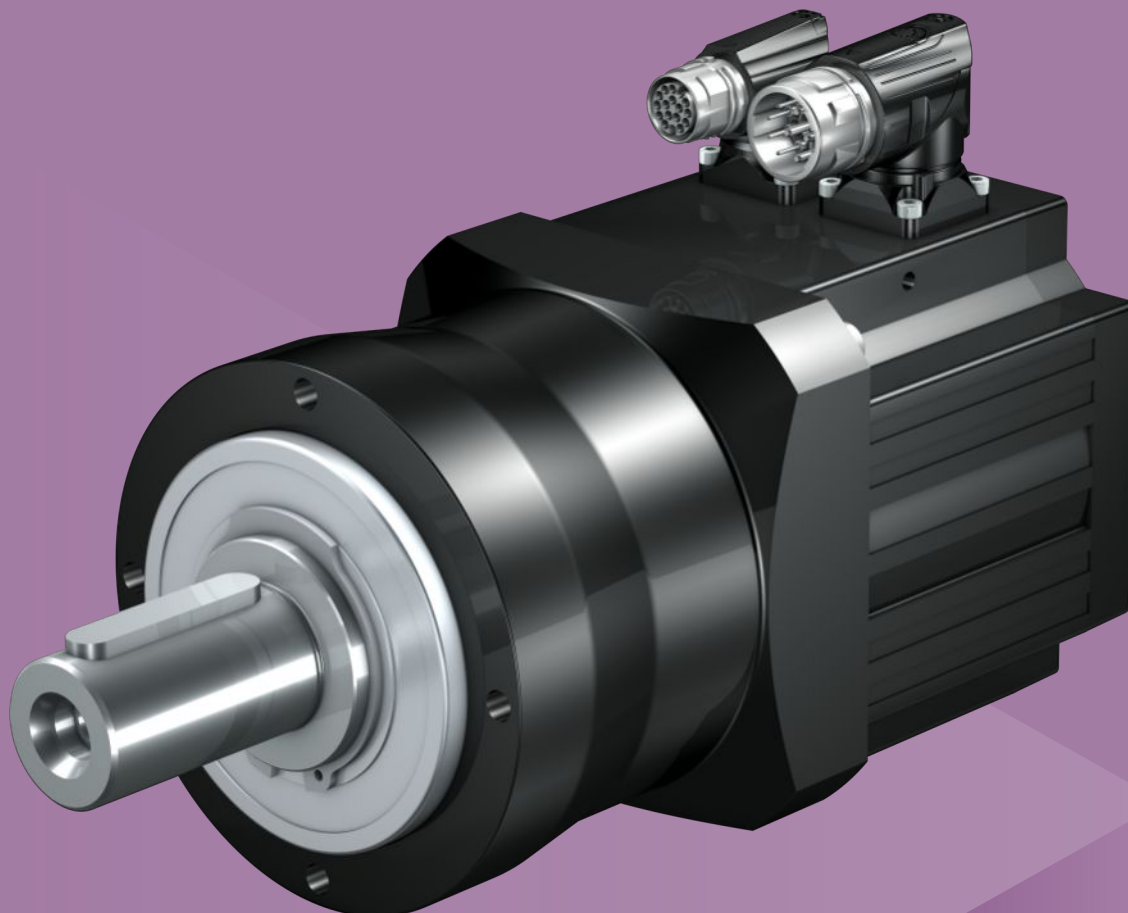




6

Planetary geared motors

PE

6.1 Overview

Cost-efficient helical-geared planetary geared motors

Features

Power density	★★★★☆
Backlash	★★★★☆
Price category	€
Shaft load	★★★★☆
Smooth operation	★★★★☆
Torsional stiffness	★★★★☆
Mass moment of inertia	★★★★★
Helical gearing	✓
Maintenance-free	✓
Any mounting position	✓
Non-contact sealing at the input	✓
Compact and highly dynamic due to direct motor attachment	✓

Key ★☆☆☆☆ good | ★★★★★ excellent

€ Economy | €€€€€ Premium

Technical data

i	3 – 50
M_{2acc}	5.7 – 250 Nm
$\Delta\phi_2$	8 – 13 arcmin
η_{get}	95 – 97 %

6.2 Selection tables

The technical data specified in the selection tables applies to:

- Installation altitudes up to 1000 m above sea level
- Surrounding temperatures from 0 °C to 40 °C
- Drives with convection-cooled motors (e.g. EZ401U)

For the technical data on drives with forced ventilated motors (e.g. EZ401B), refer to

<https://configurator.stoeber.de/en-US/>.

An explanation of the formula symbols can be found in Chapter [▶ 20.1](#).

n_{2N} [rpm]	M_{2N} [Nm]	$M_{2,0}$ [Nm]	a_{th}	S	Type	M_{2acc} [Nm]	M_{2NOT} [Nm]	i	i_{exakt}	n_{1maxDB} [rpm]	n_{1maxZB} [rpm]	J_1 [kgcm ²]	$\Delta\phi_2$ [arcmin]	C_2 [Nm/arcmin]	m [kg]
PE2 ($n_{1N} = 3000$ rpm, $M_{2acc,max} = 19$ Nm)															
429	6.3	6.5	2.7	1.0	PE221_0070 EZ301U	18	32	7.000	7/1	4500	8000	0.20	10.0	1.3	2.1
600	4.5	4.6	4.1	1.4	PE221_0050 EZ301U	14	32	5.000	5/1	4000	8000	0.21	10.0	1.4	2.1
750	3.6	3.7	5.4	1.8	PE221_0040 EZ301U	11	32	4.000	4/1	4000	8000	0.22	10.0	1.5	2.1
750	6.2	6.5	9.2	1.0	PE221_0040 EZ302U	19	32	4.000	4/1	4000	8000	0.32	10.0	1.5	2.7
PE2 ($n_{1N} = 6000$ rpm, $M_{2acc,max} = 19$ Nm)															
375	6.1	6.7	6.3	1.0	PE222_0160 EZ202U	19	32	16.00	16/1	4000	8000	0.17	13.0	1.4	2.6
600	3.9	4.3	1.0	1.3	PE221_0100 EZ202U	14	32	10.00	10/1	4500	8000	0.13	10.0	1.2	2.1
857	2.7	3.0	1.5	1.9	PE221_0070 EZ202U	10	32	7.000	7/1	4500	8000	0.14	10.0	1.3	2.1
857	4.1	4.7	2.3	1.2	PE221_0070 EZ203U	18	32	7.000	7/1	4500	8000	0.18	10.0	1.3	2.3
1200	1.9	2.1	2.2	2.6	PE221_0050 EZ202U	7.2	32	5.000	5/1	4000	8000	0.14	10.0	1.4	2.1
1200	3.0	3.3	3.4	1.7	PE221_0050 EZ203U	13	32	5.000	5/1	4000	8000	0.18	10.0	1.4	2.3
1200	4.3	4.6	5.0	1.2	PE221_0050 EZ301U	14	32	5.000	5/1	4000	8000	0.21	10.0	1.4	2.1
1500	1.6	1.7	2.9	3.2	PE221_0040 EZ202U	5.7	32	4.000	4/1	4000	8000	0.16	10.0	1.5	2.1
1500	2.4	2.7	4.4	2.1	PE221_0040 EZ203U	10	32	4.000	4/1	4000	8000	0.20	10.0	1.5	2.3
1500	3.5	3.7	6.5	1.5	PE221_0040 EZ301U	11	32	4.000	4/1	4000	8000	0.22	10.0	1.5	2.1
PE3 ($n_{1N} = 3000$ rpm, $M_{2acc,max} = 50$ Nm)															
120	22	23	3.6	1.1	PE322_0250 EZ301U	50	90	25.00	25/1	4000	8000	0.23	10.0	4.2	3.6
150	18	18	4.0	1.3	PE322_0200 EZ301U	50	90	20.00	20/1	4000	8000	0.25	10.0	4.0	3.6
188	14	14	4.5	1.7	PE322_0160 EZ301U	43	90	16.00	16/1	4000	8000	0.25	10.0	4.1	3.6
300	9.0	9.2	0.7	2.3	PE321_0100 EZ301U	27	90	10.00	10/1	4000	7000	0.20	8.0	3.7	3.0
300	15	16	1.2	1.3	PE321_0100 EZ302U	48	90	10.00	10/1	4000	7000	0.30	8.0	3.7	3.6
300	20	21	1.6	1.0	PE321_0100 EZ303U	48	90	10.00	10/1	4000	7000	0.41	8.0	3.7	4.1
429	6.3	6.5	1.1	3.3	PE321_0070 EZ301U	19	90	7.000	7/1	4000	7000	0.22	8.0	4.1	3.0
429	11	11	1.8	1.9	PE321_0070 EZ302U	34	90	7.000	7/1	4000	7000	0.32	8.0	4.1	3.6
429	14	15	2.4	1.5	PE321_0070 EZ303U	48	90	7.000	7/1	4000	7000	0.43	8.0	4.1	4.1
429	19	20	3.3	1.1	PE321_0070 EZ401U	50	90	7.000	7/1	4000	7000	0.96	8.0	4.1	5.5
600	4.5	4.6	1.7	4.4	PE321_0050 EZ301U	14	90	5.000	5/1	3700	7000	0.24	8.0	4.5	3.0
600	7.7	8.1	2.9	2.6	PE321_0050 EZ302U	24	90	5.000	5/1	3700	7000	0.34	8.0	4.5	3.6
600	10	11	3.7	2.0	PE321_0050 EZ303U	34	90	5.000	5/1	3700	7000	0.45	8.0	4.5	4.1
600	14	15	5.1	1.5	PE321_0050 EZ401U	41	90	5.000	5/1	3700	7000	0.98	8.0	4.5	5.5
750	6.2	6.5	3.9	3.1	PE321_0040 EZ302U	19	85	4.000	4/1	3700	7000	0.38	8.0	4.4	3.6
750	8.0	8.5	5.1	2.4	PE321_0040 EZ303U	27	85	4.000	4/1	3700	7000	0.49	8.0	4.4	4.1
750	11	12	6.9	1.8	PE321_0040 EZ401U	33	85	4.000	4/1	3700	7000	1.0	8.0	4.4	5.5
750	18	20	12	1.0	PE321_0040 EZ402U	46	85	4.000	4/1	3700	7000	1.7	8.0	4.4	6.6
1000	4.6	4.9	6.3	3.6	PE321_0030 EZ302U	15	64	3.000	3/1	3500	6000	0.47	8.0	3.5	3.6
1000	6.0	6.4	8.2	2.8	PE321_0030 EZ303U	20	64	3.000	3/1	3500	6000	0.58	8.0	3.5	4.1
1000	8.1	8.7	11	2.0	PE321_0030 EZ401U	25	64	3.000	3/1	3500	6000	1.1	8.0	3.5	5.5
1000	14	15	19	1.2	PE321_0030 EZ402U	40	64	3.000	3/1	3500	6000	1.8	8.0	3.5	6.6
PE3 ($n_{1N} = 6000$ rpm, $M_{2acc,max} = 50$ Nm)															
150	15	17	1.5	1.2	PE322_0400 EZ202U	44	88	40.00	40/1	4500	8000	0.14	10.0	3.9	3.5
171	13	15	1.6	1.4	PE322_0350 EZ202U	49	90	35.00	35/1	4000	8000	0.15	10.0	4.2	3.5
214	11	12	1.8	1.8	PE322_0280 EZ202U	39	88	28.00	28/1	4000	8000	0.15	10.0	4.0	3.5
214	16	18	2.8	1.2	PE322_0280 EZ203U	44	88	28.00	28/1	4000	8000	0.19	10.0	4.0	3.8
240	9.5	10	1.9	2.0	PE322_0250 EZ202U	35	90	25.00	25/1	4000	8000	0.17	10.0	4.2	3.5
240	14	16	2.9	1.3	PE322_0250 EZ203U	50	90	25.00	25/1	4000	8000	0.21	10.0	4.2	3.8
300	7.6	8.4	2.2	2.5	PE322_0200 EZ202U	28	90	20.00	20/1	4000	8000	0.19	10.0	4.0	3.5
300	12	13	3.3	1.6	PE322_0200 EZ203U	50	90	20.00	20/1	4000	8000	0.23	10.0	4.0	3.8
300	17	18	4.8	1.1	PE322_0200 EZ301U	50	90	20.00	20/1	4000	8000	0.25	10.0	4.0	3.6
375	6.1	6.7	2.4	3.1	PE322_0160 EZ202U	22	90	16.00	16/1	4000	8000	0.19	10.0	4.1	3.5
375	9.3	10	3.7	2.0	PE322_0160 EZ203U	41	90	16.00	16/1	4000	8000	0.23	10.0	4.1	3.8
375	14	14	5.4	1.4	PE322_0160 EZ301U	43	90	16.00	16/1	4000	8000	0.25	10.0	4.1	3.6
600	8.6	9.2	0.9	1.9	PE321_0100 EZ301U	27	90	10.00	10/1	4000	7000	0.20	8.0	3.7	3.0
600	15	16	1.4	1.1	PE321_0100 EZ302U	48	90	10.00	10/1	4000	7000	0.30	8.0	3.7	3.6

6.2 Selection tables 6 PE planetary geared motors

n_{2N} [rpm]	M_{2N} [Nm]	$M_{2,0}$ [Nm]	a_{th}	S	Type	M_{2acc} [Nm]	M_{2NOT} [Nm]	i	i_{exakt}	n_{1maxDB} [rpm]	n_{1maxZB} [rpm]	J_1 [kgcm ²]	$\Delta\varphi_2$ [arcmin]	C_2 [Nm/ arcmin]	m [kg]
PE3 ($n_{1N} = 6000$ rpm, $M_{2acc,max} = 50$ Nm)															
857	6.0	6.5	1.3	2.7	PE321_0070 EZ301U	19	90	7.000	7/1	4000	7000	0.22	8.0	4.1	3.0
857	10	11	2.2	1.6	PE321_0070 EZ302U	34	90	7.000	7/1	4000	7000	0.32	8.0	4.1	3.6
857	13	15	2.9	1.2	PE321_0070 EZ303U	48	90	7.000	7/1	4000	7000	0.43	8.0	4.1	4.1
857	16	19	3.4	1.0	PE321_0070 EZ401U	50	90	7.000	7/1	4000	7000	0.96	8.0	4.1	5.5
1200	4.3	4.6	2.0	3.6	PE321_0050 EZ301U	14	90	5.000	5/1	3700	7000	0.24	8.0	4.5	3.0
1200	7.3	8.1	3.4	2.2	PE321_0050 EZ302U	24	90	5.000	5/1	3700	7000	0.34	8.0	4.5	3.6
1200	9.5	11	4.5	1.7	PE321_0050 EZ303U	34	90	5.000	5/1	3700	7000	0.45	8.0	4.5	4.1
1200	11	14	5.2	1.4	PE321_0050 EZ401U	41	90	5.000	5/1	3700	7000	0.98	8.0	4.5	5.5
1500	3.5	3.7	2.8	4.4	PE321_0040 EZ301U	11	85	4.000	4/1	3700	7000	0.28	8.0	4.4	3.0
1500	5.8	6.5	4.7	2.6	PE321_0040 EZ302U	19	85	4.000	4/1	3700	7000	0.38	8.0	4.4	3.6
1500	7.6	8.7	6.1	2.0	PE321_0040 EZ303U	27	85	4.000	4/1	3700	7000	0.49	8.0	4.4	4.1
1500	8.9	11	7.1	1.7	PE321_0040 EZ401U	33	85	4.000	4/1	3700	7000	1.0	8.0	4.4	5.5
1500	14	19	11	1.1	PE321_0040 EZ402U	46	85	4.000	4/1	3700	7000	1.7	8.0	4.4	6.6
2000	4.4	4.9	7.5	3.0	PE321_0030 EZ302U	15	64	3.000	3/1	3500	6000	0.47	8.0	3.5	3.6
2000	5.7	6.5	9.8	2.3	PE321_0030 EZ303U	20	64	3.000	3/1	3500	6000	0.58	8.0	3.5	4.1
2000	6.7	8.1	12	2.0	PE321_0030 EZ401U	25	64	3.000	3/1	3500	6000	1.1	8.0	3.5	5.5
2000	10	14	18	1.3	PE321_0030 EZ402U	40	64	3.000	3/1	3500	6000	1.8	8.0	3.5	6.6
PE4 ($n_{1N} = 3000$ rpm, $M_{2acc,max} = 110$ Nm)															
60	44	45	1.3	1.2	PE422_0500 EZ301U	102	200	50.00	50/1	4000	7000	0.21	10.0	13	5.5
75	35	36	1.5	1.5	PE422_0400 EZ301U	95	190	40.00	40/1	4000	7000	0.21	10.0	13	5.5
86	31	32	1.6	1.7	PE422_0350 EZ301U	93	200	35.00	35/1	4000	7000	0.23	10.0	13	5.5
107	25	25	1.7	2.1	PE422_0280 EZ301U	74	190	28.00	28/1	4000	7000	0.23	10.0	13	5.5
107	42	45	3.0	1.2	PE422_0280 EZ302U	95	190	28.00	28/1	4000	7000	0.33	10.0	13	6.1
120	22	23	1.8	2.3	PE422_0250 EZ301U	67	200	25.00	25/1	3700	7000	0.27	10.0	13	5.5
120	38	40	3.2	1.4	PE422_0250 EZ302U	103	200	25.00	25/1	3700	7000	0.37	10.0	13	6.1
120	49	52	4.1	1.0	PE422_0250 EZ303U	103	200	25.00	25/1	3700	7000	0.48	10.0	13	6.6
150	18	18	2.1	2.9	PE422_0200 EZ301U	53	200	20.00	20/1	3700	7000	0.32	10.0	13	5.5
150	30	32	3.5	1.7	PE422_0200 EZ302U	95	200	20.00	20/1	3700	7000	0.42	10.0	13	6.1
150	39	42	4.6	1.3	PE422_0200 EZ303U	104	200	20.00	20/1	3700	7000	0.53	10.0	13	6.6
188	14	14	2.3	3.7	PE422_0160 EZ301U	43	190	16.00	16/1	3700	7000	0.32	10.0	13	5.5
188	24	26	4.0	2.1	PE422_0160 EZ302U	76	190	16.00	16/1	3700	7000	0.42	10.0	13	6.1
188	31	33	5.1	1.6	PE422_0160 EZ303U	95	190	16.00	16/1	3700	7000	0.53	10.0	13	6.6
188	43	46	7.0	1.2	PE422_0160 EZ401U	95	190	16.00	16/1	3700	7000	1.1	10.0	13	8.0
300	27	29	1.1	1.8	PE421_0100 EZ401U	82	184	10.00	10/1	3600	6000	0.97	8.0	10	6.8
300	42	46	1.7	1.1	PE421_0100 EZ501U	92	184	10.00	10/1	3600	6000	2.9	8.0	10	7.8
300	46	50	1.9	1.0	PE421_0100 EZ402U	92	184	10.00	10/1	3600	6000	1.7	8.0	10	7.9
429	19	20	1.7	2.5	PE421_0070 EZ401U	58	200	7.000	7/1	3600	6000	1.0	8.0	13	6.8
429	29	32	2.6	1.6	PE421_0070 EZ501U	100	200	7.000	7/1	3600	6000	3.0	8.0	13	7.8
429	32	35	2.9	1.5	PE421_0070 EZ402U	100	200	7.000	7/1	3600	6000	1.7	8.0	13	7.9
429	47	58	4.2	1.0	PE421_0070 EZ404U	100	200	7.000	7/1	3600	6000	3.1	8.0	13	10
600	14	15	2.8	3.3	PE421_0050 EZ401U	41	200	5.000	5/1	3400	6000	1.1	8.0	14	6.8
600	21	23	4.2	2.1	PE421_0050 EZ501U	78	200	5.000	5/1	3400	6000	3.1	8.0	14	7.8
600	23	25	4.6	2.0	PE421_0050 EZ402U	78	200	5.000	5/1	3400	6000	1.8	8.0	14	7.9
600	33	42	6.8	1.3	PE421_0050 EZ404U	109	200	5.000	5/1	3400	6000	3.2	8.0	14	10
600	36	39	7.3	1.2	PE421_0050 EZ502U	109	200	5.000	5/1	3400	6000	5.4	8.0	14	9.3
750	11	12	3.7	4.0	PE421_0040 EZ401U	33	200	4.000	4/1	3400	6000	1.2	8.0	14	6.8
750	17	18	5.6	2.6	PE421_0040 EZ501U	62	200	4.000	4/1	3400	6000	3.2	8.0	14	7.8
750	18	20	6.2	2.4	PE421_0040 EZ402U	62	200	4.000	4/1	3400	6000	1.9	8.0	14	7.9
750	27	33	9.0	1.6	PE421_0040 EZ404U	100	200	4.000	4/1	3400	6000	3.3	8.0	14	10
750	29	31	9.7	1.5	PE421_0040 EZ502U	100	200	4.000	4/1	3400	6000	5.5	8.0	14	9.3
750	38	43	13	1.2	PE421_0040 EZ503U	100	200	4.000	4/1	3400	6000	7.9	8.0	14	11
1000	8.1	8.7	6.3	4.4	PE421_0030 EZ401U	25	180	3.000	3/1	3000	5500	1.5	8.0	12	6.8
1000	13	14	9.7	2.9	PE421_0030 EZ501U	47	180	3.000	3/1	3000	5500	3.5	8.0	12	7.8
1000	14	15	11	2.6	PE421_0030 EZ402U	47	180	3.000	3/1	3000	5500	2.2	8.0	12	7.9
1000	20	25	16	1.8	PE421_0030 EZ404U	84	180	3.000	3/1	3000	5500	3.6	8.0	12	10
1000	22	23	17	1.7	PE421_0030 EZ502U	90	180	3.000	3/1	3000	5500	5.8	8.0	12	9.3
1000	28	32	22	1.3	PE421_0030 EZ503U	90	180	3.000	3/1	3000	5500	8.2	8.0	12	11
PE4 ($n_{1N} = 4500$ rpm, $M_{2acc,max} = 100$ Nm)															
1125	37	59	14	1.0	PE421_0040 EZ505U	100	200	4.000	4/1	3400	6000	12	8.0	14	14
1500	28	45	25	1.1	PE421_0030 EZ505U	90	180	3.000	3/1	3000	5500	13	8.0	12	14
PE4 ($n_{1N} = 6000$ rpm, $M_{2acc,max} = 110$ Nm)															
150	34	36	1.8	1.2	PE422_0400 EZ301U	95	190	40.00	40/1	4000	7000	0.21	10.0	13	5.5
171	30	32	1.9	1.4	PE422_0350 EZ301U	93	200	35.00	35/1	4000	7000	0.23	10.0	13	5.5
214	24	25	2.1	1.7	PE422_0280 EZ301U	74	190	28.00	28/1	4000	7000	0.23	10.0	13	5.5
214	40	45	3.6	1.0	PE422_0280 EZ302U	95	190	28.00	28/1	4000	7000	0.33	10.0	13	6.1

n_{2N} [rpm]	M_{2N} [Nm]	$M_{2,0}$ [Nm]	a_{th}	S	Type	M_{2acc} [Nm]	M_{2NOT} [Nm]	i	i_{exakt}	n_{1maxDB} [rpm]	n_{1maxZB} [rpm]	J_1 [kgcm ²]	$\Delta\varphi_2$ [arcmin]	C_2 [Nm/ arcmin]	m [kg]
PE4 ($n_{1N} = 6000 \text{ rpm}$, $M_{2acc,max} = 110 \text{ Nm}$)															
240	21	23	2.2	1.9	PE422_0250 EZ301U	67	200	25.00	25/1	3700	7000	0.27	10.0	13	5.5
240	36	40	3.8	1.1	PE422_0250 EZ302U	103	200	25.00	25/1	3700	7000	0.37	10.0	13	6.1
300	17	18	2.5	2.4	PE422_0200 EZ301U	53	200	20.00	20/1	3700	7000	0.32	10.0	13	5.5
300	29	32	4.2	1.4	PE422_0200 EZ302U	95	200	20.00	20/1	3700	7000	0.42	10.0	13	6.1
300	37	43	5.5	1.1	PE422_0200 EZ303U	104	200	20.00	20/1	3700	7000	0.53	10.0	13	6.6
375	14	14	2.8	3.0	PE422_0160 EZ301U	43	190	16.00	16/1	3700	7000	0.32	10.0	13	5.5
375	23	26	4.7	1.8	PE422_0160 EZ302U	76	190	16.00	16/1	3700	7000	0.42	10.0	13	6.1
375	30	34	6.1	1.4	PE422_0160 EZ303U	95	190	16.00	16/1	3700	7000	0.53	10.0	13	6.6
375	35	43	7.2	1.2	PE422_0160 EZ401U	95	190	16.00	16/1	3700	7000	1.1	10.0	13	8.0
600	22	27	1.2	1.7	PE421_0100 EZ401U	82	184	10.00	10/1	3600	6000	0.97	8.0	10	6.8
600	33	43	1.7	1.1	PE421_0100 EZ501U	92	184	10.00	10/1	3600	6000	2.9	8.0	10	7.8
600	34	48	1.8	1.1	PE421_0100 EZ402U	92	184	10.00	10/1	3600	6000	1.7	8.0	10	7.9
857	16	19	1.8	2.4	PE421_0070 EZ401U	58	200	7.000	7/1	3600	6000	1.0	8.0	13	6.8
857	23	30	2.6	1.6	PE421_0070 EZ501U	100	200	7.000	7/1	3600	6000	3.0	8.0	13	7.8
857	24	33	2.7	1.6	PE421_0070 EZ402U	100	200	7.000	7/1	3600	6000	1.7	8.0	13	7.9
857	35	53	4.0	1.1	PE421_0070 EZ502U	100	200	7.000	7/1	3600	6000	5.3	8.0	13	9.3
1200	11	14	2.9	3.2	PE421_0050 EZ401U	41	200	5.000	5/1	3400	6000	1.1	8.0	14	6.8
1200	16	21	4.2	2.1	PE421_0050 EZ501U	78	200	5.000	5/1	3400	6000	3.1	8.0	14	7.8
1200	17	24	4.3	2.1	PE421_0050 EZ402U	78	200	5.000	5/1	3400	6000	1.8	8.0	14	7.9
1200	25	38	6.5	1.4	PE421_0050 EZ502U	109	200	5.000	5/1	3400	6000	5.4	8.0	14	9.3
1200	28	41	7.2	1.3	PE421_0050 EZ404U	109	200	5.000	5/1	3400	6000	3.2	8.0	14	10
1200	30	51	7.7	1.2	PE421_0050 EZ503U	109	200	5.000	5/1	3400	6000	7.8	8.0	14	11
1500	8.9	11	3.8	3.9	PE421_0040 EZ401U	33	200	4.000	4/1	3400	6000	1.2	8.0	14	6.8
1500	13	17	5.6	2.6	PE421_0040 EZ501U	62	200	4.000	4/1	3400	6000	3.2	8.0	14	7.8
1500	14	19	5.8	2.6	PE421_0040 EZ402U	62	200	4.000	4/1	3400	6000	1.9	8.0	14	7.9
1500	20	30	8.6	1.7	PE421_0040 EZ502U	100	200	4.000	4/1	3400	6000	5.5	8.0	14	9.3
1500	23	33	9.6	1.5	PE421_0040 EZ404U	100	200	4.000	4/1	3400	6000	3.3	8.0	14	10
1500	24	41	10	1.4	PE421_0040 EZ503U	100	200	4.000	4/1	3400	6000	7.9	8.0	14	11
PE5 ($n_{1N} = 3000 \text{ rpm}$, $M_{2acc,max} = 250 \text{ Nm}$)															
75	106	114	2.0	1.2	PE522_0400 EZ401U	240	480	40.00	40/1	3600	6000	0.99	10.0	33	12
86	93	100	2.1	1.4	PE522_0350 EZ401U	250	500	35.00	35/1	3600	6000	1.0	10.0	33	12
107	74	80	2.4	1.7	PE522_0280 EZ401U	226	480	28.00	28/1	3600	6000	1.0	10.0	33	12
107	114	125	3.6	1.1	PE522_0280 EZ501U	240	480	28.00	28/1	3600	6000	3.0	10.0	33	13
107	125	138	4.0	1.0	PE522_0280 EZ402U	240	480	28.00	28/1	3600	6000	1.7	10.0	33	13
120	67	71	2.5	1.9	PE522_0250 EZ401U	202	500	25.00	25/1	3400	6000	1.1	10.0	33	12
120	102	112	3.9	1.2	PE522_0250 EZ501U	250	500	25.00	25/1	3400	6000	3.1	10.0	33	13
120	112	124	4.2	1.1	PE522_0250 EZ402U	250	500	25.00	25/1	3400	6000	1.8	10.0	33	13
150	53	57	2.8	2.4	PE522_0200 EZ401U	162	500	20.00	20/1	3400	6000	1.3	10.0	33	12
150	82	89	4.3	1.6	PE522_0200 EZ501U	250	500	20.00	20/1	3400	6000	3.2	10.0	33	13
150	89	99	4.7	1.4	PE522_0200 EZ402U	250	500	20.00	20/1	3400	6000	2.0	10.0	33	13
188	43	46	3.1	3.0	PE522_0160 EZ401U	129	480	16.00	16/1	3400	6000	1.3	10.0	33	12
188	65	71	4.8	1.9	PE522_0160 EZ501U	240	480	16.00	16/1	3400	6000	3.3	10.0	33	13
188	71	79	5.3	1.8	PE522_0160 EZ402U	240	480	16.00	16/1	3400	6000	2.0	10.0	33	13
188	105	131	7.7	1.2	PE522_0160 EZ404U	240	480	16.00	16/1	3400	6000	3.3	10.0	33	15
188	112	122	8.3	1.1	PE522_0160 EZ502U	240	480	16.00	16/1	3400	6000	5.6	10.0	33	15
300	42	46	2.2	2.5	PE521_0100 EZ501U	155	440	10.00	10/1	3000	5000	3.1	8.0	27	11
300	72	78	3.7	1.4	PE521_0100 EZ502U	220	440	10.00	10/1	3000	5000	5.4	8.0	27	12
300	72	81	3.7	1.4	PE521_0100 EZ701U	194	440	10.00	10/1	3000	5000	8.7	8.0	27	14
300	94	108	4.9	1.1	PE521_0100 EZ503U	220	440	10.00	10/1	3000	5000	7.7	8.0	27	14
429	29	32	3.3	3.5	PE521_0070 EZ501U	109	500	7.000	7/1	2800	5000	3.2	8.0	32	11
429	50	54	5.7	2.1	PE521_0070 EZ502U	210	500	7.000	7/1	2800	5000	5.5	8.0	32	12
429	50	56	5.7	2.1	PE521_0070 EZ701U	136	500	7.000	7/1	2800	5000	8.8	8.0	32	14
429	66	75	7.5	1.6	PE521_0070 EZ503U	250	500	7.000	7/1	2800	5000	7.9	8.0	32	14
429	81	98	9.3	1.3	PE521_0070 EZ702U	250	500	7.000	7/1	2800	5000	14	8.0	32	17
429	92	109	10	1.1	PE521_0070 EZ505U	250	500	7.000	7/1	2800	5000	12	8.0	32	17
600	21	23	5.0	4.9	PE521_0050 EZ501U	78	432	5.000	5/1	2600	5000	3.5	8.0	36	11
600	36	39	8.6	2.9	PE521_0050 EZ502U	150	432	5.000	5/1	2600	5000	5.8	8.0	36	12
600	36	40	8.6	2.9	PE521_0050 EZ701U	97	500	5.000	5/1	2600	5000	9.1	8.0	36	14
600	47	54	11	2.2	PE521_0050 EZ503U	209	432	5.000	5/1	2600	5000	8.2	8.0	36	14
600	58	70	14	1.8	PE521_0050 EZ702U	199	500	5.000	5/1	2600	5000	14	8.0	36	17
600	65	78	16	1.6	PE521_0050 EZ505U	250	432	5.000	5/1	2600	5000	13	8.0	36	17
600	80	101	19	1.3	PE521_0050 EZ703U	250	500	5.000	5/1	2600	5000	22	8.0	36	19
750	29	31	11	3.6	PE521_0040 EZ502U	120	345	4.000	4/1	2600	5000	6.2	8.0	37	12
750	29	32	11	3.6	PE521_0040 EZ701U	78	500	4.000	4/1	2600	5000	9.5	8.0	37	14
750	38	43	15	2.7	PE521_0040 EZ503U	167	345	4.000	4/1	2600	5000	8.6	8.0	37	14

6.2 Selection tables 6 PE planetary geared motors

n_{2N} [rpm]	M_{2N} [Nm]	$M_{2,0}$ [Nm]	a_{th}	S	Type	M_{2acc} [Nm]	M_{2NOT} [Nm]	i	i_{exakt}	n_{1maxDB} [rpm]	n_{1maxZB} [rpm]	J_1 [kgcm ²]	$\Delta\phi_2$ [arcmin]	C_2 [Nm/ arcmin]	m [kg]
PE5 ($n_{1N} = 3000$ rpm, $M_{2acc,max} = 250$ Nm)															
750	47	56	18	2.2	PE521_0040 EZ702U	159	500	4.000	4/1	2600	5000	15	8.0	37	17
750	52	62	20	2.0	PE521_0040 EZ505U	250	345	4.000	4/1	2600	5000	13	8.0	37	17
750	64	81	25	1.6	PE521_0040 EZ703U	250	500	4.000	4/1	2600	5000	23	8.0	37	19
750	83	117	32	1.2	PE521_0040 EZ705U	250	500	4.000	4/1	2600	5000	35	8.0	37	24
1000	22	23	23	3.3	PE521_0030 EZ502U	90	259	3.000	3/1	2500	4500	7.1	8.0	33	12
1000	22	24	23	3.3	PE521_0030 EZ701U	58	360	3.000	3/1	2500	4500	10	8.0	33	14
1000	28	32	30	2.5	PE521_0030 EZ503U	125	259	3.000	3/1	2500	4500	9.5	8.0	33	14
1000	35	42	37	2.0	PE521_0030 EZ702U	119	360	3.000	3/1	2500	4500	16	8.0	33	17
1000	39	47	42	1.8	PE521_0030 EZ505U	180	259	3.000	3/1	2500	4500	14	8.0	33	17
1000	48	61	51	1.5	PE521_0030 EZ703U	180	360	3.000	3/1	2500	4500	24	8.0	33	19
1000	62	88	66	1.2	PE521_0030 EZ705U	180	360	3.000	3/1	2500	4500	36	8.0	33	24
PE5 ($n_{1N} = 4500$ rpm, $M_{2acc,max} = 250$ Nm)															
643	65	104	8.4	1.4	PE521_0070 EZ505U	250	500	7.000	7/1	2800	5000	12	8.0	32	17
643	82	136	11	1.1	PE521_0070 EZ703U	250	500	7.000	7/1	2800	5000	22	8.0	32	19
900	46	74	13	2.0	PE521_0050 EZ505U	250	432	5.000	5/1	2600	5000	13	8.0	36	17
900	59	97	16	1.5	PE521_0050 EZ703U	250	500	5.000	5/1	2600	5000	22	8.0	36	19
900	80	146	22	1.1	PE521_0050 EZ705U	250	500	5.000	5/1	2600	5000	35	8.0	36	24
1125	37	59	16	2.4	PE521_0040 EZ505U	250	345	4.000	4/1	2600	5000	13	8.0	37	17
1125	47	78	21	1.9	PE521_0040 EZ703U	250	500	4.000	4/1	2600	5000	23	8.0	37	19
1125	64	116	28	1.4	PE521_0040 EZ705U	250	500	4.000	4/1	2600	5000	35	8.0	37	24
1500	28	45	34	2.3	PE521_0030 EZ505U	180	259	3.000	3/1	2500	4500	14	8.0	33	17
1500	35	58	43	1.8	PE521_0030 EZ703U	180	360	3.000	3/1	2500	4500	24	8.0	33	19
1500	48	87	58	1.3	PE521_0030 EZ705U	180	360	3.000	3/1	2500	4500	36	8.0	33	24
PE5 ($n_{1N} = 6000$ rpm, $M_{2acc,max} = 250$ Nm)															
150	87	106	2.1	1.2	PE522_0400 EZ401U	240	480	40.00	40/1	3600	6000	0.99	10.0	33	12
171	76	93	2.2	1.3	PE522_0350 EZ401U	250	500	35.00	35/1	3600	6000	1.0	10.0	33	12
214	61	74	2.5	1.6	PE522_0280 EZ401U	226	480	28.00	28/1	3600	6000	1.0	10.0	33	12
214	90	117	3.6	1.1	PE522_0280 EZ501U	240	480	28.00	28/1	3600	6000	3.0	10.0	33	13
214	93	130	3.7	1.1	PE522_0280 EZ402U	240	480	28.00	28/1	3600	6000	1.7	10.0	33	13
240	55	67	2.6	1.8	PE522_0250 EZ401U	202	500	25.00	25/1	3400	6000	1.1	10.0	33	12
240	81	105	3.8	1.2	PE522_0250 EZ501U	250	500	25.00	25/1	3400	6000	3.1	10.0	33	13
240	83	116	4.0	1.2	PE522_0250 EZ402U	250	500	25.00	25/1	3400	6000	1.8	10.0	33	13
300	44	53	2.9	2.3	PE522_0200 EZ401U	162	500	20.00	20/1	3400	6000	1.3	10.0	33	12
300	65	84	4.3	1.6	PE522_0200 EZ501U	250	500	20.00	20/1	3400	6000	3.2	10.0	33	13
300	67	93	4.4	1.5	PE522_0200 EZ402U	250	500	20.00	20/1	3400	6000	2.0	10.0	33	13
300	99	148	6.6	1.0	PE522_0200 EZ502U	250	500	20.00	20/1	3400	6000	5.5	10.0	33	15
375	35	43	3.3	2.9	PE522_0160 EZ401U	129	480	16.00	16/1	3400	6000	1.3	10.0	33	12
375	52	67	4.8	2.0	PE522_0160 EZ501U	240	480	16.00	16/1	3400	6000	3.3	10.0	33	13
375	53	74	4.9	1.9	PE522_0160 EZ402U	240	480	16.00	16/1	3400	6000	2.0	10.0	33	13
375	79	119	7.4	1.3	PE522_0160 EZ502U	240	480	16.00	16/1	3400	6000	5.6	10.0	33	15
375	88	128	8.2	1.1	PE522_0160 EZ404U	240	480	16.00	16/1	3400	6000	3.3	10.0	33	15
375	94	161	8.8	1.1	PE522_0160 EZ503U	240	480	16.00	16/1	3400	6000	7.9	10.0	33	16