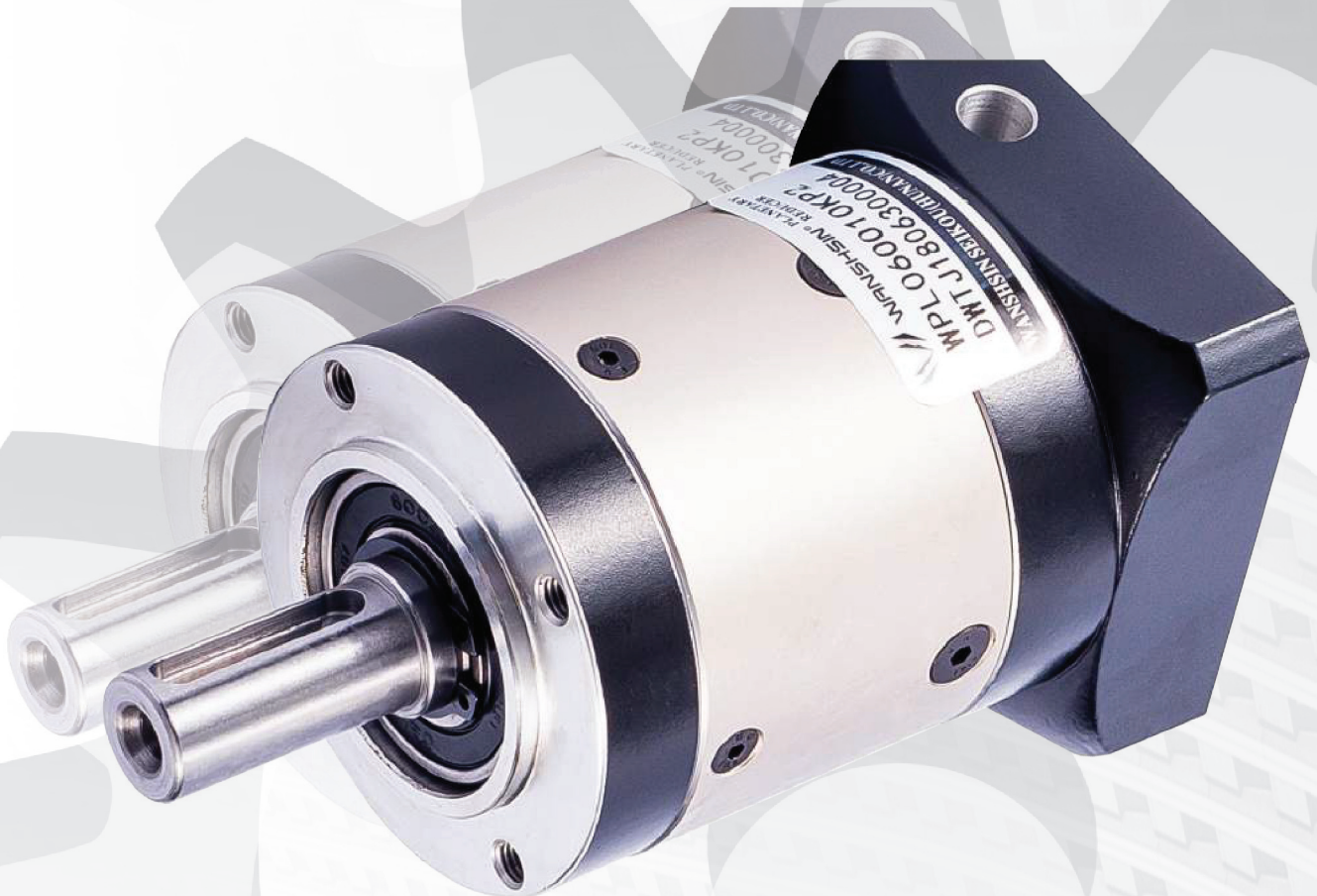




**DRIVE
TECHNIQUE**

DPL Series

Economical Planetary Gearbox



DPL Series Economical Planetary Gearbox



- Economical
- Maintenance-free
- Compact

ORDERING CODE

D PL 060 010 S1 P2
1 2 3 4 5 6

1 Drive Technique mark

2 PL: Type of gearbox

3 Size: 042 060 080 090 120 160

4 Ratio: 3.....100

5 Output shaft: S1 Key
S2 Smooth

6 Backlash: P2 Standard

PRODUCT FEATURES

- Precision spur gearing, small, compact
- Fully sealed structure to ensure that grease does not leak, maintenance-free
- Transmission efficiency up to 96%

DPL Series Economical Planetary Gearbox

PERFORMANCE TABLE

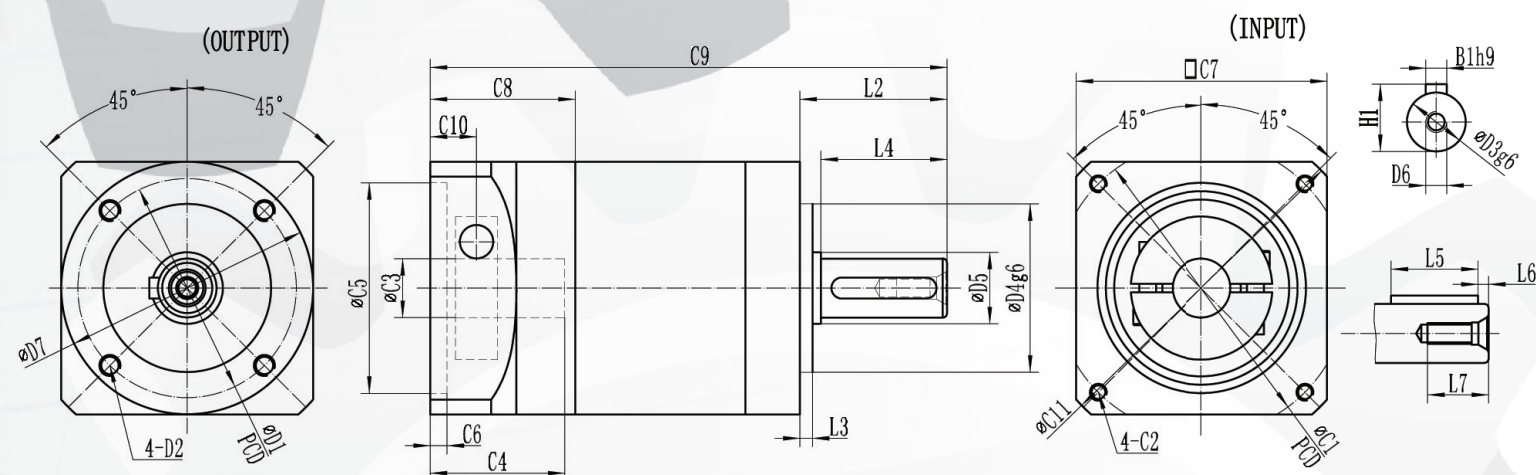
Specifications	Unit	Stages	Reduction ratio (i)	DPL042	DPL060	DPL080	DPL090	DPL120	DPL160
Rated output torque	Nm	(L1)	3	8	18	40	50	125	290
			4	18	36	90	110	230	460
			5	16	40	110	125	260	550
			6	8	20	40	50	90	340
			7	8	20	40	50	90	340
			8	5	12	22	32	70	210
			10	5	12	22	32	70	210
		(L2)	12	8	36	90	110	230	460
			15	16	40	110	125	260	550
			16	18	36	90	110	230	460
			20	16	40	110	125	260	550
			25	16	40	110	125	260	550
			28	18	36	90	110	230	460
			30	8	18	40	50	125	290
			35	16	40	110	125	260	550
			40	18	36	90	110	230	460
			50	16	40	110	125	260	550
			60	8	20	40	50	90	340
			70	8	20	40	50	90	340
			80	5	12	22	32	70	210
			100	5	12	22	32	70	210
Device motor shaft	mm	1,2	3 – 100	6 – 9	6 – 14	14 – 19	14 – 19	16 – 24	19 – 35
Acceleration torque	Nm	1,2	3 – 100	120% of the rated torque					
Emergency stop torque	Nm	1,2	3 – 100	200% of the rated torque					
Max input speed	rpm	1,2	3 – 100	4000	4000	3500	3500	3500	2500
Backlash P2 (standard)	arcmin	1	3 – 10	≤16	≤10	≤10	≤10	≤10	≤10
		2	12 – 100	≤19	≤12	≤12	≤12	≤12	≤12
Torsional rigidity	Nm/arcmin	1,2	3 – 100	0.65	1.8	4.7	4.85	11	55
Radial load	N	1,2	3 – 100	135	220	400	430	1000	4500
Axial load	N	1,2	3 – 100	165	240	420	450	1240	4800
Efficiency (%)	%	1	3 – 10	≥96%					
		2	12 – 100	≥93%					
Weight	kg	1	3 – 10	0.3	1.7	4.4	4.4	12	26.5
		2	12 – 100	0.4	1.9	5	5	14	29.6
Temperature	°C	1 – 2	3 – 100	-10 °C ~ 90 °C					
Protection class		1 – 2	3 – 100	IP65					
Lubrication		1 – 2	3 – 100	Full synthetic lubricants					
Mounting direction		1 – 2	3 – 100	In any direction					
Noise	dB(A)	1 – 2	3 – 100	≤61	≤61	≤63	≤63	≤68	≤75

DPL Series Economical Planetary Gearbox

DIMENSIONS: 1 – STAGE (L1)

Size	DPL042	DPL060	DPL080	DPL090	DPL120	DPL160
D1	34	52	70	80	100	145
D2	M4	M5	M6	M6	M10	M12
D3	10	14	20	22	25	40
D4	26	40	60	68	80	130
D5	12	17	25	30	35	55
D6	M4	M5*0.8P	M6*1.0P	M6*1.0P	M10*1.5P	M12*1.75PL
D7	58	60	80	90	115	162
L2	26	35	40	46	55	87
L3	2	3	3	5	4	5
L4	22.5	30	36	36	50	80
L5	16	25	25	32	40	70
L6	2.5	2.5	5	2	5	5
L7	10	12.5	18	18	23	25
C1*	46	70	90	90	145	200
C2*	M4	M4	M5	M5	M8	M12
C3*	5 – 8	6 – 14	14 – 19	14 – 19	19 – 24	24 – 35
C4*	26	32	41	41	60	83
C5*	30	50	70	70	110	114.3
C6*	4	4	5	5	8	10
C7*	42	60	80	80	130	180
C8*	29.5	34.5	46.5	46.5	81.2	107
C9*	88	123	160	166	210.2	268.5
C10*	10.5	11	16.5	16.5	20	26
C11	56	80	105	105	165	235
B1	3	5	6	6	8	12
H1	11.2	16	22.5	24.5	28	43

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

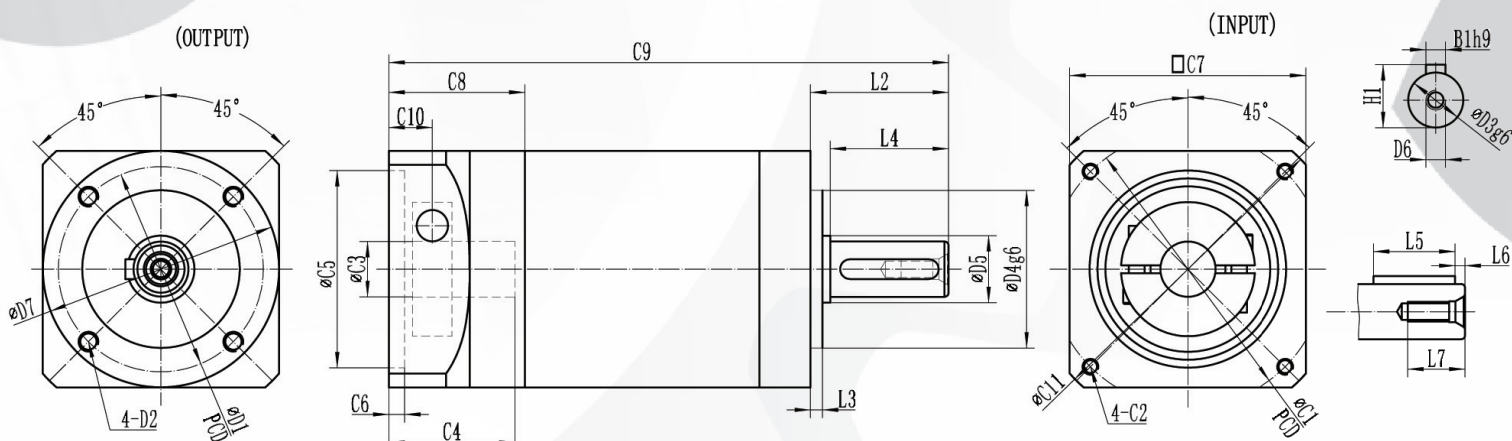


DPL Series Economical Planetary Gearbox

DIMENSIONS: 2 – STAGE (L2)

Size	DPL042	DPL060	DPL080	DPL090	DPL120	DPL160
D1	34	52	70	80	100	145
D2	M4	M5	M6	M6	M10	M12
D3	10	14	20	22	25	40
D4	26	40	60	68	80	130
D5	12	17	25	30	35	55
D6	M4	M5*0.8P	M6*1.0P	M6*1.0P	M10*1.5P	M12*1.75P
D7	58	60	80	80	90	115
L2	26	35	40	46	55	87
L3	2	3	3	5	4	5
L4	22.5	30	36	36	50	80
L5	16	25	25	32	40	70
L6	2.5	2.5	5	2	5	5
L7	10	12.5	18	18	23	25
L12	–	22	24.5	24.5	33.5	46
C1*	46	70	90	90	145	200
C2*	M4	M4	M5	M5	M8	M12
C3*	5 – 8	6 – 14	14 – 19	14 – 19	16 – 24	19 – 35
C4*	26	32	41	41	60	81
C5*	30	50	70	70	110	114.3
C6*	4	3.5	5	5	8	6
C7*	42	60	94	94	130	180
C8*	29.5	44.5	65	65	81.2	108.4
C9*	104	143.5	186.5	192.8	245.2	327.4
C10*	10.5	12	19.5	19.5	29.5	48
C11	56	80	118	118	160	230
B1	3	5	6	6	8	12
H1	11.2	16	22.5	24.5	28	43

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



Drive Technique

Delivery program

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



**DRIVE
TECHNIQUE**

Tel. +7 (495) 786-21-00

servo@privod.ru