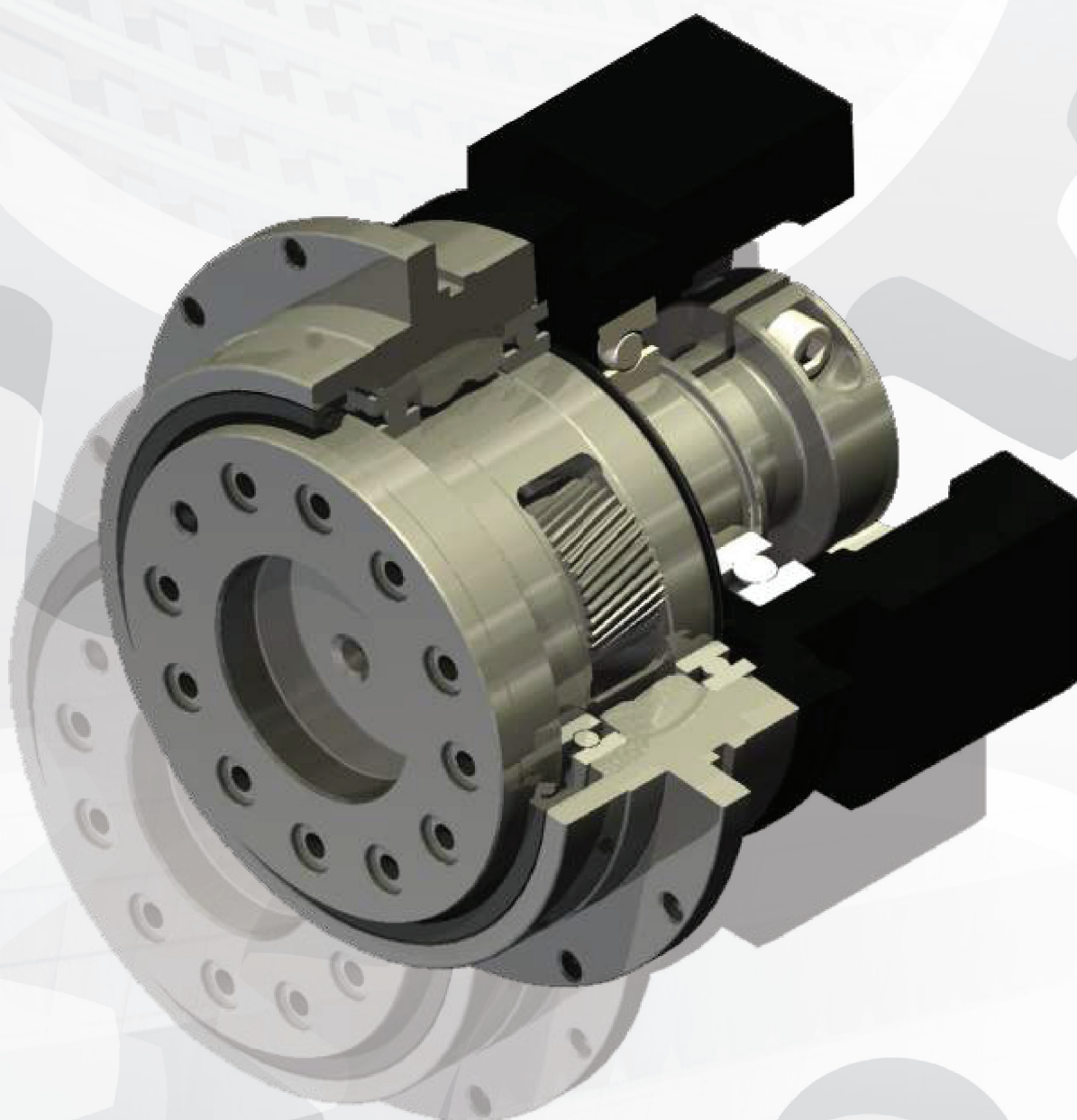




**DRIVE
TECHNIQUE**

DAD Series

Precision Planetary Gearbox Helical Gear



DAD Series

Precision Planetary Helical Gear



- Low backlash
- Ultra-quiet
- High efficiency
- Long life

ORDERING CODE

D AD 064 010 P2
1 2 3 4 5

1 Drive Technique mark

2 AD: Type of gearbox

3 Size: 047 064 090 110 140 200 225

Note: size 47 in development, on request

4 Ratio: 4.....100

5 Backlash: P0 Precision
P1 Reduced
P2 Standard

PRODUCT FEATURES

- Precision helical gearing, small, compact, high-precision, ensuring long life and ultra-low noise
- Fully sealed structure to ensure that grease does not leak, maintenance-free
- Products have passed the test system efficiency, transmission efficiency up to 97%

DAD Series

Precision Planetary Helical Gear

PERFORMANCE TABLE

Specifications	Unit	Stages	Reduction ratio (i)	DAD047	DAD064	DAD090	DAD110	DAD140	DAD200	DAD255
Rated output torque	Nm	1 (L1)	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 (L2)	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	1100	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
Acceleration torque	Nm	1,2	4 – 100	180% of the rated torque						
Emergency stop torque	Nm	1,2	4 – 100	300% of the rated torque						
Rated input speed	rpm	1,2	4 – 100	5000	5000	4000	4000	3000	3000	2000
Max input speed	rpm	1,2	4 – 100	1000	10000	8000	8000	6000	6000	4000
Backlash P0 (precision)	arcmin	1	4 – 10	–	≤2	≤2	≤2	≤2	≤2	≤2
		2	20 – 100	–	–	–	–	–	–	–
Backlash P1 (reduced)	arcmin	1	4 – 100	–	≤3	≤3	≤3	≤3	≤3	≤3
		2	20 – 100	–	≤5	≤5	≤5	≤5	≤5	≤5
Backlash P2 (standard)	arcmin	1	4 – 10	≤5	≤5	≤5	≤5	≤5	≤5	≤5
		2	20 – 100	≤8	≤8	≤8	≤8	≤8	≤8	≤8
Torsional rigidity	Nm/arcmin	1,2	4 – 100	7	13	31	82	151	440	1006
Tilting torque	Nm	1,2	4 – 100	42.5	125	235	430	1300	3064	5900
Axial load	N	1,2	4 – 100	990	1050	2850	2990	10590	16660	29430
Efficiency (%)	%	1	4 – 10	≥97%						
		2	20 – 100	≥94%						
Weight	kg	1	4 – 10	0.7	1.2	3	5.6	11.9	31.6	56.1
		2	20 – 100	1	1.6	3.7	7.3	15.9	36.9	70.4
Temperature	°C	1,2	4 – 100	-10 °C ~ 90 °C						
Protection class		1,2	4 – 100	IP65						
Lubrication				Full synthetic lubricants						
Mounting direction		1,2	4 – 100	In any direction						
Noise	dB(A)	1,2	4 – 100	≤56	≤58	≤60	≤63	≤65	≤67	≤70

DAD Series Precision Planetary Helical Gear

PERFORMANCE TABLE MASS MOMENT OF INERTIA (related to input)

Specifications	Unit	Stages	Reduction ratio (i)	DAD047	DAD064	DAD090	DAD110	DAD140	DAD200	DAD110
Inertia J_1	kg * cm ²	1 (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	0.03	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
		2 (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	22.51
			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



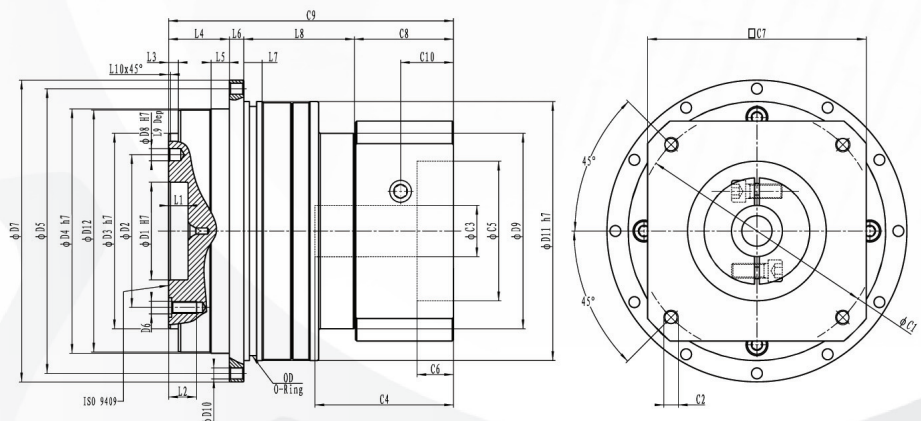
DAD Series

Precision Planetary Helical Gear

DIMENSIONS: 1 – STAGE (L1)

Size	DAD047	DAD064	DAD090	DAD110	DAD140	DAD200	DAD255
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	–	7xM5x0.8P	7xM6x1P	11xM6x1P	11xM8x1.25P	11xM10x1.5P	12xM16x2.0P
D7	–	86	118	145	179	247	300
D8 H7	–	5	6	6	8	10	12
D9	–	51	77	98	125	160	190
D10	–	8 x 4.5	8 x 5.5	8 x 5.5	12 x 6.6	12 x 9	16 x 13.5
D11 h7	–	70	95	120	152	212	255
D12	–	63.2	89.2	109.2	139.2	199.2	254.2
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	–	41	44.5	59	68	82	98
L9	–	6	7	7	7	10	10
L10	–	0.5	1	1	1	1.5	1
C1*	–	70	90	145	200	200	235
C2*	–	M4*0.7P	M5*0.8P	M8*1.25P	M12*1.75P	M12*1.75P	M12*1.75P
C3*	–	≤14/ ≤16	≤19/ ≤24	≤28	≤35/ ≤42	≤42	≤42/ ≤55
C4*	–	35	46.5	67	81	114	117
C5*	–	50	70	110	114.3	114.3	200
C6*	–	3.5	6	14	19	24	20
C7*	–	60	80	130	180	180	220
C8*	–	23	30	45.5	57.5	81.5	87.5
C9*	–	88	111.5	141.5	173.5	225.5	268.5
C10*	–	11.5	14.5	27	32	43.5	49.5
OD	–	67 x 2.0	90 x 2.5	115 x 2.5	146 x 3	204 x 4	245 x 5

*Motor specific dimensions.
Mounting of different motors
possible – please contact us.



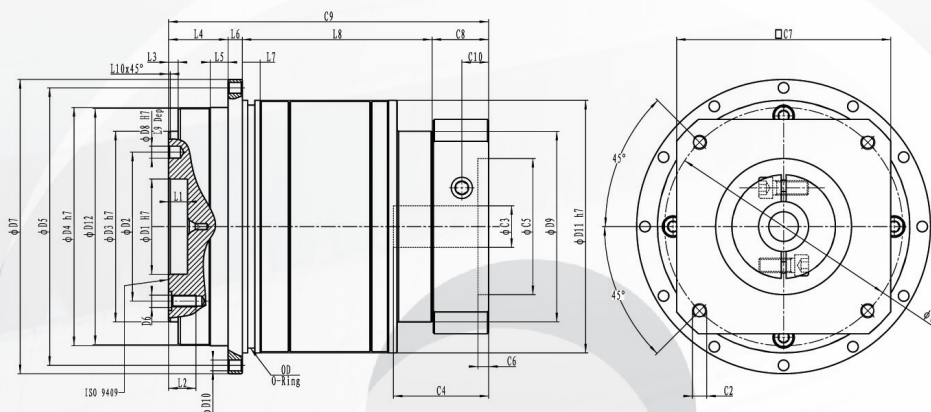
DAD Series

Precision Planetary Helical Gear

DIMENSIONS: 2 – STAGE (L2)

Size	DAD047	DAD064	DAD090	DAD110	DAD140	DAD200	DAD255
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	–	7xM5x0.8P	7xM6x1P	11xM6x1P	11xM8x1.25P	11xM10x1.5P	12xM16x2.0P
D7	–	86	118	145	179	247	300
D8 H7	–	5	6	6	8	10	12
D9	–	51	77	98	125	160	190
D10	–	8 x 4.5	8 x 5.5	8 x 5.5	12 x 6.6	12 x 9	16 x 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	–	7.7	7.5	10	12	15	20
L8	–	73	82	105	129	150.5	167
L9	–	6	7	7	7	10	10
L10	–	0.5	1	1	1	1.5	1
C1*	–	70	90	145	145	200	200
C2*	–	M4*0.7P	M5*0.8P	M8*1.25P	M8*1.25P	M12*1.75P	M12*1.75P
C3*	–	≤14/ ≤16	≤16/ ≤19	≤19/ ≤24	≤24/ ≤28	≤35	≤42
C4*	–	35	46.5	67	66	80	114
C5*	–	50	70	110	110	114.3	114.3
C6*	–	3.5	6	14	19	9	30
C7*	–	60	80	130	180	180	180
C8*	–	23	30	45.5	57.5	47.5	84.5
C9*	–	120	149	187.5	234.5	260	332.5
C10*	–	11.5	14.5	27	32	22.5	43.5
OD	–	67 x 2.0	90 x 2.5	115 x 2.5	146 x 3	204 x 4	245 x 5

*Motor specific dimensions.
Mounting of different motors
possible – please contact us.



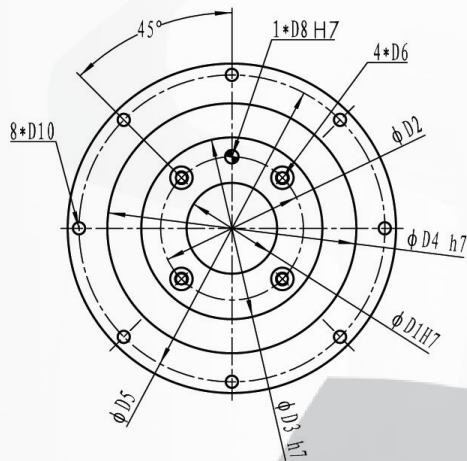
DAD Series

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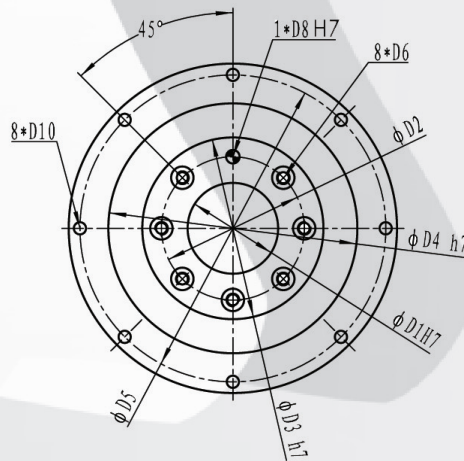
OUTPUT DIMENSIONS

Size	DAD047	DAD064	DAD090	DAD110	DAD140	DAD200	DAD255
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 H8	3	5	6	6	8	10	12
D10	3.4	4.5	5.5	5.5	6.8	9	13.5

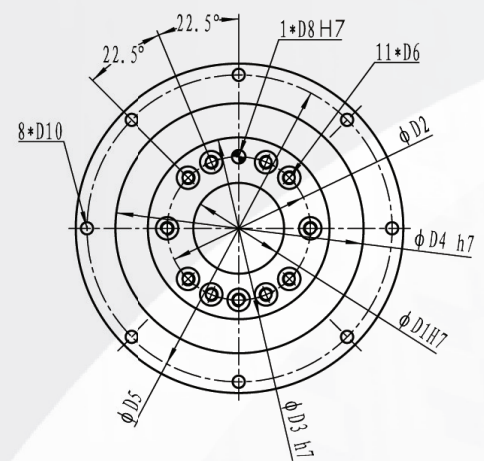
DAD047



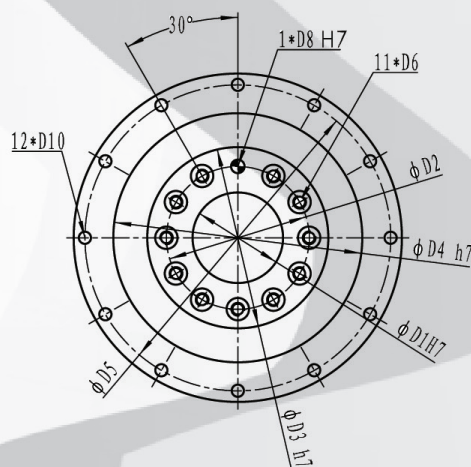
DAD064/90



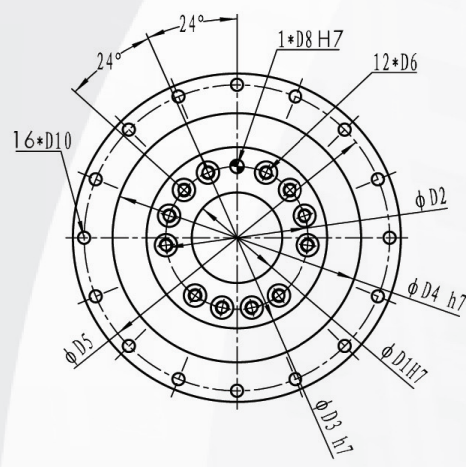
DAD110



DAD140/200



DAD255



DVRB	DAE	DAB
		
DVRBR	DAER	DABR
		
DAD	DPF	DPL
		
DADR	DPFR	DPLR
		



**DRIVE
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