dertec®
Designed to Perform

Stainless Steel
Helical Bevel GEARBOXES.

FKA

FKA Helical Bevelgearbox

FKA series bevel gearboxes are being developed to achieve high torque, low energy use and less surface heat.
The high efficiency of the drive reduces the energy consumption and the case hardened gears ensure a long lifetime and smooth running.
Duplex stainless steel secundary shafts with PNS hardening contribute to a long service life of the drive.
Gearbox footprint, centerheight and shaftdiameters are interchangeable with common standards.

The design of Dertec gearboxes is organic round and smooth making the gearboxes extremely applicable in the food industry.
The FKA bevel Gearboxes offer highratios up to 197,37 : 1 with a maximum output torque of 2700 Nm.
Like all Dertec gearboxes, the FKA series are being equipped with food grade lubrication.
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Main features

Made of high quality carefully electro polished Stainless Steel AISI 316 (mirror Polished on request). The smooth design gives the gearbox a nice appearance, ready to suit all kinds of stainless steel machineries for the food industry.

Hardened shaft
All hollow shafts are produced in Duplex Stainless Steel 2205. The special PNS surface treatment ensures enough hardness to collaborate with our Special High Temperature Resistant Blue Shaft Seals. The PNS treatment increases the lifetime of shaft / seal cooperation and helps to reduce wear on the shaft surface.
By this, the gearbox obtains a longer drip free operation compared to standard shaft / seal combinations made of SS304 with NBR or FKM. The use of above combination offers all the positive characteristics of stainless steel and the surface hardness of a hardened shaft.

Blue shaft seals
Our high performance engineered shaft seals have a Blue colour. It is a well overthought feature for food industry applications. It might be clear that the colour “Blue” is a not existing organic colour. In the context of food safety it is a common use to embed blue colours as these are very visible and easily to be recognised by Vision scanning systems.

Foodgrade lubrication
All gearboxes are standard equipped with NSH H1 certified Synthetic Foodgrade lubrication. On request it can be supplied with a Halal, Kosher or Nut Free certification.

Engraved tagplate
To avoid dirt traps under the commonly used motor identification tagplate, all our motors and gearboxes are being equipped with a laser engraved tagplate. Besides for the food safety this also prevents against possible lost of information because of taking away the tagplate or loosing the tagplate from the driveparts.

General specifications

- Standard ratio’s 3,98 : 1 to 197,37 : 1
- IEC motor adaption versions (AM)
- Integrated motor versions (B5T..)
- Standard hollow shafts 30, 35, 40, 50 & 60 mm
- Extra hygienic optional shaft covers. (open and closed version)
- Easy clean torque arm with built in elastic element to reduce mis alignment.
- High efficiency of 94%
- Optional output flanges available
- Stainless Steel AISI316
- Duplex stainless steel 2205 output shaft
- Interchangeable with euro sizes
- Designed and produced in the Netherlands

As a part of our standard procedure every drive is tested in our production facility in the Netherlands to ensure correct functioning.

FKA 38		FKA 48	
Ratio's	From: 3.98 : 1 To: 106.38 : 1	Ratio's	From: 8.56 : 1 To: 131.87 : 1
Standard shaft Ø	30 mm	Standard shaft Ø	35 mm
Max. torque	200 Nm	Max. torque	400 Nm
Max. power	0.25 kW	Max. power	3.0 kW
FKA 68		**FKA 78**	
Ratio's	From: 5.20 : 1 To: 144.79 : 1	Ratio's	From: 7.24 : 1 To: 192.18 : 1
Standard shaft Ø	40 mm	Standard shaft Ø	50 mm
Max. torque	820 Nm	Max. torque	1550 Nm
Max. power	5.5 kW	Max. power	7.5 kW
FKA 88			
Ratio's	From: 7.21 : 1 To: 197.37 : 1		
Standard shaft Ø	60 mm		
Max. torque	2700 Nm		
Max. power	7.5 kW		

Torque Arms	
FKA 38	SS 095 MS L130S
	SS 095 MS L150
FKA 48	SS 115 MS L160S
	SS 115 MS L200
FKA 68	SS 130 MS L200
FKA 78	Not available

Easy Clean Closed Cover	
FKA 38	SS 095 CC
FKA 48	SS 115 CC
FKA 68	SS 130 CC
FKA 78	SS 140 CC

Easy Clean Open Cover	
FKA 38	SS 095 CO 30
FKA 48	SS 115 CO 35
FKA 68	SS 130 CO 40
FKA 78	Not Available

Output Flanges	
FKA 38	SS 095 FL 160
FKA 48	SS 115 FL 200
FKA 68	SS 130 FL 250
FKA 78	SS 140 FL 250
FKA 78	SS 140 FL 300


Standard foodgrade lubrication
Hollow shafts of Duplex Stainless Steel with PNS Treatment
A smooth, round, organic surface allows for easy cleaning and reduce bacterial growth
Seals and O-rings made of special engineered foodgrade material.
Stainless Steel AISI316 Housing
Laser engraved tag plates

Possible Geometrical Combinations

FKA 38

Maximum Torque = 200 Nm @ N1 = 1400r/min

n_2 [Min^{-1}]	M_{2max} [Nm]	F_{r2} [N]	i	η%	AM / B5T1	AM / B5T1	AM / B5T1	AM / B5T1	AM / B5T1
					63	71	80	90	100
13	200	5640	106.38	94 %	✔	✔	✔		
14	200	5640	97.81	94 %	✔	✔	✔		
17	200	5640	83.69	94 %	✔	✔	✔		
19	200	5520	72.54	94 %	✔	✔	✔	✔	
21	200	5360	67.80	94 %	✔	✔	✔	✔	
24	200	5020	58.60	94 %	✔	✔	✔	✔	✔
28	200	4660	49.79	94 %	✔	✔	✔	✔	✔
31	200	4420	44.46	94 %	✔	✔	✔	✔	✔
37	200	4100	37.97	94 %	✔	✔	✔	✔	✔
39	200	3970	35.57	94 %	✔	✔	✔	✔	✔
47	200	3650	29.96	94 %	✔	✔	✔	✔	✔
49	200	3580	28.83	94 %	✔	✔	✔		
56	200	3330	24.99	94 %	✔	✔	✔	✔	
60	195	3260	23.36	94 %	✔	✔	✔	✔	
69	185	3110	20.19	94 %	✔	✔	✔	✔	✔
82	180	2900	17.15	94 %	✔	✔	✔	✔	✔
91	175	2780	15.31	94 %	✔	✔	✔	✔	✔
107	165	2650	13.08	94 %	✔	✔	✔	✔	✔
115	160	2600	12.14	94 %	✔	✔	✔	✔	
133	160	2410	10.49	94 %	✔	✔	✔	✔	✔
157	160	2200	8.91	94 %	✔	✔	✔	✔	✔
176	155	2110	7.96	94 %	✔	✔	✔	✔	✔
206	150	1980	6.80	94 %	✔	✔	✔	✔	✔
220	145	1950	6.37	94 %	✔	✔	✔	✔	✔
261	140	1810	5.36	94 %	✔	✔		✔	✔
352	125	1660	3.98	94 %				✔	✔

P_{1n} = Rated Motor Power [kW]
n_2 = Output Speed [Min^{-1}]
M_{2n}= Rated Output torque [Nm]
M_{2max} = Maximum permissible output torque [Nm]
F_{r2} = Permitted Overhung Load Output Side [N]
i = Gear unit Ratio
η% = Transmission Efficiency %
fs = Service Factor

FKA 48

Maximum Torque = 400 Nm @ N1 = 1400r/min

n_2 [Min^{-1}]	M_{2max} [Nm]	F_{r2} [N]	i	η%	AM / B5T2	AM / B5T2	AM / B5T2	AM / B5T2	AM / B5T2
					63	71	80	90	100
11	400	5920	131.87	94 %	✔	✔			
12	400	5920	121.48	94 %	✔	✔			
13	400	5920	104.37	94 %	✔	✔	✔		
15	400	5920	90.86	94 %	✔	✔	✔	✔	
16	400	5920	85.12	94 %	✔	✔	✔	✔	
19	400	5920	75.20	94 %	✔	✔	✔	✔	✔
20	400	5920	69.84	94 %	✔	✔	✔	✔	
22	400	5920	63.30	94 %	✔	✔	✔	✔	✔
25	400	5920	56.83	94 %	✔	✔	✔	✔	✔
29	400	5920	48.95	94 %	✔	✔	✔	✔	✔
30	400	5920	46.03	94 %	✔	✔	✔	✔	✔
35	400	5920	39.61	94 %	✔	✔	✔	✔	✔
40	400	5920	35.39	94 %			✔	✔	✔
45	400	5700	31.30	94 %	✔	✔	✔	✔	
48	400	5520	29.32	94 %	✔	✔	✔	✔	
54	400	5170	25.91	94 %	✔	✔	✔	✔	✔
58	400	4970	24.06	94 %	✔	✔	✔	✔	
64	400	4710	21.81	94 %	✔	✔	✔	✔	✔
72	400	4440	19.58	94 %	✔	✔	✔	✔	✔
83	380	4230	16.86	94 %	✔	✔	✔	✔	✔
88	380	4080	15.86	94 %	✔	✔	✔	✔	✔
103	360	3890	13.65	94 %	✔	✔	✔	✔	✔
115	350	3720	12.19	94 %			✔	✔	✔
119	280	4060	11.77	94 %	✔	✔	✔	✔	✔
133	280	3830	10.56	94 %	✔	✔	✔	✔	✔
154	280	3540	9.10	94 %	✔	✔	✔	✔	✔
164	270	3500	8.56		✔	✔	✔	✔	

FKA 68

Maximum Torque = 820 Nm @ N1 = 1400r/min

n_2 [Min^{-1}]	M_{2max} [Nm]	F_{r2} [N]	i	η%	AM / B5T2 63	AM / B5T2 71	AM / B5T2 80	AM / B5T2 90	AM / B5T2 100	AM / B5T2 112	AM / B5T2 132
9.7	820	10300	144.79	94 %	✔	✔					
11	820	10300	123.54	94 %	✔	✔	✔				
13	820	10300	108.03	94 %	✔	✔	✔	✔			
14	820	10300	102.62	94 %	✔	✔	✔	✔			
16	820	10300	90.04	94 %	✔	✔	✔	✔	✔		
18	820	10300	76.37	94 %	✔	✔	✔	✔	✔	✔	
20	820	10300	68.95	94 %	✔	✔	✔	✔	✔	✔	
23	820	10300	60.66	94 %	✔	✔	✔	✔	✔	✔	✔
24	820	10300	57.28	94 %	✔	✔	✔	✔	✔	✔	✔
29	820	10300	48.77	94 %	✔	✔	✔	✔	✔	✔	✔
32	820	10300	44.32	94 %			✔	✔	✔	✔	✔
36	800	10500	38.39	94 %			✔	✔	✔	✔	✔
39	820	10300	35.62	94 %	✔	✔	✔	✔	✔		
46	820	10300	30.22	94 %	✔	✔	✔	✔	✔	✔	
51	820	10300	27.28	94 %	✔	✔	✔	✔	✔	✔	
58	800	10500	24.00	94 %	✔	✔	✔	✔	✔	✔	✔
62	780	10700	22.66	94 %	✔	✔	✔	✔	✔	✔	✔
73	760	10800	19.30	94 %	✔	✔	✔	✔	✔	✔	✔
80	740	11000	17.54	94 %			✔	✔	✔	✔	✔
92	700	11300	15.19	94 %			✔	✔	✔	✔	✔
106	670	11500	13.22	94 %				✔	✔	✔	✔
112	530	12300	12.48	94 %	✔	✔	✔	✔	✔	✔	✔
132	500	11800	10.63	94 %	✔	✔	✔	✔	✔	✔	✔
145	480	11500	9.66	94 %			✔	✔	✔	✔	✔
167	440	11100	8.37	94 %			✔	✔	✔	✔	✔
192	420	10700	7.28	94 %				✔	✔	✔	✔
269	350	9870	5.20	94 %				✔	✔	✔	✔

P_{1n} = Rated Motor Power [kW]
n_2 = Output Speed [Min^{-1}]
M_{2n}= Rated Output torque [Nm]
M_{2max} = Maximum permissible output torque [Nm]
F_{r2} = Permitted Overhung Load Output Side [N]
i = Gear unit Ratio
η% = Transmission Efficiency %
fs = Service Factor

FKA 78

Maximum Torque = 1550 N @ N1 = 1400r/min

n_2 [Min^{-1}]	M_{2max} [Nm]	F_{r2} [N]	i	η%	AM	B5T3	AM	B5T3	AM	B5T3	AM	B5T3	AM	B5T3	AM	B5T3	AM	B5T3
					63		71		80		90		100		112		132	
7.3	1450	16100	192.18	94 %	✔		✔											
7.8	1450	16100	179.37	94 %	✔		✔											
9.1	1550	15400	154.02	94 %	✔		✔		✔									
10	1550	15400	135.28	94 %	✔		✔		✔		✔							
11	1550	15400	128.52	94 %	✔		✔		✔		✔							
12	1550	15400	113.56	94 %	✔		✔		✔		✔		✔					
14	1550	15400	97.05	94 %	✔		✔		✔		✔		✔		✔			
16	1550	15400	88.97	94 %	✔		✔		✔		✔		✔		✔			
18	1550	15400	78.07	94 %	✔		✔		✔		✔		✔		✔		✔	
19	1550	15400	73.99	94 %	✔		✔		✔		✔		✔		✔		✔	
22	1550	15400	64.75	94 %	✔		✔		✔		✔		✔		✔		✔	
24	1550	15400	58.34	94 %					✔		✔		✔		✔		✔	
27	1550	15400	51.18	94 %					✔		✔		✔		✔		✔	
31	1550	15400	45.16	94 %							✔		✔		✔		✔	
35	1550	15400	40.04	94 %							✔		✔		✔		✔	
36	1500	15700	38.39	94 %	✔		✔		✔		✔		✔		✔			
40	1550	15400	35.20	94 %	✔		✔		✔		✔		✔		✔			
45	1550	15400	30.89	94 %	✔		✔		✔		✔		✔		✔		✔	
48	1550	15400	29.27	94 %	✔		✔		✔		✔		✔		✔		✔	
55	1550	15400	25.62	94 %	✔		✔		✔		✔		✔		✔		✔	
61	1550	15400	23.08	94 %					✔		✔		✔		✔		✔	
69	1500	15700	20.25	94 %					✔		✔		✔		✔		✔	
78	1450	16100	17.87	94 %							✔		✔		✔		✔	
88	1400	15500	15.84	94 %							✔		✔		✔		✔	
104	1340	14800	13.52	94 %							✔		✔		✔		✔	
113	1000	15100	12.36	94 %					✔		✔		✔		✔		✔	
129	990	14400	10.84	94 %					✔		✔		✔		✔		✔	
146	940	13900	9.56	94 %							✔		✔		✔		✔	
165	890	13500	8.48	94 %							✔		✔		✔		✔	
193	820	13100	7.24	94 %							✔		✔		✔		✔	

FKA 88

Maximum Torque = 2700 Nm @ N1 = 1400r/min

n_2 [Min^{-1}]	M_{2max} [Nm]	F_{r2} [N]	i	η%	80		90		100		112		132	
					AM	B5T4	AM	B5T4	AM	B5T4	AM	B5T4	AM	B5T4
7.1	2700	27300	197.37	94 %	✔									
8.0	2700	27300	174.19	94 %	✔		✔							
8.5	2700	27300	164.34	94 %	✔		✔							
9.5	2700	27300	147.32	94 %	✔		✔		✔					
11	2700	27300	126.91	94 %	✔		✔		✔		✔			
12	2700	27300	115.82	94 %	✔		✔		✔		✔			
14	2700	27300	102.71	94 %	✔		✔		✔		✔		✔	
16	2700	27300	86.34	94 %	✔		✔		✔		✔		✔	
18	2700	27300	79.34	94 %	✔		✔		✔		✔		✔	
20	2700	27300	70.46	94 %	✔		✔		✔		✔		✔	
22	2700	26200	63.00	94 %			✔		✔		✔		✔	
25	2700	25000	56.64	94 %			✔		✔		✔		✔	
28	2700	23500	49.16	94 %			✔		✔		✔		✔	
32	2600	22800	44.02	94 %					✔		✔		✔	
38	2500	21400	36.52	94 %					✔		✔		✔	
45	2700	19200	31.39	94 %	✔		✔		✔		✔		✔	
50	2600	18500	27.88	94 %	✔		✔		✔		✔		✔	
56	2500	18000	24.92	94 %			✔		✔		✔		✔	
62	2300	17900	22.41	94 %			✔		✔		✔		✔	
72	2300	16800	19.45	94 %			✔		✔		✔		✔	
80	2200	16300	17.42	94 %					✔		✔		✔	
88	1800	16000	16.00	94 %	✔		✔		✔		✔		✔	
97	2100	15300	14.45	94 %					✔		✔		✔	
111	2000	14800	12.56	94 %									✔	
125	1500	14900	11.17	94 %			✔		✔		✔		✔	
140	1500	14200	10.00	94 %					✔		✔		✔	
169	1400	13500	8.29	94 %					✔		✔		✔	
194	1300	13200	7.21	94 %									✔	

P_{1n} = Rated Motor Power [kW]
n_2 = Output Speed [Min^{-1}]
M_{2n}= Rated Output torque [Nm]
M_{2max} = Maximum permissible output torque [Nm]
F_{r2} = Permitted Overhung Load Output Side [N]
i = Gear unit Ratio
η% = Transmission Efficiency %
fs = Service Factor

Gearbox Selection Tables

P_{1n} [kW]	n_2 min-1	M_{2n} [Nm]	i	F_{r2} [N]	fs		
0.12	13	88	106.38	6500	2.30	FKA 38 AM63 FKA 38 B5T1	631-4 B5 631-4 B5T1
	14	81	97.81	6530	2.50		
	16	70	83.69	6570	2.90		
	19	60	72.54	6600	3.30		
	20	56	67.80	6610	3.60		
	24	49	58.60	6430	4.10		
	28	41	49.79	6130	4.80		
	31	37	44.46	5930	5.40		
	36	32	37.97	5660	6.40		
	39	30	35.57	5550	6.80		
	46	25	29.96	5270	8.00		
	48	24	28.83	5210	8.40		
	55	21	24.99	4980	9.60		
	59	19	23.36	4880	10.0		
	68	17	20.19	4660	11.0		
	80	14	17.15	4430	13.0		
	90	13	15.31	4280	14.0		
	105	11	13.08	4070	15.0		
	114	10	12.14	3970	16.0		
	10	110	131.87	8140	3.70	FKA 48 AM63 FKA 48 B5T2	631-4 B5 631-4 B5T2
	11	101	121.48	8170	4.00		
0.18	12	139	106.38	6210	1.45	FKA 38 AM63 FKA 38 B5T1	632-4 B5 632-4 B5T1
	14	127	97.81	6280	1.55		
	16	109	83.69	6400	1.85		
	18	95	72.54	6470	2.10		
	19	88	67.80	6500	2.30		
	23	76	58.60	6280	2.60		
	27	65	49.79	6010	3.10		
	30	58	44.46	5830	3.50		
	35	49	37.97	5580	4.10		
	37	46	35.57	5480	4.30		
	44	39	29.96	5220	5.10		
	46	38	28.83	5160	5.30		
	53	33	24.99	4950	6.20		
	57	30	23.36	4850	6.40		
	65	26	20.19	4650	7.00		
	77	22	17.15	4430	8.10		
	86	20	15.31	4280	8.80		
	101	17	13.08	4080	9.70		
	109	16	12.14	3980	10.0		
	126	14	10.49	3810	12.0		
	148	12	8.91	3620	14.0		
	166	10	7.96	3490	15.0		
	8.9	193	97.81	5710	1.05	FKA 38 AM71 FKA 38 B5T1	711-6 B5 711-6 B5T1
	10	165	83.69	5990	1.20		
	12	143	72.54	6170	1.40		

P_{1n} = Rated Motor Power [kW]
n_2 = Output Speed [Min^{-1}]
M_{2n}= Rated Output torque [Nm]
M_{2max} = Maximum permissible output torque [Nm]
F_{r2} = Permitted Overhung Load Output Side [N]
i = Gear unit Ratio
η% = Transmission Efficiency %
fs = Service Factor

P_{1n} [kW]	n_2 min-1	M_{2n} [Nm]	i	F_{r2} [N]	fs		
0.18	10	172	131.87	7910	2.30	FKA 48 AM63 FKA 48 B5T2	632-4 B5 632-4 B5T2
	11	158	121.48	7970	2.50		
	13	136	104.37	8060	2.90		
	15	118	90.86	8120	3.40		
	16	111	85.12	8140	3.60		
	6.6	260	131.87	7380	1.55	FKA 48 AM71 FKA 48 B5T2	711-6 B5 711-6 B5T2
	7.2	240	121.48	7530	1.65		
	8.3	205	104.37	7740	1.95		
	9.6	180	90.86	7880	2.20		
	10	168	85.12	7930	2.40		
	9.1	189	144.79	13000	4.40	FKA 68 AM63 FKA 68 B5T2	632-4 B5 632-4 B5T2
	11	161	123.54	13000	5.10		
	12	141	108.03	13000	5.80		
	6.0	285	144.79	13000	2.90	FKA 68 AM71 FKA 68 B5T2	711-6 B5 711-6 B5T2
	7.0	245	123.54	13000	3.40		
	8.0	215	108.03	13000	3.80		
	8.5	205	102.62	13000	4.00		
0.25	12	195	106.38	5690	1.00	FKA 38 AM71 FKA 38 B5T1	711-4 B5 711-4 B5T1
	13	180	97.81	5860	1.10		
	16	154	83.69	6090	1.30		
	18	133	72.54	6250	1.50		
	19	125	67.80	6230	1.60		
	22	108	58.60	6030	1.85		
	26	91	49.79	5810	2.20		
	29	82	44.46	5650	2.50		
	34	70	37.97	5430	2.90		
	37	65	35.57	5340	3.10		
	43	55	29.96	5100	3.60		
	45	53	28.83	5050	3.80		
	52	46	24.99	4860	4.40		
	56	43	23.36	4770	4.60		
	64	37	20.19	4580	5.00		
	76	32	17.15	4370	5.70		
	85	28	15.31	4230	6.20		
	99	24	13.08	4030	6.90		
	107	22	12.14	3940	7.20		
	124	19	10.49	3780	8.30		
	146	16	8.91	3590	9.80		
	163	15	7.96	3470	11.0		
	191	13	6.80	3310	12.0		
	204	12	6.37	3240	12.0		
	12	197	72.54	5680	1.00	FKA 38 AM71 FKA 38 B5T1	712-6 B5 712-6 B5T1
	13	184	67.80	5810	1.10		
	15	159	58.60	6050	1.25		
	18	135	49.79	6230	1.50		

P_{1n} [kW]	n_2 min-1	M_{2n} [Nm]	i	F_{r2} [N]	fs		
0.25	9.9	240	131.87	7510	1.65	FKA 48 AM71 FKA 48 B5T2	711-4 B5 711-4 B5T2
	11	225	121.48	7640	1.80		
	12	192	104.37	7820	2.10		
	14	167	90.86	7930	2.40		
	15	156	85.12	7980	2.60		
	6.7	360	131.87	6470	1.10	FKA 48 AM71 FKA 48 B5T2	712-6 B5 712-6 B5T2
	7.2	330	121.48	6780	1.20		
	8.4	285	104.37	7210	1.40		
	9.7	245	90.86	7480	1.60		
	10	230	85.12	7590	1.75		
	9.0	265	144.79	13000	3.10	FKA 68 AM71 FKA 68 B5T2	711-4 B5 711-4 B5T2
	11	225	123.54	13000	3.60		
	12	198	108.03	13000	4.10		
	13	189	102.62	13000	4.40		
	6.1	395	144.79	12800	2.10	FKA 68 AM71 FKA 68 B5T2	712-6 B5 712-6 B5T2
	7.1	335	123.54	13000	2.50		
	8.2	295	108.03	13000	2.80		
	8.6	280	102.62	13000	3.00		
	5.5	435	123.54	12700	1.90	FKA 68 AM80 FKA 68 B5T2	802-8 B14a 802-8 B5T2
	6.3	380	108.03	12900	2.20		
	6.6	360	102.62	12900	2.30		
	7.5	315	90.04	13000	2.60		
	4.6	520	192.18	19700	2.80	FKA 78 AM71 FKA 78 B5T3	712-6 B5 712-6 B5T3
	4.9	485	179.37	19700	3.00		
	5.7	420	154.02	19800	3.70		
	6.5	365	135.28	19900	4.20		
	4.4	540	154.02	19600	2.90	FKA 78 AM80 FKA 78 B5T3	802-8 B14a 802-8 B5T3
	5.0	475	135.52	19700	3.30		
	5.3	450	128.52	19800	3.40		
	6.0	400	113.56	19900	3.90		
0.37	19	186	72.54	5690	1.10	FKA 38 AM71 FKA 38 B5T1	712-4 B5 712-4 B5T1
	20	174	67.80	5630	1.15		
	24	150	58.60	5510	1.35		
	28	128	49.79	5350	1.55		
	31	114	44.46	5230	1.75		
	36	97	37.97	5060	2.10		
	39	91	35.57	4990	2.20		
	46	77	29.96	4800	2.60		
	48	74	28.83	4750	2.70		
	55	64	24.99	4590	3.10		
	59	60	23.36	4510	3.30		
	68	52	20.19	4350	3.60		
	80	44	17.15	4160	4.10		
	90	39	15.31	4040	4.50		
	105	34	13.08	3860	4.90		
	114	31	12.14	3780	5.10		
	132	27	10.49	3630	6.00		

P_{1n} = Rated Motor Power [kW]
n_2 = Output Speed [Min^{-1}]
M_{2n}= Rated Output torque [Nm]
M_{2max} = Maximum permissible output torque [Nm]
F_{r2} = Permitted Overhung Load Output Side [N]
i = Gear unit Ratio
η% = Transmission Efficiency %
fs = Service Factor

P_{1n} [kW]	n_2 min-1	M_{2n} [Nm]	i	F_{r2} [N]	fs		
0.37	155	23	8.91	3460	7.00	FKA 38 AM71 FKA 38 B5T1	712-4 B5 712-4 B5T1
	173	20	7.96	3350	7.60		
	203	17	6.80	3190	8.60		
	217	16	6.37	3130	8.90		
	257	14	5.36	2970	10.0		
	10	340	131.87	6690	1.20	FKA 48 AM71 FKA 48 B5T2	712-4 B5 712-4 B5T2
	11	310	121.48	6960	1.30		
	13	265	104.37	7330	1.50		
	15	235	90.86	7580	1.70		
	16	220	85.12	7670	1.85		
	18	193	75.20	7810	2.10		
	20	179	69.84	7880	2.20		
	22	162	63.30	7960	2.50		
	8.6	410	104.37	5490	1.00	FKA 48 AM80 FKA 48 B5T2	801-6 B14a 801-6 B5T2
	9.9	355	90.86	6480	1.10		
	11	335	85.12	6730	1.20		
	12	295	75.20	7100	1.35		
	9.5	370	144.79	12900	2.20	FKA 68 AM71 FKA 68 B5T2	712-4 B5 712-4 B5T2
	11	315	123.54	13000	2.60		
	13	275	108.03	13000	3.00		
	15	230	90.04	13000	3.60		
	18	196	76.37	13000	4.20		
	7.3	485	123.54	12500	1.70	FKA 68 AM80 FKA 68 B5T2	801-6 B14a 801-6 B5T2
	8.3	425	108.03	12700	1.95		
	8.8	405	102.62	12800	2.00		
	10	355	90.04	13000	2.30		
	7.2	490	192.18	19700	3.00	FKA 78 AM71 FKA 78 B5T3	712-4 B5 712-4 B5T3
	7.7	460	179.37	19800	3.20		
	9.0	395	154.02	19900	3.90		
	5.8	605	154.02	19500	2.60	FKA 78 AM80 FKA 78 B5T3	801-6 B14a 801-6 B5T3
	6.7	530	135.28	19600	2.90		
	7.0	505	128.52	19700	3.10		
	7.9	445	113.56	19800	3.50		
	4.6	775	197.37	28900	3.50	FKA 88 AM80 FKA 88 B5T4	801-6 B14a 801-6 B5T4
	5.2	685	174.19	28900	4.00		

P_{1n} [kW]	n_2 min-1	M_{2n} [Nm]	i	F_{r2} [N]	fs		
0.55	27	192	49.79	4790	1.05	FKA 38 AM80 FKA 38 B5T1	801-4 B14a 801-4 B5T1
	31	172	44.46	4740	1.15		
	36	147	37.97	4640	1.35		
	38	137	35.57	4600	1.45		
	45	116	29.96	4470	1.75		
	47	111	28.83	4440	1.80		
	54	97	24.99	4320	2.10		
	58	90	23.36	4260	2.20		
	67	78	20.19	4130	2.40		
	79	66	17.15	3980	2.70		
	89	59	15.31	3880	3.00		
	104	51	13.08	3730	3.30		
	112	47	12.14	3660	3.40		
	130	41	10.49	3520	4.00		
	153	34	8.91	3370	4.70		
	171	31	7.96	3270	5.10		
	200	26	6.80	3130	5.70		
	214	25	6.37	3070	5.90		
	254	21	5.36	2920	6.80		
	342	15	3.98	2680	8.10		
	13	405	104.37	5880	1.00	FKA 48 AM80 FKA 48 B5T2	801-4 B14a 801-4 B5T2
	15	350	90.86	6550	1.15		
	16	330	85.12	6790	1.20		
	18	290	75.20	7150	1.40		
	19	270	69.84	7310	1.50		
	21	245	63.30	7500	1.65		
	24	220	56.83	7660	1.80		
	28	189	48.95	7830	2.10		
	30	178	46.03	7880	2.30		
	11	475	123.54	12500	1.70	FKA 68 AM80 FKA 68 B5T2	801-4 B14a 801-4 B5T2
	13	415	108.03	12800	1.95		
	15	350	90.04	13000	2.40		
	18	295	76.37	13000	2.80		
	7.3	720	123.54	11100	1.15	FKA 68 AM80 FKA 68 B5T2	802-6 B14a 802-6 B5T2
	8.3	630	108.03	11700	1.30		
	8.8	600	102.62	11900	1.35		
	10	525	90.04	12300	1.55		
	12	445	76.37	12600	1.85		
	8.8	595	154.02	19500	2.60	FKA 78 AM80 FKA 78 B5T3	801-4 B14a 801-4 B5T3
	10	520	135.28	19700	3.00		
	11	495	128.52	19700	3.10		
	12	440	113.56	19800	3.50		
	14	375	97.05	19900	4.10		
	5.8	900	154.02	18700	1.70	FKA 78 AM80 FKA 78 B5T3	802-6 B14a 802-6 B5T3
	6.7	790	135.28	19000	1.95		
	7.0	750	128.52	19100	2.10		
	7.9	665	113.56	19400	2.30		

P_{1n} = Rated Motor Power [kW]
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M_{2n}= Rated Output torque [Nm]
M_{2max} = Maximum permissible output torque [Nm]
F_{r2} = Permitted Overhung Load Output Side [N]
i = Gear unit Ratio
η% = Transmission Efficiency %
fs = Service Factor

P_{1n} [kW]	n_2 min-1	M_{2n} [Nm]	i	F_{r2} [N]	fs		
0.55	4.6	1150	197.37	28700	2.30	FKA 88 AM80 FKA 88 B5T4	802-6 B14a 802-6 B5T4
	5.2	1020	174.19	28800	2.70		
	5.5	960	164.34	28800	2.80		
	6.1	860	147.32	28900	3.10		
0.75	36	197	37.97	4150	1.00	FKA 38 AM80 FKA 38 B5T1	802-4 B14a 802-4 B5T1
	39	185	35.57	4140	1.10		
	46	156	29.96	4080	1.30		
	48	150	28.83	4060	1.35		
	55	130	24.99	3990	1.55		
	59	121	23.36	3950	1.60		
	68	105	20.19	3860	1.75		
	80	89	17.15	3750	2.00		
	90	80	15.31	3670	2.20		
	105	68	13.08	3550	2.40		
	114	63	12.14	3500	2.50		
	132	54	10.49	3380	2.90		
	155	46	8.91	3250	3.50		
	173	41	7.96	3160	3.80		
	203	35	6.80	3030	4.30		
	217	33	6.37	2980	4.40		
	257	28	5.36	2840	5.00		
	347	21	3.98	2620	6.00		
	18	390	75.20	6060	1.00	FKA 48 AM80 FKA 48 B5T2	802-4 B14a 802-4 B5T2
	20	365	69.84	6410	1.10		
	22	330	63.30	6790	1.20		
	24	295	56.83	7110	1.35		
	28	255	48.95	7430	1.55		
	30	240	46.03	7540	1.65		
	35	205	39.61	7740	1.95		
	39	184	35.39	7760	2.20		
	44	162	31.30	7550	2.50		
	11	640	123.54	11700	1.30	FKA 68 AM80 FKA 68 B5T2	802-4 B14a 802-4 B5T2
	13	560	108.03	12100	1.45		
	15	465	90.04	12600	1.75		
	18	395	76.37	12800	2.10		
	20	360	68.95	13000	2.30		
	23	315	60.66	13000	2.60		
	24	295	57.28	13000	2.80		
	9.0	800	154.02	19000	1.95	FKA 78 AM80 FKA 78 B5T3	802-4 B14a 802-4 B5T3
	10	700	135.28	19300	2.20		
	11	665	128.52	19300	2.30		
	12	590	113.56	19500	2.60		
	14	505	97.05	19700	3.10		

P_{1n} [kW]	n_2 min-1	M_{2n} [Nm]	i	F_{r2} [N]	fs		
0.75	6.7	1080	135.28	18000	1.45	802-4 B5T3 FKA 78 B5T3	90S-6 B14a 90S-6 B5T3
	7.0	1020	128.52	18200	1.50		
	7.9	900	113.56	18700	1.70		
	9.3	770	97.05	19100	2.00		
	10	710	88.97	19200	2.20		
	7.0	1020	197.37	28800	2.60	FKA 88 AM80 FKA 88 AM80	802-4 B14a 802-4 B5T4
	7.9	900	174.19	28800	3.00		
	8.4	850	164.34	28900	3.20		
	9.4	765	147.32	28900	3.50		
	5.2	1390	174.19	28600	1.95	FKA 88 AM90 FKA 88 B5T4	90S-6 B14a 90S-6 B5T4
	5.5	1310	164.34	28600	2.10		
	6.1	1170	147.32	28700	2.30		
	7.1	1010	126.91	28800	2.70		
1.1	56	188	24.99	3440	1.05	FKA 38 AM90 FKA 38 B5T1	90S-4 B14a 90S-4 B5T1
	60	175	23.36	3440	1.10		
	69	152	20.19	3420	1.20		
	82	129	17.15	3370	1.40		
	91	115	15.31	3330	1.50		
	107	98	13.08	3260	1.70		
	115	91	12.14	3220	1.75		
	133	79	10.49	3140	2.00		
	157	67	8.91	3040	2.40		
	176	60	7.96	2970	2.60		
	206	51	6.80	2870	2.90		
	220	48	6.37	2830	3.00		
	261	40	5.36	2720	3.50		
	352	30	3.98	2520	4.20		
	29	365	48.95	6360	1.10	FKA 48 AM90 FKA 48 B5T2	90S-4 B14a 90S-4 B5T2
	30	345	46.03	6610	1.15		
	35	295	39.61	7090	1.35		
	40	265	35.39	7090	1.50		
	45	235	31.30	6960	1.70		
	48	220	29.32	6890	1.80		
	54	194	25.91	6730	2.10		
	64	164	21.81	6510	2.40		
	72	147	19.58	6360	2.70		
	13	810	108.03	10400	1.00	FKA 68 AM90 FKA 68 B5T2	90S-4 B14a 90S-4 B5T2
	14	770	102.62	10700	1.05		
	16	675	90.04	11400	1.20		
	18	575	76.37	12000	1.45		
	20	515	68.95	12300	1.60		
	23	455	60.66	12600	1.80		
	24	430	57.28	12700	1.90		
	29	365	48.77	12900	2.20		
	32	335	44.32	13000	2.50		
	36	290	38.39	13000	2.80		

P_{1n} = Rated Motor Power [kW]
n_2 = Output Speed [Min^{-1}]
M_{2n}= Rated Output torque [Nm]
M_{2max} = Maximum permissible output torque [Nm]
F_{r2} = Permitted Overhung Load Output Side [N]
i = Gear unit Ratio
η% = Transmission Efficiency %
fs = Service Factor

P_{1n} [kW]	n_2 min-1	M_{2n} [Nm]	i	F_{r2} [N]	fs		
1.1	10	1020	135.28	18300	1.55	FKA 78 AM90 FKA 78 B5T3	90S-4 B14a 90S-4 B5T3
	11	960	128.52	18400	1.60		
	12	850	113.56	18800	1.80		
	14	730	97.05	19200	2.10		
	16	670	88.97	19300	2.30		
	18	585	78.07	19500	2.70		
	19	555	73.99	19600	2.80		
	6.8	1540	135.28	15400	1.00	FKA 78 AM90 FKA 78 B5T3	90L-6 B14a 90L-6 B5T3
	7.2	1470	128.52	15900	1.05		
	8.1	1300	113.56	17000	1.20		
	9.5	1110	97.05	17900	1.40		
	8.0	1310	174.19	28600	2.10	FKA 88 AM90 FKA 88 B5T4	90S-4 B14a 90S-4 B5T4
	8.5	1230	164.34	28700	2.20		
	9.5	1110	147.32	28700	2.40		
	11	950	126.91	28800	2.80		
	12	870	115.82	28800	3.10		
	5.3	1990	174.19	28100	1.35	FKA 88 AM90 FKA 88 B5T4	90L-6 B14a 90L-6 B5T4
	5.6	1880	164.34	28200	1.45		
	6.2	1680	147.32	28300	1.60		
	7.2	1450	126.91	28500	1.85		
1.5	82	174	17.15	2940	1.05	FKA 38 AM90 FKA 38 AM90	FKA 38 AM90 90L-4 B5T1
	92	156	15.31	2950	1.10		
	108	133	13.08	2930	1.25		
	116	123	12.14	2920	1.30		
	134	107	10.49	2880	1.50		
	158	91	8.91	2820	1.75		
	177	81	7.96	2770	1.90		
	207	69	6.80	2700	2.20		
	221	65	6.37	2670	2.20		
	263	55	5.36	2580	2.60		
	354	40	3.98	2420	3.10		
	36	400	39.61	5890	1.00	FKA 48 AM90 FKA 48 B5T2	90L-4 B14a 90L-4 B5T2
	40	360	35.39	6360	1.10		
	45	320	31.3	6310	1.25		
	48	300	29.32	6270	1.35		
	54	265	25.91	6190	1.50		
	65	220	21.81	6050	1.80		
	72	199	19.58	5950	2.00		
	84	171	16.86	5800	2.20		
	89	161	15.86	5730	2.40		
	103	139	13.65	5560	2.60		
	116	124	12.19	5430	2.80		
	120	120	11.77	5340	2.30		

P_{1n} [kW]	n_2 min-1	M_{2n} [Nm]	i	F_{r2} [N]	fs		
1.5	18	775	76.37	10700	1.05	FKA 68 AM90 FKA 68 B5T2	90L-4 B14a 90L-4 B5T2
	20	700	68.95	11300	1.15		
	23	615	60.66	11800	1.35		
	25	580	57.28	12000	1.40		
	29	495	48.77	12400	1.65		
	32	450	44.32	12600	1.80		
	37	390	38.39	12800	2.10		
	40	360	35.62	12900	2.30		
	47	305	30.22	13000	2.70		
	52	275	27.28	13000	3.00		
	59	245	24.00	13000	3.30		
	10	1370	135.28	16500	1.15	FKA 78 AM90 FKA 78 B5T3	FKA 78 B5T3 FKA 78 B5T3
	11	1310	128.52	16900	1.20		
	12	1150	113.56	17700	1.35		
	15	990	97.05	18400	1.55		
	16	900	88.97	18700	1.70		
	18	795	78.07	19000	1.95		
	19	750	73.99	19100	2.10		
	22	660	64.75	19400	2.40		
	24	595	58.34	19500	2.60		
	28	520	51.18	19700	3.00		
	31	460	45.16	19800	3.40		
	35	405	40.04	19800	3.80		
	9.5	1510	97.05	15700	1.05	FKA 78 AM100 FKA 78 B5T3	100L1-6 B14a 100L1-6 B5T3
	10	1390	88.97	16400	1.10		
	12	1220	78.07	17400	1.30		
	8.1	1770	174.19	28300	1.55	FKA 88 AM90 FKA 88 AM90	90L-4 B14a 90L-4 B5T4
	8.6	1670	164.34	28300	1.60		
	9.6	1500	147.32	28500	1.80		
	11	1290	126.91	28600	2.10		
	12	1180	115.82	28700	2.30		
	14	1040	102.71	28800	2.60		
	16	880	86.34	28800	3.10		
	6.2	2290	147.32	27800	1.20	FKA 88 AM100 FKA 88 AM100	100L1-6 B14a 100L1-6 B5T4
	7.2	1980	126.91	28100	1.35		
	7.9	1800	115.82	28200	1.50		
	9.0	1600	102.71	28400	1.70		
2.2	134	156	10.49	2430	1.00	FKA 38 AM100 FKA 38 AM100	100L1-4 B14a 100L1-4 B5T1
	158	133	8.91	2440	1.20		
	177	119	7.96	2430	1.30		
	207	101	6.80	2410	1.50		
	221	95	6.37	2400	1.55		
	263	80	5.36	2350	1.75		
	354	59	3.98	2250	2.10		

P_{1n} = Rated Motor Power [kW]
n_2 = Output Speed [Min^{-1}]
M_{2n}= Rated Output torque [Nm]
M_{2max} = Maximum permissible output torque [Nm]
F_{r2} = Permitted Overhung Load Output Side [N]
i = Gear unit Ratio
η% = Transmission Efficiency %
fs = Service Factor

P_{1n} [kW]	n_2 min-1	M_{2n} [Nm]	i	F_{r2} [N]	fs		
2.2	54	385	25.91	5260	1.05	FKA 48 AM100 FKA 48 B5T2	100L1-4 B14a 100L1-4 B5T2
	65	325	21.81	5260	1.25		
	72	290	19.58	5240	1.35		
	84	250	16.86	5190	1.50		
	89	235	15.86	5160	1.60		
	103	205	13.65	5070	1.75		
	116	182	12.19	4990	1.95		
	120	175	11.77	4890	1.60		
	133	157	10.56	4810	1.80		
	155	136	9.10	4690	2.10		
	29	725	48.77	11100	1.15	FKA 68 AM100 FKA 68 B5T2	FKA 68 B5T2 100L1-4 B5T2
	32	660	44.32	11500	1.25		
	37	570	38.39	12100	1.40		
	40	530	35.62	12300	1.55		
	47	450	30.22	12600	1.80		
	52	405	27.28	12800	2.00		
	59	360	24.00	13000	2.20		
	62	340	22.66	13000	2.30		
	73	285	19.30	13000	2.60		
	80	260	17.54	13000	2.80		
	93	225	15.19	13000	3.10		
	107	197	13.22	13000	3.40		
	113	186	12.48	13000	2.90		
	133	158	10.63	13000	3.20		
	146	144	9.66	13000	3.30		
	169	125	8.37	13000	3.50		
	194	109	7.28	12700	3.90		
	271	78	5.20	11700	4.50		
	15	1450	97.05	16100	1.05	FKA 78 AM100 FKA 78 B5T3	100L1-4 B14a 100L1-4 B5T3
	16	1330	88.97	16800	1.15		
	18	1160	78.07	17600	1.35		
	19	1100	73.99	17900	1.40		
	22	960	64.75	18400	1.60		
	24	870	58.34	18800	1.80		
	28	765	51.18	19100	2.00		
	31	675	45.16	19300	2.30		
	35	595	40.04	19500	2.60		
	40	525	35.20	19700	3.00		
	46	460	30.89	19800	3.40		
	48	435	29.27	19800	3.60		
	55	380	25.62	19900	4.10		

P_{1n} [kW]	n_2 min-1	M_{2n} [Nm]	i	F_{r2} [N]	fs		
2.2	9.6	2200	147.32	27900	1.25	FKA 88 AM100 FKA 88 B5T4	100L1-4 B14a 100L1-4 B5T4
	11	1890	126.91	28200	1.45		
	12	1730	115.82	28300	1.55		
	14	1530	102.71	28500	1.75		
	16	1290	86.34	28600	2.10		
	18	1180	79.34	28700	2.30		
	20	1050	70.46	28800	2.60		
	22	940	63.00	28800	2.90		
3.0	206	139	6.80	2080	1.10	FKA 38 AM100 FKA 38 B5T1	100L2-4 B14a 100L2-4 B5T1
	220	130	6.37	2080	1.10		
	261	110	5.36	2090	1.30		
	352	81	3.98	2050	1.55		
	72	400	19.58	4430	1.00	FKA 48 AM100 FKA 48 B5T2	100L2-4 B14a 100L2-4 B5T2
	83	345	16.86	4490	1.10		
	88	325	15.86	4500	1.15		
	103	280	13.65	4510	1.30		
	115	250	12.19	4490	1.40		
	119	240	11.77	4370	1.15		
	133	215	10.56	4350	1.30		
	154	186	9.10	4290	1.50		
	164	175	8.56	4270	1.55		
	190	151	7.36	4190	1.65		
	213	135	6.58	4120	1.80		
	241	119	5.81	4030	1.95		
	302	95	4.64	3860	2.20		
	36	785	38.39	10600	1.00	FKA 68 AM100 FKA 68 B5T2	100L2-4 B14a 100L2-4 B5T2
	39	730	35.62	11100	1.15		
	46	620	30.22	11800	1.35		
	51	560	27.28	12100	1.45		
	58	490	24.00	12500	1.65		
	62	465	22.66	12600	1.70		
	73	395	19.30	12800	1.95		
	80	360	17.54	13000	2.10		
	92	310	15.19	13000	2.30		
	106	270	13.22	13000	2.50		
	112	255	12.48	13000	2.10		
	132	220	10.63	13000	2.30		
	145	198	9.66	13000	2.40		
	19	1510	73.99	15600	1.00	FKA 78 AM100 FKA 78 B5T3	100L2-4 B14a 100L2-4 B14a
	22	1330	64.75	16800	1.15		
	24	1190	58.34	17500	1.30		
	27	1050	51.18	18100	1.50		
	31	920	45.16	18600	1.70		
	35	820	40.04	18900	1.90		
	40	720	35.20	19200	2.20		
	45	630	30.89	19400	2.50		

P_{1n} = Rated Motor Power [kW]
n_2 = Output Speed [Min^{-1}]
M_{2n}= Rated Output torque [Nm]
M_{2max} = Maximum permissible output torque [Nm]
F_{r2} = Permitted Overhung Load Output Side [N]
i = Gear unit Ratio
η% = Transmission Efficiency %
fs = Service Factor

P_{1n} [kW]	n_2 min-1	M_{2n} [Nm]	i	F_{r2} [N]	fs		
3.0	11	2600	126.91	27400	1.05	FKA 88 AM100 FKA 88 B5T4	100L2-4 B14a 100L2-4 B5T4
	12	2370	115.82	27700	1.15		
	14	2100	102.71	28000	1.30		
	16	1770	86.34	28300	1.55		
	18	1620	79.34	28400	1.65		
	20	1440	70.46	28500	1.85		
	22	1290	63.00	28600	2.10		
	25	1160	56.64	28700	2.30		
	28	1010	49.16	28800	2.70		
	32	900	44.02	28800	2.90		
	38	745	36.52	28400	3.40		
4.0	47	810	30.22	10400	1.00	FKA 68 AM112 FKA 68 B5T2	112M-4 B14a 112M-4 B5T2
	52	735	27.28	11000	1.10		
	59	645	24.00	11600	1.25		
	63	610	22.66	11800	1.30		
	74	520	19.30	13000	1.45		
	81	470	17.54	12500	1.55		
	94	410	15.19	12800	1.70		
	107	355	13.22	13000	1.90		
	114	335	12.48	13000	1.60		
	134	285	10.63	13000	1.75		
	147	260	9.66	12900	1.85		
	170	225	8.37	12500	1.95		
	195	196	7.28	12100	2.10		
	273	140	5.20	11200	2.50		
	24	1570	58.34	15200	1.00	FKA 78 AM112 FKA 78 B5T3	112M-4 B14a 112M-4 B5T3
	28	1380	51.18	16500	1.15		
	31	1210	45.16	17400	1.30		
	35	1080	40.04	18000	1.45		
	37	1030	38.39	18200	1.45		
	40	950	35.20	18500	1.65		
	46	830	30.89	18900	1.85		
	49	785	29.27	19000	1.95		
	55	690	25.62	19300	2.30		
	62	620	23.08	19500	2.50		
	70	545	20.25	19600	2.80		
	14	2760	102.71	27200	1.00	FKA 88 AM112 FKA 88 B5T4	112M-4 B14a 112M-4 B14a
	16	2320	86.34	27700	1.15		
	18	2130	79.34	27900	1.25		
	20	1900	70.46	28200	1.40		
	23	1690	63.00	28300	1.60		
	25	1520	56.64	28500	1.75		
	29	1320	49.16	28600	2.00		
	32	1180	44.02	28300	2.20		
	39	980	36.52	27300	2.50		

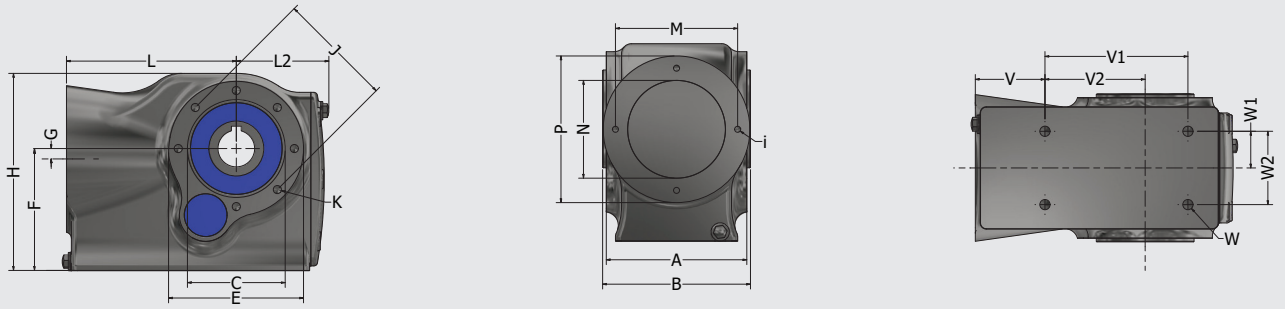
P_{1n} [kW]	n_2 min-1	M_{2n} [Nm]	i	F_{r2} [N]	fs		
5.5	74	710	19.30	11200	1.05	FKA 68 AM132 FKA 68 B5T2	132S-4 B14a 132S-4 B5T2
	82	645	17.54	11600	1.15		
	94	560	15.19	12100	1.25		
	108	485	13.22	12500	1.40		
	115	460	12.48	12600	1.15		
	135	390	10.63	12400	1.30		
	148	355	9.66	12200	1.35		
	171	305	8.37	11900	1.45		
	196	265	7.28	11600	1.55		
	275	191	5.20	10800	1.85		
	36	1470	40.04	15900	1.05	FKA 78 AM132 FKA 78 B5T3	132S-4 B14a 132S-4 B5T3
	46	1130	30.89	17800	1.35		
	49	1070	29.27	18000	1.45		
	56	940	25.62	18500	1.65		
	62	850	23.08	18800	1.85		
	71	745	20.25	19100	2.00		
	80	655	17.87	19400	2.20		
	90	580	15.84	19200	2.40		
	106	495	13.52	18600	2.70		
	116	455	12.36	17900	2.20		
	132	400	10.84	17400	2.50		
	20	2590	70.46	27400	1.05	FKA 88 AM132 FKA 88 B5T4	132S-4 B14a 132S-4 B5T4
	23	2310	63.00	27500	1.15		
	25	2080	56.64	27300	1.30		
	29	1810	49.16	26900	1.50		
	32	1620	44.02	26500	1.60		
	39	1340	36.52	25800	1.85		
	46	1150	31.39	25200	2.30		
	51	1020	27.88	24700	2.50		
7.5	46	1550	30.89	15400	1.00	FKA 78 AM132 FKA 78 B5T3	132M-4 B14a 132M-4 B5T3
	49	1470	29.27	16000	1.05		
	56	1280	25.62	17000	1.20		
	62	1160	23.08	17700	1.35		
	71	1010	20.25	18300	1.50		
	80	890	17.87	18600	1.60		
	90	795	15.84	18200	1.75		
	106	675	13.52	17800	2.00		
	116	620	12.36	17000	1.60		
	132	545	10.84	16700	1.80		
	150	480	9.56	16300	1.95		
	169	425	8.48	15900	2.10		
	198	365	7.24	15400	2.30		

P_{1n} = Rated Motor Power [kW]
n_2 = Output Speed [Min^{-1}]
M_{2n}= Rated Output torque [Nm]
M_{2max} = Maximum permissible output torque [Nm]
F_{r2} = Permitted Overhung Load Output Side [N]
i = Gear unit Ratio
η% = Transmission Efficiency %
fs = Service Factor

P_{1n} [kW]	n_2 min-1	M_{2n} [Nm]	i	F_{r2} [N]	fs		
7.5	29	2460	49.16	24200	1.10	FKA 88 AM132 FKA 88 B5T4	132M-4 B14a 132M-4 B5T4
	32	2200	44.02	24200	1.20		
	39	1830	36.52	23900	1.35		
	46	1570	31.39	23500	1.70		
	51	1400	27.88	23200	1.85		
	57	1250	24.92	22800	2.00		
	64	1120	22.41	22500	2.10		
	74	970	19.45	21900	2.40		
	82	870	17.42	21500	2.50		
	89	800	16.00	20600	2.30		
	99	725	14.45	20700	2.90		

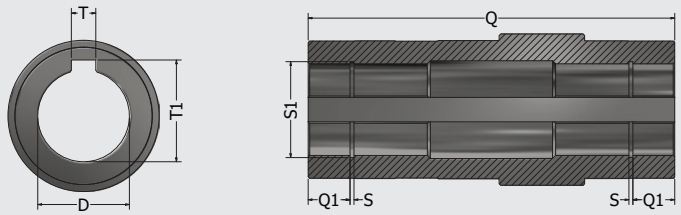
General Dimensions

General Dimensions FKA B5T



Gearbox	A	B	C	E	F	G	H	i	J	K	L	L2	M	N	P	V	V1	V2	W	W1	W2
FKA 38 B5T1	115	121	80	110	100	8.5	161.5	M6	95	M8	139	76	100	80	120	57	117	82	M10	30	60
FKA 48 B5T2	144	150	95	140	112	7.2	185	M8	115	M8	166	86	130	110	160	66	140	100	M10	35	70
FKA 68 B5T2	173	179	110	160	140	20	226	M8	130	M10	179	100.5	130	110	160	69	152	110	M12	44	88
FKA 78 B5T3	202	208	118	170	179.7	31.35	280	M12	140	M12	202	111.5	165	130	200	80	170	122	M16	51	102
FKA 88 B5T4	232	240	150	215	212	26.1	342	M12	178	M16	257	136.5	215	180	250	97	225	160	M16	59	118

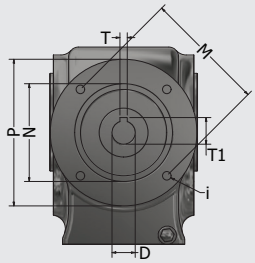
Hollow Shaft Dimensions FKA

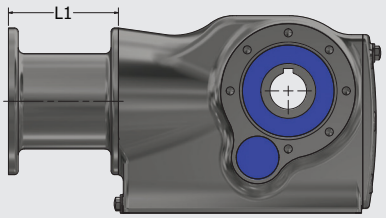


Gearbox	D	T	T1	Q	Q1	S	S1
FKA 38	30	8	33.3	120	13.7	1.3	31.4
FKA 48	35	10	38.3	150	16.7	1.6	37
FKA 68	40	12	43.3	179	22.5	1.85	42.5
FKA 78	50	14	53.8	208	26	2.65	53
FKA 88	60	18	64.4	240	27.7	2.3	63.2

Different hollow shaft dimensions possible on request

FKA AM Input Dimensions





FKA 38 AM	D	i	L1	M	N	P	T	T1
FKA 38 AM63	11	9	90	115	95	140	4	12.8
FKA 38 AM71	14	9	90	130	110	160	5	16.3
FKA 38 AM80	19	7	90	100	80	120	6	21.8
FKA 38 AM90	24	9	90	115	95	140	8	27.3
FKA 38 AM100	28	9	90	130	110	160	8	31.3

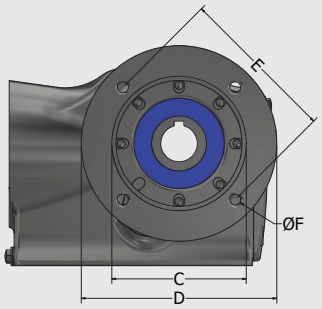
FKA 78 AM	D	i	L1	M	N	P	T	T1
FKA 78 AM71	14	9	105	130	110	160	5	16.3
FKA 78 AM80	19	9	105	100	80	120	6	21.8
FKA 78 AM90	24	9	105	115	95	140	8	27.3
FKA 78 AM100	28	9	105	130	110	160	8	31.3
FKA 78 AM112	28	9	105	130	110	160	8	31.3
FKA 78 AM132	38	11	125	165	130	200	10	41.3

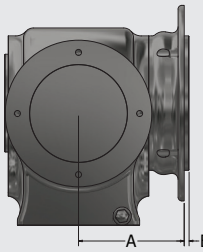
FKA 48 AM	D	i	L1	M	N	P	T	T1
FKA 48 AM63	11	9	90	115	95	140	4	12.8
FKA 48 AM71	14	9	90	130	110	160	5	16.3
FKA 48 AM80	19	7	90	100	80	120	6	21.8
FKA 48 AM90	24	9	90	115	95	140	8	27.3
FKA 48 AM100	28	9	90	130	110	160	8	31.3

FKA 88 AM	D	i	L1	M	N	P	T	T1
FKA 88 AM80	19	9	105	100	80	120	6	21.8
FKA 88 AM90	24	9	105	115	95	140	8	27.3
FKA 88 AM100	28	9	105	130	1110	160	8	31.3
FKA 88 AM112	28	9	105	130	110	160	8	31.3
FKA 88 AM132	38	11	125	165	130	200	10	41.3

FKA 68 AM	D	i	L1	M	N	P	T	T1
FKA 68 AM63	11	9	90	115	95	140	4	12.8
FKA 68 AM71	14	9	90	130	110	160	5	16.3
FKA 68 AM80	19	7	90	100	80	120	6	21.8
FKA 68 AM90	24	9	90	115	95	140	8	27.3
FKA 68 AM100	28	9	90	130	110	160	8	31.3
FKA 68 AM112	28	9	90	130	110	160	8	31.3
FKA 68 AM132	38	11	125	165	130	200	10	41.3

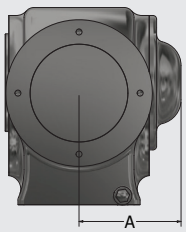
Output Flanges

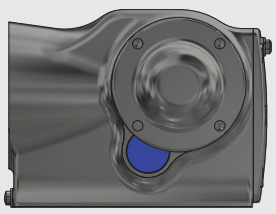




Gearbox	Flange Type	A	B	C	D	E	F
FKA 38	SS 095 FL160	86.5	4	110	160	130	9
FKA 48	SS 115 FL200	100	3.5	130	200	165	11
FKA 68	SS 130 FL250	113	4	180	250	215	13.5
FKA 78	SS 140 FL250	142	4	180	250	215	13.5
	SS 140 FL300	142	4	230	300	265	13.5
FKA 88	SS 178 FL350	156	5	250	350	300	17.5

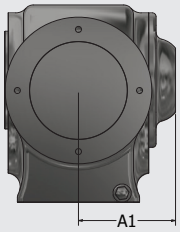
Closed Cover

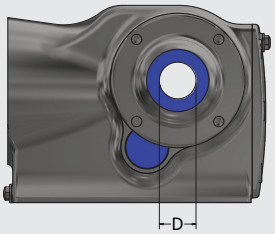




Gearbox	Closed Cover	A
FKA 38	SS 095 CC	83.5
FKA 48	SS 115 CC	100
FKA 68	SS 130 CC	114.5
FKA 78	SS 140 CC	130
FKA 88	Under Development	

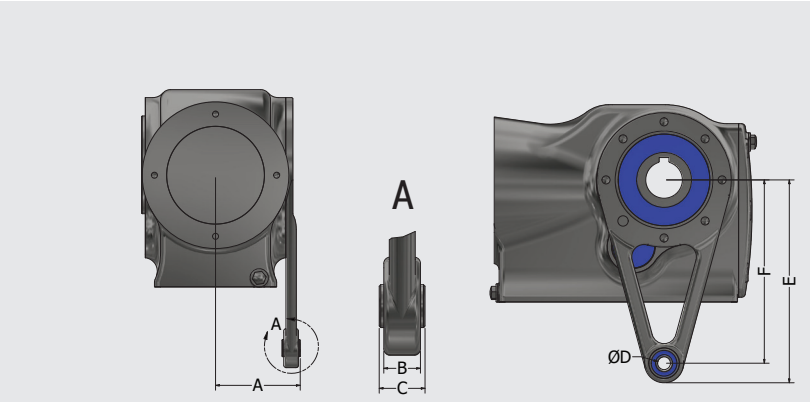
Open Cover





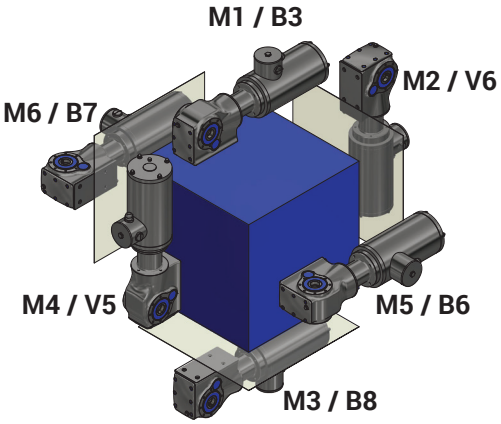
Gearbox	Open Cover	A1	D
FKA 38	SS 095 CO30	79.5	30
FKA 48	SS 115 CO35	100	35
FKA 68	SS 130 CO40	114.5	40
FKA 78	Under Development		
FKA 88	Under Development		

Torque Arm

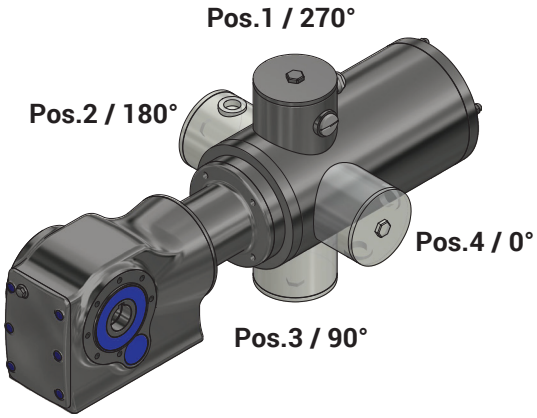


Gearbox	Torque Arm	A	B	C	D	E	F
FKA 38	SS 095 MS L130S	69.3	12	15	10.5	146	130
	SS 095 MS L150	69.3	12	15	10.5	166	150
FKA 48	SS 115 MS L160S	89.3	23	26	20.5	185	160
	SS 115 MS L200	89.3	23	26	20.5	225	200
FKA 68	SS 130 MS L200	105	23	26	20.5	225	200
FKA 78	SS 140 MS	Under Development					
FKA 88	SS 178 MS	Under Development					

Mounting Positions



Terminal Box Positions



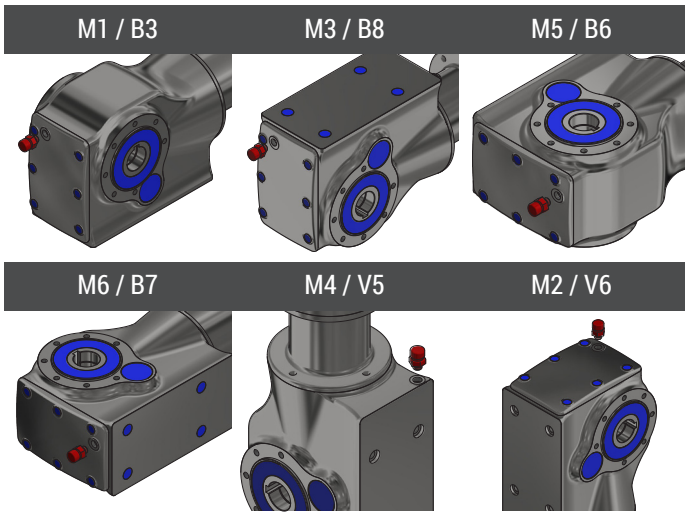
Lubrication Quantity

Oil Quantity in ML.	Mounting Position					
Gearbox	M1 (B3)	M3 (B8)	M6 (B7)	M5 (B6)	M4 (V5)	M2 (V6)
FKA 38	900	900	1000	1000	1400	1000
FKA 48	2000	2000	2000	2000	2700	2300
FKA 68	2900	3750	3200	3200	4100	3100
FKA 78	4000	5000	3750	3750	6000	3750
FKA 88	under development	under development	under development	under development	under development	under development

Lubrication Type

Lubrication Brand	Lubrication Type	
Matrix	Foodmax 460	Standard
Castrol	Optileb GT 460	Alternative
Bechem	Berusynth 460H1	Alternative
Shell	Casida Fluid GL460	Alternative
Mobil	SHC Cibus 460	Alternative

Debreather Positions



Weight

Gearbox B5T versions	Weight
FKA 38 B5T1	11.5 Kg
FKA 48 B5T2	16.0 Kg
FKA 68 B5T2	25.5 Kg
FKA 78 B5T3	43.0 Kg
FKA 88 B5T4	under development

Gearbox AM versions	Weight
FKA 38 AM..	15.0 Kg
FKA 48 AM..	20.0 Kg
FKA 68 AM..	30 Kg
FKA 78 AM..	50 KG
FKA 88 AM..	under development

Dertec
Nijverheidsweg 41
2215 MH Voorhout
The Netherlands

T +31 71 409 24 09
E info@dertec.com

www.dertec.com

Dertec-05-2020