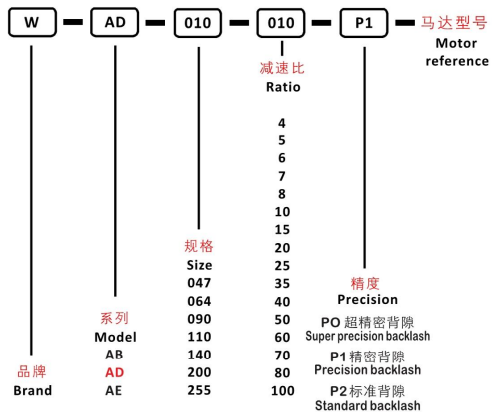




INDICATION FOR MODEL  
**SELECTION**

● 机种型号表示



**GENERAL NOTICES**

● 订货须知

- 机种、型号、扭矩
- 减速比或出力轴转速
- 工况及连接方式
- 数量及安装的机械名称
- 入力方式和入力转速
- 马达厂牌型号或法兰及马达轴尺寸
- Type, model and torque
- Ratio or output speed
- Working conditions and connection methods
- Quantity and installed machine name
- Input mode and input speed
- Motor brand model or flange and motor shaft size

**PLANETARY GEARBOX**

● 减速机性能资料 / Performance

规格 Specification	单位 Unit	齿数 Stage	减速比 Ratio	WAD047	WAD064	WAD090	WAD110	WAD140	WAD200	WAD255
额定出力矩 Rated output torque T <sub>2N</sub>	Nm	1	4	19	48	130	270	560	1100	1700
			5	22	60	160	330	650	1200	2000
			6	19	50	140	300	550	1100	1800
			7	19	50	140	300	550	1100	1800
			8	14	40	100	230	450	900	1500
			10	14	40	100	230	450	900	1500
		2	20	19	48	130	270	560	1100	1700
			25	22	60	160	330	650	1200	2000
			35	19	50	140	300	550	1100	1800
			40	19	48	130	270	560	1000	1700
			50	22	60	160	330	650	1200	2000
			60	19	50	140	300	550	1100	1800
			70	19	50	140	300	550	1100	1800
			80	14	40	100	230	450	900	1500
100	14	40	100	230	450	900	1500			
急停扭矩 / Emergency stop torque T <sub>2NOT</sub>	Nm	1,2	4~100	三倍额定出力矩 / Triple rated output torque						
额定输入转速 / Rated input speed n <sub>1N</sub>	rpm	1,2	4~100	5000	5000	4000	4000	3000	3000	2000
最大输入转速 / Maximum input speed n <sub>1B</sub>	rpm	1,2	4~100	10000	10000	8000	8000	6000	6000	4000
超精密背隙 / Super precision backlash P <sub>0</sub>	arcmin	1,2	4~10	-	≤2	≤2	≤2	≤2	≤2	≤2
精密背隙 / Precision backlash P <sub>1</sub>	arcmin	1,2	4~10	-	≤3	≤3	≤3	≤3	≤3	≤3
标准背隙 / Standard backlash P <sub>2</sub>	arcmin	1,2	4~10	-	≤5	≤5	≤5	≤5	≤5	≤5
扭转刚性 / Torsional rigidity	Nm/arcmin	1,2	4~100	7	13	31	82	151	440	1006
最大弯曲力矩 Maximum bending torque M <sub>2KB</sub>	Nm	1,2	4~100	42.5	125	235	430	1300	3064	5900
容许轴向力 / Allowable axial force F <sub>2a0</sub>	N	1,2	4~100	990	1050	2850	2990	10590	16660	29430
使用寿命 / Lifespan	hr	1,2	4~100	20000						
效率 / Efficiency	%	1,2	4~10	≥97%						
重量 / Weight	kg	1	4~10	0.7	1.1	2.9	5.4	11.9	31.6	56.1
		2	20~100	1	1.7	4.2	8	15.9	36.9	70.4
使用温度 / Working temperature	°C	1,2	4~100	-10°C ~ 90°C						
润滑 / Lubricating		1,2		合成润滑油 / Synthetic lubricating grease						
防护等级 / IP Grade		1,2	4~100	IP65						
安装方向 / Installation direction		1,2	4~100	任意方向 / In any direction						
噪音值 (n1=3000rpm, 无负载) Noise level (n1=3000rpm, off load)	dB(A)	1,2	4~100	≤56	≤58	≤60	≤63	≤65	≤67	≤70

# ROTATIONAL INERTIA OF REDUCER

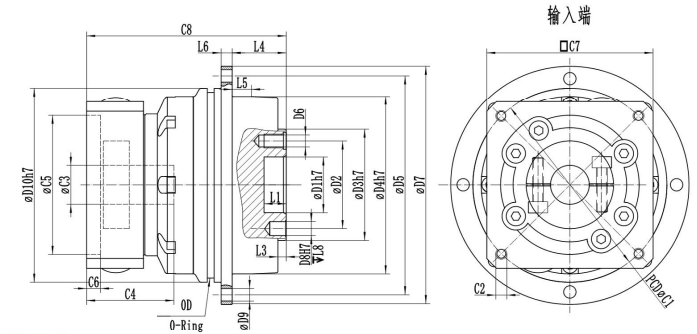
- 减速机转动惯量

规格 Specification	单位 Unit	节数 Stage	减速比 Ratio	WAD047	WAD064	WAD090	WAD110	WAD140	WAD200	WAD255
转动惯量J1 Rotational inertia J1	kg · cm <sup>2</sup>	1	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	0.03	0.13	0.45	2.61	7.14	22.48	50.97
			7	0.03	0.13	0.45	2.67	7.14	22.48	50.97
			8	0.03	0.13	0.44	2.57	7.03	22.51	50.56
			10	0.03	0.13	0.44	2.57	7.03	22.51	50.56
			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
		2	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	0.03	0.13	0.44	2.57	7.03	22.51
			70	0.03	0.03	0.13	0.44	2.57	7.03	22.51
			80	0.03	0.03	0.13	0.44	2.57	7.03	22.51
			100	0.03	0.03	0.13	0.44	2.57	7.03	22.51

1. 减速比 (  $i=N_n/N_{out}$  )  
1. Ratio (  $i=N_n/N_{out}$  )

2. 最大加速力矩  $T_{2B}=60\%$  of  $T_{2NOT}$   
2. Maximum acceleration torque  $T_{2B}=60\%$  of  $T_{2NOT}$

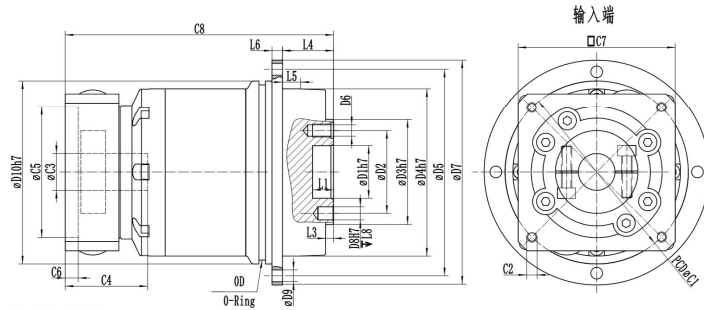
3. 输出转速 100rpm, 作用于输出轴中心位置  
3. Output speed 100rpm, acting on the center of the output shaft



## DIMENSION SINGLE SECTION

- 尺寸 (单节, 减速比  $i=4 \sim 10$ )  
Dimension (single stage, Ratio  $i=4 \sim 10$ )

尺寸/Dimension	WAD047	WAD064	WAD090	WAD110	WAD140	WAD200	WAD255
D1 H7	-	20	31.5	40	50	80	100
D2	-	31.5	50	63	80	125	140
D3 h7	-	40	63	80	100	160	180
D4 h7	-	64	90	110	140	200	255
D5	-	79	109	135	168	233	280
D6	-	7×M5×0.8P	7×M6×1P	11×M6×1P	11×M8×1.25P	11×M10×1.5P	12×M16×2.0P
D7	-	86	118	145	179	247	300
D8 H7	-	5	6	6	8	10	12
D9	-	8×4.5	8×5.5	8×5.5	12×6.6	12×9	16×13.5
D10h7	-	70	95	120	152	212	255
L1	-	8	12	12	12	16	20
L2	-	8	13.5	13.5	17	22.5	30.5
L3	-	3	6	6	6	8	12
L4	-	19.5	30	29	38	50	66
L5	-	7	10	10	14.6	15	20
L6	-	4	7	8	10	12	18
L7	-	7.7	7.5	10	12	15	20
L8	-	6	7	7	7	10	10
C1	-	70	90	145	145	200	235
C2	-	M4	M5	M5	M8	M8	M12
C3	-	≤14	≤19	≤19	≤24	≤24	≤35
C4	-	31.5	41	41	59	60	81
C5	-	50	70	70	110	110	114.3
C6	-	5	5	6	14	14	19
C7	-	60	80	80	130	130	180
C8	-	76	89	98	116	128.5	150.5
OD	-	67×2.0	90×2.5	115×2.5	146×3	204×4	245×5



## DIMENSION

### DOUBLE SECTION

- 尺寸 (双节, 减速比  $i=20\sim 100$ )

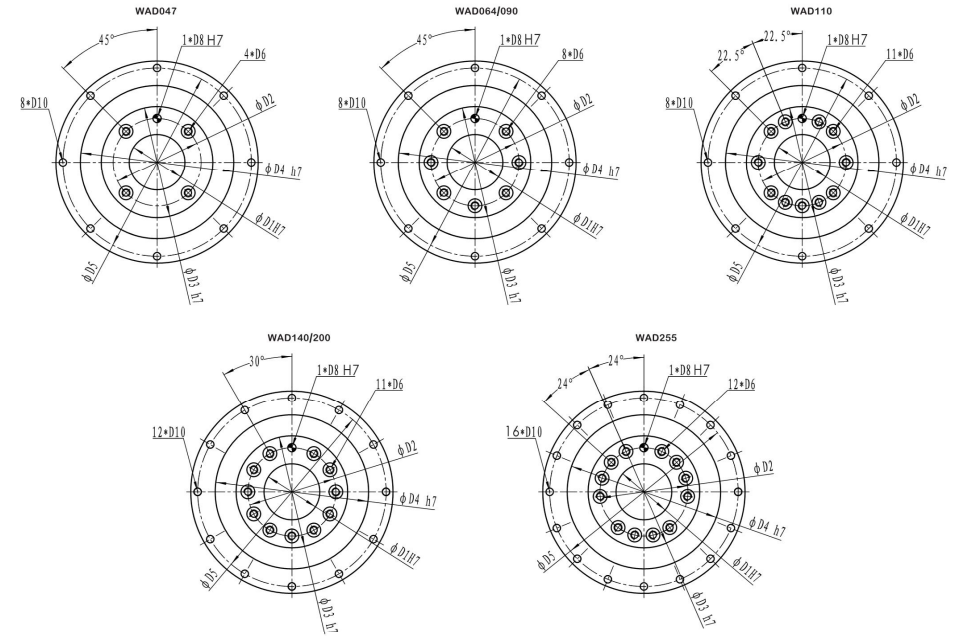
Dimension(double stage,Ratio  $i=20\sim 100$ )

尺寸/Dimension	WAD047	WAD064	WAD090	WAD110	WAD140	WAD200	WAD255						
D1 H7	-	20	31.5	40	50	80	100						
D2	-	31.5	50	63	80	125	140						
D3 h7	-	40	63	80	100	160	180						
D4 h7	-	64	90	110	140	200	255						
D5	-	79	109	135	168	233	280						
D6	-	7×M5×0.8P	7×M6×1P	11×M6×1P	11×M8×1.25P	11×M10×1.5P	12×M16×2.0P						
D7	-	86	118	145	179	247	300						
D8 H7	-	5	6	6	8	10	12						
D9	-	51	77	98	125	160	190						
D10	-	8×4.5	8×5.5	8×5.5	12×6.6	12×9	16×13.5						
D11 h7	-	70	95	120	152	212	255						
D12	-	63.2	89.2	109.2	139.2	199.2	254.5						
L1	-	8	12	12	12	16	20						
L2	-	8	13.5	13.5	17	22.5	20						
L3	-	3	6	6	6	8	12						
L4	-	19.5	30	29	38	50	66						
L5	-	7	10	10	14.6	15	20						
L6	-	4	7	8	10	12	18						
L7	-	/./	7.5	10	12	15	20						
L8	-	6	7	7	7	10	10						
C1	-	70	90	70	90	145	90	145	145	200	200		
C2	-	M4	M5	M4	M5	M8	M5	M8	M8*1.25P	M12*1.75P	M12*1.75P		
C3	-	≤14	≤19	≤14	≤19	≤24	≤19	≤24	≤24/≤28	≤35	≤42		
C4	-	31.5	41	31.5	41	59	41	60	66	80	114		
C5	-	50	70	50	70	110	70	110	110	114.3	114.3		
C6	-	5	5	5	6	14	6	14	19	9	30		
C7	-	60	80	60	80	130	80	130	180	180	180		
C8	-	102.5	115.5	115.5	132	150	143.5	173.5	234.5	260	332.5		
OD	-	67×2.0		90×2.5		115×2.5		146×3		204×4		245×5	

## DIMENSION

### OUTPUT SHAFT DISK SURFACE

- 出力轴盘面尺寸 / Output Shaft Disk Dimension



尺寸/Dimension	WAD047	WAD064	WAD090	WAD110	WAD140	WAD200	WAD255
D1 H7	12	20	31.5	40	50	80	100
D2	20	31.5	50	63	80	125	140
D3 h7	28	40	63	80	100	160	180
D4 h7	47	64	90	110	140	200	255
D5	67	79	109	135	168	233	280
D6	M3*0.5P	M5*0.8P	M6*1.0P	M6*1.0P	M8*1.25P	M10*1.5P	M16*2.0P
D8 H7	3	5	6	6	8	10	12
D10	3.4	4.5	5.5	5.5	6.8	9	13.5