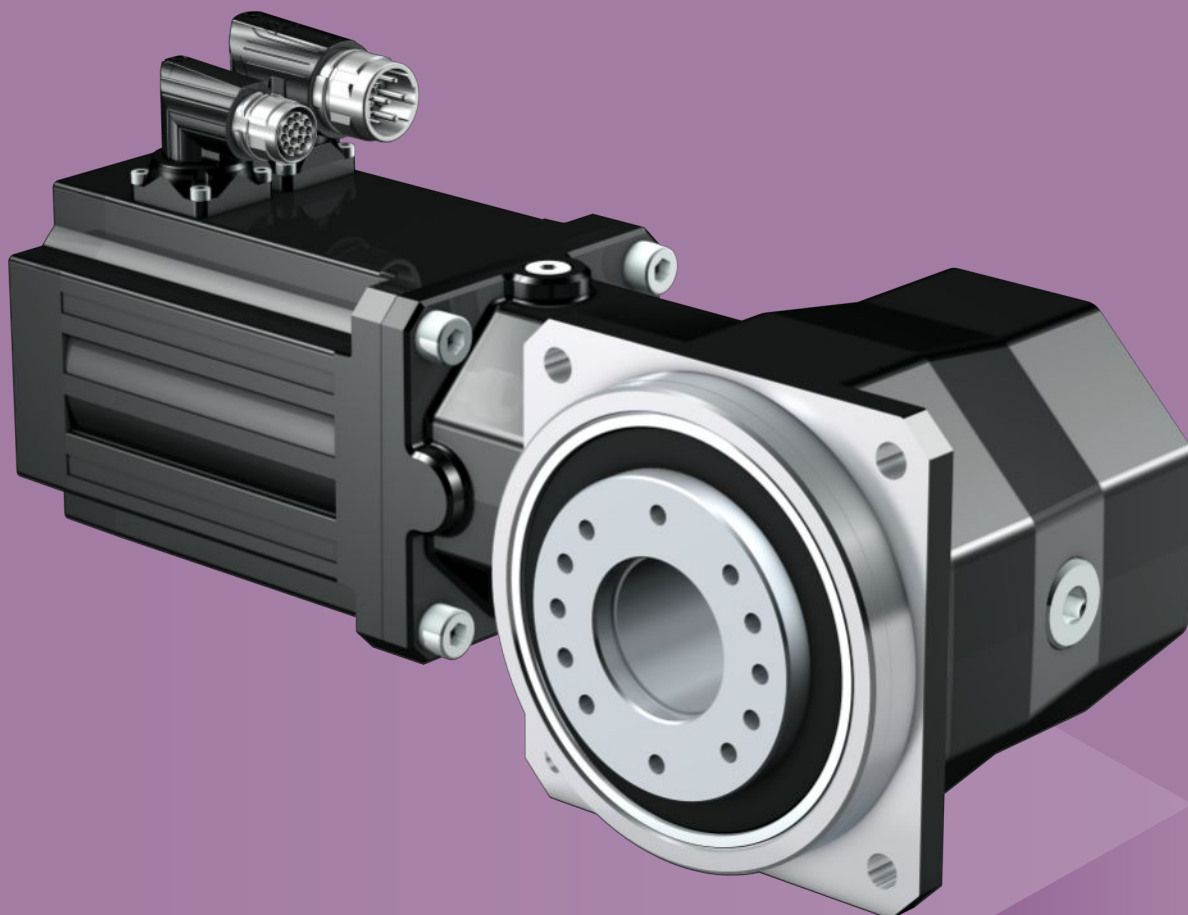




9

Right-angle servo geared motors

KS

9.1 Overview

Precision right-angle servo geared motors

Features

Power density	★★★★☆
Backlash	★★★★☆
Price category	€€€
Shaft load	★★★★★
Smooth operation	★★★★☆
Torsional stiffness	★★★★☆
Mass moment of inertia	★★★★★
Helical gearing	✓
Maintenance-free	✓
FKM seal ring at the input	✓
Stiff output bearings due to pretension	✓
Compact and highly dynamic due to direct motor attachment	✓

Key ★☆☆☆☆ good | ★★★★★ excellent

€ Economy | €€€€€ Premium

Technical data

i	6 – 100
M_{2acc}	27 – 400 Nm
$\Delta\phi_2$	4 – 6 arcmin
η_{get}	93 – 95 %

9.2 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]
KS4 ($n_{1N} = 3000 \text{ rpm}$, $M_{2acc,max} = 90 \text{ Nm}$)															
60	43	44	0.2	1.2	KS403_0500 EZ301U	90	140	50.00	50/1	4000	6000	0.23	6.0	8.5	9.0
75	35	35	0.3	1.5	KS403_0400 EZ301U	90	140	40.00	40/1	3500	6000	0.26	6.0	8.5	9.0
94	28	28	0.4	1.9	KS403_0320 EZ301U	83	140	32.00	32/1	3500	6000	0.27	6.0	8.5	9.0
94	47	50	0.6	1.1	KS403_0320 EZ302U	90	140	32.00	32/1	3500	6000	0.37	6.0	8.5	9.6
125	21	21	0.5	2.5	KS403_0240 EZ301U	62	140	24.00	24/1	3500	6000	0.29	6.0	8.5	9.0
125	35	37	0.9	1.5	KS403_0240 EZ302U	90	140	24.00	24/1	3500	6000	0.39	6.0	8.5	9.6
125	46	49	1.2	1.1	KS403_0240 EZ303U	90	140	24.00	24/1	3500	6000	0.50	6.0	8.5	10
150	18	18	0.7	2.9	KS402_0200 EZ301U	53	140	20.00	20/1	4000	6000	0.24	6.0	8.5	8.5
150	30	32	1.2	1.7	KS402_0200 EZ302U	90	140	20.00	20/1	4000	6000	0.34	6.0	8.5	9.1
150	39	42	1.5	1.3	KS402_0200 EZ303U	90	140	20.00	20/1	4000	6000	0.45	6.0	8.5	9.6
214	12	13	1.0	4.2	KS402_0140 EZ301U	37	140	14.00	14/1	4000	6000	0.28	6.0	8.5	8.5
214	21	22	1.8	2.4	KS402_0140 EZ302U	67	140	14.00	14/1	4000	6000	0.38	6.0	8.5	9.1
214	28	29	2.3	1.9	KS402_0140 EZ303U	90	140	14.00	14/1	4000	6000	0.49	6.0	8.5	9.6
214	37	40	3.1	1.4	KS402_0140 EZ401U	90	140	14.00	14/1	4000	6000	1.0	6.0	8.5	11
300	15	16	2.6	3.4	KS402_0100 EZ302U	48	140	10.00	10/1	3800	6000	0.49	6.0	8.5	9.1
300	20	21	3.4	2.6	KS402_0100 EZ303U	67	140	10.00	10/1	3800	6000	0.60	6.0	8.5	9.6
300	27	29	4.7	1.9	KS402_0100 EZ401U	81	140	10.00	10/1	3800	6000	1.1	6.0	8.5	11
300	41	45	7.2	1.3	KS402_0100 EZ501U	90	140	10.00	10/1	3800	6000	3.1	6.0	8.5	12
300	45	49	7.8	1.2	KS402_0100 EZ402U	90	140	10.00	10/1	3800	6000	1.8	6.0	8.5	12
375	12	13	3.5	4.3	KS402_0080 EZ302U	38	140	8.000	8/1	3500	6000	0.62	6.0	8.5	9.1
375	16	17	4.5	3.3	KS402_0080 EZ303U	53	140	8.000	8/1	3500	6000	0.73	6.0	8.5	9.6
375	21	23	6.1	2.4	KS402_0080 EZ401U	65	140	8.000	8/1	3500	6000	1.3	6.0	8.5	11
375	33	36	9.3	1.6	KS402_0080 EZ501U	90	140	8.000	8/1	3500	6000	3.2	6.0	8.5	12
375	36	40	10	1.4	KS402_0080 EZ402U	90	140	8.000	8/1	3500	6000	2.0	6.0	8.5	12
500	12	12	6.4	4.4	KS402_0060 EZ303U	40	140	6.000	6/1	3000	6000	1.1	6.0	8.5	9.6
500	16	17	8.6	3.2	KS402_0060 EZ401U	48	140	6.000	6/1	3000	6000	1.6	6.0	8.5	11
500	25	27	13	2.1	KS402_0060 EZ501U	90	140	6.000	6/1	3000	6000	3.6	6.0	8.5	12
500	27	30	14	1.9	KS402_0060 EZ402U	90	140	6.000	6/1	3000	6000	2.3	6.0	8.5	12
500	39	49	21	1.3	KS402_0060 EZ404U	90	140	6.000	6/1	3000	6000	3.7	6.0	8.5	14
500	42	46	23	1.2	KS402_0060 EZ502U	90	140	6.000	6/1	3000	6000	5.9	6.0	8.5	14
KS4 ($n_{1N} = 6000 \text{ rpm}$, $M_{2acc,max} = 90 \text{ Nm}$)															
60	37	41	0.1	1.1	KS403_1000 EZ202U	90	140	100.0	100/1	4500	6000	0.14	6.0	8.5	8.9
75	30	33	0.1	1.4	KS403_0800 EZ202U	90	140	80.00	80/1	4500	6000	0.14	6.0	8.5	8.9
86	26	29	0.1	1.6	KS403_0700 EZ202U	90	140	70.00	70/1	4500	6000	0.15	6.0	8.5	8.9
86	40	45	0.1	1.0	KS403_0700 EZ203U	90	140	70.00	70/1	4500	6000	0.19	6.0	8.5	9.2
120	19	20	0.1	2.2	KS403_0500 EZ202U	69	140	50.00	50/1	4000	6000	0.17	6.0	8.5	8.9
120	28	32	0.2	1.4	KS403_0500 EZ203U	90	140	50.00	50/1	4000	6000	0.21	6.0	8.5	9.2
150	15	16	0.2	2.8	KS403_0400 EZ202U	55	140	40.00	40/1	3500	6000	0.20	6.0	8.5	8.9
150	23	26	0.2	1.8	KS403_0400 EZ203U	90	140	40.00	40/1	3500	6000	0.24	6.0	8.5	9.2
150	33	35	0.3	1.2	KS403_0400 EZ301U	90	140	40.00	40/1	3500	6000	0.26	6.0	8.5	9.0
188	12	13	0.2	3.4	KS403_0320 EZ202U	44	140	32.00	32/1	3500	6000	0.21	6.0	8.5	8.9
188	18	21	0.3	2.3	KS403_0320 EZ203U	80	140	32.00	32/1	3500	6000	0.25	6.0	8.5	9.2
188	26	28	0.5	1.5	KS403_0320 EZ301U	83	140	32.00	32/1	3500	6000	0.27	6.0	8.5	9.0
250	8.9	9.8	0.3	4.6	KS403_0240 EZ202U	33	140	24.00	24/1	3500	6000	0.23	6.0	8.5	8.9
250	14	15	0.4	3.0	KS403_0240 EZ203U	60	140	24.00	24/1	3500	6000	0.27	6.0	8.5	9.2
250	20	21	0.6	2.1	KS403_0240 EZ301U	62	140	24.00	24/1	3500	6000	0.29	6.0	8.5	9.0
250	33	37	1.1	1.2	KS403_0240 EZ302U	90	140	24.00	24/1	3500	6000	0.39	6.0	8.5	9.6
300	17	18	0.8	2.4	KS402_0200 EZ301U	53	140	20.00	20/1	4000	6000	0.24	6.0	8.5	8.5
300	29	32	1.4	1.4	KS402_0200 EZ302U	90	140	20.00	20/1	4000	6000	0.34	6.0	8.5	9.1
300	37	43	1.8	1.1	KS402_0200 EZ303U	90	140	20.00	20/1	4000	6000	0.45	6.0	8.5	9.6
429	12	13	1.2	3.5	KS402_0140 EZ301U	37	140	14.00	14/1	4000	6000	0.28	6.0	8.5	8.5
429	20	22	2.1	2.1	KS402_0140 EZ302U	67	140	14.00	14/1	4000	6000	0.38	6.0	8.5	9.1
429	26	30	2.7	1.6	KS402_0140 EZ303U	90	140	14.00	14/1	4000	6000	0.49	6.0	8.5	9.6

9.2 Selection tables 9 KS right-angle servo 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]
KS4 ($n_{1N} = 6000 \text{ rpm}$, $M_{2acc,max} = 90 \text{ Nm}$)															
429	31	37	3.2	1.3	KS402_0140 EZ401U	90	140	14.00	14/1	4000	6000	1.0	6.0	8.5	11
600	8.5	9.0	1.9	4.8	KS402_0100 EZ301U	27	140	10.00	10/1	3800	6000	0.39	6.0	8.5	8.5
600	14	16	3.1	2.9	KS402_0100 EZ302U	48	140	10.00	10/1	3800	6000	0.49	6.0	8.5	9.1
600	19	21	4.1	2.2	KS402_0100 EZ303U	67	140	10.00	10/1	3800	6000	0.60	6.0	8.5	9.6
600	22	27	4.8	1.9	KS402_0100 EZ401U	81	140	10.00	10/1	3800	6000	1.1	6.0	8.5	11
600	32	42	7.1	1.3	KS402_0100 EZ501U	90	140	10.00	10/1	3800	6000	3.1	6.0	8.5	12
600	33	47	7.3	1.2	KS402_0100 EZ402U	90	140	10.00	10/1	3800	6000	1.8	6.0	8.5	12
750	11	13	4.1	3.6	KS402_0080 EZ302U	38	140	8.000	8/1	3500	6000	0.62	6.0	8.5	9.1
750	15	17	5.4	2.7	KS402_0080 EZ303U	53	140	8.000	8/1	3500	6000	0.73	6.0	8.5	9.6
750	17	21	6.3	2.3	KS402_0080 EZ401U	65	140	8.000	8/1	3500	6000	1.3	6.0	8.5	11
750	26	33	9.3	1.6	KS402_0080 EZ501U	90	140	8.000	8/1	3500	6000	3.2	6.0	8.5	12
750	27	37	9.6	1.5	KS402_0080 EZ402U	90	140	8.000	8/1	3500	6000	2.0	6.0	8.5	12
750	40	59	14	1.0	KS402_0080 EZ502U	90	140	8.000	8/1	3500	6000	5.5	6.0	8.5	14
1000	8.6	9.6	5.8	4.8	KS402_0060 EZ302U	29	140	6.000	6/1	3000	6000	0.97	6.0	8.5	9.1
1000	11	13	7.6	3.7	KS402_0060 EZ303U	40	140	6.000	6/1	3000	6000	1.1	6.0	8.5	9.6
1000	13	16	8.9	3.1	KS402_0060 EZ401U	48	140	6.000	6/1	3000	6000	1.6	6.0	8.5	11
1000	19	25	13	2.1	KS402_0060 EZ501U	90	140	6.000	6/1	3000	6000	3.6	6.0	8.5	12
1000	20	28	14	2.1	KS402_0060 EZ402U	90	140	6.000	6/1	3000	6000	2.3	6.0	8.5	12
1000	30	44	20	1.4	KS402_0060 EZ502U	90	140	6.000	6/1	3000	6000	5.9	6.0	8.5	14
1000	33	48	22	1.2	KS402_0060 EZ404U	90	140	6.000	6/1	3000	6000	3.7	6.0	8.5	14
1000	35	60	24	1.2	KS402_0060 EZ503U	90	140	6.000	6/1	3000	6000	8.3	6.0	8.5	15
KS5 ($n_{1N} = 3000 \text{ rpm}$, $M_{2acc,max} = 200 \text{ Nm}$)															
30	86	88	0.1	1.1	KS503_1000 EZ301U	200	300	100.0	100/1	4200	6000	0.22	5.0	17	15
38	69	71	0.1	1.4	KS503_0800 EZ301U	200	300	80.00	80/1	4200	6000	0.22	5.0	17	15
43	61	62	0.1	1.6	KS503_0700 EZ301U	182	300	70.00	70/1	4200	6000	0.24	5.0	17	15
60	43	44	0.1	2.3	KS503_0500 EZ301U	130	300	50.00	50/1	3500	6000	0.31	5.0	17	15
60	74	78	0.2	1.3	KS503_0500 EZ302U	200	300	50.00	50/1	3500	6000	0.41	5.0	17	15
60	96	102	0.3	1.0	KS503_0500 EZ303U	200	300	50.00	50/1	3500	6000	0.52	5.0	17	16
75	35	35	0.2	2.9	KS503_0400 EZ301U	104	300	40.00	40/1	3100	6000	0.39	5.0	17	15
75	59	62	0.3	1.7	KS503_0400 EZ302U	186	300	40.00	40/1	3100	6000	0.49	5.0	17	15
75	77	81	0.4	1.3	KS503_0400 EZ303U	200	300	40.00	40/1	3100	6000	0.60	5.0	17	16
94	28	28	0.2	3.6	KS503_0320 EZ301U	83	300	32.00	32/1	3100	6000	0.41	5.0	17	15
94	47	50	0.4	2.1	KS503_0320 EZ302U	149	300	32.00	32/1	3100	6000	0.51	5.0	17	15
94	62	65	0.5	1.6	KS503_0320 EZ303U	200	300	32.00	32/1	3100	6000	0.62	5.0	17	16
94	83	89	0.7	1.2	KS503_0320 EZ401U	200	300	32.00	32/1	3100	6000	1.2	5.0	17	17
125	21	21	0.3	4.8	KS503_0240 EZ301U	62	300	24.00	24/1	3100	6000	0.45	5.0	17	15
125	35	37	0.6	2.8	KS503_0240 EZ302U	112	300	24.00	24/1	3100	6000	0.55	5.0	17	15
125	46	49	0.7	2.1	KS503_0240 EZ303U	156	300	24.00	24/1	3100	6000	0.66	5.0	17	16
125	62	67	1.0	1.6	KS503_0240 EZ401U	190	300	24.00	24/1	3100	6000	1.2	5.0	17	17
125	96	105	1.5	1.0	KS503_0240 EZ501U	200	300	24.00	24/1	3100	6000	3.2	5.0	17	18
150	53	57	1.2	1.9	KS502_0200 EZ401U	162	300	20.00	20/1	3500	6000	1.0	5.0	17	16
150	82	89	1.9	1.2	KS502_0200 EZ501U	200	300	20.00	20/1	3500	6000	3.0	5.0	17	17
150	89	99	2.1	1.1	KS502_0200 EZ402U	200	300	20.00	20/1	3500	6000	1.7	5.0	17	17
214	37	40	1.9	2.7	KS502_0140 EZ401U	113	300	14.00	14/1	3200	6000	1.2	5.0	17	16
214	57	63	2.9	1.7	KS502_0140 EZ501U	200	300	14.00	14/1	3200	6000	3.2	5.0	17	17
214	63	69	3.2	1.6	KS502_0140 EZ402U	200	300	14.00	14/1	3200	6000	1.9	5.0	17	17
214	92	114	4.7	1.1	KS502_0140 EZ404U	200	300	14.00	14/1	3200	6000	3.3	5.0	17	19
214	98	106	5.0	1.0	KS502_0140 EZ502U	200	300	14.00	14/1	3200	6000	5.5	5.0	17	18
214	98	110	5.0	1.0	KS502_0140 EZ701U	200	300	14.00	14/1	3200	6000	8.8	5.0	17	20
300	27	29	2.9	3.7	KS502_0100 EZ401U	81	300	10.00	10/1	3000	6000	1.6	5.0	17	16
300	41	45	4.4	2.4	KS502_0100 EZ501U	152	300	10.00	10/1	3000	6000	3.5	5.0	17	17
300	45	49	4.8	2.2	KS502_0100 EZ402U	152	300	10.00	10/1	3000	6000	2.3	5.0	17	17
300	66	82	7.0	1.5	KS502_0100 EZ404U	200	300	10.00	10/1	3000	6000	3.6	5.0	17	19
300	70	76	7.6	1.4	KS502_0100 EZ502U	200	300	10.00	10/1	3000	6000	5.8	5.0	17	18
300	70	79	7.6	1.4	KS502_0100 EZ701U	190	300	10.00	10/1	3000	6000	9.1	5.0	17	20
300	92	105	9.9	1.1	KS502_0100 EZ503U	200	300	10.00	10/1	3000	6000	8.2	5.0	17	20
375	21	23	3.7	4.7	KS502_0080 EZ401U	65	300	8.000	8/1	2800	6000	1.9	5.0	17	16
375	33	36	5.7	3.0	KS502_0080 EZ501U	122	300	8.000	8/1	2800	6000	3.9	5.0	17	17
375	36	40	6.3	2.8	KS502_0080 EZ402U	122	300	8.000	8/1	2800	6000	2.6	5.0	17	17
375	52	65	9.2	1.9	KS502_0080 EZ404U	200	300	8.000	8/1	2800	6000	4.0	5.0	17	19
375	56	61	9.9	1.8	KS502_0080 EZ502U	200	300	8.000	8/1	2800	6000	6.2	5.0	17	18
375	56	63	9.9	1.8	KS502_0080 EZ701U	152	300	8.000	8/1	2800	6000	9.5	5.0	17	20
375	74	84	13	1.3	KS502_0080 EZ503U	200	300	8.000	8/1	2800	6000	8.6	5.0	17	20
375	91	109	16	1.1	KS502_0080 EZ702U	200	300	8.000	8/1	2800	6000	15	5.0	17	22
500	25	27	9.2	3.6	KS502_0060 EZ501U	91	300	6.000	6/1	2500	5500	4.5	5.0	17	17

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]
KS5 ($n_{1N} = 3000$ rpm, $M_{2acc,max} = 200$ Nm)															
500	27	30	10	3.3	KS502_0060 EZ402U	91	300	6.000	6/1	2500	5500	3.3	5.0	17	17
500	39	49	15	2.2	KS502_0060 EZ404U	165	300	6.000	6/1	2500	5500	4.6	5.0	17	19
500	42	46	16	2.1	KS502_0060 EZ502U	177	300	6.000	6/1	2500	5500	6.8	5.0	17	18
500	42	47	16	2.1	KS502_0060 EZ701U	114	300	6.000	6/1	2500	5500	10	5.0	17	20
500	55	63	21	1.6	KS502_0060 EZ503U	200	300	6.000	6/1	2500	5500	9.2	5.0	17	20
500	68	82	26	1.3	KS502_0060 EZ702U	200	300	6.000	6/1	2500	5500	15	5.0	17	22
500	77	91	29	1.1	KS502_0060 EZ505U	200	300	6.000	6/1	2500	5500	14	5.0	17	22
KS5 ($n_{1N} = 4500$ rpm, $M_{2acc,max} = 200$ Nm)															
563	72	116	15	1.2	KS502_0080 EZ505U	200	300	8.000	8/1	2800	6000	13	5.0	17	22
750	54	87	23	1.4	KS502_0060 EZ505U	200	300	6.000	6/1	2500	5500	14	5.0	17	22
750	69	114	30	1.1	KS502_0060 EZ703U	200	300	6.000	6/1	2500	5500	23	5.0	17	24
KS5 ($n_{1N} = 6000$ rpm, $M_{2acc,max} = 200$ Nm)															
75	66	71	0.1	1.2	KS503_0800 EZ301U	200	300	80.00	80/1	4200	6000	0.22	5.0	17	15
86	58	62	0.1	1.4	KS503_0700 EZ301U	182	300	70.00	70/1	4200	6000	0.24	5.0	17	15
120	41	44	0.2	1.9	KS503_0500 EZ301U	130	300	50.00	50/1	3500	6000	0.31	5.0	17	15
120	70	78	0.3	1.1	KS503_0500 EZ302U	200	300	50.00	50/1	3500	6000	0.41	5.0	17	15
150	33	35	0.2	2.4	KS503_0400 EZ301U	104	300	40.00	40/1	3100	6000	0.39	5.0	17	15
150	56	62	0.4	1.4	KS503_0400 EZ302U	186	300	40.00	40/1	3100	6000	0.49	5.0	17	15
150	73	84	0.5	1.1	KS503_0400 EZ303U	200	300	40.00	40/1	3100	6000	0.60	5.0	17	16
188	26	28	0.3	3.0	KS503_0320 EZ301U	83	300	32.00	32/1	3100	6000	0.41	5.0	17	15
188	45	50	0.5	1.8	KS503_0320 EZ302U	149	300	32.00	32/1	3100	6000	0.51	5.0	17	15
188	58	67	0.6	1.4	KS503_0320 EZ303U	200	300	32.00	32/1	3100	6000	0.62	5.0	17	16
188	68	83	0.7	1.2	KS503_0320 EZ401U	200	300	32.00	32/1	3100	6000	1.2	5.0	17	17
250	20	21	0.4	4.0	KS503_0240 EZ301U	62	300	24.00	24/1	3100	6000	0.45	5.0	17	15
250	33	37	0.7	2.4	KS503_0240 EZ302U	112	300	24.00	24/1	3100	6000	0.55	5.0	17	15
250	44	50	0.9	1.8	KS503_0240 EZ303U	156	300	24.00	24/1	3100	6000	0.66	5.0	17	16
250	51	62	1.0	1.5	KS503_0240 EZ401U	190	300	24.00	24/1	3100	6000	1.2	5.0	17	17
250	76	98	1.5	1.0	KS503_0240 EZ501U	200	300	24.00	24/1	3100	6000	3.2	5.0	17	18
250	78	109	1.5	1.0	KS503_0240 EZ402U	200	300	24.00	24/1	3100	6000	1.9	5.0	17	18
300	44	53	1.3	1.8	KS502_0200 EZ401U	162	300	20.00	20/1	3500	6000	1.0	5.0	17	16
300	65	84	1.9	1.2	KS502_0200 EZ501U	200	300	20.00	20/1	3500	6000	3.0	5.0	17	17
300	67	93	2.0	1.2	KS502_0200 EZ402U	200	300	20.00	20/1	3500	6000	1.7	5.0	17	17
429	31	37	2.0	2.6	KS502_0140 EZ401U	113	300	14.00	14/1	3200	6000	1.2	5.0	17	16
429	45	59	2.9	1.7	KS502_0140 EZ501U	200	300	14.00	14/1	3200	6000	3.2	5.0	17	17
429	47	65	3.0	1.7	KS502_0140 EZ402U	200	300	14.00	14/1	3200	6000	1.9	5.0	17	17
429	69	104	4.5	1.1	KS502_0140 EZ502U	200	300	14.00	14/1	3200	6000	5.5	5.0	17	18
429	69	105	4.5	1.1	KS502_0140 EZ701U	200	300	14.00	14/1	3200	6000	8.8	5.0	17	20
429	77	112	5.0	1.0	KS502_0140 EZ404U	200	300	14.00	14/1	3200	6000	3.3	5.0	17	19
600	22	27	3.0	3.6	KS502_0100 EZ401U	81	300	10.00	10/1	3000	6000	1.6	5.0	17	16
600	32	42	4.4	2.4	KS502_0100 EZ501U	152	300	10.00	10/1	3000	6000	3.5	5.0	17	17
600	33	47	4.5	2.4	KS502_0100 EZ402U	152	300	10.00	10/1	3000	6000	2.3	5.0	17	17
600	49	74	6.7	1.6	KS502_0100 EZ502U	200	300	10.00	10/1	3000	6000	5.8	5.0	17	18
600	49	75	6.7	1.6	KS502_0100 EZ701U	190	300	10.00	10/1	3000	6000	9.1	5.0	17	20
600	55	80	7.5	1.4	KS502_0100 EZ404U	200	300	10.00	10/1	3000	6000	3.6	5.0	17	19
600	59	101	8.0	1.3	KS502_0100 EZ503U	200	300	10.00	10/1	3000	6000	8.2	5.0	17	20
600	68	136	9.3	1.2	KS502_0100 EZ702U	200	300	10.00	10/1	3000	6000	14	5.0	17	22
750	17	21	3.9	4.5	KS502_0080 EZ401U	65	300	8.000	8/1	2800	6000	1.9	5.0	17	16
750	26	33	5.7	3.0	KS502_0080 EZ501U	122	300	8.000	8/1	2800	6000	3.9	5.0	17	17
750	27	37	5.9	3.0	KS502_0080 EZ402U	122	300	8.000	8/1	2800	6000	2.6	5.0	17	17
750	40	59	8.7	2.0	KS502_0080 EZ502U	200	300	8.000	8/1	2800	6000	6.2	5.0	17	18
750	40	60	8.7	2.0	KS502_0080 EZ701U	152	300	8.000	8/1	2800	6000	9.5	5.0	17	20
750	44	64	9.7	1.8	KS502_0080 EZ404U	200	300	8.000	8/1	2800	6000	4.0	5.0	17	19
750	47	81	10	1.7	KS502_0080 EZ503U	200	300	8.000	8/1	2800	6000	8.6	5.0	17	20
750	55	109	12	1.4	KS502_0080 EZ702U	200	300	8.000	8/1	2800	6000	15	5.0	17	22
KS7 ($n_{1N} = 3000$ rpm, $M_{2acc,max} = 400$ Nm)															
43	182	195	0.2	1.1	KS703_0700 EZ401U	400	600	70.00	70/1	3500	6000	1.1	4.0	42	30
60	130	140	0.3	1.5	KS703_0500 EZ401U	395	600	50.00	50/1	3200	6000	1.2	4.0	42	30
75	104	112	0.3	1.9	KS703_0400 EZ401U	316	600	40.00	40/1	3000	6000	1.4	4.0	42	30
75	160	175	0.5	1.2	KS703_0400 EZ501U	400	600	40.00	40/1	3000	6000	3.4	4.0	42	31
75	175	193	0.6	1.1	KS703_0400 EZ402U	400	600	40.00	40/1	3000	6000	2.1	4.0	42	31
94	83	89	0.5	2.4	KS703_0320 EZ401U	253	600	32.00	32/1	3000	6000	1.5	4.0	42	30
94	128	140	0.7	1.6	KS703_0320 EZ501U	400	600	32.00	32/1	3000	6000	3.5	4.0	42	31
94	140	155	0.8	1.4	KS703_0320 EZ402U	400	600	32.00	32/1	3000	6000	2.2	4.0	42	31
125	62	67	0.6	3.2	KS703_0240 EZ401U	190	600	24.00	24/1	3000	6000	1.7	4.0	42	30
125	96	105	1.0	2.1	KS703_0240 EZ501U	357	600	24.00	24/1	3000	6000	3.7	4.0	42	31

9.2 Selection tables 9 KS right-angle servo 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]
KS7 ($n_{1N} = 3000 \text{ rpm}$, $M_{2acc,max} = 400 \text{ Nm}$)															
125	105	116	1.1	1.9	KS703_0240 EZ402U	357	600	24.00	24/1	3000	6000	2.4	4.0	42	31
125	154	192	1.6	1.3	KS703_0240 EZ404U	400	600	24.00	24/1	3000	6000	3.7	4.0	42	33
125	165	179	1.7	1.2	KS703_0240 EZ502U	400	600	24.00	24/1	3000	6000	6.0	4.0	42	33
125	165	185	1.7	1.2	KS703_0240 EZ701U	400	600	24.00	24/1	3000	6000	9.3	4.0	42	34
150	82	89	2.7	2.4	KS702_0200 EZ501U	304	600	20.00	20/1	3200	6000	3.3	4.0	42	28
150	141	152	4.6	1.4	KS702_0200 EZ502U	400	600	20.00	20/1	3200	6000	5.6	4.0	42	30
150	141	158	4.6	1.4	KS702_0200 EZ701U	380	600	20.00	20/1	3200	6000	8.9	4.0	42	31
150	184	211	6.0	1.1	KS702_0200 EZ503U	400	600	20.00	20/1	3200	6000	8.0	4.0	42	31
214	57	63	4.1	3.5	KS702_0140 EZ501U	213	600	14.00	14/1	3000	6000	3.8	4.0	42	28
214	98	106	7.0	2.0	KS702_0140 EZ502U	400	600	14.00	14/1	3000	6000	6.1	4.0	42	30
214	98	110	7.0	2.0	KS702_0140 EZ701U	266	600	14.00	14/1	3000	6000	9.4	4.0	42	31
214	129	148	9.2	1.5	KS702_0140 EZ503U	400	600	14.00	14/1	3000	6000	8.4	4.0	42	31
214	160	192	11	1.2	KS702_0140 EZ702U	400	600	14.00	14/1	3000	6000	15	4.0	42	34
214	180	213	13	1.1	KS702_0140 EZ505U	400	600	14.00	14/1	3000	6000	13	4.0	42	34
300	41	45	6.1	4.9	KS702_0100 EZ501U	152	600	10.00	10/1	2800	6000	4.7	4.0	42	28
300	70	76	10	2.8	KS702_0100 EZ502U	295	600	10.00	10/1	2800	6000	7.0	4.0	42	30
300	70	79	10	2.8	KS702_0100 EZ701U	190	600	10.00	10/1	2800	6000	10	4.0	42	31
300	92	105	14	2.2	KS702_0100 EZ503U	400	600	10.00	10/1	2800	6000	9.4	4.0	42	31
300	114	137	17	1.7	KS702_0100 EZ702U	390	600	10.00	10/1	2800	6000	16	4.0	42	34
300	128	152	19	1.5	KS702_0100 EZ505U	400	600	10.00	10/1	2800	6000	14	4.0	42	34
300	157	198	23	1.3	KS702_0100 EZ703U	400	600	10.00	10/1	2800	6000	23	4.0	42	36
375	56	61	14	3.5	KS702_0080 EZ502U	236	600	8.000	8/1	2500	5000	8.1	4.0	42	30
375	56	63	14	3.5	KS702_0080 EZ701U	152	600	8.000	8/1	2500	5000	11	4.0	42	31
375	74	84	18	2.7	KS702_0080 EZ503U	327	600	8.000	8/1	2500	5000	10	4.0	42	31
375	91	109	22	2.2	KS702_0080 EZ702U	312	600	8.000	8/1	2500	5000	17	4.0	42	34
375	103	122	25	1.9	KS702_0080 EZ505U	400	600	8.000	8/1	2500	5000	15	4.0	42	34
375	125	158	31	1.6	KS702_0080 EZ703U	400	600	8.000	8/1	2500	5000	25	4.0	42	36
375	162	230	39	1.2	KS702_0080 EZ705U	400	600	8.000	8/1	2500	5000	37	4.0	42	41
375	169	282	41	1.2	KS702_0080 EZ802U	400	600	8.000	8/1	2500	5000	61	4.0	42	50
500	42	46	19	4.7	KS702_0060 EZ502U	177	600	6.000	6/1	2100	4500	11	4.0	42	30
500	42	47	19	4.7	KS702_0060 EZ701U	114	600	6.000	6/1	2100	4500	14	4.0	42	31
500	55	63	25	3.6	KS702_0060 EZ503U	245	600	6.000	6/1	2100	4500	13	4.0	42	31
500	68	82	31	2.9	KS702_0060 EZ702U	234	600	6.000	6/1	2100	4500	19	4.0	42	34
500	77	91	35	2.6	KS702_0060 EZ505U	382	600	6.000	6/1	2100	4500	18	4.0	42	34
500	94	119	43	2.1	KS702_0060 EZ703U	371	600	6.000	6/1	2100	4500	27	4.0	42	36
500	121	172	56	1.6	KS702_0060 EZ705U	400	600	6.000	6/1	2100	4500	40	4.0	42	41
500	127	211	58	1.6	KS702_0060 EZ802U	400	600	6.000	6/1	2100	4500	64	4.0	42	50
KS7 ($n_{1N} = 4500 \text{ rpm}$, $M_{2acc,max} = 400 \text{ Nm}$)															
321	126	203	10	1.4	KS702_0140 EZ505U	400	600	14.00	14/1	3000	6000	13	4.0	42	34
321	161	266	13	1.1	KS702_0140 EZ703U	400	600	14.00	14/1	3000	6000	22	4.0	42	36
450	90	145	15	1.9	KS702_0100 EZ505U	400	600	10.00	10/1	2800	6000	14	4.0	42	34
450	100	328	17	1.7	KS702_0100 EZ802U	400	600	10.00	10/1	2800	6000	60	4.0	42	50
450	115	190	20	1.5	KS702_0100 EZ703U	400	600	10.00	10/1	2800	6000	23	4.0	42	36
450	156	285	27	1.1	KS702_0100 EZ705U	400	600	10.00	10/1	2800	6000	36	4.0	42	41
563	72	116	20	2.4	KS702_0080 EZ505U	400	600	8.000	8/1	2500	5000	15	4.0	42	34
563	80	262	22	2.2	KS702_0080 EZ802U	400	600	8.000	8/1	2500	5000	61	4.0	42	50
563	92	152	26	1.9	KS702_0080 EZ703U	400	600	8.000	8/1	2500	5000	25	4.0	42	36
563	125	228	35	1.4	KS702_0080 EZ705U	400	600	8.000	8/1	2500	5000	37	4.0	42	41
750	54	87	28	3.2	KS702_0060 EZ505U	382	600	6.000	6/1	2100	4500	18	4.0	42	34
750	60	197	31	2.9	KS702_0060 EZ802U	400	600	6.000	6/1	2100	4500	64	4.0	42	50
750	69	114	36	2.5	KS702_0060 EZ703U	371	600	6.000	6/1	2100	4500	27	4.0	42	36
750	93	171	49	1.9	KS702_0060 EZ705U	400	600	6.000	6/1	2100	4500	40	4.0	42	41
KS7 ($n_{1N} = 6000 \text{ rpm}$, $M_{2acc,max} = 400 \text{ Nm}$)															
86	150	182	0.2	1.1	KS703_0700 EZ401U	400	600	70.00	70/1	3500	6000	1.1	4.0	42	30
120	107	130	0.3	1.5	KS703_0500 EZ401U	395	600	50.00	50/1	3200	6000	1.2	4.0	42	30
150	86	104	0.4	1.8	KS703_0400 EZ401U	316	600	40.00	40/1	3000	6000	1.4	4.0	42	30
150	126	164	0.5	1.2	KS703_0400 EZ501U	400	600	40.00	40/1	3000	6000	3.4	4.0	42	31
150	130	182	0.5	1.2	KS703_0400 EZ402U	400	600	40.00	40/1	3000	6000	2.1	4.0	42	31
188	68	83	0.5	2.3	KS703_0320 EZ401U	253	600	32.00	32/1	3000	6000	1.5	4.0	42	30
188	101	131	0.7	1.6	KS703_0320 EZ501U	400	600	32.00	32/1	3000	6000	3.5	4.0	42	31
188	104	146	0.7	1.5	KS703_0320 EZ402U	400	600	32.00	32/1	3000	6000	2.2	4.0	42	31
188	155	232	1.1	1.0	KS703_0320 EZ502U	400	600	32.00	32/1	3000	6000	5.8	4.0	42	33
188	155	235	1.1	1.0	KS703_0320 EZ701U	400	600	32.00	32/1	3000	6000	9.1	4.0	42	34
250	51	62	0.7	3.1	KS703_0240 EZ401U	190	600	24.00	24/1	3000	6000	1.7	4.0	42	30
250	76	98	1.0	2.1	KS703_0240 EZ501U	357	600	24.00	24/1	3000	6000	3.7	4.0	42	31

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]
KS7 ($n_{1N} = 6000 \text{ rpm}$, $M_{2acc,max} = 400 \text{ Nm}$)															
250	78	109	1.0	2.0	KS703_0240 EZ402U	357	600	24.00	24/1	3000	6000	2.4	4.0	42	31
250	116	174	1.5	1.4	KS703_0240 EZ502U	400	600	24.00	24/1	3000	6000	6.0	4.0	42	33
250	116	176	1.5	1.4	KS703_0240 EZ701U	400	600	24.00	24/1	3000	6000	9.3	4.0	42	34
250	129	187	1.7	1.2	KS703_0240 EZ404U	400	600	24.00	24/1	3000	6000	3.7	4.0	42	33
250	138	237	1.8	1.1	KS703_0240 EZ503U	400	600	24.00	24/1	3000	6000	8.3	4.0	42	34
300	65	84	2.6	2.4	KS702_0200 EZ501U	304	600	20.00	20/1	3200	6000	3.3	4.0	42	28
300	99	148	4.0	1.6	KS702_0200 EZ502U	400	600	20.00	20/1	3200	6000	5.6	4.0	42	30
300	99	150	4.0	1.6	KS702_0200 EZ701U	380	600	20.00	20/1	3200	6000	8.9	4.0	42	31
300	118	201	4.8	1.3	KS702_0200 EZ503U	400	600	20.00	20/1	3200	6000	8.0	4.0	42	31
300	137	272	5.6	1.2	KS702_0200 EZ702U	400	600	20.00	20/1	3200	6000	14	4.0	42	34
429	45	59	4.1	3.5	KS702_0140 EZ501U	213	600	14.00	14/1	3000	6000	3.8	4.0	42	28
429	69	104	6.2	2.3	KS702_0140 EZ502U	400	600	14.00	14/1	3000	6000	6.1	4.0	42	30
429	69	105	6.2	2.3	KS702_0140 EZ701U	266	600	14.00	14/1	3000	6000	9.4	4.0	42	31
429	82	141	7.4	1.9	KS702_0140 EZ503U	400	600	14.00	14/1	3000	6000	8.4	4.0	42	31
429	96	190	8.6	1.6	KS702_0140 EZ702U	400	600	14.00	14/1	3000	6000	15	4.0	42	34
600	32	42	6.1	4.9	KS702_0100 EZ501U	152	600	10.00	10/1	2800	6000	4.7	4.0	42	28
600	49	74	9.3	3.2	KS702_0100 EZ502U	295	600	10.00	10/1	2800	6000	7.0	4.0	42	30
600	49	75	9.3	3.2	KS702_0100 EZ701U	190	600	10.00	10/1	2800	6000	10	4.0	42	31
600	59	101	11	2.7	KS702_0100 EZ503U	400	600	10.00	10/1	2800	6000	9.4	4.0	42	31
600	68	136	13	2.3	KS702_0100 EZ702U	390	600	10.00	10/1	2800	6000	16	4.0	42	34