KANIA
ANTRIEBSSYSTEME

PEII und PEIIR-Serie Planetengetriebe

PEII Planetengetriebe

Technische Daten

Einfache Montage

Geringes Laufgeräusch

Schutzklasse IP 65

Kompakte Bauweise

Nenn-Abtriebsdrehmoment

T2N: 8 – 459 Nm

Untersetzungen

1-stufig: 3 / 4 / 5 / 7 / 10

2-stufig:15 / 16 / 20 / 25 / 30 / 35 / 40 / 50 / 70 / 100

Geringes Verdrehspiel

1-stufig:6 – 8 Winkelminuten

2-stufig:8 – 10 Winkelminuten

Hoher Wirkungsgrad

1-stufig:≥ 97%

2-stufig:≥ 94%

Arbeitstemperatur

0°C bis 90°C mit Standardfett

Baugrößen

PEII 050 / PEII 070 / PEII 090 / PGII 120 / PGII 155

Verwendung

Anwendungen im Maschinenbau, bei denen kostengünstige und gleichzeitig hochwertige Planetengetriebe gefordert sind.

PEIIR Winkelplanetengetriebe

Technische Daten

Einfache Montage

Geringes Laufgeräusch

Schutzklasse IP 65

Kompakte Bauweise

Nenn-Abtriebsdrehmoment

T2N: 8 – 459 Nm

Untersetzungen

1-stufig: 3 / 4 / 5 / 7 / 9 / 10

2-stufig:15 / 16 / 20 / 25 / 30 / 35 / 40 / 50 / 70 / 81 / 100

Geringes Verdrehspiel

1-stufig:10 – 12 Winkelminuten

2-stufig:12 – 14 Winkelminuten

Hoher Wirkungsgrad

1-stufig:≥ 93%

2-stufig:≥ 90%

Arbeitstemperatur

0°C bis 90°C mit Standardfett

Baugrößen

PEIIR 050 / PEIIR 070 / PEIIR 090 / PEIIR 120 / PEIIR 155

Verwendung

Anwendungen im Maschinenbau, bei denen kostengünstige und gleichzeitig hochwertige Planetengetriebe gefordert sind.

PEII / PEIIR Spezifikationen

Model No.		Stages	Ratio(1)	Type	PEII 050 / PEIIR 050	PEII 070 / PEIIR 070	PEII 090 / PEIIR 090	PEII 120 / PEIIR 120	PEII 155 / PEIIR 155
Nominal Output Torque T_{2N}	Nm	1	3	All	16	42	110	217	430
			4		16	42	113	223	440
			5		15	40	118	220	435
			7		12	35	96	198	366
			10		10	27	68	155	295
		2	15		15	40	109	213	424
			16		16	42	116	228	452
			20		16	42	116	230	454
			25		15	40	123	228	450
			30		15	40	108	212	422
			35		12	35	100	206	382
			40		16	43	117	232	459
			50		15	40	123	228	450
			70		12	35	100	206	382
			100		10	27	70	162	308
Emergency Stop Torque T_{2NOT}	Nm	1,2	3~100	All	3 times T_{2N}				
Max. Acceleration Torque T_{2B}	Nm	1,2	3~100	All	T_{2B} = 60% of T_{2NOT}				
No Load Running Torque(4)	Nm	1	3~10	PEII	0.05	0.10	0.40	0.80	2.50
				PEIIR	0.10	0.15	0.45	0.85	2.55
		2	15~100	PEII	0.05	0.10	0.30	0.40	0.80
				PEIIR	0.10	0.15	0.35	0.45	0.85
Backlash(2)	arcmin	1	3~10	PEII	≦ 8	≦ 7	≦ 6	≦ 6	≦ 6
				PEIIR	≦ 12	≦ 11	≦ 10	≦ 10	≦ 10
		2	15~100	PEII	≦ 10	≦ 9	≦ 8	≦ 8	≦ 8
				PEIIR	≦ 14	≦ 13	≦ 12	≦ 12	≦ 12
Torsional Rigidity	Nm/arcmin	1,2	3~100	All	0.9	2.2	8	12	16
Nominal Input Speed n_{1N}	rpm	1,2	3~100	All	4,500	4,000	3,600	3,600	2,500
Max. Input Speed n_{1B}	rpm	1,2	3~100	All	8,000	6,000	6,000	4,800	3,600
Max. Radial Load F_{2rB}(3)	N	1,2	3~100	All	810	1,150	1,530	3,260	4,550
Max. Axial Load F_{2aB}(3)	N	1,2	3~100	All	405	575	765	1,630	2,275
Service Life(5)	hr	1,2	3~100	All	20,000				
Operating Temp	° C	1,2	3~100	All	0° C~ +90° C				
Degree of Gearbox Protection		1,2	3~100	All	IP65				
Lubrication		1,2	3~100	All	Synthetic lubrication grease				
Mounting Position		1,2	3~100	All	All directions				
Running Noise(4)	dB(A)	1,2	3~100	PEII	≦ 60	≦ 62	≦ 64	≦ 66	≦ 68
				PEIIR	≦ 70	≦ 72	≦ 74	≦ 75	≦ 77
Max. bending moment based on the gearbox input flange Mb(6)	Nm	1,2	3~100	PEII	5	12	22	45	54
				PEIIR	3	6	10	17	19
Efficiency η	%	1	3~10	PEII	≧ 97%				
				PEIIR	≧ 93%				
		2	15~100	PEII	≧ 94%				
				PEIIR	≧ 90%				

(1) Ratio ($i = N_{in} / N_{out}$).

(2) Backlash is measured at 2% of Nominal Output Torque T_{2N}.

(3) Applied to the output shaft center at 100 rpm.

(4) These values are measured by gearbox with ratio = 10 (1-stage) or ratio = 100 (2-stage) at 3,000 rpm without load, By ratio smaller than 10, the noise value would be 3-5dB higher.

(5) For continuous operation, the service life time is less than 10,000 hrs.

(6) Max. motor weight* (kg) = $\frac{0.1 \times Mb}{\text{motor length (m)}}$

*with symmetrically distributed motor weight

*with horizontal and stationary mounting

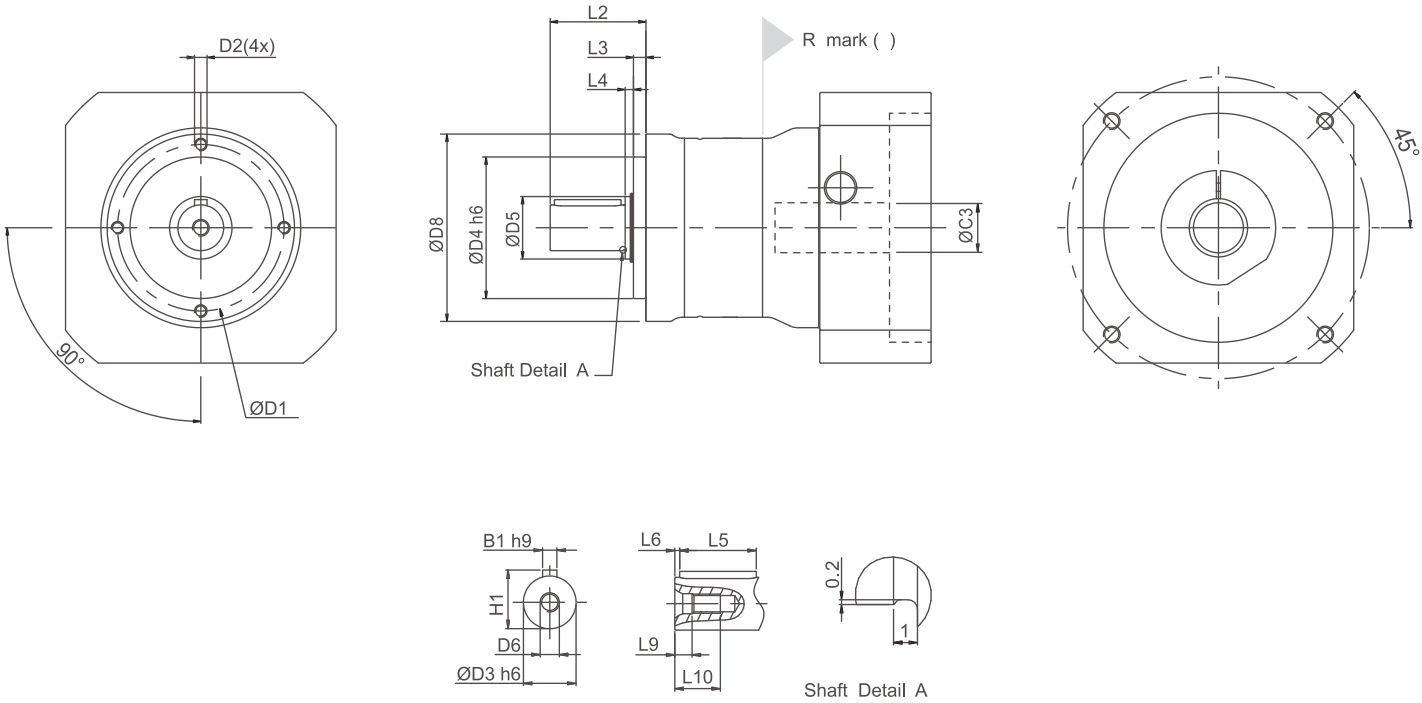
Massenträgheitsmoment PEII

Model No.		PEII 050		PEII 070		PEII 090		PEII 120		PEII 155	
Ø(A) (C3)		1-stage	2-stage	1-stage	2-stage	1-stage	2-stage	1-stage	2-stage	1-stage	2-stage
8	kg.cm²	0.10	0.10	0.12	0.10	-	-	-	-	-	-
11		0.16	0.16	0.19	0.16	-	-	-	-	-	-
14		-	-	0.22	0.20	0.36	0.24	-	-	-	-
19		-	-	1.53	1.51	1.70	1.58	2.20	1.73	-	2.18
24		-	-	-	-	2.24	2.12	2.74	2.27	4.52	2.73
28		-	-	-	-	2.68	2.55	3.17	2.70	4.94	3.15
32		-	-	-	-	-	-	7.77	7.30	9.70	7.91
35		-	-	-	-	-	-	10.80	10.30	12.80	11.00
38		-	-	-	-	-	-	14.00	13.50	16.00	14.20
42		-	-	-	-	-	-	-	-	24.50	-

Massenträgheitsmoment PEIIR

Model No.		PEIIR 050		PEIIR 070		PEIIR 090		PEIIR 120		PEIIR 155	
Ø(A) (C3)		1-stage	2-stage	1-stage	2-stage	1-stage	2-stage	1-stage	2-stage	1-stage	2-stage
8	kg.cm²	0.18	0.18	0.36	0.36	-	-	-	-	-	-
11		0.20	0.20	0.39	0.39	-	-	-	-	-	-
1		-	-	0.43	0.43	1.87	1.87	-	-	-	-
19		-	-	1.24	1.24	2.67	2.67	6.80	6.80	-	13.57
2		-	-	-	-	2.97	2.97	7.10	7.10	13.87	13.87
28		-	-	-	-	3.47	3.47	7.59	7.59	14.36	14.36
32		-	-	-	-	-	-	10.56	10.56	17.33	17.33
35		-	-	-	-	-	-	11.97	11.97	18.7	18.74
38		-	-	-	-	-	-	13.95	13.95	20.79	20.79
42		-	-	-	-	-	-	-	-	26.5	-

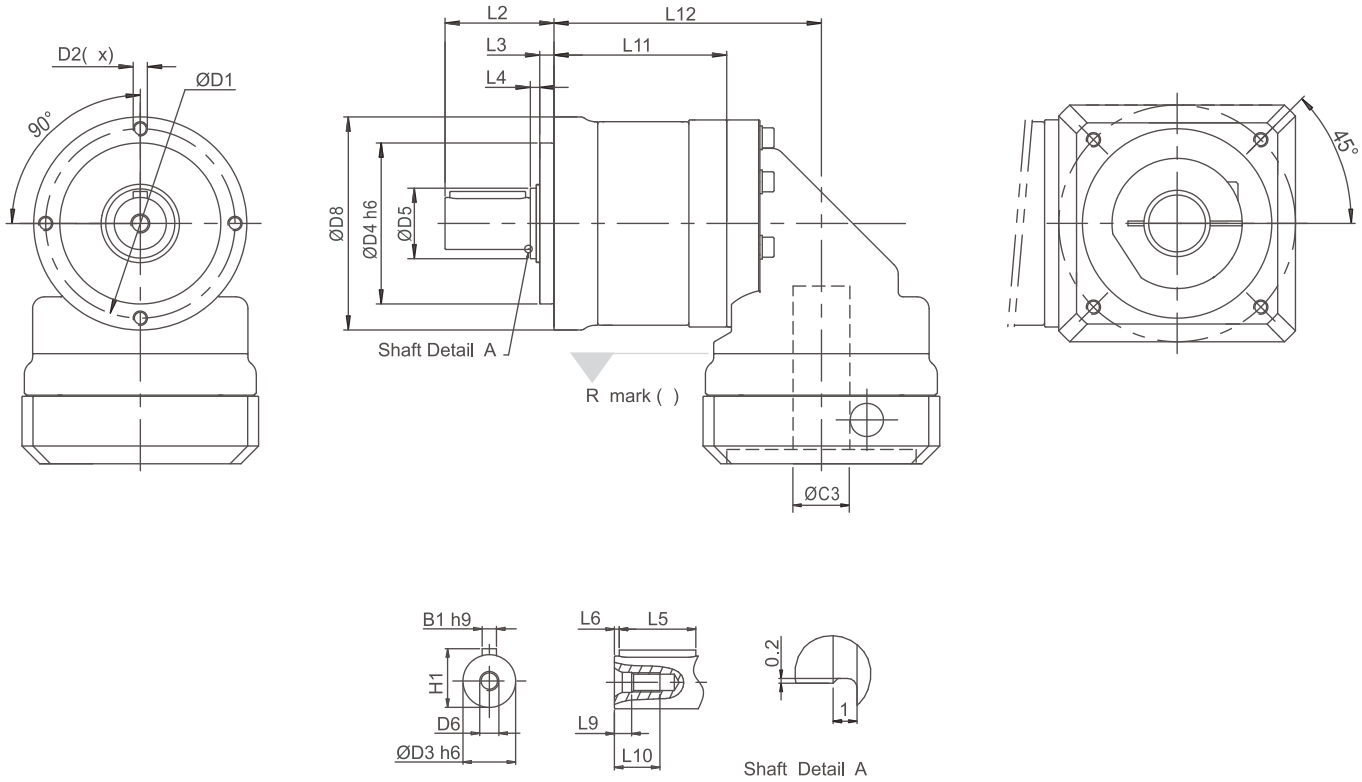
PEII Abmessungen



Dimension		PEII 050		PEII 070		PEII 090		PEII 120		PEII 155	
		1-stage	2-stage	1-stage	2-stage	1-stage	2-stage	1-stage	2-stage	1-stage	2-stage
D1		44		62		80		108		140	
D2		M4X9		M5X10		M6X12		M8X15		M10X18	
D3	h6	12		16		22		32		40	
D4	h6	35		52		68		90		120	
D5		17		22		30		40		55	
D6		M4X0.7P		M5X0.8P		M8X1.25P		M12X1.75P		M16X2P	
D8		50		70		90		120		155	
L2		24.5		36		46		70		97	
L3		4		4.5		6		7		9.5	
L4		2.5		3.5		4		5		5.5	
L5		14		25		32		50		70	
L6		2		2		2		4		6	
L9		4.5		4.8		7.2		10		12	
L10		10		12.5		19		28		36	
B1	h9	4		5		6		10		12	
H1		13.5		18		24.5		35		43	

(1) Dimensions are related to motor interface.

PEIIR Abmessungen



Dimension		PEIIR 050		PEIIR 070		PEIIR 090		PEIIR 120		PEIIR 155	
		1-stage	2-stage	1-stage	2-stage	1-stage	2-stage	1-stage	2-stage	1-stage	2-stage
D1		44		62		80		108		140	
D2		M4X9		M5X10		M6X12		M8X15		M10X18	
D3	h6	12		16		22		32		40	
D4	h6	35		52		68		90		120	
D5		17		22		30		40		55	
D6		M4X0.7P		M5X0.8P		M8X1.25P		M12X1.75P		M16X2P	
D8		50		70		90		120		155	
L2		24.5		36		46		70		97	
L3		4		4.5		6		7		9.5	
L4		2.5		3.5		4		5		5.5	
L5		14		25		32		50		70	
L6		2		2		2		4		6	
L9		4.5		4.8		7.2		10		12	
L10		10		12.5		19		28		36	
L11		49.5	64.5	60	80	73	99.5	101	137	121	168.5
L12		74.5	89.5	89.5	109.5	113	139.5	152	188	178	225.5
B1	h9	4		5		6		10		12	
H1		13.5		18		24.5		35		43	

(1) Dimensions are related to motor interface.