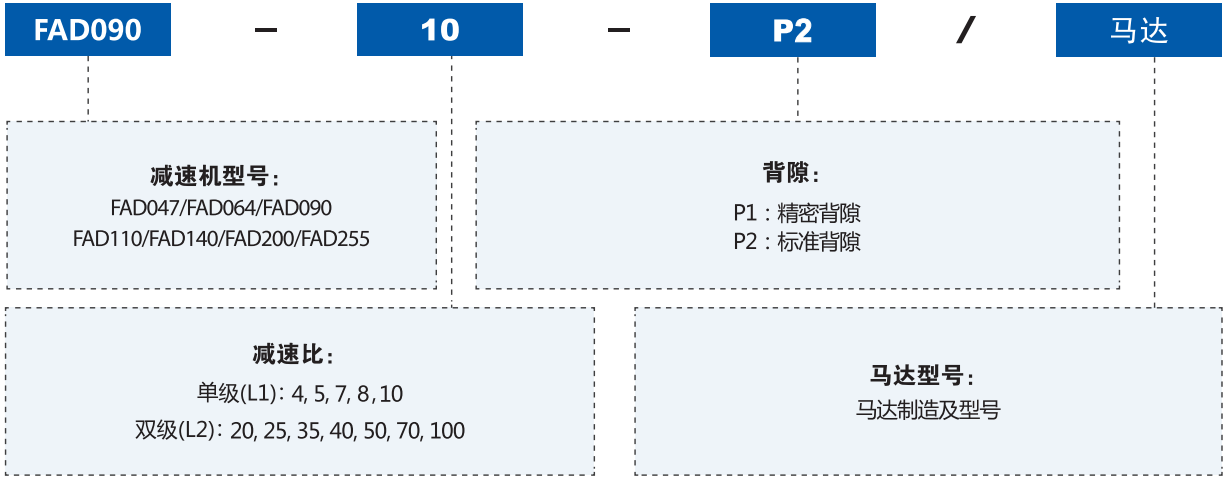
Series

**SEIKO QUALITY**

SHARED GLOBALLY

精工品质 全球共享

# 型号说明 MODEL ILLUMINATE



选用范例: FAD090-10-P2/MHMD-082G1U

## 性能 -FAD 减速机

规格	单位	节数	减速比 <sup>①</sup>	FAD047	FAD064	FAD090	FAD110	FAD140	FAD200	FAD255
额定输出力矩 $T_{2N}$	Nm	单级 L1	4	19	48	130	270	560	1100	1700
			5	22	60	160	330	650	1200	2000
			6	-	55	150	310	600	-	2000
			7	19	50	140	300	550	1100	1800
			8	17	45	120	260	500	1000	1600
			10	14	40	100	230	450	520	1220
		双级 L2	20	19	48	130	270	560	1100	1700
			25	22	60	160	330	650	1200	2000
			35	22	60	160	330	650	1200	2000
			40	22	48	130	270	560	1200	2000
			50	22	60	160	330	650	1200	2000
			60	-	55	150	310	600	-	1800
			70	19	50	140	300	550	1100	1800
			80	-	45	120	260	500	-	1800
100	14	40	100	230	450	520	1220			
紧急制动力矩 $T_{2B}$	Nm	L1.L2	4~100	3倍额定输出力矩						
额定输入转速 $N_1$	rpm	L1.L2	4~100	5000	5000	4000	4000	3000	3000	2000
最大输入转速 $n_{1B}$	rpm	L1.L2	4~100	10000	10000	8000	8000	6000	6000	4000
超精密背隙 P0	arcmin	L1	4~10	-	-	≤ 1	≤ 1	≤ 1	≤ 1	≤ 1
		L2	20~100	-	-	≤ 3	≤ 3	≤ 3	≤ 3	≤ 3
精密背隙 P1	arcmin	L1	4~10	≤ 3	≤ 3	≤ 3	≤ 3	≤ 3	≤ 3	≤ 3
		L2	20~100	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5
标准背隙 P2	arcmin	L1	4~100	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5	≤ 5
		L2	20~100	≤ 7	≤ 7	≤ 7	≤ 7	≤ 7	≤ 7	≤ 7
扭转刚性	Nm/arcmin	L1.L2	4~100	7	13	31	82	151	440	1006
容许径向力 $F_{2rB}$ <sup>①</sup>	N	L1.L2	4~100	42.5	125	235	430	1300	3064	5900
容许轴向力 $F_{2aB}$ <sup>①</sup>	N	L1.L2	4~100	1080	2110	2310	4800	6200	5450	10600
使用寿命	hr	L1.L2	4~100	20000 <sup>③</sup>						
效率 $\eta$	%	L1	4~10	≥ 97%						
		L2	20~100	≥ 94%						
重量	kg	L1	4~10	0.7	1.2	3.0	5.6	11.9	31.6	56.1
		L2	20~100	1.0	1.6	3.7	7.3	15.9	36.9	70.4
使用温度	°C	L1.L2	4~100	-10°C ~ +90°C						
润滑		L1.L2	4~100	合成润滑油脂 / 终身润滑						
防护等级		L1.L2	4~100	IP65						
安装方式		L1.L2	4~100	任意方向						
噪音值 ( $n_1=3000\text{rpm}$ )	dB	L1.L2	4~100	≤ 56	≤ 58	≤ 60	≤ 63	≤ 65	≤ 67	≤ 70

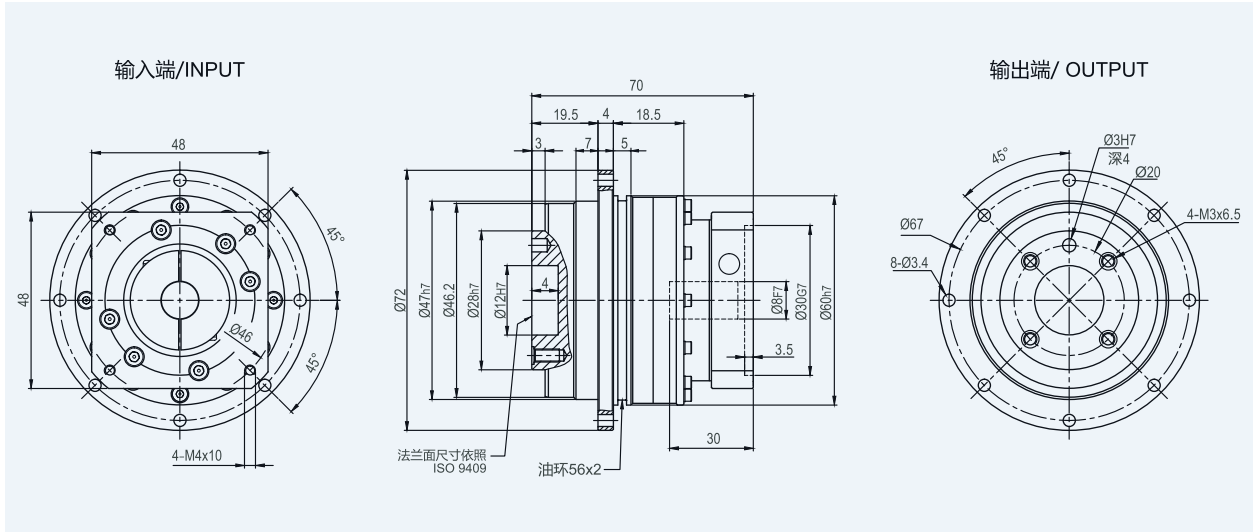
## 惯量 -FAD 减速机

规格	单位	节数	减速比 <sup>①</sup>	FAD047	FAD064	FAD090	FAD110	FAD140	FAD200	FAD255
转动惯量 $J_i$	$\text{kg} \cdot \text{cm}^2$	L1	4	0.03	0.14	0.51	2.87	7.54	25.03	58.31
			5	0.03	0.13	0.47	2.71	7.42	23.29	53.27
			6	-	0.13	0.45	2.65	7.25	-	-
			7	0.03	0.13	0.45	2.62	7.14	22.48	50.97
			8	0.03	0.13	0.45	2.58	7.07	22.48	50.97
			10	0.03	0.13	0.44	2.57	7.03	22.51	50.56
		L2	20	0.03	0.03	0.13	0.47	2.71	7.42	23.29
			25	0.03	0.03	0.13	0.47	2.71	7.42	23.29
			35	0.03	0.03	0.13	0.47	2.71	7.42	23.29
			40	0.03	0.03	0.13	0.44	2.57	7.03	22.51
			50	0.03	0.03	0.13	0.44	2.57	7.03	22.51
			60	-	0.03	0.13	0.44	2.57	-	-
			70	0.03	0.03	0.13	0.44	2.57	7.03	22.51
			80	-	0.03	0.13	0.44	2.57	-	-
100	0.03	0.03	0.13	0.44	2.57	7.03	22.51			

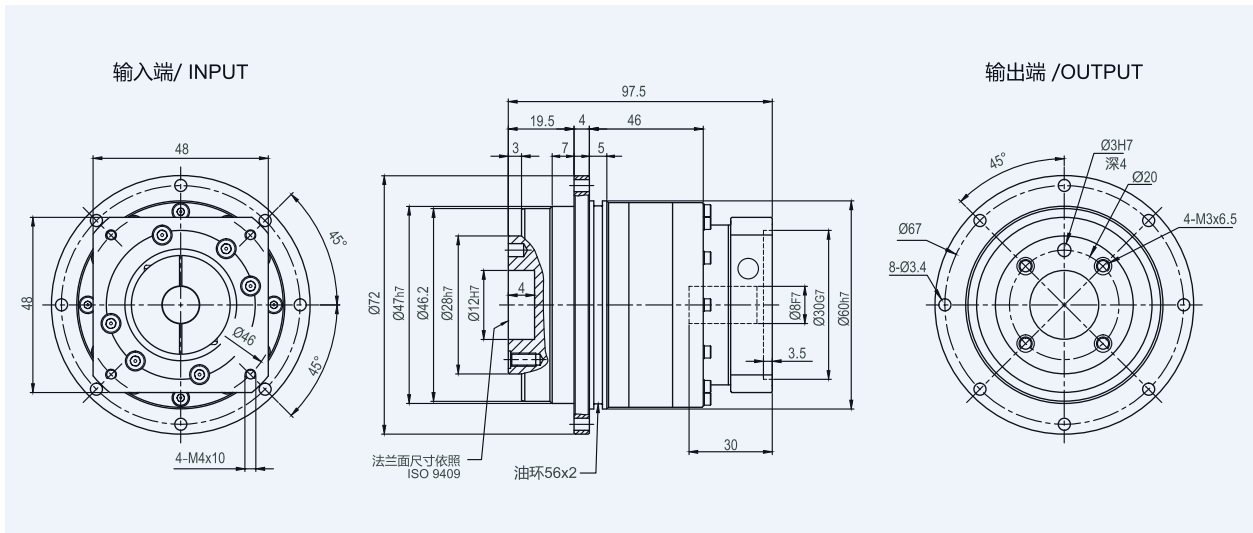
1. 减速比 ( $i=N_1/N_{out}$ )      2. 输出转速 100rpm 时, 作用于输出轴中心位置      3. 连续运转降低使用寿命二分之一

# 外形尺寸图表 / OUTLINE DIMENSION SHEET

## FAD-047-L1



## FAD-047-L2

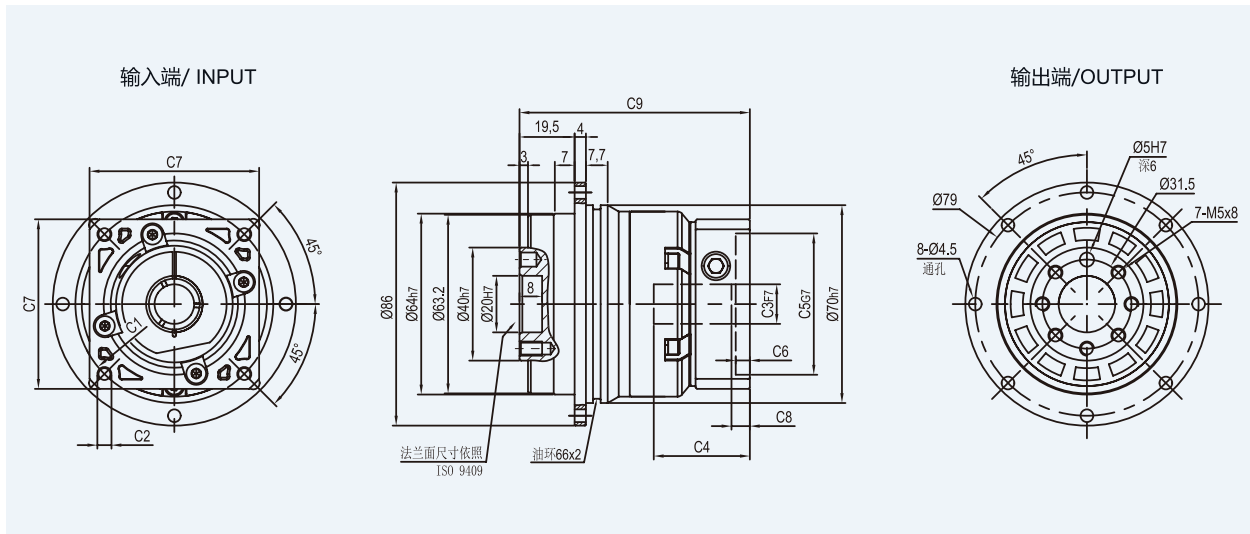


\*输入马达连接板之尺寸,可根据客户要求单独定做。

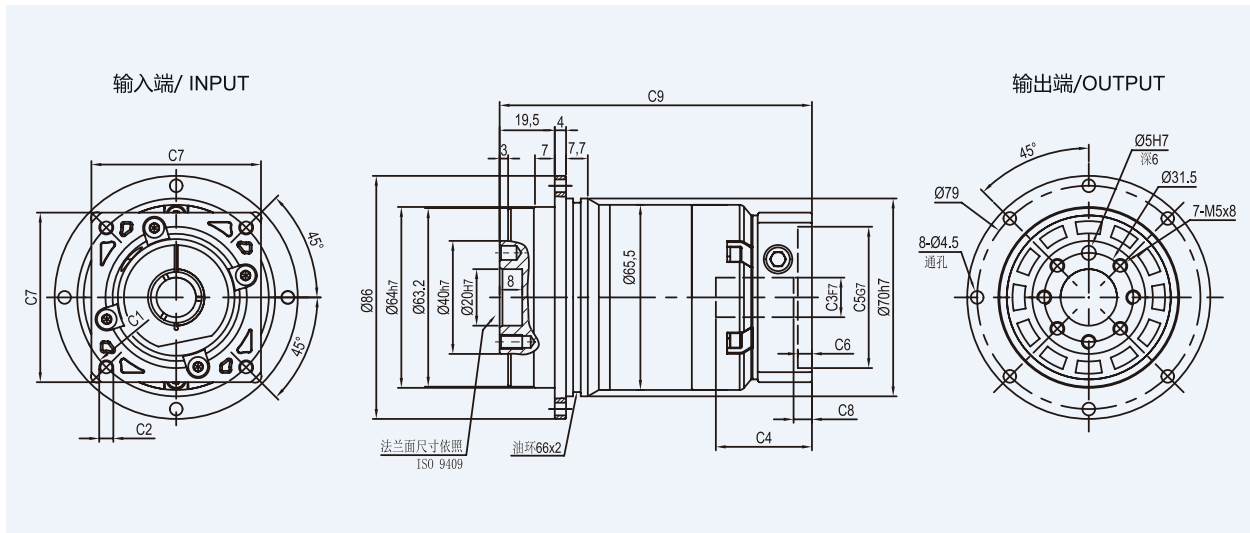
\*The input motor specific dimensions could be customised.

## 外形尺寸图表 / OUTLINE DIMENSION SHEET

### FAD-064-L1



### FAD-064-L2



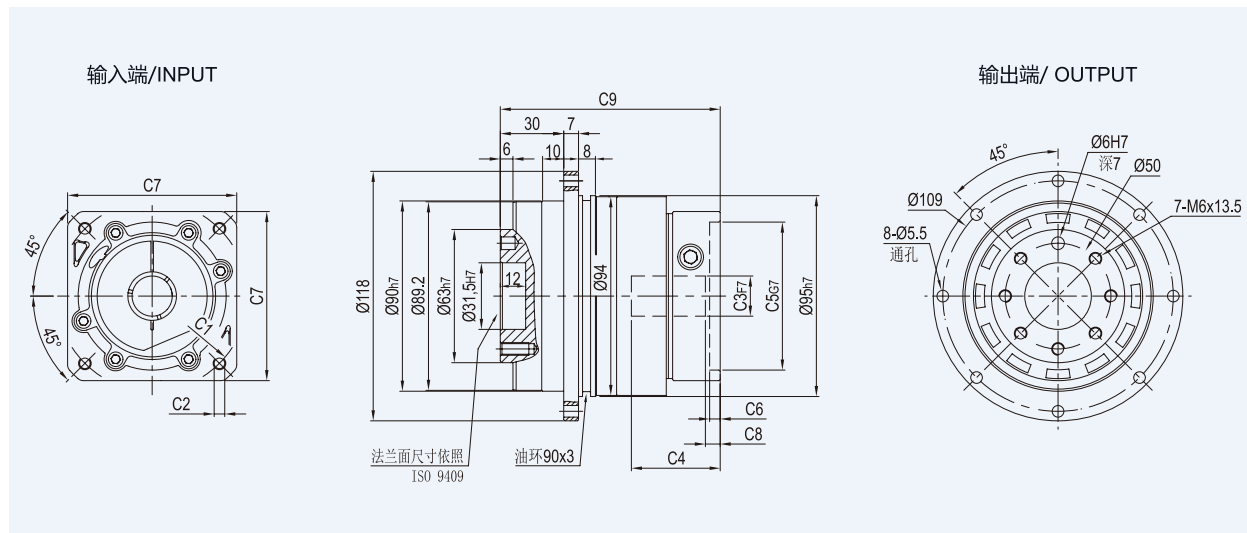
尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9
FAD-064-L1	Ø66.7	4-M4x10	Ø8	34	Ø38.1	5	60	5.5	81.5
FAD-064-L2									110.5
FAD-064-L1	Ø70	4-M4x10, 4-M5x12	Ø11, Ø14	34	Ø50	5	60	5.5	81.5
FAD-064-L2									110.5
FAD-064-L1	Ø90	4-M5x12, 4-M6x14	Ø19	42	Ø70	6.5	80	12	88
FAD-064-L2									117

\* 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。

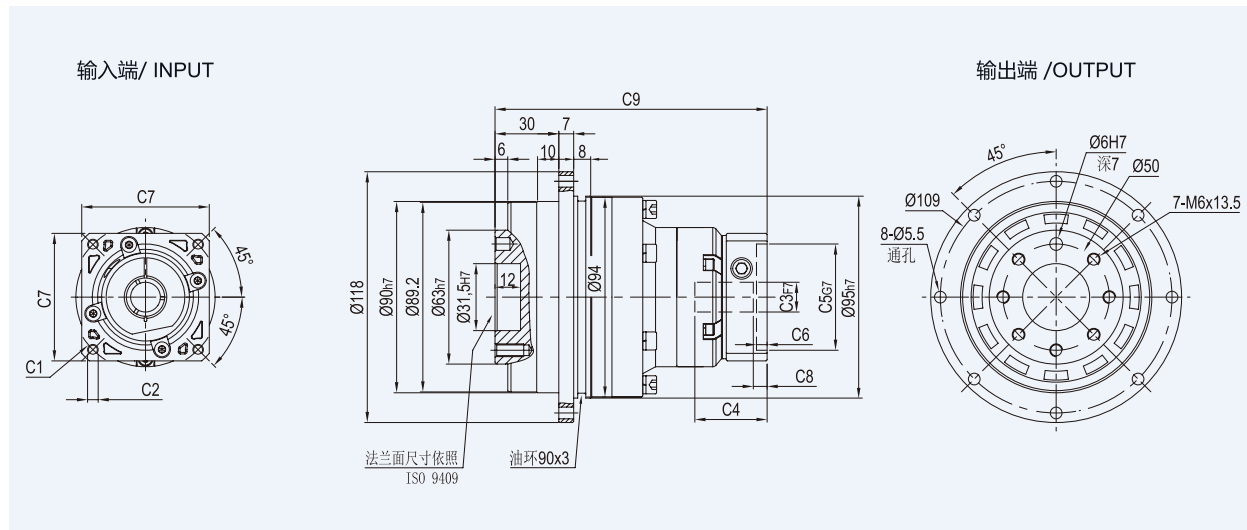
\* C1~C7are motor(metric standard) specific dimensions, which could be customised.

## 外形尺寸图表 / OUTLINE DIMENSION SHEET

### FAD-090-L1



### FAD-090-L2



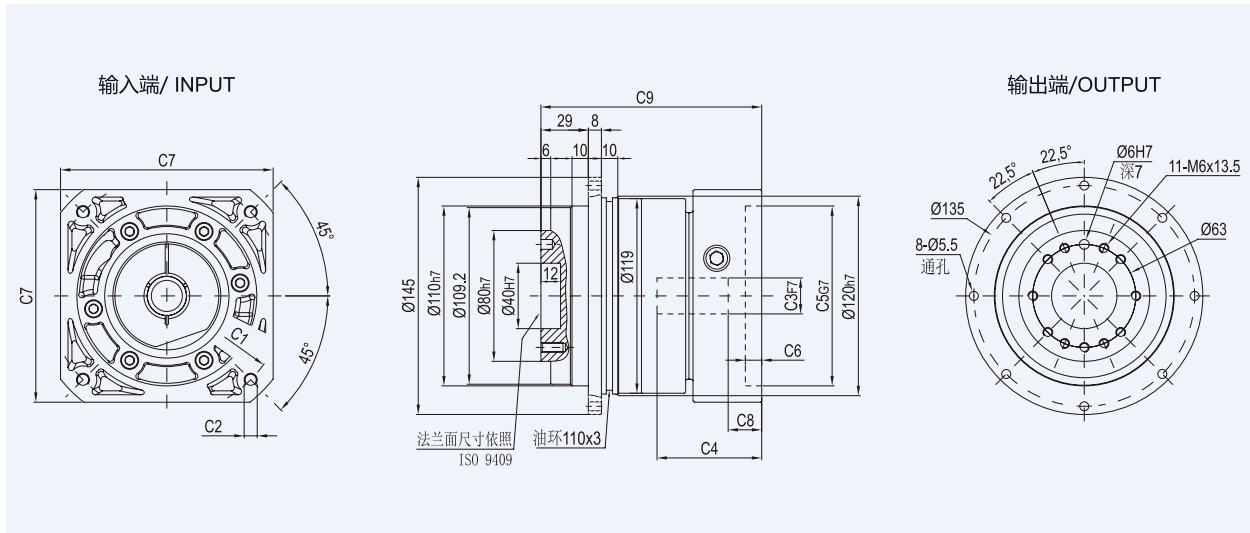
尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9
FAD-090-L1	Ø90	4-M5x12, 4-M6x14	Ø19	42	Ø70	6.5	80	7	104
	Ø100	4-M6x14	Ø16	42	Ø80	6.5	86	6	104
	Ø115	4-M8x20	Ø19,Ø22	56.5	Ø95	8	100	16.5	119.5
	Ø145	4-M8x20	Ø19,Ø22,Ø24	59	Ø110	11	130	19	122
FAD-090-L2	Ø66.7	4-M4x10	Ø8	34	Ø38.1	5	60	5.5	128
	Ø70	4-M4x10, 4-M5x12	Ø11,Ø14	34	Ø50	5	60	5.5	128
	Ø90	4-M5x12, 4-M6x14	Ø19	42	Ø70	6.5	80	12	134.5
	Ø100	4-M6x14	Ø16	42	Ø80	6.5	86	11	134.5

\* 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。

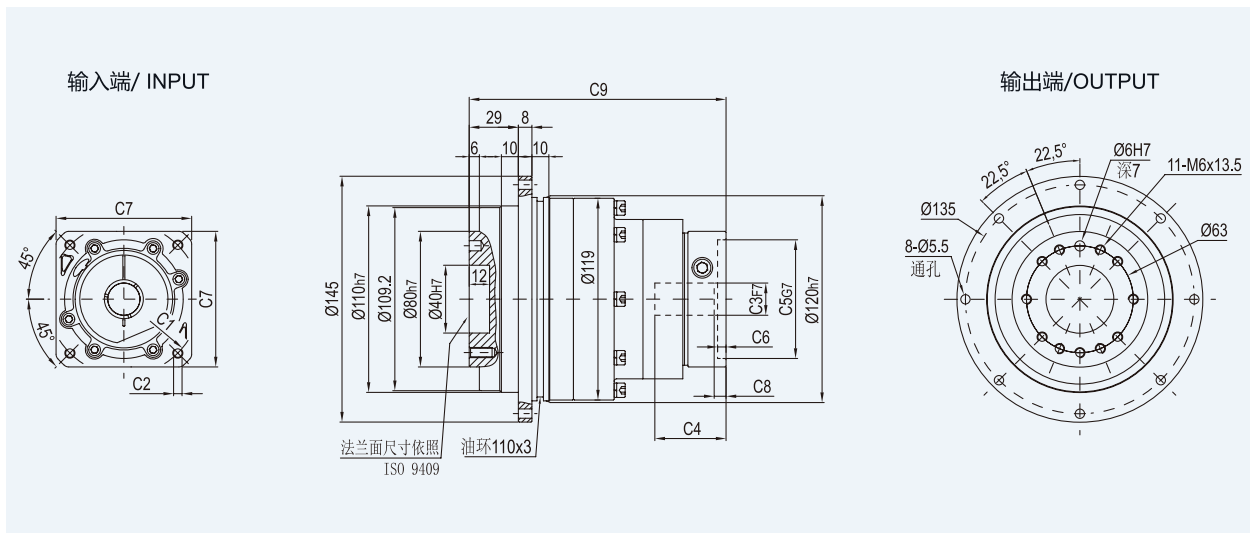
\* C1~C7are motor(metric standard) specific dimensions, which could be customised.

## 外形尺寸图表 / OUTLINE DIMENSION SHEET

### FAD-110-L1



### FAD-110-L2



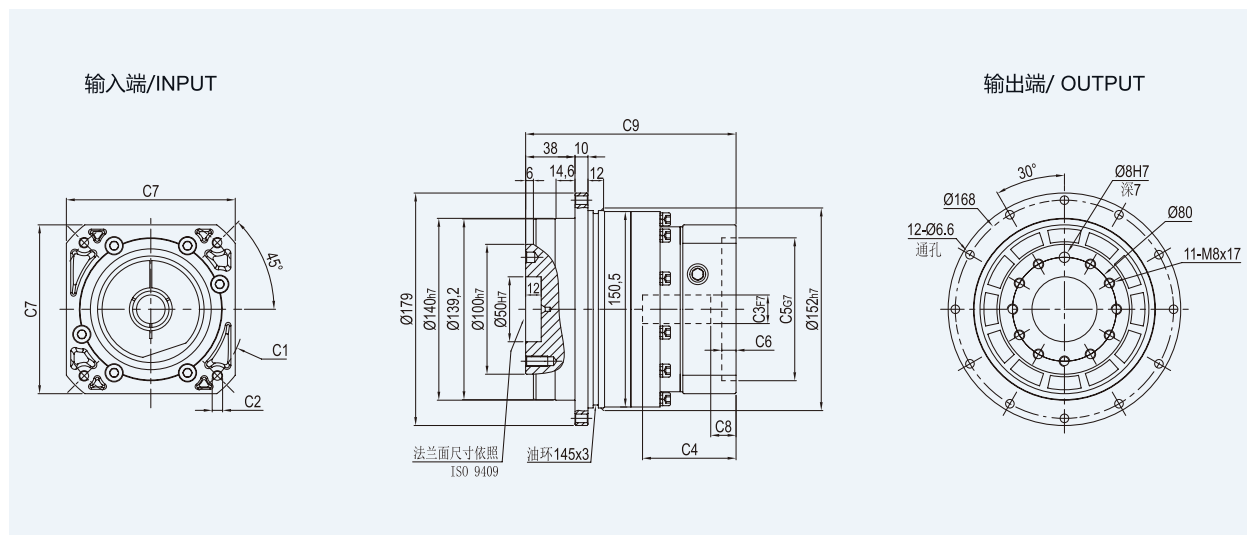
尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9
FAD-110-L1	Ø145	4-M8x20	Ø19,Ø22,Ø24	64	Ø110	10	130	19.5	135
	Ø200	4-M12x28	Ø35	81	Ø114.3	10	180	28	152.5
FAD-110-L2	Ø90	4-M5x12, 4-M6x14	Ø19	42	Ø70	6.5	80	7	151.5
	Ø100	4-M6x14	Ø16	42	Ø80	6.5	86	6	151.5
	Ø115	4-M8x20	Ø19,Ø22	56.5	Ø95	8	100	16.5	167
	Ø145	4-M8x20	Ø19,Ø22,Ø24	59	Ø110	11	130	19	169.5

\* 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。

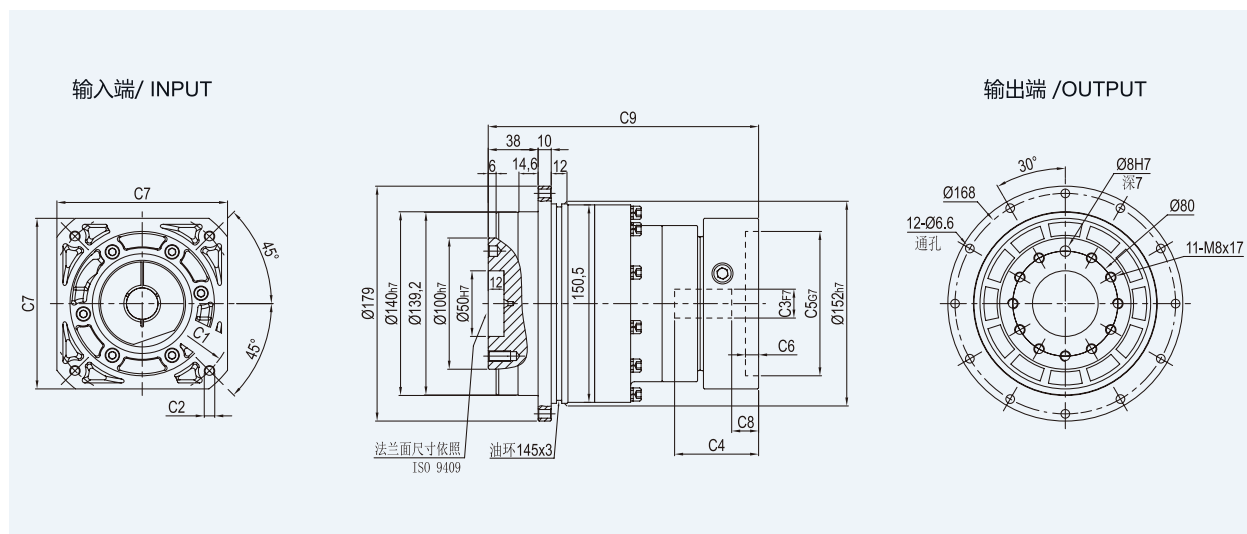
\* C1~C7are motor(metric standard) specific dimensions, which could be customised.

# 外形尺寸图表 / OUTLINE DIMENSION SHEET

## FAD-140-L1



## FAD-140-L2



尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9
FAD-140-L1	Ø145	4-M8x20	Ø22,Ø24	72	Ø110	11	130	19.5	162
	Ø200	4-M12x28	Ø35	81.5	Ø114.3	8	180	25	172
FAD-140-L2	Ø145	4-M8x20	Ø19,Ø22,Ø24	64	Ø110	10	130	19.5	206
FAD-140-L2	Ø200	4-M12x28	Ø35	81	Ø114.3	10	180	28	223.5

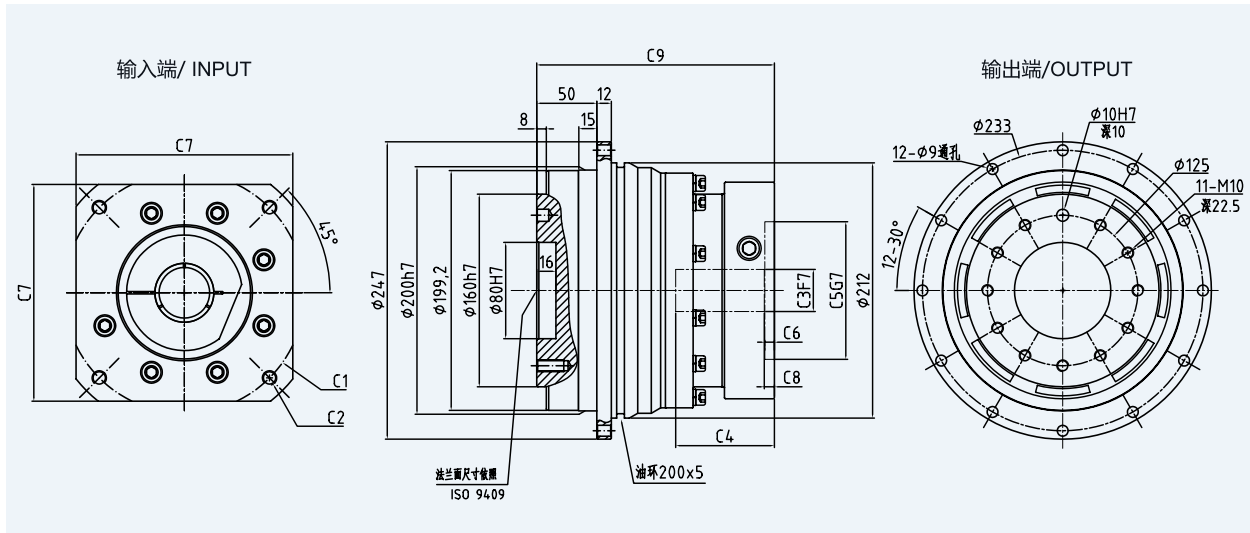
\* C1~C7是公制标准马达连接板之尺寸,可根据客户要求单独定做。

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

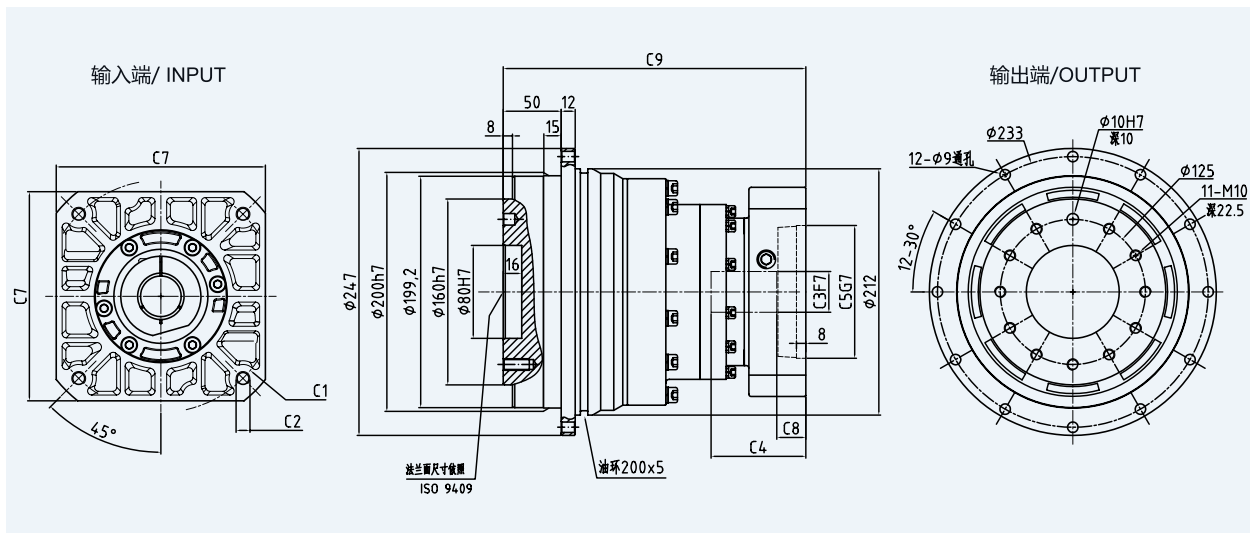


## 外形尺寸图表 / OUTLINE DIMENSION SHEET

### FAD-200-L1



### FAD-200-L2



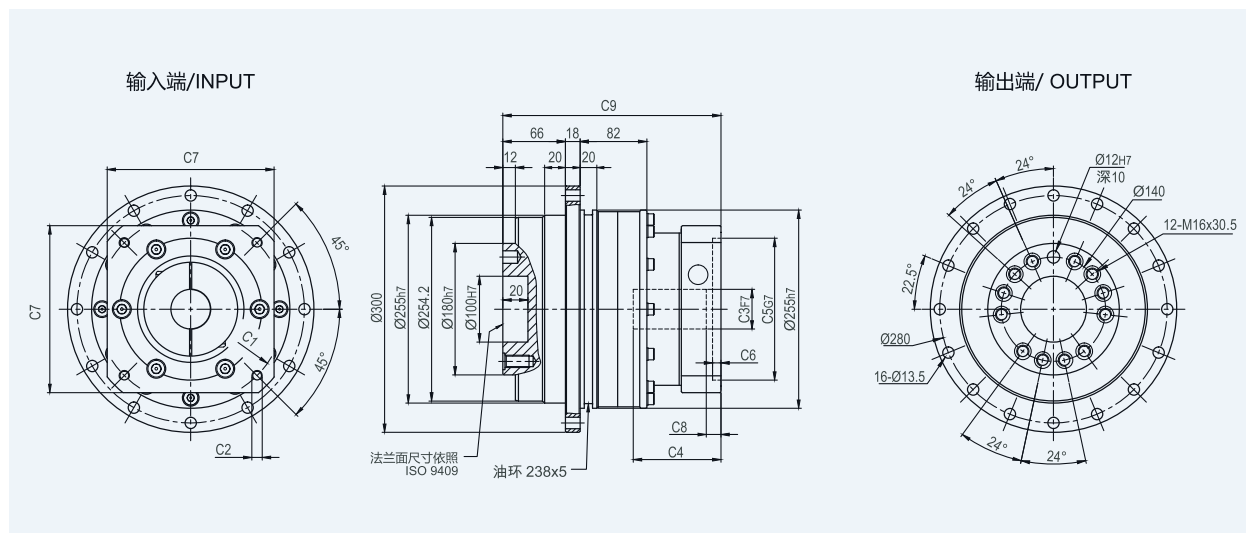
尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9
FAD200-L1	Ø200	4-M12X28	Ø35, Ø42	82	Ø114.3	8	180	8.5	197.5
	Ø200	4-M12X28	Ø42	117.5	Ø114.3	8	180	45.5	233
	Ø215	4-M12X28	Ø38, Ø42	87	Ø180	8	192	13.5	202.5
FAD200-L2	Ø145	4-M8X20	Ø22, Ø24	72	Ø110	11	130	19.5	250.5
	Ø200	4-M12X28	Ø35	81.5	Ø114.3	8	180	25	260.5
	Ø215	4-M12X28	Ø38	82	Ø180	8	192	25	262.5

\* 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。

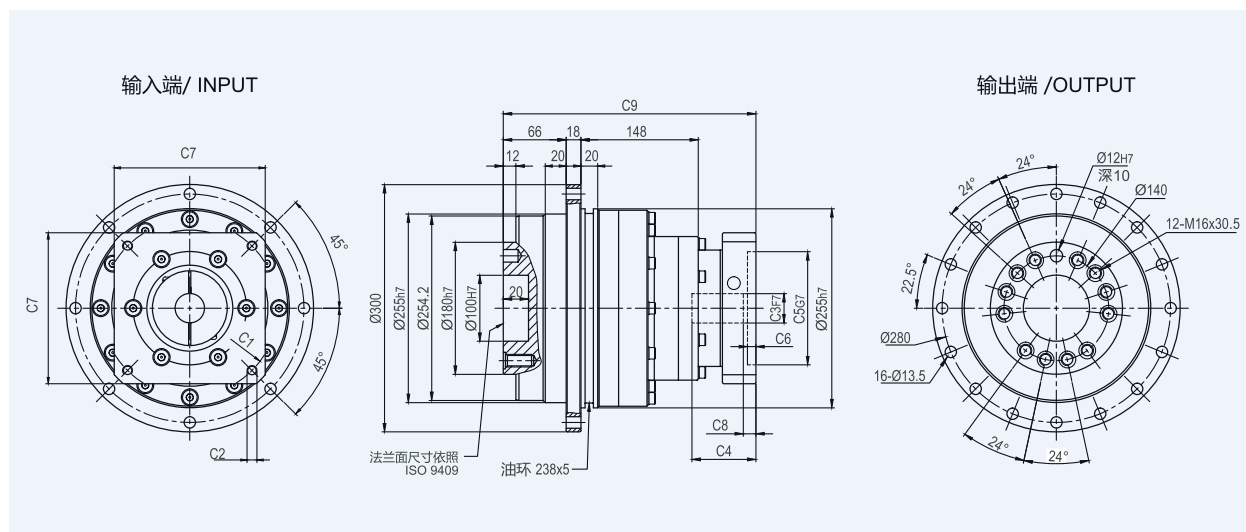
\* C1~C7are motor(metric standard) specific dimensions, which could be customised.

## 外形尺寸图表 / OUTLINE DIMENSION SHEET

### FAD-255-L1



### FAD-255-L2



尺寸	C1	C2	C3	C4	C5	C6	C7	C8	C9
FAD-255-L1	Ø235	4-M12x28	Ø38,Ø42	116	Ø200	6	220	10	256.5
FAD-255-L2	Ø200	4-M12x28	Ø35	85	Ø114.3	6	180	10	311.5
	Ø215	4-M12x28	Ø38	85	Ø180	6	190	19	311.5

\* 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.