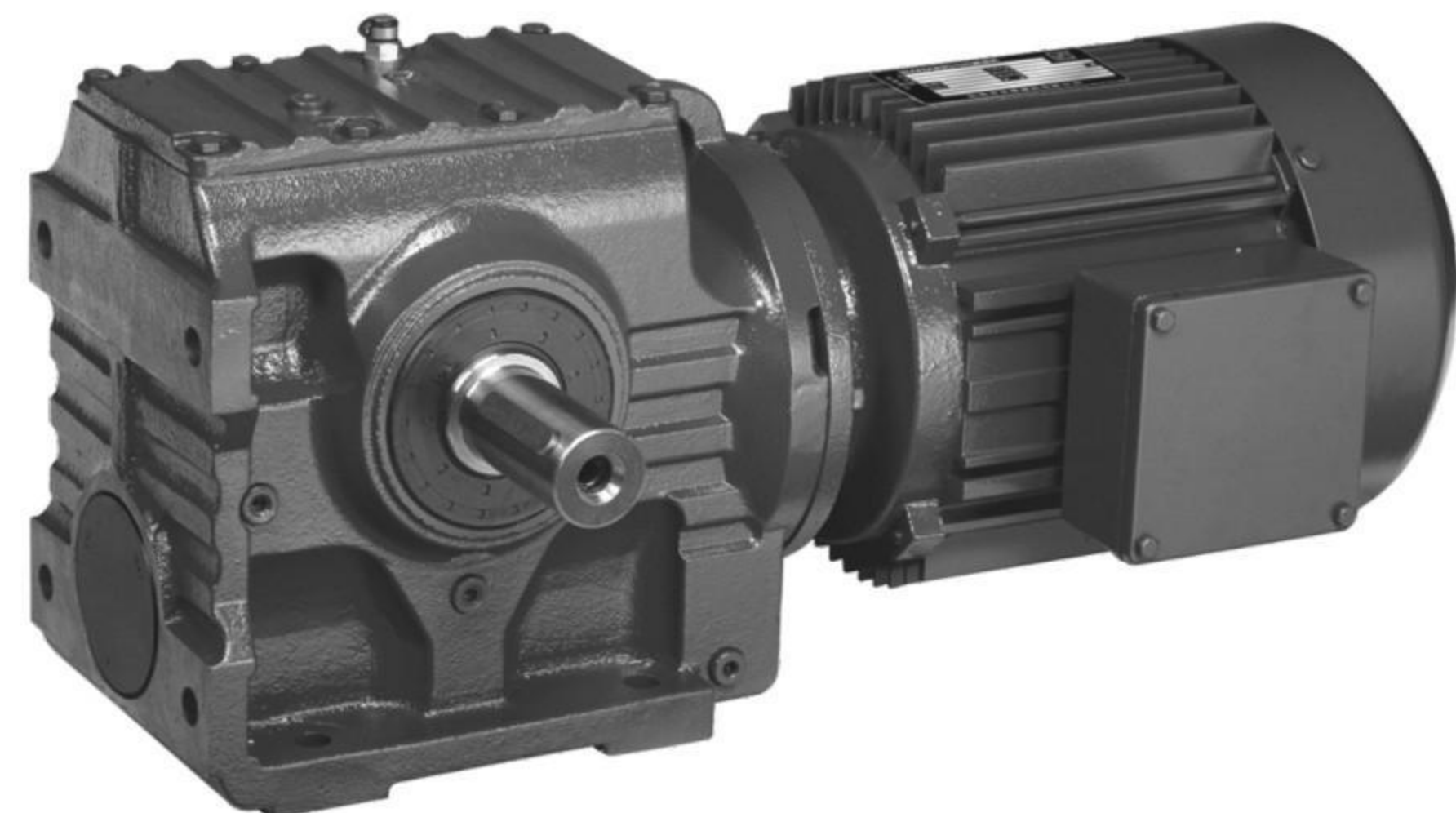


S系列齿轮减速电机  
S series Geared Motor



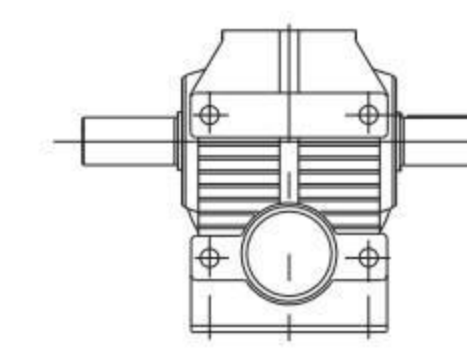
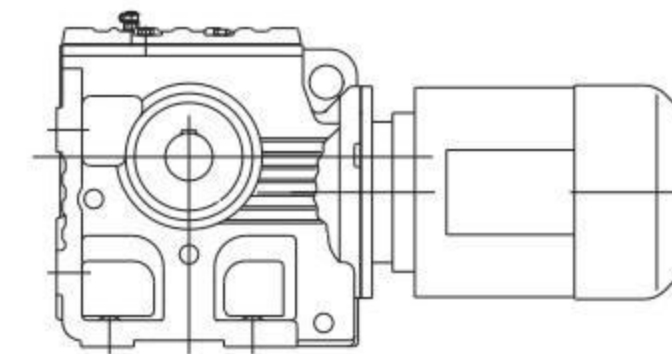
8. BS 斜齿轮 — 蜗轮蜗杆减速电机  
BS Helical – Worm Geared Motor

8.1 设计方案

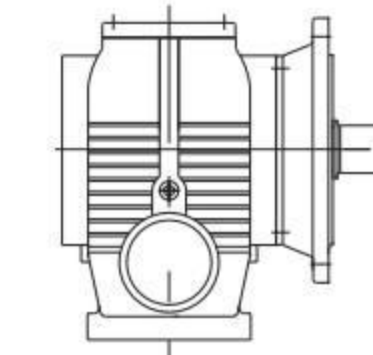
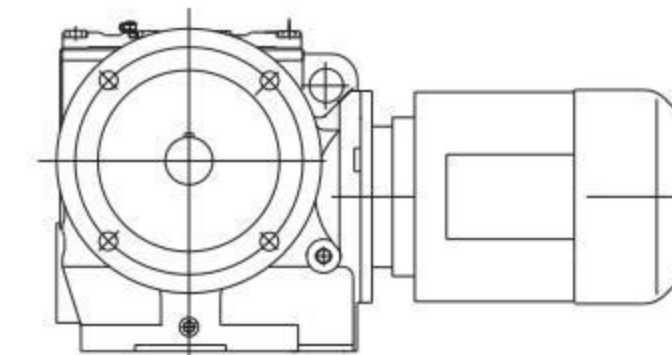
8.1 Versions of DAIFUSI geared motors

斜齿轮 — 蜗轮蜗杆齿轮减速电机有以下设计方案：

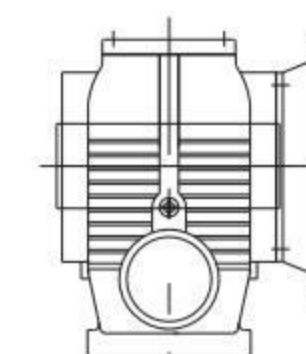
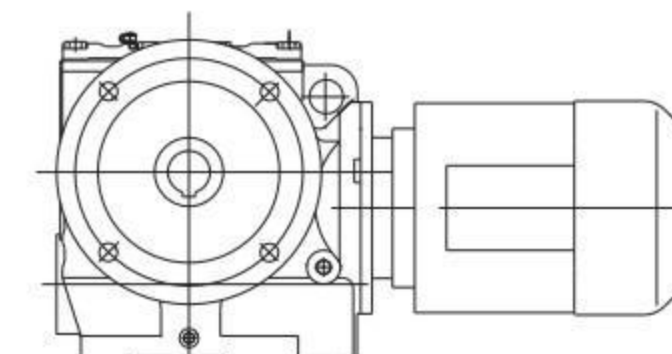
The following types of helical – worm gearmotor can be supplied:



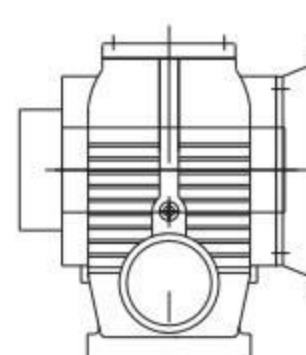
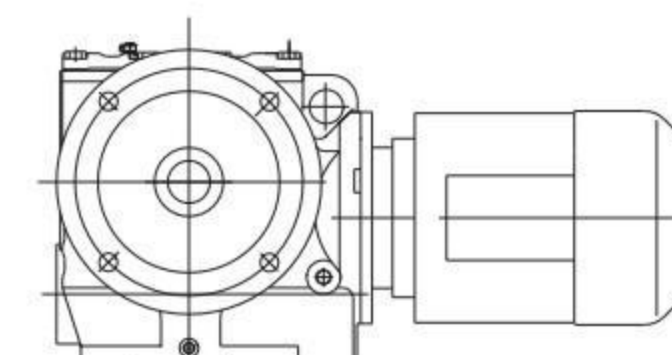
BS..D..  
底脚安装斜齿轮—蜗轮蜗杆齿轮减速电机  
Foot – mounted helical – worm gearmotor



BSF..D..  
法兰安装斜齿轮—蜗轮蜗杆齿轮减速电机  
Helical – worm gearmotor flange – mounted version.



BSAF..D..  
B5 法兰空心轴安装斜齿轮—蜗轮蜗杆齿轮减速电机  
Helical – worm gearmotor in B5 flange – mounted version with hollow shaft.



BSHF..D..  
B5 法兰空心轴锁紧盘安装斜齿轮—蜗轮蜗杆齿轮减速电机  
Helical – worm gearmotor in B5 flange – mounted version with hollow shaft and shrink disk.



BR..

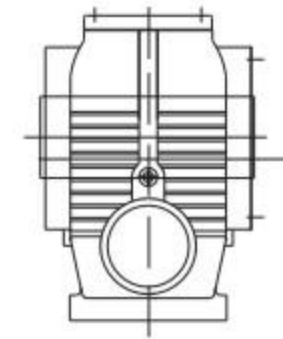
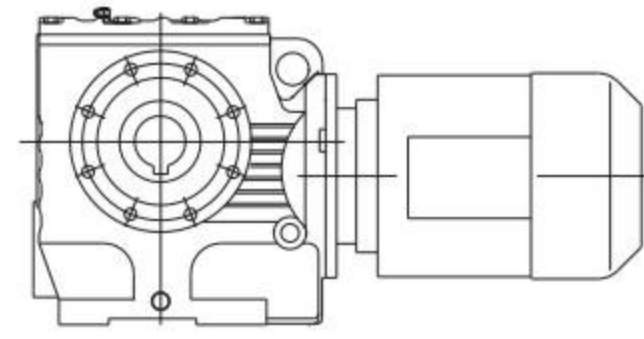
BF..

BK..

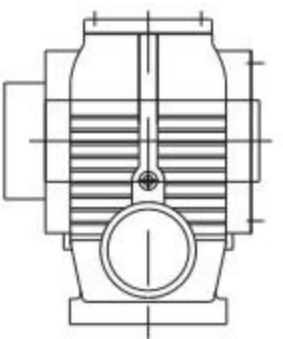
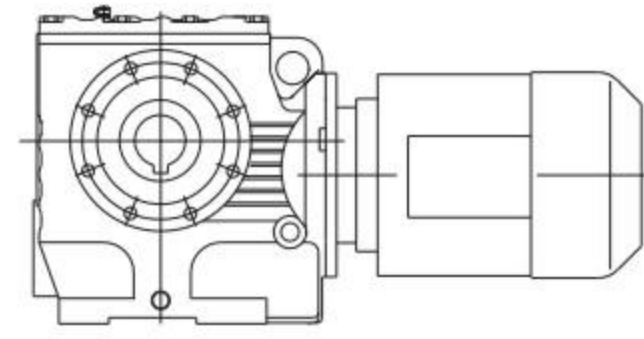
BS..

H..

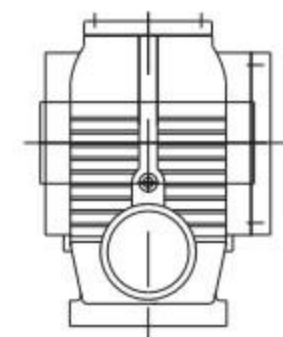
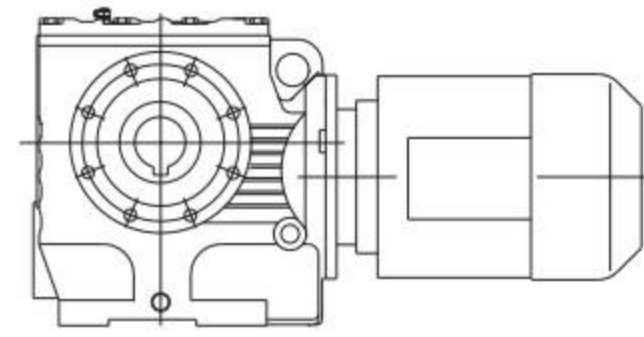
B..



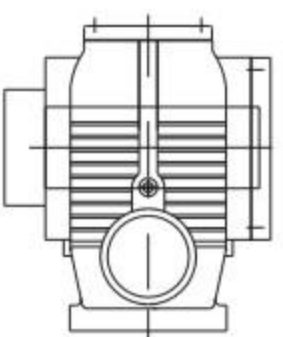
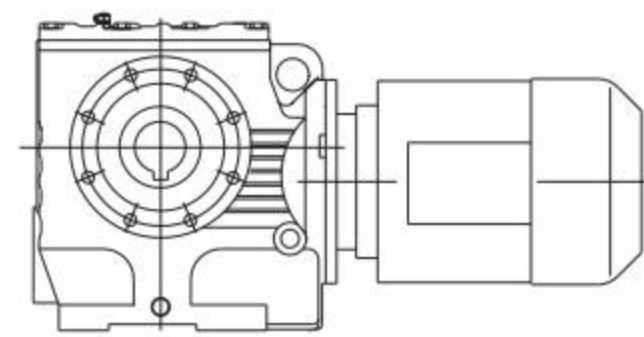
**BSA..D..**  
空心轴安装斜齿轮-蜗轮蜗杆齿轮减速电机  
Helical – worm gearmotor with hollow shaft.



**BSH..D..**  
空心轴锁紧盘安装斜齿轮-蜗轮蜗杆齿轮减速电机  
Helical – worm gearmotor with hollow shaft and shrink disk.



**BSAZ..D..**  
B14 法兰空心轴安装斜齿轮-蜗轮蜗杆齿轮减速电机  
Helical – worm gearmotor in B14 flange – mounted version with hollow shaft.



**BSHZ..D..**  
B14 法兰空心轴锁紧盘安装斜齿轮-蜗轮蜗杆齿轮减速电机  
Helical – worm gearmotor in B14 flange – mounted version with hollow shaft and shrink disk.

## 8.2 可行的组合方式 8.2 Type of Combination

以下是斜齿轮蜗杆减速与交流（带制动）电机的组合列表。表中给出了每种组合的速比范围。  
The below is combination table between gear box and electro motor in each list the ratio range.

减速器型号 Gear unit size	级 Stages	D63 D71	D80	D90	D100	D112	D132S	D132M
BS/SF/SA/SAF37	2	6.80-18.24 19.89-51.30 55.93-157.43	6.80-15.53 19.13 22.50-43.68 53.83 63.33-122.94	6.80-13.39 19.13 22.50-37.66 53.83 63.33-106.00				
BS/SF/SA/SAF47	2	7.28-17.62 20.33-54.59 63.80-201.00	7.28-17.62 20.33-54.59 67.20 71.75-158.12	7.28-19.54 23.20-47.32 56.61 67.20 71.75-137.05	7.28-14.24 19.54 23.20-38.23 56.61 67.20 71.75-110.73			
BS/SF/SA/SAF57	2	7.28-17.62 20.33-54.59 63.80-201.00	7.28-17.62 20.33-54.59 67.20 71.75-158.12	7.28-19.54 23.20-47.32 56.61 67.20 71.75-137.05	7.28-14.24 19.54 23.20-38.23 56.61 67.20 71.75-110.73			
BS/SF/SA/SAF67	2	11.03-17.28 20.37-23.22 24.44 29.63-54.70 62.35-65.63 75.06 85.83-217.41	8.69-17.28 20.37-23.22 24.44-54.70 62.35-65.63 75.06 85.83-217.41	7.56-17.28 20.37-23.22 24.44-54.70 62.35-65.63 78.00-190.1	7.56-17.28 20.37 23.33 26.93-54.70 67.57 78.00-158.45	7.56-20.30 23.33 26.93-46.40 58.80 67.57 78.00-134.40	7.56-13.73 20.30 23.33 26.93-36.85 58.80 67.57 78.00-106.75	7.56-13.73 20.30 23.33 26.93-36.85 58.80 67.57 78.00-106.75
BS/SF/SA/SAF77	2	15.28-18.42 20.99 22.89 35.94-53.87 63.03 71.33-75.09 107.83-256.47	12.07-18.42 20.99 22.89 28.41-53.87 63.03 71.33-75.09 85.22-256.47	8.06-18.42 20.99 22.89-75.09 55.22-225.26	8.06-18.42 20.99 22.89-66.67 75.20-189.09	8.06-18.42 20.99 22.89-56.92 66.67 75.20-161.60	8.06-18.97 22.22 25.07-43.33 56.92 66.67 75.20-130.00	8.06-18.97 22.22 25.07-43.33 56.92 66.67 75.20-130.00
BS/SF/SA/SAF87	2		17.49-19.70 21.43 25.50 39.10-57.00 64.27-70.43 81.76 91.20	12.21-19.70 21.43 25.50-57.00 64.27-70.43 81.76-288.00	9.07-19.70 21.43 25.50-57.00 64.27-86.15 99.26-258.18	9.07-19.70 21.43 25.50-57.00 77.14 86.15 99.26-222.40	7.88-19.70 21.43 25.50-64.00 77.14 86.15 99.26-180.00	7.88-19.70 21.43 25.50-64.00 77.14 86.15 99.26-180.00
BS/SF/SA/SAF97	2		23.59 26.39 49.87-60.59 71.43 80.85 161.74-286.40	17.05-23.59 26.39 36.05-60.59 71.43 80.85 116.92-286.40	13.07-23.859 26.39 32.60-60.59 71.43 80.85-286.40	13.07-23.59 26.39 32.60-60.59 71.43 80.85-286.40	8.26-23.59 26.39 32.60-78.26 89.60-231.67	8.26-23.59 26.39 32.60-78.26 89.60-231.67

减速器型号 Gear unit size	级 Stages	D132ML	D160M	D160L	D180		
BS/SF/SA/SAF77	2	8.06-13.76 18.97 22.22 25.07-32.38 56.92 66.67 75.20-97.14	8.06-13.76 18.97 22.22 25.07-32.38 56.92 66.67 75.20-97.14				
BS/SF/SA/SAF87	2	7.88-20.27 24.43 27.28-44.03 64.00 77.14 86.15 99.26-139.05	7.88-20.27 24.43 27.28-44.03 64.00 77.14 86.15 99.26-139.05	7.88-20.27 24.43 27.28-44.03 64.00 77.14 86.15 99.26-139.05	7.88-15.64 20.27 24.43 27.28-34.96 64.00 77.14 86.15 99.26-110.40		
BS/SF/SA/SAF97	2	8.26-23.59 26.39 32.60-55.79 65.45 78.26 89.60-180.95	8.26-23.59 26.39 32.60-55.79 65.45 78.26 89.60-180.95	8.26-23.59 26.39 32.60-55.79 65.45 78.26 89.60-180.95	8.26-21.23 24.13 27.63-44.89 65.45 78.26		

BR..

BF..

BK..

BS..

H..

B..



### 8.3 速比与最大扭矩 8.3 Ratio and Max. Torque BS37-57 $n_e=1400$ 1/min

BS37 90Nm				
i	$n_a$ [1/min]	$M_{amax}$ [Nm]	$F_{Ra}$ [N]	AD
157.43	8.9	92	3000	
144.40	9.7	92	3000	
122.94	11	91	3000	
106.00	13	88	3000	
98.80	14	87	3000	AD <sub>1</sub>
86.36	16	86	3000	
80.96	17	85	3000	
71.44	20	84	3000	
63.33	22	82	3000	
55.93	25	81	3000	
53.83	26	80	3000	AD <sub>2</sub>
51.30	27	81	3000	
43.68	32	81	3000	
37.66	37	79	3000	
35.10	40	78	3000	AD <sub>1</sub>
30.68	46	76	2870	
28.76	49	75	2800	
25.38	55	74	2660	
22.50	62	73	2530	
19.89	70	52	2470	
19.13	73	71	2380	AD <sub>2</sub>
18.24	77	52	2380	AD <sub>1</sub>
15.53	90	50	2240	
13.39	105	49	2110	
12.48	112	48	2060	
10.91	128	48	1940	
10.23	137	47	1900	AD <sub>2</sub>
9.02	155	46	1810	
8.00	175	45	1730	
6.80	206	43	1630	

BS47 170Nm				
i	$n_a$ [1/min]	$M_{amax}$ [Nm]	$F_{Ra}$ [N]	AD
201.00	7.0	170	5340	
184.80	7.6	170	5340	
158.12	8.9	170	5340	
137.05	10	168	5350	
128.10	11	168	5350	
110.73	13	168	5350	AD <sub>1</sub>
94.08	15	168	5350	
84.00	17	167	5360	
71.75	20	167	5360	
69.39	20	155	5370	
67.20	21	167	5360	
63.80	22	155	5370	
56.61	25	165	5320	AD <sub>2</sub>
54.59	26	155	5150	
47.32	30	155	4850	AD <sub>1</sub>
44.22	32	155	4710	
38.23	37	155	4430	
32.48	43	155	4120	
29.00	48	155	3920	
24.77	57	155	3650	
23.20	60	152	3570	
20.33	69	110	3370	
19.54	72	144	3370	AD <sub>2</sub>
17.62	79	110	3160	
16.47	85	110	3060	
14.24	98	110	2850	
12.10	116	109	2650	
10.80	130	109	2500	
9.23	152	109	2310	
8.64	162	109	2230	
7.28	192	103	2110	

BS57 300Nm				
i	$n_a$ [1/min]	$M_{amax}$ [Nm]	$F_{Ra}$ [N]	AD
201.00	7.0	295	7130	
184.80	7.6	295	7130	
158.12	8.9	295	7130	
137.05	10	295	7130	AD <sub>1</sub>
128.10	11	295	7130	
110.73	13	295	7130	
94.08	15	295	7130	
84.00	17	295	7130	
71.75	20	290	7170	
69.39	20	245	7520	
67.20	21	285	7220	
63.80	22	245	7520	
56.61	25	265	7370	
54.59	26	245	7520	
47.32	30	245	7520	
44.22	32	245	7520	
38.23	37	245	7320	
32.48	43	245	6840	
29.00	48	245	6520	AD <sub>2</sub>
24.77	57	245	6100	
23.20	60	245	5930	
20.33	69	168	5690	
19.54	72	215	5720	
17.62	79	168	5350	
16.47	85	168	5200	
14.24	98	169	4860	
12.10	116	169	4520	
10.80	130	169	4290	
9.23	152	169	3990	
8.64	162	166	3900	
7.28	192	146	3790	

### BS67-87 $n_e=1400$ 1/min

BS67 520Nm				
i	$n_a$ [1/min]	$M_{amax}$ [Nm]	$F_{Ra}$ [N]	AD
217.41	6.4	520	8680	
190.11	7.4	520	8680	
180.60	7.8	520	8680	
158.45	8.8	520	8680	
134.40	10	520	8680	
121.33	12	520	8680	
106.75	13	520	8680	AD <sub>2</sub>
100.80	14	520	8680	
85.83	16	520	8680	
78.00	18	520	8680	
75.06	19	480	9020	
67.57	21	520	8680	
65.63	21	480	9020	
62.35	22	480	9020	
58.80	24	500	8850	AD <sub>3</sub>
54.70	26	480	8670	
46.40	30	480	8060	
41.89	33	480	7690	
36.85	38	480	7250	
34.80	40	480	7060	
29.63	47	480	6540	AD <sub>2</sub>
26.93	52	480	6240	
24.44	57	340	6040	
23.33	60	480	5810	
23.22	60	340	5890	
20.37	69	340	5520	
20.30	69	425	5760	AD <sub>3</sub>
17.28	81	340	5080	
15.60	90	340	4820	AD <sub>2</sub>
13.73	102	340	4510	
12.96	108	340	4310	
11.03	127	340	3660	
10.03	140	340	3290	AD <sub>3</sub>
8.69	161	335	2860	
7.56	185	295	3220	

BS77 1270Nm				
i	$n_a$ [1/min]	$M_{amax}$ [Nm]	$F_{Ra}$ [N]	AD
256.47	5.5	1270	11800	
225.26	6.2	1270	11800	
214.00	6.5	1270	11800	
189.09	7.4	1270	11800	
161.60	8.7	1260	11900	
148.15	9.4	1240	12000	
130.00	11	1210	12300	
123.20	11	1200	12400	
107.83	13	1170	12600	
97.14	14	1140	12900	AD <sub>2</sub>
85.22	16	1100	13200	
75.20	19	1070	13400	
75.09	19	1100	13200	
71.33	20	1100	13200	
66.67	21	1040	13600	
63.03	22	1100	12800	
56.92	25	990	13300	
53.87	26	1100	11900	
49.38	28	1100	11500	
43.33	32	1100	10800	
41.07	34	1100	10500	
35.94	39	1100	9850	
32.38	43	1090	9400	
28.41	49	1050	8970	
25.07	56	1020	8550	
22.89	61	705	7440	
22.22	63	980	8220	
20.99	67	705	6820	AD <sub>3</sub>
18.97	74	930	7800	
18.42	76	705	5920	
17.45	80	710	5470	
15.28	92	710	4610	
13.76	102	710	3960	
12.07	116	720	3000	
10.65	131	720	2280	
9.44	148	725	1040	AD <sub>4</sub>
8.06	174	680	1160	

BS87 2280Nm				
i	$n_a$ [1/min]	$M_{amax}$ [Nm]	$F_{Ra}$ [N]	AD
288.00	4.9	2280	27900	
258.18	5.4	2280	27900	
222.40	6.3	2280	27900	
202.96	6.9	2260	28000	
180.00	7.8	2210	28100	
151.30	9.3	2150	28200	
139.05	10	2100	28300	
123.48	11	2060	28300	AD <sub>2</sub>
110.40	13	2000	28400	
99.26	14	1960	28500	
91.20	15	1510	29100	
86.15	16	1880	28600	
81.76	17	1600	29000	
77.14	18	1820	28700	
70.43	20	1600	29000	
64.27	22	1600	29000	
64.00	22	1700	28900	AD <sub>3</sub>
57.00	25	1600	29000	AD <sub>2</sub>
47.91	29	1600	29000	
44.03	32	1600	29000	
39.10	36	1600	28200	AD <sub>3</sub>
34.96	40	1600	27100	
31.43	45	1600	26000	
27.28	51	1600	24700	
25.50	55	1240	23400	
24.43	57	1600	23700	
21.43	65	1240	21800	
20.27	69	1600	22100	
19.70	71	1240	21100	
17.49	80	1240	20200	AD <sub>4</sub>
15.64	90	1240	19300	
14.06	100	1240	18500	
12.21	115	1240	17400	
10.93	128	1240	16600	
9.07	154	1140	15900	
7.88	178	1010	15700	



### BS97, BS37/47R17 $n_e=1400$ 1/min

BS97		4000Nm			
i	$n_a$ [1/min]	$M_{amax}$ [Nm]	$F_{Ra}$ [N]	AD	
286.40	4.9	4000	36300		
262.22	5.3	4000	36300		
231.67	6.0	4000	36300		
196.52	7.1	4000	36300		
180.95	7.7	3920	36500		
161.74	8.7	3840	36600		
145.60	9.6	3730	36800	AD <sub>3</sub>	
131.85	11	3650	37000		
116.92	12	3510	37200		
105.71	13	3440	37300		
89.60	16	3240	37600		
80.85	17	3230	37600		
78.26	18	3080	37900		
71.43	20	3300	37500	AD <sub>4</sub>	
65.45	21	2900	38100	AD <sub>3</sub>	
60.59	23	3300	37500		
55.79	25	3300	37100		
49.87	28	3300	35600		
44.89	31	3300	34100	AD <sub>4</sub>	
40.65	34	3300	32800		
36.05	39	3300	31300		
32.60	43	3200	30400		
27.63	51	3010	29000	AD <sub>5</sub>	
26.39	53	2600	26100	AD <sub>4</sub>	
24.13	58	2870	28000		
23.59	59	2600	24900		
21.23	66	2600	23700		
19.23	73	2600	22700		
17.05	82	2570	21100	AD <sub>5</sub>	
15.42	91	2470	20800		
13.07	107	2330	20100		
11.41	123	2210	19500		
9.55	147	2040	18800		
8.26	169	1770	18800		

BS37R17		90Nm			
i	$n_a$ [1/min]	$M_{amax}$ [Nm]	$F_{Ra}$ [N]		
10037	0.14	92	3000		
8654	0.16	92	3000		
8066	0.17	92	3000		
7051	0.20	92	3000		
6079	0.23	92	3000		
5431	0.26	92	3000		
4747	0.29	92	3000		
4155	0.34	92	3000		
3632	0.39	92	3000		
2866	0.49	92	3000		
2471	0.57	92	3000		
2160	0.65	92	3000		
1887	0.74	92	3000		
1665	0.84	92	3000		
1456	0.96	92	3000		
1271	1.1	92	3000		
1121	1.2	92	3000		
994	1.4	92	3000		
869	1.6	92	3000		
774	1.8	92	3000		
666	2.1	92	3000		
596	2.3	92	3000		
521	2.7	92	3000		
456	3.1	92	3000		
398	3.5	92	3000		
351	4.0	92	3000		
303	4.6	92	3000		
265	5.3	92	3000		
232	6.0	92	3000		
202	6.9	92	3000		
179	7.8	92	3000		
158	8.9	92	3000		
144	9.7	92	3000		
118	12	92	3000		
110	13	92	3000		

BS47R17		185Nm			
i	$n_a$ [1/min]	$M_{amax}$ [Nm]	$F_{Ra}$ [N]		
12909	0.11	185	5250		
11189	0.13	185	5250		
10374	0.13	185	5250		
8992	0.16	185	5250		
7860	0.18	185	5250		
6887	0.20	185	5250		
6055	0.23	185	5250		
5292	0.26	185	5250		
4637	0.30	185	5250		
4092	0.34	185	5250		
3582	0.39	185	5200		
3131	0.45	185	5200		
2714	0.52	185	5200		
2412	0.58	185	5200		
2131	0.66	185	5200		
1863	0.75	185	5200		
1663	0.84	185	5200		
1435	0.98	185	5200		
1254	1.1	185	5200		
1120	1.2	185	5200		
1083	1.3	185	5200		
965	1.5	185	5200		
956	1.5	185	5210		
865	1.6	185	5200		
750	1.9	185	5200		
655	2.1	185	5200		
574	2.4	185	5200		
506	2.8	185	5200		
438	3.2	185	5200		
388	3.6	185	5200		
336	4.2	185	5200		
294	4.8	185	5200		
269	5.2	185	5200		
229	6.1	185	5200		
204	6.9	185	5200		
187	7.5	185	5200		
165	8.5	185	5200		
131	11	185	5200		

### BS57R17, BS67/77R37 $n_e=1400$ 1/min

BS57R17		300Nm			
i	$n_a$ [1/min]	$M_{amax}$ [Nm]	$F_{Ra}$ [N]		
12909	0.11	330	6800		
11189	0.13	330	6800		
10374	0.13	330	6800		
8992	0.16	330	6800		
7860	0.18	330	6800		
6887	0.20	330	6800		
6055	0.23	330	6800		
5292	0.26	330	6800		
4637	0.30	330	6800		
4092	0.34	330	6800		
3628	0.39	330	6800		
3131	0.45	300	7090		
2714	0.52	300	7090		
2412	0.58	300	7090		
2131	0.66	300	7090		
1863	0.75	300	7090		
1663	0.84	300	7090		
1435	0.98	300	7090		
1254	1.1	300	7090		
1083	1.3	300	7090		
965	1.5	300	7090		
865	1.6	300	7090		
750	1.9	300	7090		
655	2.1	300	7090		
574	2.4	300	7090		
506	2.8	300	7090		
438	3.2	300	7090		
388	3.6	300	7090		
336	4.2	300	7090		
294	4.8	300	7090		
269	5.2	300	7090		
229	6.1	300	7090		
204	6.9	300	7090		
187	7.5	300	7090		
165	8.5	300	7090		
131	11	300	7090		

BS67R37		570Nm			
i	$n_a$ [1/min]	$M_{amax}$ [Nm]	$F_{Ra}$ [N]		
21362	0.07	570	8190		
19594	0.07	570	8190		
18120	0.08	570	8190		
16682	0.08	570	8190		
14383	0.10	570	8190		
12774	0.11	570	8190		
11013	0.13	570	8190		
9694	0.14	570	8190		
8529	0.16	570	8190		
7455	0.19	570	8190		
6531	0.21	570	8190		
5759	0.24	570	8190		
4965	0.28	570	8190		
4410	0.32	570	8190		
3880	0.36	570	8190		
3432	0.41	570	8190		
2944	0.48	570	8190		
2630	0.53	570	8190		
2279	0.61	570	8190		
2014	0.70	570	8190		
1772	0.79	570	8190		
1559	0.90	570	8190		
1363	1.0	570	8190		
1194	1.2	570	8190		
1045	1.3	570	8190		
914	1.5	570	8190		
809	1.7	570	8190		
712	2.0	570	8190		
615	2.3	570	8190		
543	2.6	570	8190		
469	3.0	570	8190		
424	3.3	570	8190		
365	3.8	570	8190		
319	4.4	570	8190		
281	5.0	570	8190		
246	5.7	570	8190		
221	6.3	570	8190		
198	7.1	570	8190		
168	8.3	570	8190		
156	9.0	570	8190		

BS77R37		1270Nm			
i	$n_a$ [1/min]	$M_{amax}$ [Nm]	$F_{Ra}$ [N]		
25493	0.05	1270	11700		
21787	0.06	1270	11700		
19907	0.07	1270	11700		
17013	0.08	1270	11700		
14668	0.10	1270	11700		
13110	0.11	1270	11700		
11569	0.12	1270	11700		
9887	0.14	1270	11700		
8817	0.16	1270	11700		
7735	0.18	1270	11700		
6735	0.21	1270	11700		
5943	0.24	1270	11700		
5214	0.27	1270	11700		
4618	0.30	1270	11700		
3992	0.35	1270	11700		
3540	0.40	1270	11700		
3098	0.45	1270	11700		
2753	0.51	1240	12000		
2374	0.59	1240	12000		
2083	0.67	1240	12000		
1813	0.77	1240	12000		
1745	0.80	1240	12000		
1600	0.88	1240	12000		
1404	1.0	1240	12000		
1245	1.1	1240	12000		
1100	1.3	1240	12000		
954	1.5	1240	12000		
837	1.7	1240	12000		
714	2.0	1240	12000		
637	2.2	1240	12000		
574	2.4	1240	12000		
499	2.8	1240	12000		
438	3.2	1240	12000		
389	3.6	1240	12000		
327	4.3	1240	12000		
289	4.8	1240	12000		
250	5.6	1240	12000		
219	6.4	1240	12000		



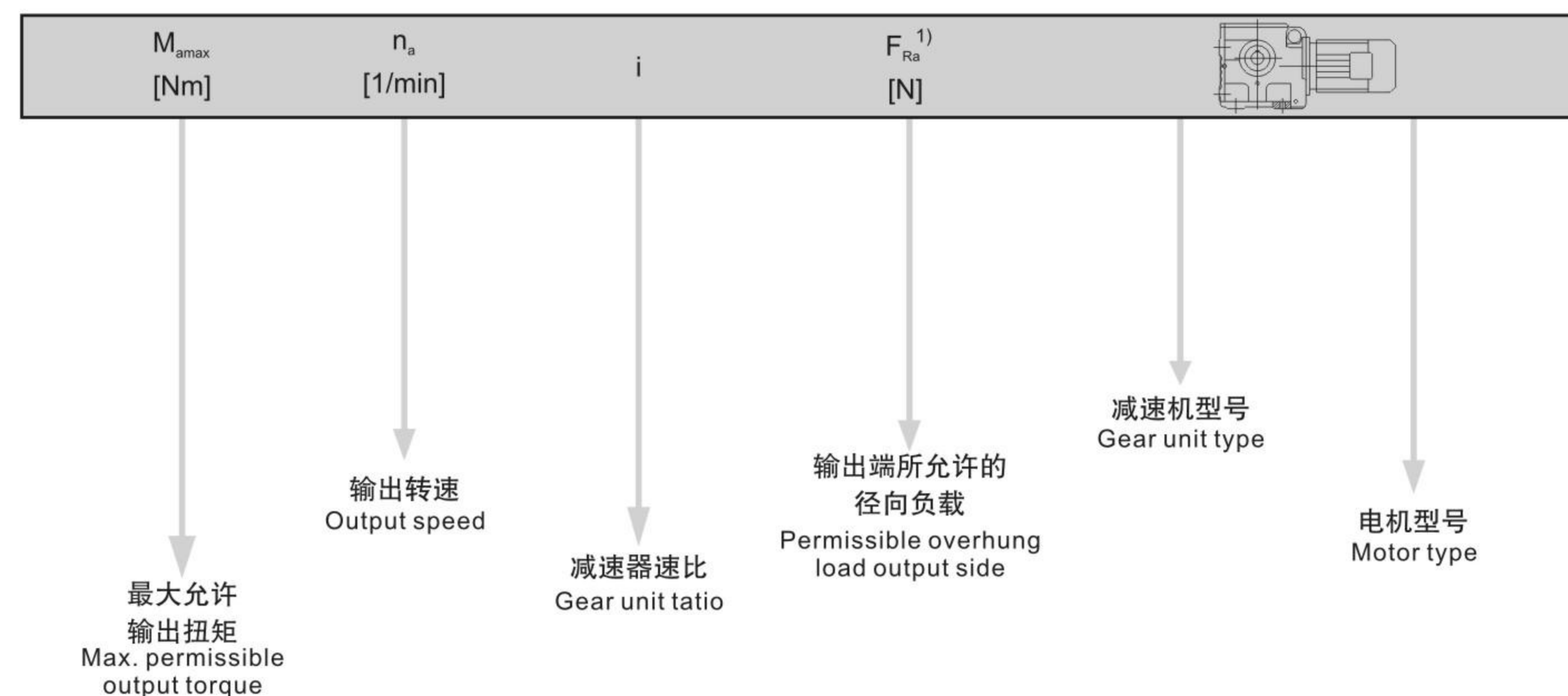
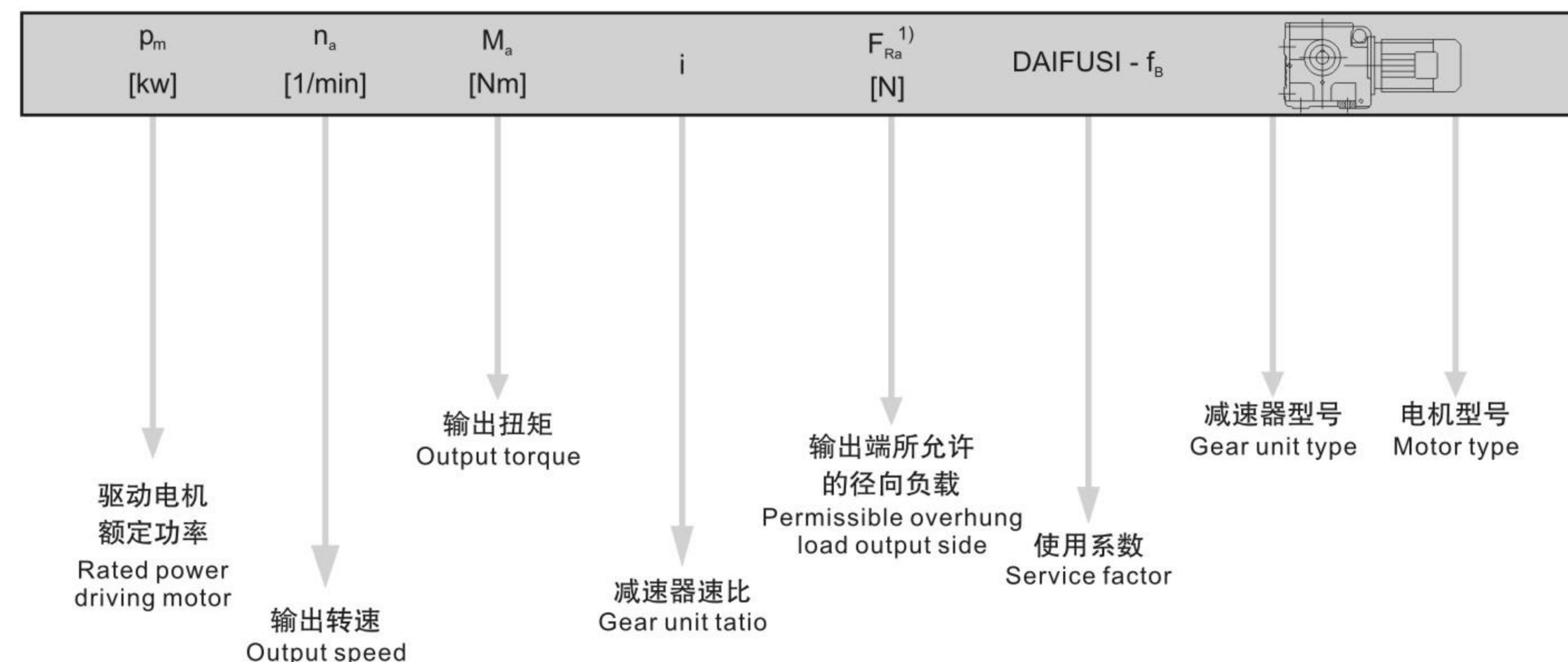
## BS87/97R57 $n_e=1400$ 1/min

BS87R57		2500Nm	
i	$n_a$ [1/min]	$M_{amax}$ [Nm]	$F_{Ra}$ [N]
25987	0.05	2500	27500
23940	0.06	2500	27500
20568	0.07	2500	27500
18265	0.08	2500	27500
16774	0.08	2500	27500
14820	0.09	2500	27500
13160	0.11	2500	27500
11200	0.12	2500	27500
9904	0.14	2500	27500
8549	0.16	2500	27500
7643	0.18	2500	27500
6706	0.21	2500	27500
5875	0.24	2500	27500
5187	0.27	2500	27500
4606	0.30	2500	27500
3872	0.36	2500	27500
3475	0.40	2500	27500
2905	0.48	2500	27500
2586	0.54	2500	27500
2335	0.60	2500	27500
2054	0.68	2500	27500
1824	0.77	2500	27500
1631	0.86	2500	27500
1332	1.1	2500	27500
1191	1.2	2500	27500
1032	1.4	2500	27500
930	1.5	2500	27500
831	1.7	2500	27500
719	1.9	2500	27500
624	2.2	2500	27500
558	2.5	2500	27500
485	2.9	2500	27500
435	3.2	2450	27600
378	3.7	2450	27600
323	4.3	2400	27700
281	5.0	2400	27700
255	5.5	1980	28400
222	6.3	1980	28400
205	6.8	1980	28400

BS97R57		4200Nm	
i	$n_a$ [1/min]	$M_{amax}$ [Nm]	$F_{Ra}$ [N]
33818	0.04	4200	34200
31154	0.04	4200	34200
27847	0.05	4200	34200
24641	0.06	4200	34200
21537	0.07	4200	34200
18749	0.07	4200	34200
16233	0.09	4200	34200
14576	0.10	4200	34200
12752	0.11	4200	34200
11267	0.12	4200	34200
10078	0.14	4200	34200
8608	0.16	4200	34200
7554	0.19	4200	34200
6640	0.21	4200	30600
5780	0.24	4200	30600
4937	0.28	4200	30600
4444	0.32	4200	30600
4017	0.35	4200	30600
3453	0.41	4200	30600
3108	0.45	4200	30600
2654	0.53	4200	30600
2329	0.60	4200	30600
2081	0.67	4200	30600
1860	0.75	4200	30600
1574	0.89	4200	30600
1394	1.0	4200	30600
1223	1.1	4200	30600
1070	1.3	4200	30600
928	1.5	4200	30600
824	1.7	4200	30600
714	2.0	4200	34400
626	2.2	4200	30600
538	2.6	4200	30600
484	2.9	4200	30700
420	3.3	4200	30700
376	3.7	4200	30800
327	4.3	4200	30800
287	4.9	4200	30900
252	5.6	4200	31000
219	6.4	4200	31000
205	6.8	4200	31000

## 8.4 选型表注释 8.4 Selection table

选型表的结构  
Selection table geared motors



图例 Cuttine

※ 也可用于 EExe 电机。 ※ EEXE motor is optional.

1) 实心轴底脚安装减速机的径向负荷

1) Overhung load specified for foot - mounted gear unit with solid shaft

注意: Notice:

对于特殊低输出转速驱动 (多级减速电机), 电机功率必须与减速机的最大允许输出扭矩相对应。  
In drives for particularly low output speeds (multi - stage geared motors), the motor power must be limited according to maximum permitted output torque of the gear unit.



输出转速 Output speed n <sub>2</sub> [r/min]	输出转矩 Output torque T <sub>a</sub> [N·m]	传动比 Ratio i	径向负荷 Permitted load FR2 [N]	使用系数 Service factor f <sub>B</sub>	机型号 Model
<b>0.12kW</b>					
0.12	4610	11267	28700	0.90	BS 97 R57 D63S4
0.14	4210	10078	32800	1.00	BSF 97 R57 D63S4
0.16	3500	8608	34200	1.20	BSA 97 R57 D63S4
0.18	3090	7554	34800	1.35	BSAF 97 R57 D63S4
0.18	3120	7643	14400	0.80	
0.21	2630	6706	27200	0.95	BS 87 R57 D63S4
0.23	2330	5875	27800	1.05	BSF 87 R57 D63S4
0.27	1960	5187	28500	1.25	BSA 87 R57 D63S4
0.30	1740	4606	28800	1.45	BSAF 87 R57 D63S4
0.36	1450	3872	29200	1.70	
0.39	1340	3540	9700	0.95	
0.45	1170	3098	12500	1.10	
0.58	1280	2374	11600	0.95	BS 77 R37 D63S4
0.66	1130	2083	12900	1.10	BSF 77 R37 D63S4
0.76	960	1813	14100	1.30	BSA 77 R37 D63S4
0.79	910	1745	14300	1.35	BSAF 77 R37 D63S4
0.86	840	1600	14700	1.50	
0.98	735	1404	15200	1.70	
1.1	645	1245	15600	1.90	
1.0	665	1363	4800	0.85	BS 67 R37 D63S4
1.2	575	1194	8160	1.00	BSF 67 R37 D63S4
1.3	515	1045	8720	1.10	BSA 67 R37 D63S4
1.5	445	914	9280	1.30	BSAF 67 R37 D63S4
1.7	400	809	9580	1.40	
1.9	355	712	9860	1.60	
2.2	295	615	10100	1.95	BS 67 R37 D63S4
2.5	265	543	10300	2.2	BSF 67 R37 D63S4
2.9	220	469	10400	2.6	BSA 67 R37 D63S4
3.3	197	424	10500	2.9	BSAF 67 R37 D63S4
3.8	180	365	10500	3.2	
2.1	315	655	6930	0.95	
2.4	275	574	7290	1.10	
2.7	240	506	7540	1.25	BS 57 R17 D63S4
3.2	210	438	7750	1.45	BSF 57 R17 D63S4
3.6	183	388	7880	1.65	BSA 57 R17 D63S4
4.1	163	336	7980	1.85	BSAF 57 R17 D63S4
4.7	140	294	8070	2.1	
5.1	134	269	8090	2.2	
3.2	210	438	5060	0.90	
3.6	183	388	5210	1.00	
4.1	162	336	5320	1.15	BS 47 R17 D63S4
4.7	139	294	5450	1.35	BSF 47 R17 D63S4
5.4	95	257	5680	1.95	BSA 47 R17 D63S4
6.0	113	229	5570	1.65	BSAF 47 R17 D63S4
6.9	99	200	5630	1.90	
7.4	92	187	5660	2.0	
6.8	99	202	3000	0.95	
7.7	88	179	3000	1.05	BS 37 R17 D63S4
8.7	78	158	3000	1.15	BSF 37 R17 D63S4
9.6	72	144	3000	1.25	BSA 37 R17 D63S4
12	59	118	3000	1.55	BSAF 37 R17 D63S4
13	55	110	3000	1.65	
4.5	143	201.00	8050	2.1	BS 57 D63M6
4.9	133	184.80	8090	2.2	BSF 57 D63M6
5.7	116	158.12	8150	2.5	BSA 57 D63M6
6.6	103	137.05	8180	2.9	BSAF 57 D63M6
4.5	138	201.00	5490	1.30	BS 47 D63M6
4.9	129	184.80	5540	1.40	BSF 47 D63M6
5.7	112	158.12	5610	1.55	BSA 47 D63M6
6.6	99	137.05	5660	1.75	BSAF 47 D63M6
7.0	93	128.10	5680	1.85	

输出转速 Output speed n <sub>2</sub> [r/min]	输出转矩 Output torque T <sub>a</sub> [N·m]	传动比 Ratio i	径向负荷 Permitted load FR2 [N]	使用系数 Service factor f <sub>B</sub>	机型号 Model
<b>0.12kW</b>					
6.9	95	201.00	5680	1.80	
7.5	89	184.80	5700	1.90	BS 47 D63S4
8.7	77	158.12	5740	2.2	BSF 47 D63S4
10	68	137.05	5780	2.5	BSA 47 D63S4
11	64	128.10	5790	2.6	BSAF 47 D63S4
12	57	110.73	5810	3.0	
5.7	107	157.43	3000	0.85	
6.2	99	144.40	3000	0.95	BS 37 D63M6
7.3	86	122.94	3000	1.05	BSF 37 D63M6
8.5	76	106.00	3000	1.20	BSA 37 D63M6
9.1	71	98.80	3000	1.30	BSAF 37 D63M6
10	64	86.36	3000	1.45	
8.8	74	157.43	3000	1.25	
9.6	68	144.40	3000	1.35	BS 37 D63S4
11	60	122.94	3000	1.55	BSF 37 D63S4
13	52	106.00	3000	1.70	BSA 37 D63S4
14	49	98.80	3000	1.75	BSAF 37 D63S4
16	44	86.36	3000	1.95	
17	41	80.96	3000	2.1	
19	37	71.44	3000	2.3	
22	33	63.33	3000	2.5	
25	35	55.93	3000	2.3	
27	33	51.30	3000	2.5	
32	28	43.68	3000	2.9	
37	25	37.66	3000	3.2	BS 37 D63S4
39	23	35.10	3000	3.4	BSF 37 D63S4
45	20	30.68	3000	3.7	BSA 37 D63S4
48	19	28.76	3000	3.9	BSAF 37 D63S4
54	17	25.38	3000	4.3	
61	15	22.50	3000	4.8	
69	14	19.89	3000	3.6	
76	13	18.24	3000	3.9	
89	11	15.53	2870	4.4	
<b>0.18kW</b>					
0.29	2970	4606	20900	0.85	BS 87 R57D63M4
0.34	2480	3872	27500	1.00	BSF 87 R57D63M4
					BSA 87 R57D63M4
					BSAF 87 R57D63M4
0.38	2350	3475	27800	1.05	
0.45	1970	2905	28500	1.25	BS 87 R57D63M4
0.51	1710	2586	28900	1.45	BSF 87 R57D63M4
0.57	1520	2335	29100	1.65	BSA 87 R57Y63M4
0.64	1320	2054	29400	1.90	BSAF 87 R57Y63M4
0.72	1170	1824	29500	2.1	
0.81	1050	1631	29600	2.4	
0.94	1220	1404	12200	1.00	BS 77 R37D63M4
1.1	1070	1245	13000	1.15	BSF 77 R37D63M4
					BSA 77 R37D63M4
					BSAF 77 R37D63M4
1.2	990	1100	13900	1.25	
1.4	850	954	14700	1.45	BS 77 R37D63M4
1.6	745	837	15200	1.65	BSF 77 R37D63M4
1.9	625	714	15600	2.0	BSA 77 R37D63M4
2.1	555	637	15900	2.2	BSAF 77 R37D63M4
2.3	500	574	16000	2.5	
1.6	660	809	5140	0.85	
1.9	580	712	8060	1.00	BS 67 R37D63M4
2.2	490	615	8920	1.15	BSF 67 R37D63M4
2.4	440	543	9330	1.30	BSA 67 R37D63M4
2.8	370	469	9780	1.55	BSAF 67 R37D63M4
3.1	335	424	9970	1.70	
3.6	295	365	10100	1.90	

输出转速 Output speed n <sub>2</sub> [r/min]	输出转矩 Output torque T <sub>a</sub> [N·m]	传动比 Ratio i	径向负荷 Permitted load FR2 [N]	使用系数 Service factor f <sub>B</sub>	机型号 Model
<b>0.18kW</b>					
3.0	345	438	6630	0.85	
3.4	305	388	7040	1.00	
3.9	270	336	7350	1.10	BS 57R17 D63M4
4.5	235	294	7600	1.30	BSF 57R17 D63M4
4.9	220	269	7690	1.35	BSA 57R17 D63M4
5.8	188	229	7860	1.60	BSAF 57R17 D63M4
6.5	169	204	7950	1.80	
7.1	154	187	8010	1.95	
4.5	230	294	4910	0.80	
5.1	158	257	5400	1.15	
5.8	185	229	5200	1.00	BS 47R17 D63M4
6.6	162	200	5330	1.15	BSF 47R17 D63M4
7.1	152	187	5380	1.20	BSA 47R17 D63M4
8.0	134	165	5470	1.40	BSAF 47R17 D63M4
8.9	121	148	5530	1.55	
10	108	131	5590	1.70	
4.0	255	217.41	10300	2.2	BS 67 D63L6
4.6	225	190.11	10400	2.5	BSF 67 D63L6
4.8	215	180.60	10400	2.6	BSA 67 D63L6
					BSAF 67 D63L6
4.3	220	201.00	7670	1.35	BS 57 D63L6
4.7	205	184.80	7760	1.45	BSF 57 D63L6
5.5	180	158.12	7900	1.65	BSA 57 D63L6
6.3	159	137.05	7990	1.85	BSAF 57 D63L6
6.6	154	201.00	8010	1.90	BS 57 D63M4
7.1	143	184.80	8050	2.1	BSF 57 D63M4
8.4	125	158.12	8120	2.4	BSA 57 D63M4
9.6	110	137.05	8160	2.7	BSAF 57 D63M4
4.3	215	201.00	5090	0.85	BS 47 D63L6
4.7	199	184.80	5180	0.90	BSF 47 D63L6
5.5	173	158.12	5320	1.00	BSA 47 D63L6
6.3	153	137.05	5420	1.10	BSAF 47 D63L6
6.8	144	128.10	5470	1.20	
6.6	149	201.00	5440	1.15	
7.1	138	184.80	5490	1.25	
8.4	121	158.12	5570	1.40	
9.6	107	137.05	5630	1.60	BS 47 D63M4
10	100	128.10	5660	1.65	BSF 47 D63M4
12	88	110.73	5700	1.90	BSA 47 D63M4
14	77	94.08	5750	2.2	BSAF 47 D63M4
16	69	84.00	5770	2.4	
18	60	71.75	5800	2.8	
19	69	69.39	5750	2.2	
8.4	115	157.43	3000	0.80	
9.1	107	144.40	3000	0.85	
11	93	122.94	3000	1.00	BS 37 D63M4
12	82	106.00	3000	1.10	BSF 37 D63M4
13	77	98.80	3000	1.15	BSA 37 D63M4
15	68	86.36	3000	1.25	BSAF 37 D63M4
16	64	80.96	3000	1.30	
18	58	71.44	3000	1.45	
21	52	63.33	3000	1.60	
24	55	55.93	3000	1.45	
26	51	51.30	3000	1.60	
30	44	43.68	3000	1.85	
35	38	37.66	3000	2.1	
38	36	35.10	3000	2.2	
43	32	30.68	3000	2.4	BS 37 D63M4
46	30	28.76	3000	2.5	BSF 37 D63M4
52	27	25.38	3000	2.8	BSA 37 D63M4
59	24	22.50	3000	3.1	BSAF 37 D63M4
66	22	19.89	3000	2.3	
72	21	18.24	2940	2.5	
85	18	15.53	2810	2.8	
99	15	13.39	2700	3.2	
106	14	12.48	2650	3.4	
121	13	10.91	2550	3.8	
129	12	10.23	2500	4.0	

输出转速 Output speed n <sub>2</sub> [r/min]	输出转矩 Output torque T <sub>a</sub> [N·m]	传动比 Ratio i	径向负荷 Permitted load FR2 [N]	使用系数 Service factor f <sub>B</sub>	机型号 Model
<b>0.25kW</b>					
0.45	2860	2905	24300	0.85	
0.50	2500	2586	27500	1.00	BS 87 R57 D63L4
0.56	2240	2335	28000	1.10	BSF 87 R57 D63L4
0.63	1950	2054	28500	1.30	



输出转速 Output speed n <sub>2</sub> [r/min]	输出转矩 Output torque T <sub>a</sub> [N·m]	传动比 Ratio i	径向负荷 Permitted load FR2 [N]	使用系数 Service factor f <sub>B</sub>	机型号 Model
<b>0.25kW</b>					
6.5	210	201.00	5120	0.80	
7.0	195	184.80	5210	0.85	
8.2	170	158.12	5340	1.00	
9.5	150	137.05	5440	1.10	
10	141	128.10	5480	1.20	
12	124	110.73	5560	1.35	BS 47 D63L4
14	108	94.08	5630	1.55	BSF 47 D63L4
15	98	84.00	5670	1.70	BSA 47 D63L4
18	85	71.75	5720	1.95	BSAF 47 D63L4
19	97	69.39	5640	1.60	
19	80	67.20	5740	2.1	
20	90	63.80	5670	1.70	
24	78	54.59	5720	2.0	
27	68	47.32	5760	2.3	
13	108	98.80	3000	0.80	
15	96	86.36	3000	0.90	
16	91	80.96	3000	0.95	
18	81	71.44	3000	1.05	
21	73	63.33	3000	1.10	
23	78	55.93	3000	1.05	
25	72	51.30	3000	1.15	
30	62	43.68	3000	1.30	
35	54	37.66	3000	1.45	BS 37 D63L4
37	51	35.10	3000	1.55	BSF 37 D63L4
42	45	30.68	3000	1.70	BSA 37 D63L4
45	42	28.76	3000	1.80	BSAF 37 D63L4
51	37	25.38	3000	2.0	
58	33	22.50	3000	2.2	
65	32	19.89	2870	1.65	
71	29	18.24	2820	1.80	
84	25	15.53	2710	2.0	
97	22	13.39	2620	2.3	
104	20	12.48	2570	2.4	
119	18	10.91	2480	2.7	
127	17	10.23	2440	2.8	
144	15	9.02	2360	3.1	
163	13	8.00	2290	3.4	
191	11	6.80	2180	3.8	
92	21	28.76	2740	3.0	
105	19	25.38	2650	3.3	
118	17	22.50	2560	3.4	BS 37 D63M2
134	16	19.89	2410	2.8	BSF 37 D63M2
146	15	18.24	2350	3.0	BSA 37 D63M2
171	13	15.53	2250	3.4	BSAF 37 D63M2
199	11	13.39	2160	3.8	
213	10	12.48	2120	4.0	
<b>0.37kW</b>					
0.67	2810	2054	25400	0.90	BS 87 R57 D71D4
0.76	2490	1824	27500	1.00	BSF 87 R57 D71D4
0.85	2230	1631	28000	1.10	BSA 87 R57 D71D4
1.5	1320	930	29400	1.90	BSAF 87 R57 D71D4
1.7	1190	831	29500	2.1	
1.9	1290	714	11500	0.95	
2.2	1150	637	12700	1.10	BS 77 R37 D71D4
2.4	1040	574	13600	1.20	BSF 77 R37 D71D4
2.8	900	499	14400	1.40	BSA 77 R37 D71D4
3.2	785	438	15000	1.60	BSAF 77 R37 D71D4
3.5	700	389	15400	1.80	
3.8	615	365	7700	0.95	BS 67 R37 D71D4
4.3	535	319	8540	1.05	BSF 67 R37 D71D4
4.9	470	281	9080	1.20	BSA 67 R37 D71D4
5.6	425	246	9430	1.35	BSAF 67 R37 D71D4
2.4	980	288.00	29700	2.5	BS 87 D90S8
2.6	890	258.18	29800	2.8	BSF 87 D90S8
3.1	775	222.40	29900	3.2	BSA 87 D90S8

输出转速 Output speed n <sub>2</sub> [r/min]	输出转矩 Output torque T <sub>a</sub> [N·m]	传动比 Ratio i	径向负荷 Permitted load FR2 [N]	使用系数 Service factor f <sub>B</sub>	机型号 Model
<b>0.37kW</b>					
3.0	735	225.26	15200	1.75	BS 77 D90S8
3.2	700	214.00	15300	1.80	BSF 77 D90S8
3.6	630	189.09	15600	2.0	BSA 77 D90S8
4.2	545	161.60	15900	2.3	BSAF 77 D90S8
3.5	645	256.47	15600	2.0	BS 77 D80K6
4.0	575	225.26	15800	2.2	BSF 77 D80K6
4.2	545	214.00	15900	2.3	BSA 77 D80K6
4.1	505	217.41	8810	1.10	BS 67 D80K6
4.7	450	190.11	9260	1.25	BSF 67 D80K6
5.0	430	180.60	9400	1.30	BSA 67 D80K6
5.7	380	158.45	9700	1.45	BSAF 67 D80K6
6.3	345	217.41	9900	1.50	
7.3	310	190.11	10100	1.70	BS 67 D71D4
7.6	295	180.60	10200	1.75	BSF 67 D71D4
8.7	260	158.45	10300	2.0	BSA 67 D71D4
10	225	134.40	10400	2.3	BSAF 67 D71D4
11	205	121.33	10500	2.5	
5.7	360	158.12	6490	0.80	
6.6	315	137.05	6930	0.95	BS 57 D80K6
7.0	300	128.10	7100	1.00	BSF 57 D80K6
8.1	265	110.73	7390	1.10	BSA 57 D80K6
9.6	230	94.08	7630	1.30	BSAF 57 D80K6
11	205	84.00	7760	1.45	
6.9	305	201.00	7050	0.95	
7.5	285	184.80	7230	1.05	
8.7	245	158.12	7510	1.20	
10	220	137.05	7690	1.35	
11	205	128.10	7770	1.45	BS 57 D71D4
12	180	110.73	7900	1.65	BSF 57 D71D4
15	156	94.08	8000	1.90	BSA 57 D71D4
16	141	84.00	8060	2.1	BSAF 57 D71D4
19	122	71.75	8130	2.4	
20	139	69.39	8070	1.75	
21	115	67.20	8150	2.5	
22	128	63.80	8110	1.90	
10	210	137.05	5110	0.80	
11	199	128.10	5190	0.85	
12	175	110.73	5320	0.95	
15	151	94.08	5430	1.10	
16	137	84.00	5500	1.20	
19	119	71.75	5580	1.40	
20	136	69.39	5460	1.15	
21	112	67.20	5610	1.50	BS 47 D71D4
22	126	63.80	5510	1.25	BSF 47 D71D4
25	109	54.59	5590	1.40	BSA 47 D71D4
29	96	47.32	5410	1.60	BSAF 47 D71D4
31	90	44.22	5330	1.75	
36	78	38.23	5140	2.0	
42	67	32.48	4930	2.3	
48	60	29.00	4790	2.6	
56	52	24.77	4590	3.0	
59	49	23.20	4510	3.1	
68	46	20.33	4180	2.4	
78	40	17.62	4030	2.8	
84	37	16.47	3960	3.0	

输出转速 Output speed n <sub>2</sub> [r/min]	输出转矩 Output torque T <sub>a</sub> [N·m]	传动比 Ratio i	径向负荷 Permitted load FR2 [N]	使用系数 Service factor f <sub>B</sub>	机型号 Model
<b>0.37kW</b>					
22	103	63.33	3000	0.80	
27	101	51.30	3000	0.80	
32	87	43.68	3000	0.95	
37	76	37.66	3000	1.05	
39	71	35.10	3000	1.10	
45	63	30.68	3000	1.20	
48	59	28.76	3000	1.30	BS 37 D71D4
54	52	25.38	2940	1.40	BSF 37 D71D4
61	47	22.50	2870	1.55	BSA 37 D71D4
69	44	19.89	2610	1.20	BSAF 37 D71D4
76	41	18.24	2570	1.30	
89	35	15.53	2500	1.45	
103	30	13.39	2420	1.60	
111	28	12.48	2390	1.70	
127	25	10.91	2320	1.95	
135	23	10.23	2280	2.0	
153	21	9.02	2220	2.2	
173	18	8.00	2150	2.5	
203	16	6.80	2070	2.7	
104	28	25.38	2540	2.2	
118	25	22.50	2460	2.3	
133	24	19.89	2290	1.85	
145	22	18.24	2250	2.0	BS 37 D63L2
171	19	15.53	2160	2.3	BSF 37 D63L2
198	16	13.39	2080	2.5	BSA 37 D63L2
212	15	12.48	2040	2.7	BSAF 37 D63L2
243	13	10.91	1970	3.0	
259	12	10.23	1940	3.1	
294	11	9.02	1870	3.3	
<b>0.55kW</b>					
1.0	2810	1332	25400	0.90	
1.1	2540	1191	27400	1.00	
1.3	2210	1032	28100	1.15	
1.5	2040	930	28400	1.25	BS 87 R57 D80K4
1.6	1840	831	28700	1.35	BSF 87 R57 D80K4
1.9	1600	719	29000	1.55	BSA 87 R57 D80K4
2.2	1400	624	29300	1.80	BSAF 87 R57 D80K4
2.4	1270	558	29400	1.95	
3.1	1010	435	29700	2.4	
2.7	1380	499	6920	0.90	
3.1	1210	438	12300	1.05	BS 77 R37 D80K4
3.5	1070	389	13300	1.15	BSF 77 R37 D80K4
4.2	910	327	14300	1.35	BSA 77 R37 D80K4
4.7	820	289	14800	1.50	BSAF 77 R37 D80K4
5.4	710	250	15300	1.75	
5.5	650	246	6600	0.90	BS 67 R37 D80K4
6.2	580	221	8080	1.00	BSF 67 R37 D80K4
6.9	530	198	8590	1.10	BSA 67 R37 D80K4
8.1	455	168	9230	1.25	BSAF 67 R37 D80K4
2.4	1450	288.00	29200	1.70	BS 87 D90L8
2.6	1320	258.18	29400	1.85	BSF 87 D90L8
3.1	1150	222.40	29600	2.1	BSA 87 D90L8
					BSAF 87 D90L8
3.1	1130	288.00	29600	2.2	BS 87 D80N6
3.5	1020	258.18	29700	2.4	BSF 87 D80N6
4.1	900	222.40	29800	2.7	BSA 87 D80N6
4.4	820	202.96	29800	2.9	BSAF 87 D80N6
3.0	1090	225.26	13200	1.15	BS 77 D90L8
3.2	1040	214.00	13500	1.20	BSF 77 D90L8
3.6	930	189.09	14200	1.35	BSA 77 D90L8
4.2	810	161.60	14900	1.55	BSAF 77 D90L8
3.5	960	256.47	14100	1.35	BS 77 D80N6
4.0	850	225.26	14700	1.50	BSF 77 D80N6
4.2	810	214.00	14800	1.55	BSA 77 D80N6
4.8	730	189.09	15200	1.75	BSAF 77 D80N6
5.6	635	161.60	15600	2.0	

输出转速 Output speed n <sub>2</sub> [r/min]	输出转矩 Output torque T <sub>a</sub> [N·m]	传动比 Ratio i	径向负荷 Permitted load FR2 [N]	使用系数 Service factor f <sub>B</sub>	机型号 Model
<b>0.55kW</b>					
5.3	660	256.47	15500	1.90	BS 77 D80K4
6.0	590	225.26	15800	2.2	BSF 77 D80K4
6.4	560	214.00	15800	2.3	BSA 77 D80K4
7.2	505	189.09	16000	2.5	BSAF 77 D80K4
6.3	520	217.41	8660	1.00	
7.2	465	190.11	9150	1.10	
7.5	445	180.60	9300	1.15	
8.6	395	158.45	9620	1.30	BS 67 D80K4
10	340	134.40	9930	1.55	BSF 67 D80K4
11	310	121.33	10100	1.65	BSA 67 D80K4
13	275	106.75	10200	1.85	BSAF 67 D80K4
13	265	100.80	10300	1.95</	



输出转速 Output speed n <sub>2</sub> [r/min]	输出转矩 Output torque T <sub>a</sub> [N·m]	传动比 Ratio i	径向负荷 Permitted load FR2 [N]	使用系数 Service factor f <sub>B</sub>	机型号 Model
<b>0.55kW</b>					
44	94	30.68	2680	0.80	
47	89	28.76	2670	0.85	
54	79	25.38	2630	0.95	
60	70	22.50	2600	1.05	
71	60	19.13	2540	1.20	BS 37 D80K4
88	53	15.53	2230	0.95	BSF 37 D80K4
102	46	13.39	2200	1.10	BSA 37 D80K4
109	43	12.48	2180	1.15	BSAF 37 D80K4
125	37	10.91	2130	1.30	
133	35	10.23	2110	1.35	
151	31	9.02	2070	1.50	
170	28	8.00	2020	1.60	
200	24	6.80	1950	1.80	
94	46	28.76	2420	1.40	
106	41	25.38	2360	1.50	
120	37	22.50	2310	1.55	
136	34	19.89	2100	1.30	
148	32	18.24	2070	1.40	BS 37 D71D2
174	27	15.53	2010	1.55	BSF 37 D71D2
202	24	13.39	1950	1.75	BSA 37 D71D2
216	22	12.48	1920	1.85	BSAF 37 D71D2
248	19	10.91	1870	2.0	
264	18	10.23	1840	2.1	
299	16	9.02	1780	2.2	
338	14	8.00	1730	2.5	
397	12	6.80	1660	2.4	
<b>0.75kW</b>					
1.1	4840	1223	21300	0.85	
1.3	4240	1070	30700	1.00	
1.5	3650	928	33900	1.15	BS 97R57D80N4
1.7	3230	824	34600	1.30	BSF 97R57D80N4
1.9	2300	714	35900	1.85	BSA 97R57D80N4
2.2	2450	626	35700	1.70	BSAF 97R57D80N4
2.6	2110	538	36100	2.0	
2.8	1900	484	36300	2.2	
1.3	3030	1032	18700	0.85	
1.5	2780	930	25900	0.90	
1.7	2510	831	2750	1.00	BS 87R57D80N4
1.9	2190	719	28100	1.15	BSF 87R57D80N4
2.2	1920	624	28600	1.30	BSA 87R57D80N4
2.5	1730	558	28900	1.45	BSAF 87R57D80N4
3.2	1390	435	29300	1.75	
4.3	1060	323	29600	2.3	
4.2	1240	327	12000	1.00	BS 77R37D80N4
4.8	1110	289	13100	1.10	BSF 77R37D80N4
5.5	960	250	14000	1.30	BSA 77R37D80N4
6.3	850	219	14700	1.45	BSAF 77R37D80N4
2.4	2040	286.40	36100	2.1	BS 97 D100M8
2.6	1890	262.22	36300	2.2	BSF 97 D100M8
3.0	1690	231.67	36400	2.5	BSA 97 D100M8
					BSAF 97 D100M8
3.1	1540	288.00	29100	1.60	BS 87 D90S6
3.5	1400	258.18	29300	1.75	BSF 87 D90S6
4.1	1220	222.40	29500	1.95	BSA 87 D90S6
4.4	1120	202.96	29600	2.1	BSAF 87 D90S6
4.8	1050	288.00	29600	2.2	BS 87 D80N4
5.3	950	258.18	29700	2.4	BSF 87 D80N4
6.2	830	222.40	29800	2.8	BSA 87 D80N4
6.8	765	202.96	29900	3.0	BSAF 87 D80N4
4.0	1160	225.26	12700	1.10	BS 77 D90S6
4.2	1110	214.00	13100	1.15	BSF 77 D90S6
4.8	990	189.09	13900	1.30	BSA 77 D90S6
5.6	860	161.60	14600	1.45	BSAF 77 D90S6

输出转速 Output speed n <sub>2</sub> [r/min]	输出转矩 Output torque T <sub>a</sub> [N·m]	传动比 Ratio i	径向负荷 Permitted load FR2 [N]	使用系数 Service factor f <sub>B</sub>	机型号 Model
<b>0.75kW</b>					
5.4	890	256.47	14500	1.45	
6.1	790	225.26	14900	1.60	
6.4	755	214.00	15100	1.70	BS 77 D80N4
7.3	675	189.09	15400	1.90	BSF 77 D80N4
8.5	585	161.60	15800	2.2	BSA 77 D80N4
9.3	545	148.15	15900	2.3	BSAF 77 D80N4
11	480	130.00	16000	2.5	
11	460	123.20	16000	2.6	
13	405	107.83	16000	2.9	
7.3	625	190.11	7570	0.85	
7.6	595	180.60	7900	0.85	
8.7	530	158.45	8570	1.00	
10	460	134.40	9180	1.15	
11	420	121.33	9470	1.25	BS 67 D80N4
13	375	106.75	9750	1.40	BSF 67 D80N4
14	355	100.80	9860	1.45	BSA 67 D80N4
16	305	85.83	10100	1.70	BSAF 67 D80N4
18	310	75.06	10100	1.55	
21	275	65.63	10200	1.75	
22	260	62.35	10300	1.85	
25	230	54.70	10300	2.1	
30	198	46.40	9840	2.4	
13	365	71.75	6430	0.80	BS 57 D90S6
13	345	67.20	6660	0.85	BSF 57 D90S6
16	295	56.61	7140	1.00	BSA 57 D90S6
19	295	47.32	7150	0.90	BSAF 57 D90S6
20	275	44.22	7300	1.00	
12	365	110.73	6400	0.80	
15	315	94.08	6930	0.95	
16	285	84.00	7210	1.05	
19	250	71.75	7500	1.15	
21	235	67.20	7590	1.20	
25	225	54.59	7650	1.10	
29	197	47.32	7810	1.25	
31	185	44.22	7870	1.35	BS 57 D80N4
36	161	38.23	7980	1.50	BSF 57 D80N4
42	138	32.48	7670	1.80	BSA 57 D80N4
48	124	29.00	7450	2.0	BSAF 57 D80N4
56	107	24.77	7150	2.3	
59	100	23.20	7030	2.5	
68	93	20.33	6490	1.80	
78	81	17.62	6260	2.1	
84	76	16.47	6160	2.2	
97	66	14.24	5930	2.6	
29	194	47.32	4530	0.80	BS 47 D80N4
31	182	44.22	4500	0.85	BSF 47 D80N4
36	159	38.23	4420	1.00	BSA 47 D80N4
42	136	32.48	4310	1.15	BSAF 47 D80N4
48	122	29.00	4230	1.25	
56	106	24.77	4110	1.45	
59	99	23.20	4060	1.55	
68	93	20.33	3610	1.20	
78	81	17.62	3530	1.35	BS 47 D80N4
84	76	16.47	3490	1.45	BSF 47 D80N4
97	66	14.24	3410	1.65	BSA 47 D80N4
114	56	12.10	3300	1.95	BSAF 47 D80N4
128	50	10.80	3230	2.2	
150	43	9.23	3120	2.5	
160	41	8.64	3070	2.7	
190	34	7.28	2950	3.0	
72	81	19.13	2270	0.85	
111	57	12.48	1930	0.85	BS 37 D80N4
127	50	10.91	1920	0.95	BSF 37 D80N4
135	47	10.23	1910	1.00	BSA 37 D80N4
153	42	9.02	1890	1.10	BSAF 37 D80N4
173	37	8.00	1860	1.20	
203	32	6.80	1820	1.35	

输出转速 Output speed n <sub>2</sub> [r/min]	输出转矩 Output torque T <sub>a</sub> [N·m]	传动比 Ratio i	径向负荷 Permitted load FR2 [N]	使用系数 Service factor f <sub>B</sub>	机型号 Model
<b>0.75kW</b>					
141	43	19.13	2090	1.05	
174	37	15.53	1860	1.15	
202	32	13.39	1820	1.30	BS 37 D80K2
216	30	12.48	1800	1.35	BSF 37 D80K2
248	26	10.91	1760	1.50	BSA 37 D80K2
264	25	10.23	1740	1.55	BSAF 37 D80K2
299	22	9.02	1690	1.65	
338	19	8.00	1650	1.80	
397	17	6.80	1590	1.75	
1.7	4720	824	23300	0.90	BS 97R57D90S4
2.0	3370	714	34400	1.25	BSF 97R57D90S4
2.2	3590	626	34000	1.15	BSA 97R57D90S4
2.6	3090	538	34800	1.35	BSAF 97R57D90S4
2.9	2790	484	35200	1.50	
3.3	2430	420	35700	1.75	
2.2	2820	624	25400	0.90	
2.5	2550	558	27400	1.00	
2.9	2240	485	28000	1.10	BS 87R57D90S4
3.2	2040	435	28400	1.20	BSF 87R57D90S4
3.7	1790	378	28800	1.35	BSA 87R57D90S4
4.3	1560	323	29100	1.55	BSAF 87R57D90S4
5.0	1370	281	29300	1.75	
5.5	1460	255	29200	1.35	
6.3	1280	222	29400	1.55	
6.8	1200	205	29500	1.65	
6.4	1240	219	12000	1.00	BS 77R37D90S4
					BSF 77R37D90S4
					BSA 77R37D90S4
					BSAF 77R37D90S4
2.4	3030	286.40	34900	1.40	BS 97 D100L8
2.6	2800	262.22	35200	1.50	BSF 97 D100L8
2.9	2500	231.67	35600	1.70	BSA 97 D100L8
3.5	2160	196.52	36000	1.95	BSAF 97 D100L8
3.2	2310	286.40	35900	1.80	BS 97 D90L6
3.5	2130	262.22	36000	1.95	BSF 97 D90L6
4.0	1900	231.67	36300	2.2	BSA 97 D90L6
					BSAF 97 D90L6
3.2	2220	288.00	28100	1.10	BS 87 D90L6
3.6	2010	258.18	28400	1.20	BSF 87 D90L6
4.1	1760	222.40	28800	1.35	BSA 87 D90L6
4.5	1620	202.96	29000	1.45	BSAF 87 D90L6
<b>1.1kW</b>					
4.9	1520	288.00	29100	1.50	
5.4	1370	258.18	29300	1.65	BS 87 D90S4
6.3	1200	222.40	29500	1.90	BSF 87 D90S4
6.9	1100	202.96	29600	2.0	BSA 87 D90S4
7.8	990	180.00	29700	2.2	BSAF 87 D90S4
9.2	840	151.30	29800	2.5	
6.2	1150	225.26	12800	1.10	
6.5	1100	214.00	13200	1.15	
7.4	980	189.09	13900	1.30	
8.7	850	161.60	14700	1.50	BS 77 D90S4
9.4	785	148.15	15000	1.60	BSF 77 D90S4
11	695	130.00	15400	1.75	BSA 77 D90S4
11	665	123.20	15500	1.80	BSAF 77 D90S4
13	585	107.83	15800	2.0	
14	535	97.14	15900	2.1	
16	470	85.22	16000	2.3	

输出转速 Output speed n <sub>2</sub> [r/min]	输出转矩 Output torque T <sub>a</sub> [N·m]	传动比 Ratio i	径向负荷 Permitted load FR2 [N]	使用系数 Service factor f <sub>B</sub>	机型号 Model
<b>1.1kW</b>					
12	605	121.33	7790	0.85	
13	540	106.75	8490	0.95	
14	515	100.80	8740	1.00	
16	445	85.83	9300	1.15	
18	405	78.00	9550	1.30	BS 67 D90S4
21	400	65.63	9610	1.20	BSF 67 D90S4
22	380	62.35	9720	1.25	BSA 67 D90S4
26	335	54.70	9560	1.45	BSAF 67 D90S4
30	28				



输出转速 Output speed n <sub>2</sub> [r/min]	输出转矩 Output torque T <sub>a</sub> [N·m]	传动比 Ratio i	径向负荷 Permitted load FR2 [N]	使用系数 Service factor f <sub>B</sub>	机型号 Model	
<b>1.5kW</b>						
2.4	4030	286.40	33100	1.05	BS	97 D112M8
2.7	3720	262.22	33700	1.15	BSF	97 D112M8
3.0	3330	231.67	34400	1.25	BSA	97 D112M8
3.6	2870	196.52	35200	1.45	BSAF	97 D112M8
3.2	3150	286.40	34700	1.35	BS	97 D100M6
3.5	2910	262.22	35100	1.45	BSF	97 D100M6
4.0	2600	231.67	35500	1.60	BSA	97 D100M6
4.7	2230	196.52	35900	1.90	BSAF	97 D100M6
4.9	2130	286.40	36000	1.90	BS	97 D90L4
5.4	1970	262.22	36200	2.0	BSF	97 D90L4
6.1	1760	231.67	36400	2.3	BSA	97 D90L4
7.2	1510	196.52	36600	2.7	BSAF	97 D90L4
3.6	2740	258.18	26600	0.90	BS	87 D100M6
4.1	2390	222.40	27700	1.00	BSF	87 D100M6
4.5	2200	202.96	28100	1.10	BSA	87 D100M6
5.1	1980	180.00	28500	1.20	BSAF	87 D100M6
4.9	2060	288.00	28300	1.10		
5.5	1860	258.18	28700	1.20		
6.3	1630	222.40	29000	1.40		
6.9	1500	202.96	29200	1.50	BS	87 D90L4
7.8	1340	180.00	29400	1.65	BSF	87 D90L4
9.3	1140	151.30	29600	1.90	BSA	87 D90L4
10	1060	139.05	29600	2.0	BSAF	87 D90L4
11	950	123.48	29700	2.2		
13	850	110.40	29800	2.3		
14	770	99.26	29900	2.5		
7.5	1330	189.09	10600	0.95		
8.7	1150	161.60	12700	1.10		
9.5	1060	148.15	13400	1.15		
11	940	130.00	14100	1.30		
11	900	123.20	14400	1.35		
13	795	107.83	14900	1.45		
15	725	97.14	15300	1.60	BS	77 D90L4
17	640	85.22	15400	1.70	BSF	77 D90L4
19	650	75.09	14100	1.70	BSA	77 D90L4
20	620	71.33	14000	1.80	BSAF	77 D90L4
21	510	66.67	14600	2.0		
22	550	63.03	13700	2.0		
25	440	56.92	14000	2.3		
26	470	53.87	13200	2.3		
29	435	49.38	13000	2.5		
33	385	43.33	12600	2.9		
16	600	85.83	7850	0.85	BS	67 D90L4
18	550	78.00	8390	0.95	BSF	67 D90L4
21	540	65.63	8510	0.90	BSA	67 D90L4
23	515	62.35	8740	0.95		
26	455	54.70	8810	1.05		
30	390	46.40	8590	1.25		
34	355	41.89	8450	1.35		
38	310	36.85	8250	1.55		
41	295	34.80	8160	1.60	BS	67 D90L4
48	255	29.63	7900	1.90	BSF	67 D90L4
52	230	26.93	7740	2.1	BSA	67 D90L4
58	220	24.44	7000	1.55	BSAF	67 D90L4
61	210	23.22	6950	1.60		
69	186	20.37	6790	1.85		
82	159	17.28	6580	2.1		
90	144	15.60	6440	2.4		
103	127	13.73	6260	2.7		

输出转速 Output speed n <sub>2</sub> [r/min]	输出转矩 Output torque T <sub>a</sub> [N·m]	传动比 Ratio i	径向负荷 Permitted load FR2 [N]	使用系数 Service factor f <sub>B</sub>	机型号 Model	
<b>1.5kW</b>						
43	270	32.48	6630	0.90		
49	245	29.00	6520	1.00		
57	210	24.77	6340	1.15		
61	196	23.20	6270	1.25		
72	167	19.54	6060	1.30	BS	57 D90L4
80	159	17.62	5430	1.05	BSF	57 D90L4
86	149	16.47	5380	1.15	BSA	57 D90L4
99	129	14.24	5250	1.30	BSAF	57 D90L4
117	110	12.10	5100	1.55		
131	99	10.80	4980	1.70		
153	85	9.23	4820	2.0		
99	129	14.24	2610	0.85	BS	47 D90L4
117	110	12.10	2620	1.00	BSF	47 D90L4
131	99	10.80	2620	1.10	BSA	47 D90L4
153	85	9.23	2590	1.30	BSAF	47 D90L4
163	79	8.64	2580	1.35		
194	67	7.28	2530	1.55		
299	44	9.02	1330	0.85	BS	37 D90S2
338	39	8.00	1350	0.90	BSF	37 D90S2
397	33	6.80	1340	0.90	BSA	37 D90S2
					BSAF	37 D90S2
<b>2.2kW</b>						
3.4	4900	420	18800	0.85	BS	97R57 D100M4
3.8	4410	376	28300	0.95	BSF	97R57 D100M4
4.3	3870	327	33500	1.10	BSA	97R57 D100M4
4.9	3420	287	34300	1.25	BSAF	97R57 D100M4
5.6	3000	252	35000	1.40		
3.3	4530	286.40	30200	0.95	BS	97 D112M6
3.6	4180	262.22	32800	1.00	BSF	97 D112M6
4.1	3730	231.67	33700	1.15	BSA	97 D112M6
4.8	3210	196.52	34600	1.30	BSAF	97 D112M6
4.9	3130	286.40	34800	1.30		
5.4	2890	262.22	35100	1.40		
6.1	2570	231.67	35500	1.55		
7.2	2210	196.52	36000	1.80		
7.8	2050	180.95	36100	1.90	BS	97 D100M4
8.7	1840	161.74	36300	2.1	BSF	97 D100M4
9.7	1670	145.60	36500	2.2	BSA	97 D100M4
11	1520	131.85	36600	2.4	BSAF	97 D100M4
12	1360	116.92	36700	2.6		
13	1240	105.71	36800	2.8		
16	1060	89.60	36900	3.1		
5.5	2730	258.18	26800	0.85		
6.3	2380	222.40	27700	0.95		
6.9	2190	202.96	28100	1.05		
7.8	1970	180.00	28500	1.10		
9.3	1680	151.30	28900	1.30		
10	1550	139.05	29100	1.35	BS	87 D100M4
11	1390	123.48	29300	1.50	BSF	87 D100M4
13	1250	110.40	29500	1.60	BSA	87 D100M4
14	1130	99.26	29600	1.75	BSAF	87 D100M4
16	990	86.15	29700	1.90		
17	1060	81.76	29600	1.50		
18	890	77.14	29800	2.0		
20	920	70.43	29700	1.75		
22	840	64.27	29800	1.90		
25	750	57.00	29900	2.1		

输出转速 Output speed n <sub>2</sub> [r/min]	输出转矩 Output torque T <sub>a</sub> [N·m]	传动比 Ratio i	径向负荷 Permitted load FR2 [N]	使用系数 Service factor f <sub>B</sub>	机型号 Model	
<b>2.2kW</b>						
11	1390	130.00	6140	0.85		
11	1320	123.20	11100	0.90		
13	1170	107.83	12600	1.00		
15	1060	97.14	13400	1.10		
17	940	85.22	14100	1.15		
19	840	75.20	13800	1.30		
21	745	66.67	13500	1.40		
22	810	63.03	12400	1.35	BS	77 D100M4
25	645	56.92	13100	1.55	BSF	77 D100M4
26	695	53.87	12100	1.60	BSA	77 D100M4
29	635	49.38	11900	1.75	BSAF	77 D100M4
33	560	43.33	11700	1.95		
34	535	41.07	11600	2.1		
39	470	35.94	11300	2.3		
44	425	32.38	11000	2.6		
50	375	28.41	10700	2.8		
56	330	25.07	10400	3.1		
62	310	22.89	9490	2.3		
67	285	20.99	9340	2.5		
30	570	46.40	7480	0.85		
34	515	41.89	7440	0.95		
38	460	36.85	7360	1.05		
41	435	34.80	7320	1.10		
48	370	29.63	7180	1.30		
52	340	26.93	7080	1.40	BS	67 D100M4
60	295	23.33	6920	1.60	BSF	67 D100M4
69	275	20.37	6060	1.25	BSA	67 D100M4
82	235	17.28	5960	1.45	BSAF	67 D100M4
90	210	15.60	5880	1.60		
103	186	13.73	5770	1.85		
109	176	12.96	5710	1.95		
128	151	11.03	5550	2.3		
141	137	10.03	5450	2.5		
162	119	8.69	5300	2.8		
99	190	14.24	4640	0.90		
117	162	12.10	4580	1.05	BS	57 D100M4
131	145	10.80	4520	1.15	BSF	57 D100M4
153	124	9.23	4420	1.35	BSA	57 D100M4
163	117	8.64	4380	1.40	BSAF	57 D100M4
194	99	7.28	4250	1.50		
<b>3.0kW</b>						
4.9	4710	287	23700	0.90	BS	97R57 D100L4
5.6	4140	252	32400	1.00	BSF	97R57 D100L4
6.4	3620	219	33900	1.15	BSA	97R57 D100L4
6.8	3400	205	34300	1.25	BSAF	97R57 D100L4
4.9	4290	286.40	32600	0.95		
5.3	3960	262.22	33300	1.00		
6.0	3530	231.67	34100	1.15		
7.1	3040	196.52	34900	1.30		
7.7	2810	180.95	35200	1.40	BS	97 D100L4
8.7	2530	161.74	35600	1.50	BSF	97 D100L4
9.6	2300	145.60	35900	1.65	BSA	97 D100L4
11	2090	131.85	36100	1.75	BSAF	97 D100L4
12	1870	116.92	36300	1.90		
13	1700	105.71	36400	2.0		
16	1450	89.60	36600	2.2		
17	1470	80.85	36600	2.2		

输出转速 Output speed n <sub>2</sub> [r/min]	输出转矩 Output torque T <sub>a</sub> [N·m]	传动比 Ratio i	径向负荷 Permitted load FR2 [N]	使用系数 Service factor f <sub>B</sub>	机型号 Model	
<b>3.0kW</b>						
7.8	2700	180.00	27100	0.80		
9.2	2300	151.30	27900	0.95		
10	2130	139.05	28200	1.00		
11	1900	123.48	28600	1.10		
13	1720	110.40	28900	1.15		
14	1550	99.26	29100	1.25		
16	1360	86.15	29300	1.40	BS	87 D100L4
17	1460	81.76	29200	1.10	BSF	87 D100L4
18	1230	77.14	29500	1.50	BSA	87 D100L4
20	1260	70.43	29400	1.25	BSAF	87 D100L4
22	1160	64.27				



输出转速 Output speed n <sub>2</sub> [r/min]	输出转矩 Output torque T <sub>a</sub> [N·m]	传动比 Ratio i	径向负荷 Permitted load FR2 [N]	使用系数 Service factor f <sub>B</sub>	机型号 Model
<b>4.0kW</b>					
6.1	4650	231.67	28300	0.85	
7.2	3990	196.52	33200	1.00	
7.8	3700	180.95	33800	1.05	
8.8	3330	161.74	34400	1.15	
9.8	3020	145.60	34900	1.25	BS 97 D112M4
11	2750	131.85	35300	1.35	BSF 97 D112M4
12	2460	116.92	35700	1.45	BSA 97 D112M4
13	2230	105.71	35900	1.55	BSAF 97 D112M4
16	1910	89.60	36300	1.70	
18	1940	80.85	36200	1.65	
20	1720	71.43	36400	1.90	
23	1470	60.59	36600	2.2	
25	1350	55.79	36700	2.4	
12	2510	123.48	27500	0.80	
13	2260	110.40	28000	0.90	
14	2040	99.26	28400	0.95	
16	1790	86.15	28800	1.05	
18	1610	77.14	29000	1.15	
20	1660	70.43	28900	0.95	BS 87 D112M4
22	1520	64.27	29100	1.05	BSF 87 D112M4
25	1350	57.00	29300	1.20	BSA 87 D112M4
30	1150	47.91	29500	1.40	BSAF 87 D112M4
32	1060	44.03	29600	1.50	
36	940	39.10	29700	1.70	
41	840	34.96	29800	1.90	
45	760	31.43	29100	2.1	
52	665	27.28	28200	2.4	
56	635	25.50	26600	1.95	
25	1160	56.92	10800	0.85	BS 77 D112M4
26	1250	53.87	9250	0.90	BSF 77 D112M4
29	1150	49.38	9320	0.95	BSA 77 D112M4
33	1020	43.33	9370	1.10	BSAF 77 D112M4
35	960	41.07	9370	1.15	
40	850	35.94	9340	1.30	
44	765	32.38	9290	1.40	
50	675	28.41	9190	1.55	
57	600	25.07	9070	1.70	
62	565	22.89	7650	1.25	BS 77 D112M4
68	520	20.99	7650	1.35	BSF 77 D112M4
77	455	18.42	7620	1.55	BSA 77 D112M4
81	435	17.45	7590	1.65	BSAF 77 D112M4
93	380	15.28	7510	1.85	
103	345	13.76	7430	2.1	
118	300	12.07	7310	2.4	
133	265	10.65	7170	2.7	
150	235	9.44	7030	3.1	
176	205	8.06	6830	3.3	
82	420	17.28	3810	0.80	
91	380	15.60	4180	0.90	BS 67 D112M4
103	335	13.73	4500	1.00	BSF 67 D112M4
110	320	12.96	4520	1.05	BSA 67 D112M4
129	270	11.03	4530	1.25	BSAF 67 D112M4
142	245	10.03	4520	1.35	
163	215	8.69	4490	1.55	
188	188	7.56	4430	1.55	
<b>5.5kW</b>					
8.8	4550	161.74	29900	0.85	
9.8	4130	145.60	32900	0.90	
11	3760	131.85	33700	0.95	
12	3360	116.92	34400	1.05	
14	3050	105.71	34900	1.15	
16	2610	89.60	35500	1.25	BS 97 D132S4
18	2290	78.26	35900	1.35	BSF 97 D132S4
20	2350	71.43	35800	1.40	BSA 97 D132S4
22	1930	65.45	36200	1.50	BSAF 97 D132S4
24	2000	60.59	36200	1.65	
26	1850	55.79	36300	1.80	
29	1660	49.87	36500	2.0	
32	1500	44.89	36600	2.2	
35	1360	40.65	36700	2.4	

输出转速 Output speed n <sub>2</sub> [r/min]	输出转矩 Output torque T <sub>a</sub> [N·m]	传动比 Ratio i	径向负荷 Permitted load FR2 [N]	使用系数 Service factor f <sub>B</sub>	机型号 Model
<b>5.5kW</b>					
19	2200	77.14	28100	0.85	BS 87 D132S4
22	1850	64.00	28700	0.90	BSF 87 D132S4
25	1850	57.00	28700	0.85	BSA 87 D132S4
30	1560	47.91	29100	1.00	BSAF 87 D132S4
32	1440	44.03	29200	1.10	
37	1280	39.10	29200	1.25	
41	1150	34.96	28600	1.40	
45	1040	31.43	28000	1.55	
52	910	27.28	27200	1.75	BS 87 D132S4
56	870	25.50	25200	1.45	BSF 87 D132S4
67	730	21.43	24500	1.70	BSA 87 D132S4
73	675	19.70	24100	1.85	BSAF 87 D132S4
82	600	17.49	23500	2.1	
91	535	15.64	23000	2.3	
102	485	14.06	22500	2.6	
117	420	12.21	21800	3.0	
131	375	10.93	21200	3.3	
35	1320	41.07	7560	0.85	BS 77 D132S4
40	1160	35.94	7750	0.95	BSF 77 D132S4
44	1050	32.38	7850	1.05	BSA 77 D132S4
50	920	28.41	7920	1.15	BSAF 77 D132S4
57	820	25.07	7940	1.25	
64	725	22.22	7920	1.35	
78	625	18.42	5920	1.15	BS 77 D132S4
82	590	17.45	6170	1.20	BSF 77 D132S4
94	520	15.28	6490	1.35	BSA 77 D132S4
104	470	13.76	6510	1.50	BSAF 77 D132S4
118	410	12.07	6500	1.75	
134	365	10.65	6450	2.0	
151	325	9.44	6390	2.2	
177	275	8.06	6280	2.5	
130	370	11.03	2930	0.90	BS 67 D132S4
143	340	10.03	3260	1.00	BSF 67 D132S4
165	295	8.69	3670	1.15	BSA 67 D132S4
189	255	7.56	3850	1.15	BSAF 67 D132S4
<b>7.5kW</b>					
14	4160	105.71	32900	0.85	
16	3560	89.60	34100	0.90	
18	3130	78.26	34800	1.00	
20	3200	71.43	34600	1.05	
22	2630	65.45	35500	1.10	
24	2730	60.59	35300	1.20	BS 97 D132M4
26	2520	55.79	35600	1.30	BSF 97 D132M4
29	2260	49.87	35900	1.45	BSA 97 D132M4
32	2040	44.89	36100	1.60	BSAF 97 D132M4
35	1850	40.65	36300	1.80	
40	1650	36.05	36200	2.0	
44	1490	32.60	35500	2.2	
54	1240	26.39	32000	2.1	
61	1110	23.59	31400	2.3	
67	1000	21.23	30700	2.6	
74	910	19.23	30100	2.9	
32	1970	44.03	27800	0.80	BS 87 D132M4
37	1750	39.10	27400	0.90	BSF 87 D132M4
41	1570	34.96	27000	1.00	BSA 87 D132M4
45	1420	31.43	26500	1.15	BSAF 87 D132M4
52	1230	27.28	25900	1.30	
56	1180	25.50	23500	1.05	
67	1000	21.43	23000	1.25	BS 87 D132M4
73	920	19.70	22700	1.35	BSF 87 D132M4
82	820	17.49	22300	1.50	BSA 87 D132M4
91	730	15.64	21900	1.70	BSAF 87 D132M4
102	660	14.06	21500	1.90	
117	575	12.21	20900	2.2	
131	515	10.93	20500	2.4	
158	430	9.07	19700	2.7	
181	375	7.88	19100	2.7	

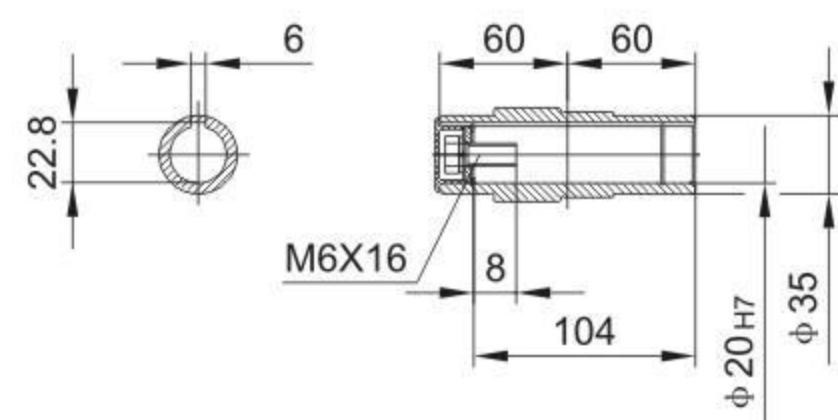
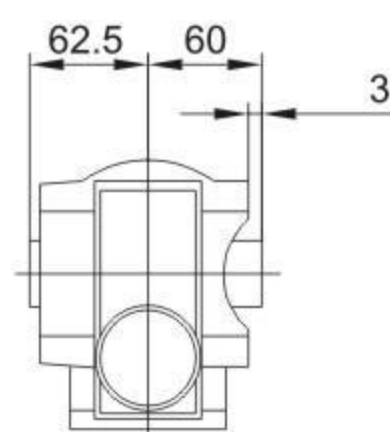
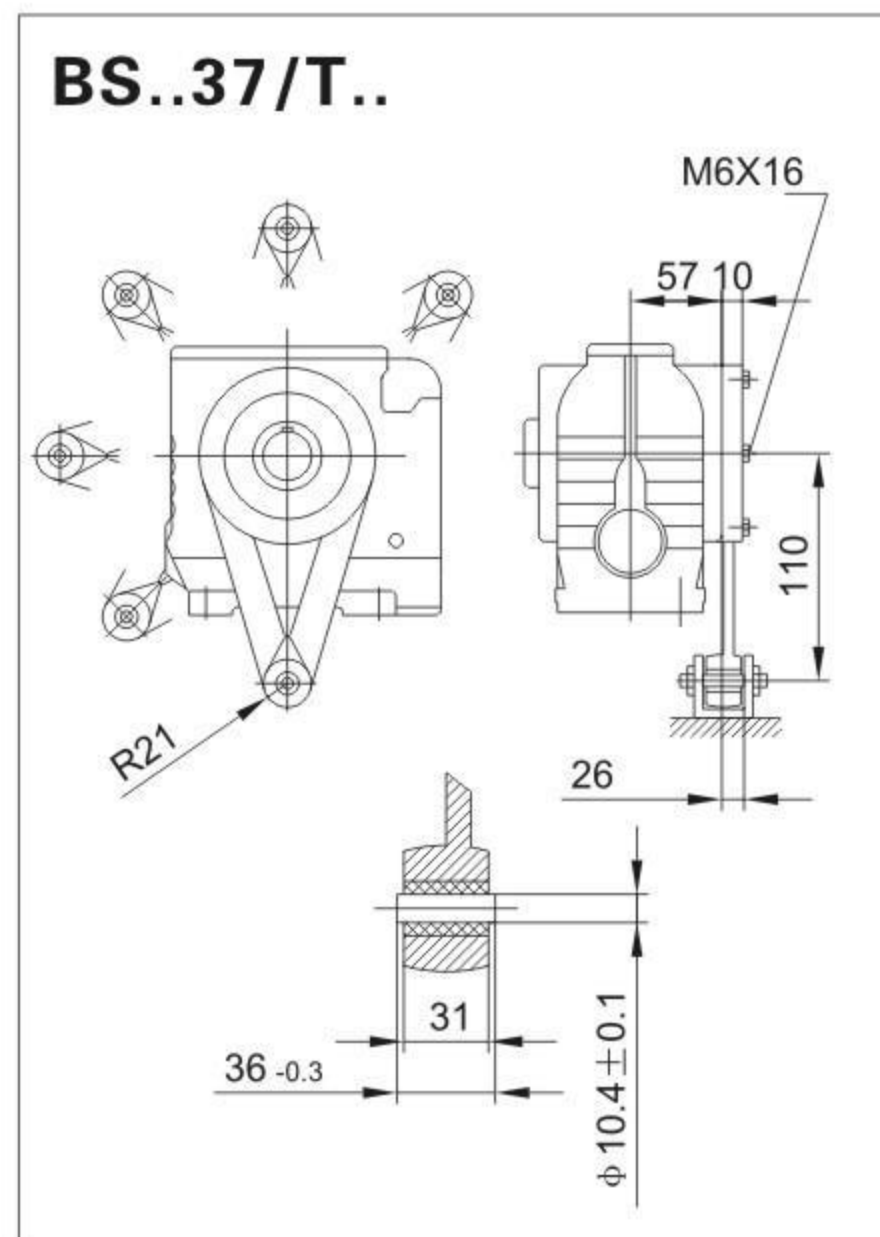
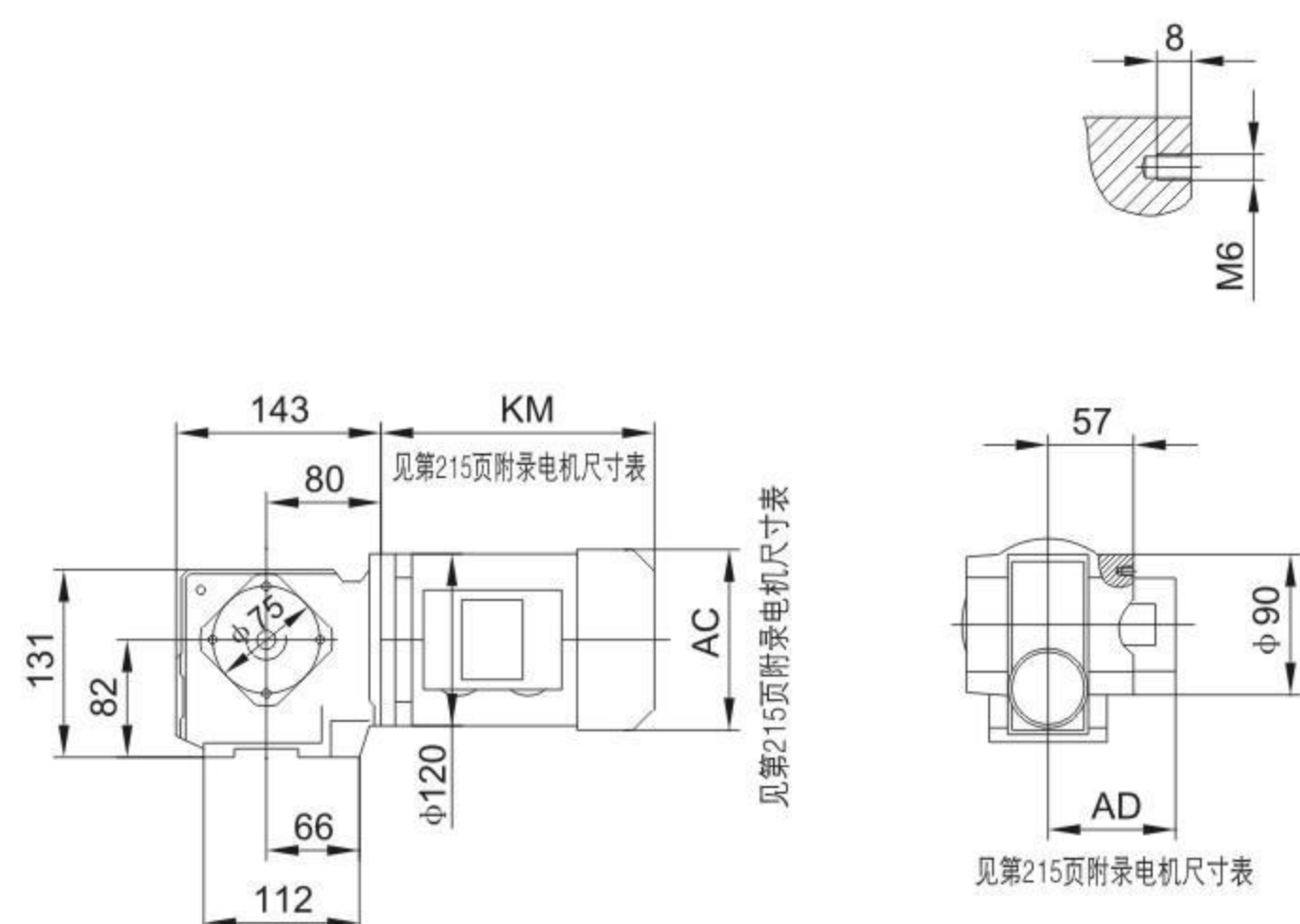
输出转速 Output speed n <sub>2</sub> [r/min]	输出转矩 Output torque T <sub>a</sub> [N·m]	传动比 Ratio i	径向负荷 Permitted load FR2 [N]	使用系数 Service factor f <sub>B</sub>	机型号 Model
<b>7.5kW</b>					
50	1260	28.41	6240	0.85	BS 77 D132M4
57	1110	25.07	6450	0.90	BSF 77 D132M4
64	990	22.22	6600	1.00	BSA 77 D132M4
78	850	18.42	1860	0.85	BSAF 77 D132M4
82	810	17.45	2290	0.90	
94	705	15.28	3250	1.00	BS 77 D132M4
104	640	13.76	3890	1.10	BSF 77 D132M4
118	560	12.07	4570	1.30	BSA 77 D132M4
134	495	10.65	5110	1.45	BSAF 77 D132M4
151	440	9.44	5540	1.65	
177	380	8.06	5560	1.80	
<b>9.2kW</b>					
18	3810	78.26	33600	0.80	BS 97 D132ML4
22	3210	65.45	34600	0.90	BSF 97 D132ML4
26	3070	55.79	34800	1.05	BSA 97 D132ML4
29	2750	49.87	35300	1.20	BSAF 97 D132ML4
32	2480	44.89	35600	1.35	
35	2260	40.65	35700	1.45	
40	2010	36.05	35000	1.65	
44	1820	32.60	34400	1.75	
55	1510	26.39	30700	1.70	BS 97 D132ML4
61	1350	23.59	30200	1.90	BSF 97 D132ML4
68	1220	21.23	29700	2.1	BSA 97 D132ML4
75	1110	19.23	29200	2.3	BSAF 97 D132ML4
84	980	17.05	28500	2.6	
93	890	15.42	28000	2.8	
110	755	13.07	27000	3.1	
126	660	11.41	26200	3.3	
41	1910	34.96	25600	0.85	BS 87 D132ML4
46	1730	31.43	25300	0.95	BSF 87 D132ML4
53	1500	27.28	24800	1.05	BSA 87 D132ML4
59	1350	24.43	24400	1.20	BSAF 87 D132ML4
71	1120	20.27	23700	1.40	
73	1120	19.70	21600	1.10	
82	1000	17.49	21300	1.25	
92	890	15.64	21000	1.40	BS 87 D132ML4
102	800	14.06	20700	1.55	BSF 87 D132ML4
118	700	12.21	20200	1.75	BSA 87 D132ML4
132	625	10.93	19800	2.0	BSAF 87 D132ML4
159	520	9.07	19100	2.2	
183	455	7.88	18600	2.2	
76	1040	18.97	5760	0.90	BS 77 D132ML4
105	780	13.76	1350	0.90	BSF 77 D132ML4
119	685	12.07	2290	1.05	BSA 77 D132ML4
135	605	10.65	3060	1.20	BSAF 77 D132ML4
152	535	9.44	3690	1.35	
179	460	8.06	4360	1.50	
<b>11.0kW</b>					
26	3670	55.79	33800	0.90	
29	3290	49.87	34500	1.00	
32	2970	44.89	34800	1.10	
35	2700	40.65	34400	1.20	
40	2400	36.05	33800	1.40	
44	2170	32.60	33300	1.45	BS 97 D160M4
55	1810	26.39	29400	1.45	BSF 97 D160M4
61	1620	23.59	29000	1.60	BSA 97 D160M4
68	1460	21.23	28600	1.80	BSAF 97 D160M4
75	1320	19.23	28200	1.95	
84	1180	17.05	27600	2.2	
93	1070	15.42	27200	2.3	
110	900	13.07	26400	2.6	
126	790	11.41	25700	2.8	
53	1800	27.28	23700	0.90	BS 87 D160M4
59	1610	24			



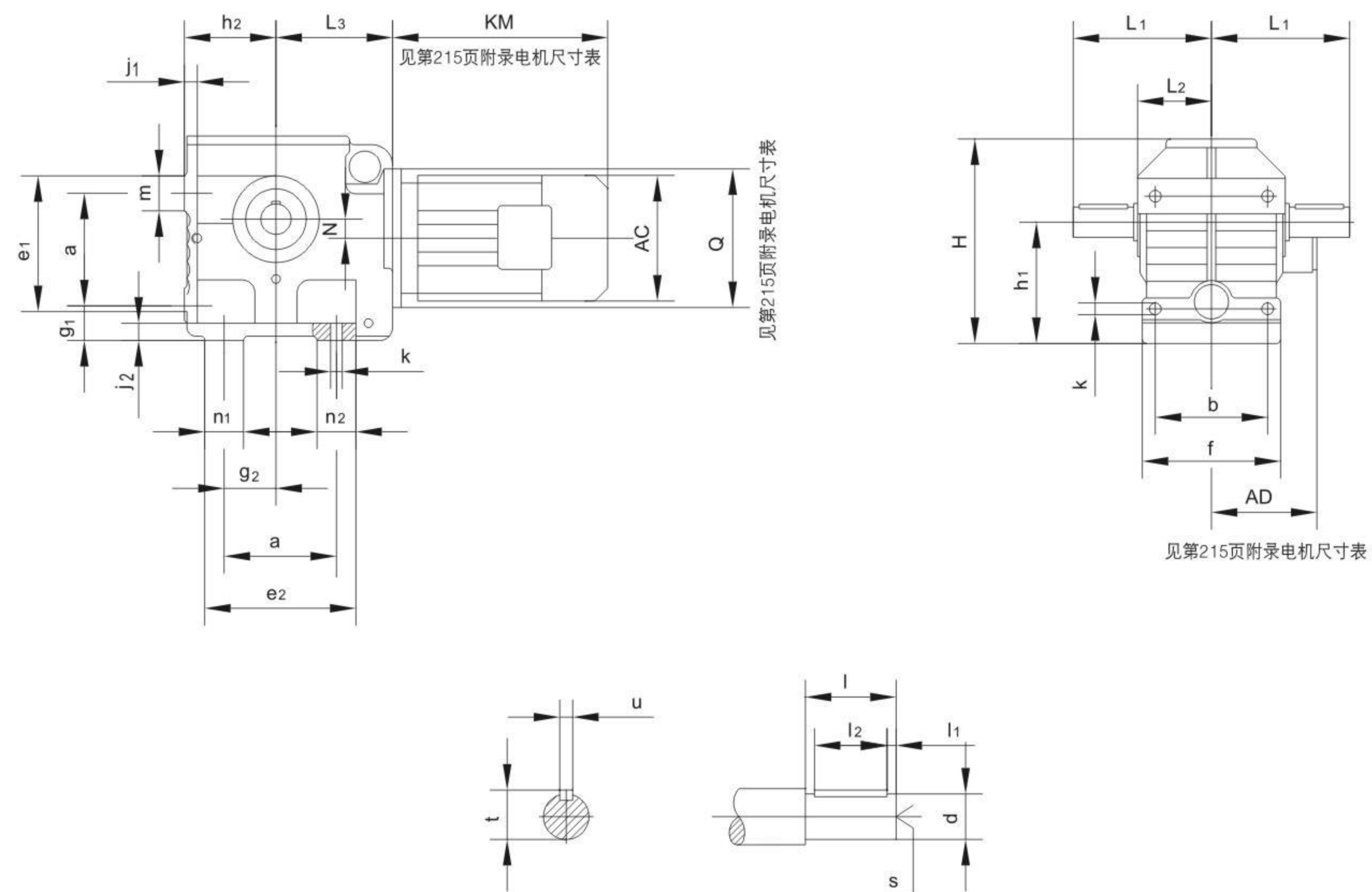




## BSA37..



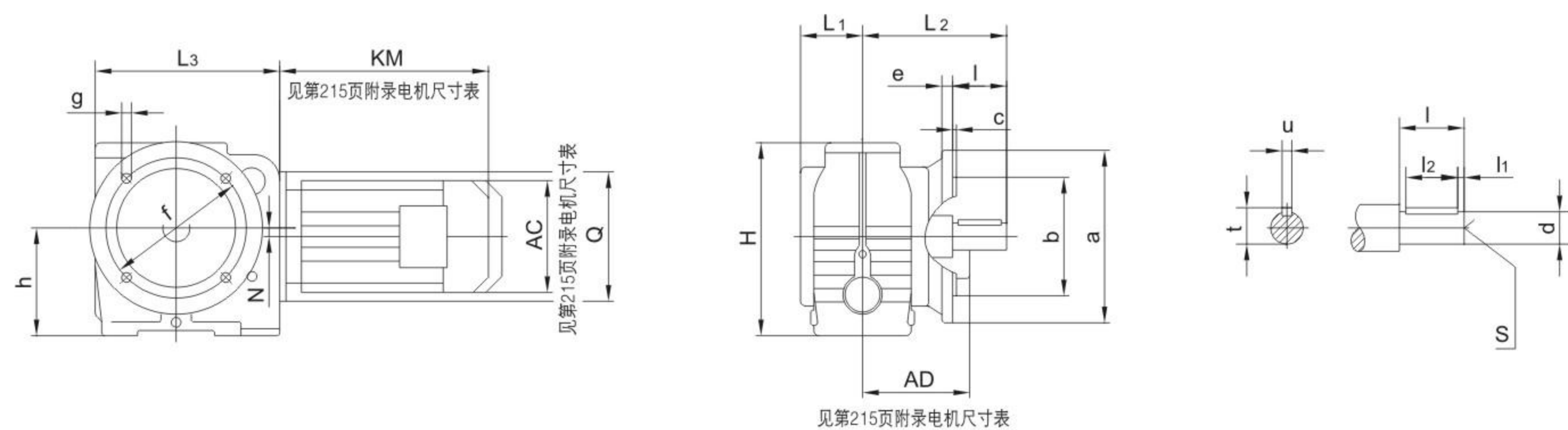
## BS47..~S97..



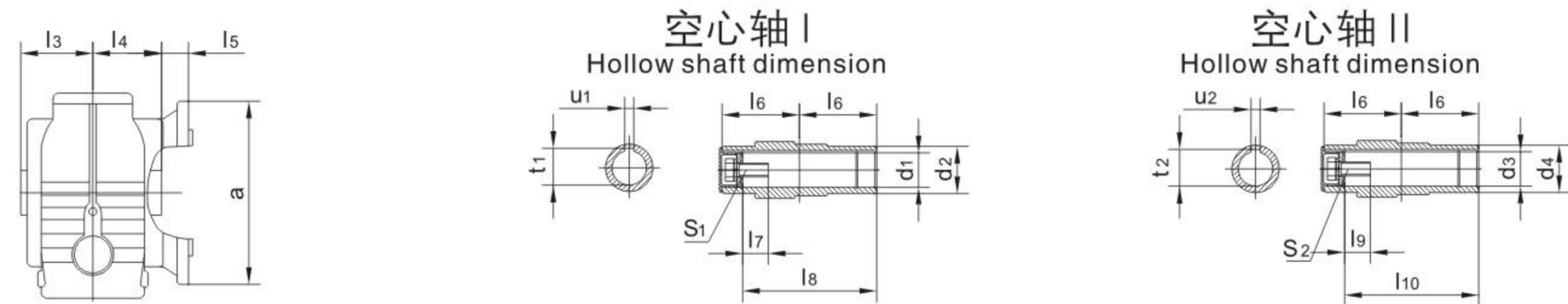
型号 Model	a b	e1 e2 f	g1 g2	h1 h2	j j k	m n1 n2	轴伸尺寸 Shaft dimension				L1 L2 L3	H	N Q
							d l	l1 l2	s	t u			
BS47..	80	105	35	100 <sub>-0.5</sub>	12	25	25k6	5	M10	28	115	8	
	100	112	35	75 <sub>-0.5</sub>	15	30	50	40		8	60		165
	120	120	35	75 <sub>-0.5</sub>	11	30	50	40		8	96		120
BS57..	100	130	35	112 <sub>-0.5</sub>	12	30	30k6	3.5	M10	33	134	20	
	130	130	45	80 <sub>-0.5</sub>	15	30	60	50		8	71		189
	110	136	45	80 <sub>-0.5</sub>	11	30	60	50		8	107		120
BS67..	130	170	40	140 <sub>-0.5</sub>	15	40	35k6	7	M12	38	160	22	
	170	175	60	106 <sub>-0.5</sub>	20	45	70	56		10	85.5		236
	130	160	60	106 <sub>-0.5</sub>	13.5	45	70	56		10	135		160
BS77..	135	177	70	180 <sub>-0.5</sub>	25	42	45k6	5	M16	48.5	195	34	
	204	204	75	125 <sub>-0.5</sub>	25	50	90	80		14	101		301
	150	185	75	125 <sub>-0.5</sub>	17.5	69	90	80		14	162		200
BS87..	180	230	82	225 <sub>-0.5</sub>	30	50	60m6	5	M20	64	255	37.5	
	200	247	92	150 <sub>-0.5</sub>	30	60	120	110		18	130		368
	250	250	92	150 <sub>-0.5</sub>	22	67	120	110		18	190		250
BS97..	235	295	90	280 <sub>-1</sub>	35	60	70m6	7.5	M20	74.5	295	52	
	250	320	115	180 <sub>-0.5</sub>	35	80	140	125		20	150		455
	300	300	115	180 <sub>-0.5</sub>	26	85	140	125		20	240		300



## BSF47..~SF97..

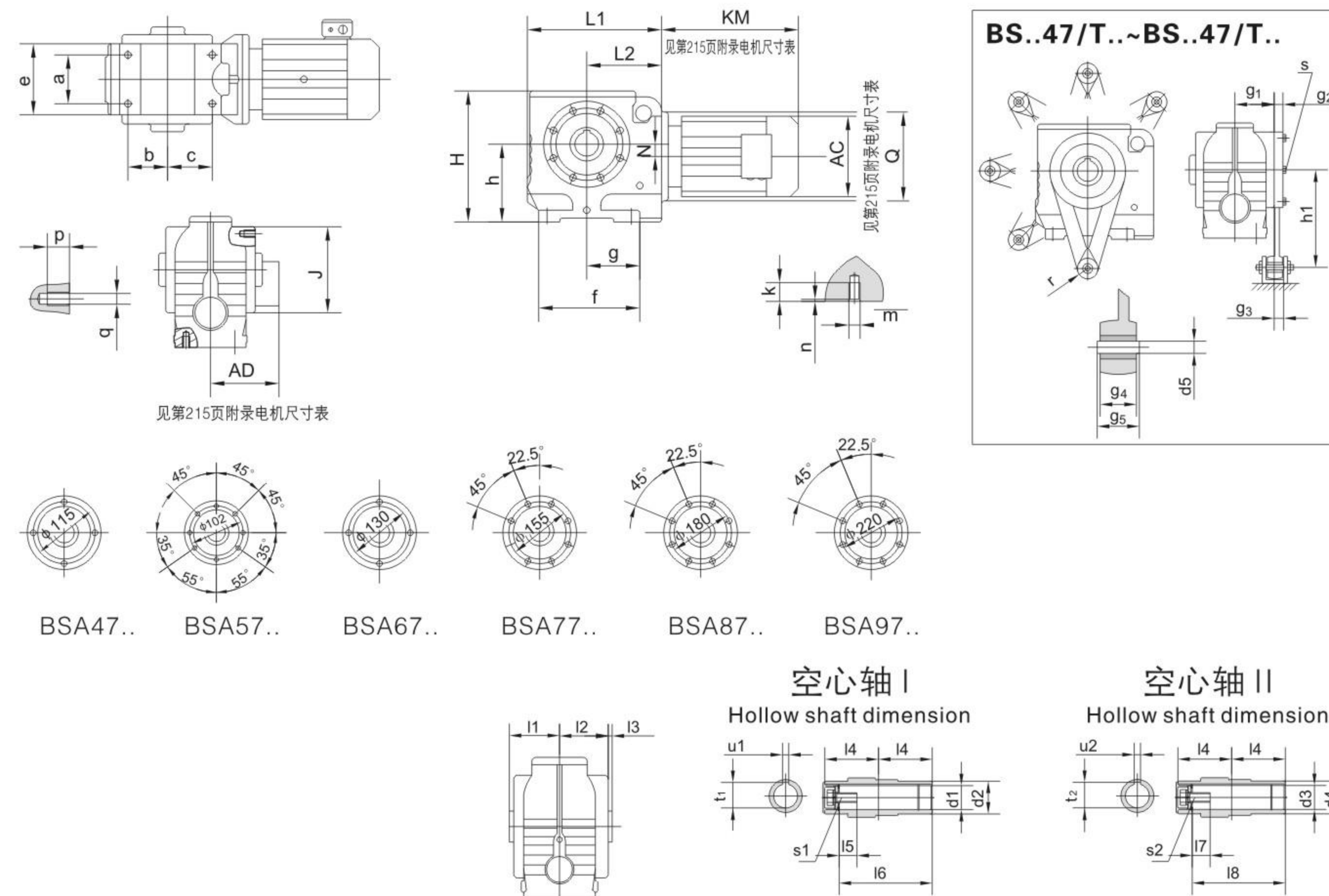


## BSAF47..~SAF97..



型号 Model	法兰 型式 flange form	a b	c e	f g h	轴伸尺寸 Shaft dimension			空心轴 I 尺寸 Hollow shaft dimension			空心轴 II 尺寸 Hollow shaft dimension			H	L1 L2 L3	N Q	
					d l	l1 l2	s t u	d1 d2	l3 l4 l5	l6 l7 l8	s t u	d3 d4	l9 l10				s2 t2 u2
BSF47.. BSAF47..	Flg.1	160 110j6	3.5 10	130 9 100	25k6 50	5 40	M10 28 8	30 <sup>H7</sup> 45	63 60 24	60 17 105	M10X25 33.3 8	25 <sup>H7</sup> 45	17 105	M10X25 28.3 8	179	133.5 171	8 120
BSF57.. BSAF57..	Flg.1	200 130j6	3.5 12	165 11 112	30k6 60	3.5 50	M10 33 8	35 <sup>H7</sup> 50	78 75 25	75 22 132	M12X30 38.3 10	30 <sup>H7</sup> 50	17 132	M10X25 33.3 8	189	160 187	20 120
BSF67.. BSAF67..	Flg.1	200 130j6	3.5 12	165 11 140	35k6 70	7 56	M12 38 10	45 <sup>H7</sup> 65	87 84 42.5	84 29 144	M16X40 48.8 14	40 <sup>H7</sup> 65	29 144	M16X40 43.3 12	236	80.5 190 242	22 160
BSF77.. BSAF77..	Flg.1	250 180j6	4 15	215 13.5 180	45k6 90	5 80	M16 48.5 14	60 <sup>H7</sup> 80	108 105 45.5	105 37 180	M20X50 64.4 18	50 <sup>H7</sup> 80	32 183	M16X45 53.8 14	301	121 232 287	34 200
BSF87.. BSAF87..	Flg.1	350 250h6	5 18	300 17.5 225	60m6 120	5 110	M20 64 18	70 <sup>H7</sup> 95	128 125 52.5	125 34 220	M20X50 74.9 20	60 <sup>H7</sup> 95	36 220	M20X50 64.4 18	368	145 290 340	37.5 250
BSF97.. BSAF97..	Flg.2	450 350h6	5 22	400 17.5 280	70m6 140	7.5 125	M20 74.5 20	90 <sup>H7</sup> 120	149 145 60	145 41 255	M24X60 95.4 25	70 <sup>H7</sup> 120	34 260	M20X50 74.9 20	455	165 340 420	52 300

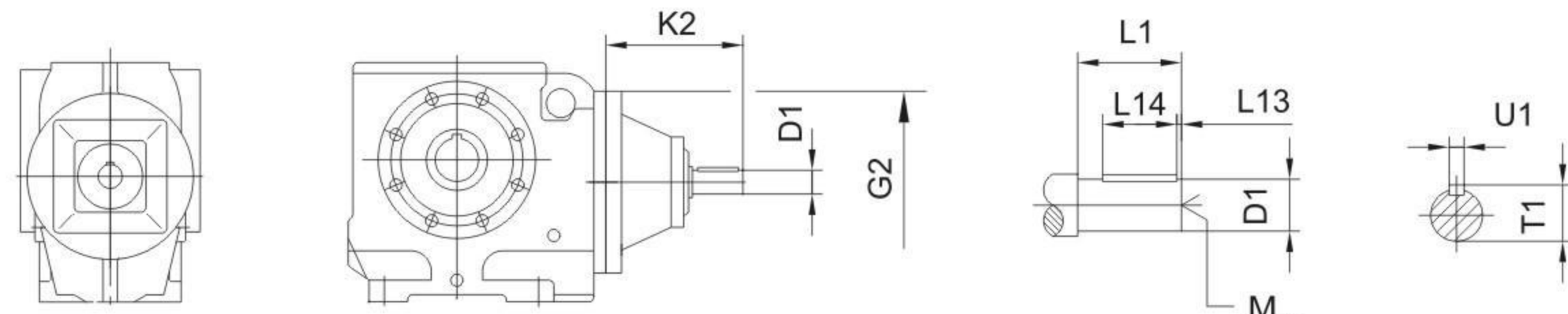
## BSA47..~BSA97..



型号 Model	a b c	e f g	h	k m h	p q	空心轴 I 尺寸 Hollow shaft dimension				空心轴 II 尺寸 Hollow shaft dimension			扭矩臂尺寸 Torque arm form			H L1 L2	N Q
						d1 d2	l1 l2 l3	l4 l5 l6	s1 t1 u1	d3 d4	l7 l8	s2 t2 u2	g1 g2 g3	g4 g5 h1	d5 r s3		
BSA47.. BS..47/T..	60 35 52	94 127 67	100	M10 4	12 M8	30 <sup>H7</sup> 45	63 60 2.5	60 17 105	M10X25 33.3 8	25 <sup>H7</sup> 45	17 105	M10X25 28.3 8	57.5 15 20.5	31 36-0.3 130	10.4±0.1 21 M8X25	179 171 96	8 120
BSA57.. BS..57/T..	60 58.5 58.5	100 146 73	112	M10 4	12 M8	35 <sup>H7</sup> 50	78 75 3	75 22 132	M12X30 38.3 10	30 <sup>H7</sup> 50	17 132	M10X25 33.3 8	72 15 18.5	31 36-0.3 160	10.4±0.1 21 M8X25	189 187 107	20 120
BSA67.. BS..67/T..	88 71.5 80.5	128 182 95.5	140	M12 5	20 M12	45 <sup>H7</sup> 65	87 84 3.5	84 29 144	M16X40 48.8 14	40 <sup>H7</sup> 65	29 144	M16X40 43.3 12	80.5 18 19.5	31 36-0.3 200	10.4±0.1 21 M12X35	236 242 135	22 160
BSA77.. BS..77/T..	102 85 85	154 204 104	180	M16 6	20 M12	60 <sup>H7</sup> 80	108 105 4	105 37 180	M20X50 64.4 18	50 <sup>H7</sup> 80	32 183	M16X45 53.8 14	101 18 32.5	54 60-0.3 250	16.4±0.08 30 M12X35	301 287 162	34 200
BSA87.. BS..87/T..	118 115 110	194 260 125	225	M16 6	26 M16	70 <sup>H7</sup> 95	128 125 5	125 34 220	M20X50 74.9 20	60 <sup>H7</sup> 95	36 220	M20X50 64.4 18	120 24 25.5	54 60-0.5 310	16.4±0.08 30 M16X45	368 340 190	37.5 250
BSA97.. BS..97/T..	160 135 113	236 301 140	280	M20 6	26 M16	90 <sup>H7</sup> 120	149 145 5	145 41 255	M24X60 95.4 25	70 <sup>H7</sup> 120	34 260	M20X50 74.9 20	140 26 33	72 80-0.5 380	25±0.08 40 M16X50	455 420 240	52 300



## BS..AD..



		G2	K2	D1	L1	L13	L14	T1	U1	M
BS..37, BS..47,S..57	AD1	120	102	16	40	4	32	18	5	M5
	AD2		130	19	40	4	32	21.5	6	M6
BS..67	AD2	160	123	19	40	4	32	21.5	6	M6
	AD3		159	24	50	5	40	27	8	M8
BS..77	AD2	200	116	19	40	4	32	21.5	6	M6
	AD3		151	24	50	5	40	27	8	M8
	AD4		224	38	80	5	70	41	10	M12
BS..87	AD2	250	111	19	40	4	32	21.5	6	M6
	AD3		156	28	60	5	50	31	8	M10
	AD4		219	38	80	5	70	41	10	M12
	AD5		292	42	110	10	70	45	12	M16
BS..97	AD3	300	151	28	60	5	50	31	8	M10
	AD4		214	38	80	5	70	41	10	M12
	AD5		287	42	110	10	70	45	12	M16
	AD6		327	48	110	10	80	51.5	14	M16

## BS..AM..

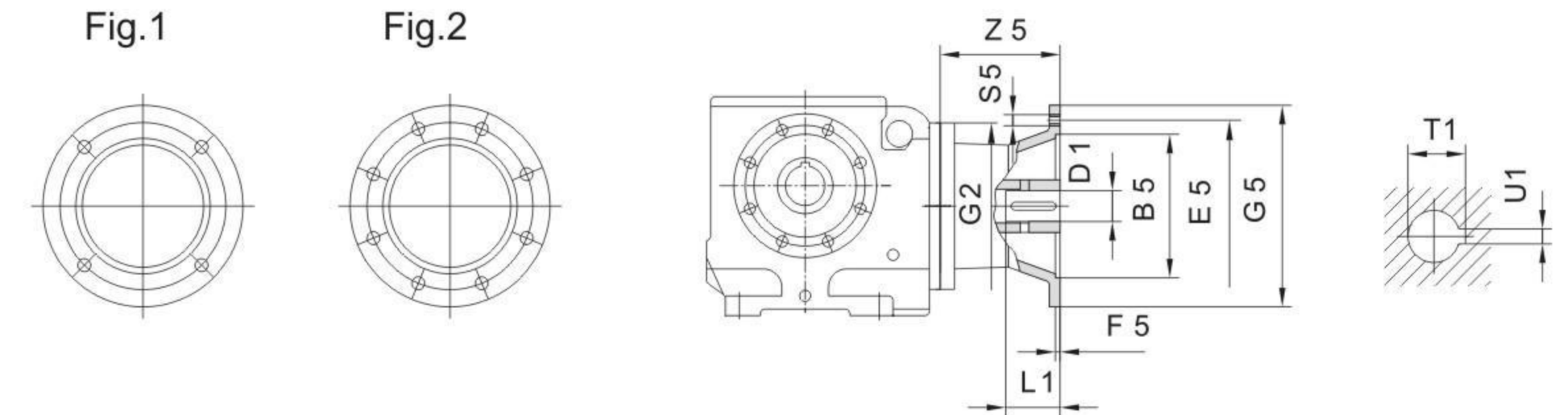
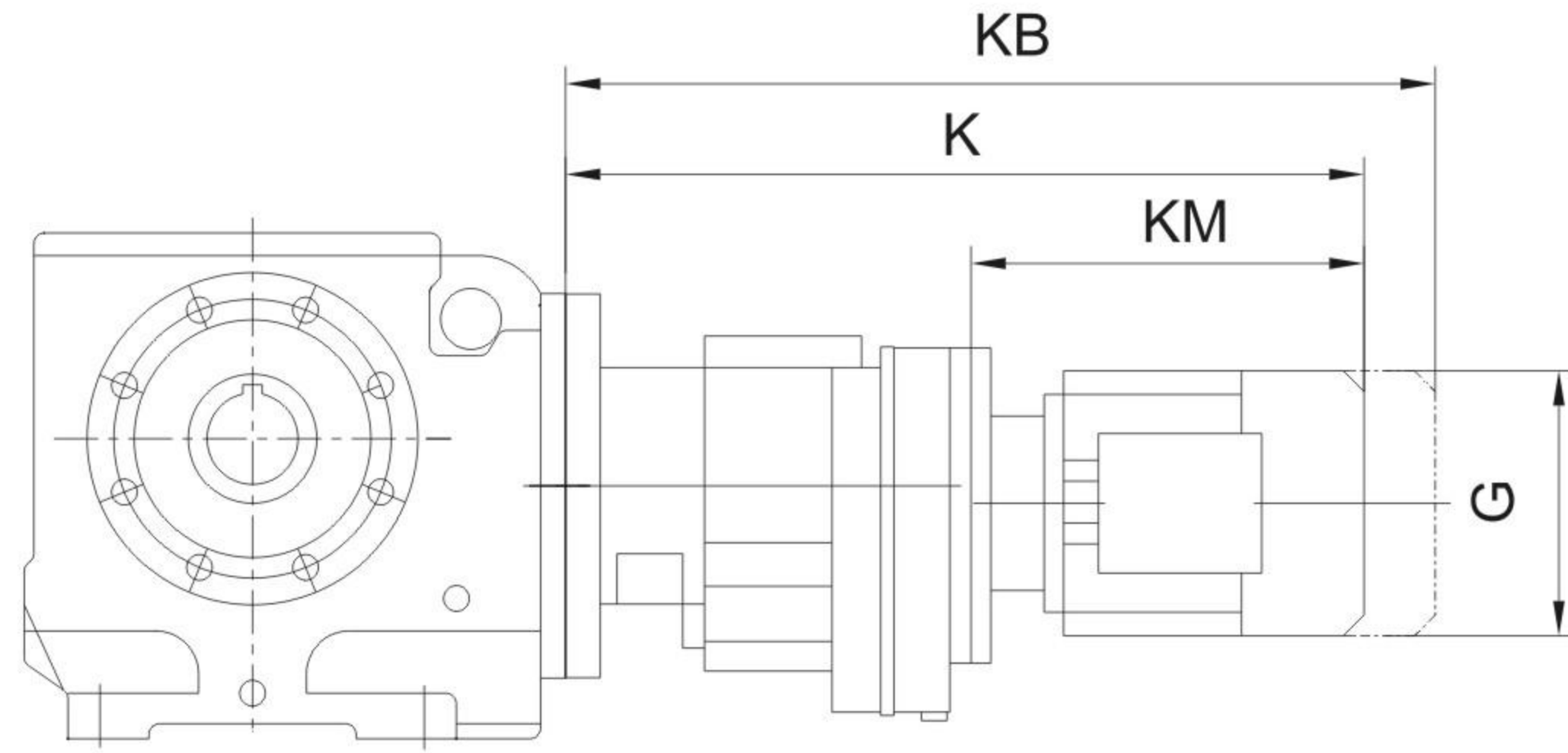


		Fig	B5	E5	F5	G2	G5	S5	Z5	D1	L1	T1	U1	
BS..37, BS..47,S..57	AM63	1	95	115	3.5	120	140	M8	72	11	23	12.8	4	
	AM71 <sup>1)</sup>		110	130			14			30	16.3	5		
	AM80 <sup>1)</sup>		130	165	4.5		200	M10		106	19	40	21.8	6
	AM90 <sup>1)</sup>										24	50	27.3	8
BS..67	AM63	1	95	115	3.5	160	140	M8	66	11	23	12.8	4	
	AM71		110	130			14			30	16.3	5		
	AM80		130	165	4.5		200	M10		99	19	40	21.8	6
	AM90										24	50	27.3	8
	AM100 <sup>1)</sup>		180	215	5		250	M12		134	28	60	31.3	8
	AM112 <sup>1)</sup>													
BS..77	AM63	1	95	115	3.5	200	140	M8	60	11	23	12.8	4	
	AM71		110	130			14			30	16.3	5		
	AM80		130	165	4.5		200	M10		92	19	40	21.8	6
	AM90										24	50	27.3	8
	AM100 <sup>1)</sup>		180	215	5		250	M12		126	28	60	31.3	8
	AM112 <sup>1)</sup>													
	AM132S <sup>1)</sup>		230	265	5		300	M12		179	38	80	41.3	10
	AM132M <sup>1)</sup>													
AM132ML <sup>1)</sup>														
BS..87	AM80	1	130	165	4.5	250	200	M10	87	19	40	21.8	6	
	AM90		24	50			27.3			8				
	AM100		180	215	5		250	M12		121	28	60	31.3	8
	AM112													
	AM132MS		230	265	5		300	M12		174	38	80	41.3	10
	AM132M													
	AM132ML		250	300	6		350	M16		232	42	110	45.3	12
	AM160 <sup>1)</sup>										48	51.8	14	
AM180 <sup>1)</sup>														
BS..97	AM100	1	180	215	5	300	250	M12	116	28	60	31.3	8	
	AM112													
	AM132S		230	265	5		300	M12		169	38	80	41.3	10
	AM132M													
	AM132ML		250	300	6		350	M16		227	42	110	45.3	12
	AM160										48	51.8	14	
	AM180		300	350	7		400	M16		268	55	140	59.3	16
	AM200 <sup>1)</sup>													
AM225 <sup>1)</sup>	2	350	400	7	450		283	60	140	64.4	18			

1) 如果安装在BS系列脚安装方式的减速机伞, 请检查尺寸G5、2, 它可能已突出安装平面。  
Dimension G5/2 May protrude past foot mounting surface if mounted on BS foot - mounted gear unit, please check.



## BS..AM..



		G	K	KB	KM
BS..37R17	D63..	155	368	425	193
	D71D	155	369	433	194
	D80..	155	419	483	244
BS..47R17 BS..57R37	D63..	155	400	425	193
	D80..	155	451	483	244
BS..67R37	D63..	155	410	457	235
	D71D	155	401	465	236
	D80..	155	451	515	286
BS..77R37	D90..	155	451	536	286
	D63..	155	392	449	235
	D71D	155	393	457	236
BS..87R57	D80..	155	443	507	286
	D90..	210	443	528	286
	D63..	155	445	502	229
	D71D	155	445	509	229
BS..97R57	D80..	155	495	559	279
	D90..	210	495	580	279
	D100M	210	545	630	329
	D100L	210	565	650	349
	D63..	155	440	497	229
	D71D	155	440	504	229
	D80..	155	490	554	279
BS..97R57	D90..	210	510	595	299
	D100M	210	540	625	329
	D100L	210	560	645	349
	D112M	240	575	655	364

注：上表中电机尺寸为参考尺寸，因空间限制对电机尺寸有严格要求时请向我公司咨询。  
Notes: The dimension of motor in the above table is only reference. If you have special require require. pls consult us.

## 9. 设计和装配注意事项 Important notes of design and mounting

### 9.1 拆装单键空心轴减速机

#### 9.1 Installation / removal of gear units with hollow shafts and keys

重要提示  
Installation

· 在装配过程中一定要使用所供应的润滑剂。它的作用是防止接触腐蚀和便于拆卸。  
Always use the supplied NOCO Fluid paste during the assembly procedure. It avoids contact corrosion and easy for disassembly.  
· 键的尺寸X是由用户确定，但X必须>Dk。  
The key dimension X is defined by the customer, however X must be >DK.

安装  
Customer shaft

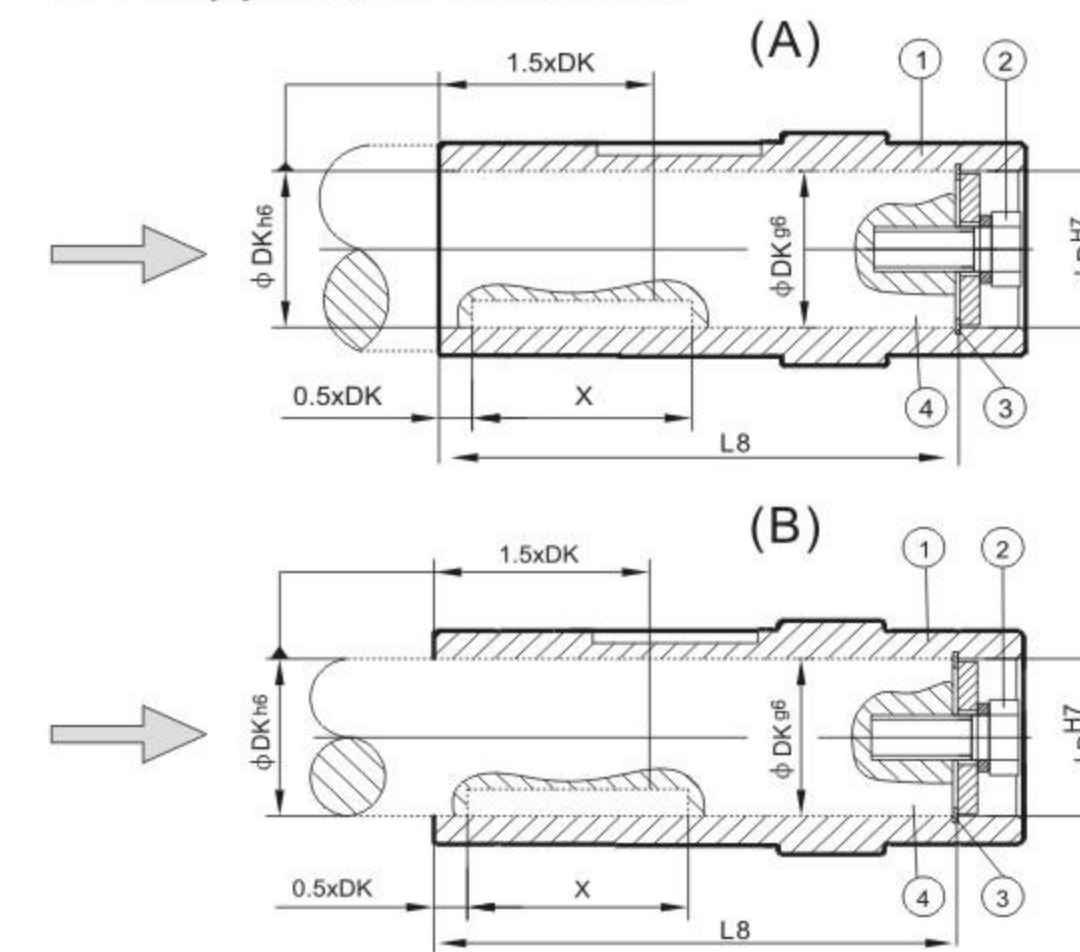
DAIFUSI 推荐两种方法将用户轴安装到单键空心轴上。  
DAIFUSI recommends two methods for mounting gear unit with hollow shafts and keys onto the input shaft of the driven machine (=customer shaft):  
1. 用提供的固定件进行装配  
Install with supplied fastening elements  
2. 用DAIFUSI可选件:装卸工具进行装配  
Install using the optional DAIFUSI installation/removal kit

#### 9.1.1 提供的固定件

##### 9.1.1 Supplied fastening elements

DAIFUSI 标准产品提供下列固定件：  
The following fastening elements are supplied as standard:

- 带垫片的紧固螺栓 Retaining screw with washer ①
- 孔用挡圈 Circlip ②



带轴肩的用户轴  
用户轴的安装长度必须为L8-1(mm)(图)  
Installation length of customer shaft with contact shoulder(A) must be L8 - 1mm

用户轴不带轴肩  
安装长度必须等于L8(图)  
Installation length of customer shaft with contact shoulder(B) must equal to L8

紧固螺栓要拧紧到MS所示拧紧力矩值  
The retaining screw ② must be tightened to the tightening torque MS listed in the following table

- ① 空心轴 Hollow shaft
- ② 带垫片的紧固螺栓 Retaining screw with washer
- ③ 孔用挡圈 Circlip
- ④ 用户轴 Customer shaft

图：空心轴组装示意图(带轴肩的用户轴)

Fig: Customer shaft with contact shoulder(A)and without contact shoulder (B)

减速机型号 Gear unit type	D <sup>H7</sup> [mm]	DK[mm]	L8[mm]	MS[Nm]
BSA..37	20	20	84, 106, 104	8
BSA..47	25	25	105	20
BFA..37,BKA..37,BSA..47 ,BSA..57	30	30	105 132	20
BFA..47,BKA..47,BSA..57	35	35	132	20
BFA..57,BKA..57 BFA..67,BKA..67 BSA..67	40	40	142 156 144	40
BSA..67	45	45	144	40
BFA..77,BKA..77,BSA..77	50	50	183	40
BFA..87,BKA..87 BSA..77,BSA..87	60	60	210 180,220	80
BFA..97,BKA..97 BSA..87,BSA..97	70	70	270 220,260	80
BFA..107,BKA..107,BSA..97	90	90	313,313,255	200
BFA..127,BKA..127	100	100	373	200
BFA..157,BKA..157	120	120	460	200



## 8.1.2 DAIFUSI 拆装工具

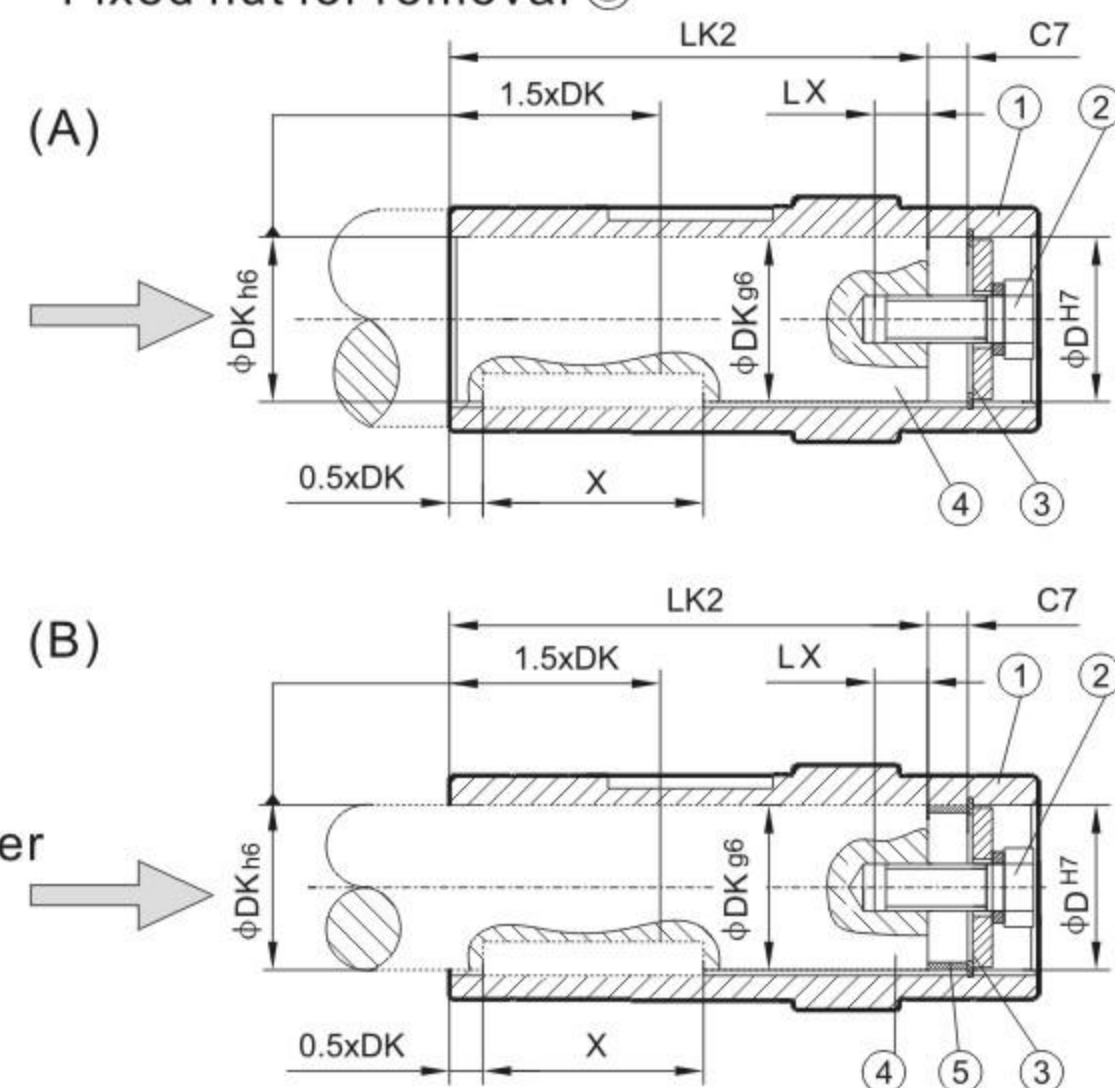
### 8.1.2 DAIFUSI installation / removal kit

可使用DAIFUSI的选件：拆装工具进行装配。可以通过表中给出的零件号订购减速机的拆装工具。DAIFUSI 的拆装工具包含以下零件：

- 对没有轴肩的用户轴装配所用的轴套
- 拆卸用的压盘
- 装配用的紧固螺栓
- 拆卸用的锁母

You can use the optional DAIFUSI installation/removal kit for installation. The kit can be ordered for the specific gear unit types by quoting the part numbers in the table below. The accessories of the tools includorg:

- Distance piece for installation without contact shoulder ⑤
- Retaining screw for installation ②
- Removal washer for installation ⑦
- Fixed nut for removal ⑧



**带轴肩的用户轴**  
安装长度LK2【→图A】不使用轴套  
The installation length of the customer shaft must be LK2. The distance piece must not be used if the customer shaft does have a contact shoulder (A).

**不带轴肩的用户轴**  
安装长度LK2【→图B】轴套必须使用  
The installation length of the customer shaft must be LK2. The distance piece must not be used if the customer shaft does have a contact shoulder (B).

- ① 空心轴
- ② 带垫片的紧固螺栓
- ③ 孔用挡圈
- ④ 用户轴
- ⑤ 轴套
- ① Hollow shaft
- ② Retaining screw with washer
- ③ Circlip
- ④ Customer shaft
- ⑤ Distance piece

图：带轴肩附用户轴 (A) 和不带轴肩附用户轴(B)  
Fig: Customer shaft with contact shoulder(A)and without contact shoulder (B)

减速器型号 Gear unit type	D <sup>H7</sup> [mm]	DK[mm]	LK2[mm]	LX <sup>2</sup> [Nm]	C7[Nm]	MS[Nm]
BSA..37	20	20	92	16	12	8
BSA..47	25	25	89	22	16	20
BFA..37,BKA..37,BSA..47 BSA..57	30	30	89 89,116	22	16	20
BFA..47,BKA..47,BSA..57	35	35	114	28	18	20
BFA..57,BKA..57 BFA..67,BKA..67 BSA..67	40	40	124 138,138,126	36	18	40
BSA..67	45	45	126	36	18	40
BFA..77,BKA..77,BSA..77	50	50	165	36	18	40
BFA..87,BKA..87 BSA..77,BSA..87	60	60	188 158,198	42	22	80
BFA..97,BKA..97 BSA..87,BSA..97	70	70	248 198,238	42	22	80
BFA..107,BKA..107,BSA..97	90	90	287 229	50	26	200
BFA..127,BKA..127	100	100	347	50	26	200
BFA..157,BKA..157	120	120	434	50	26	200

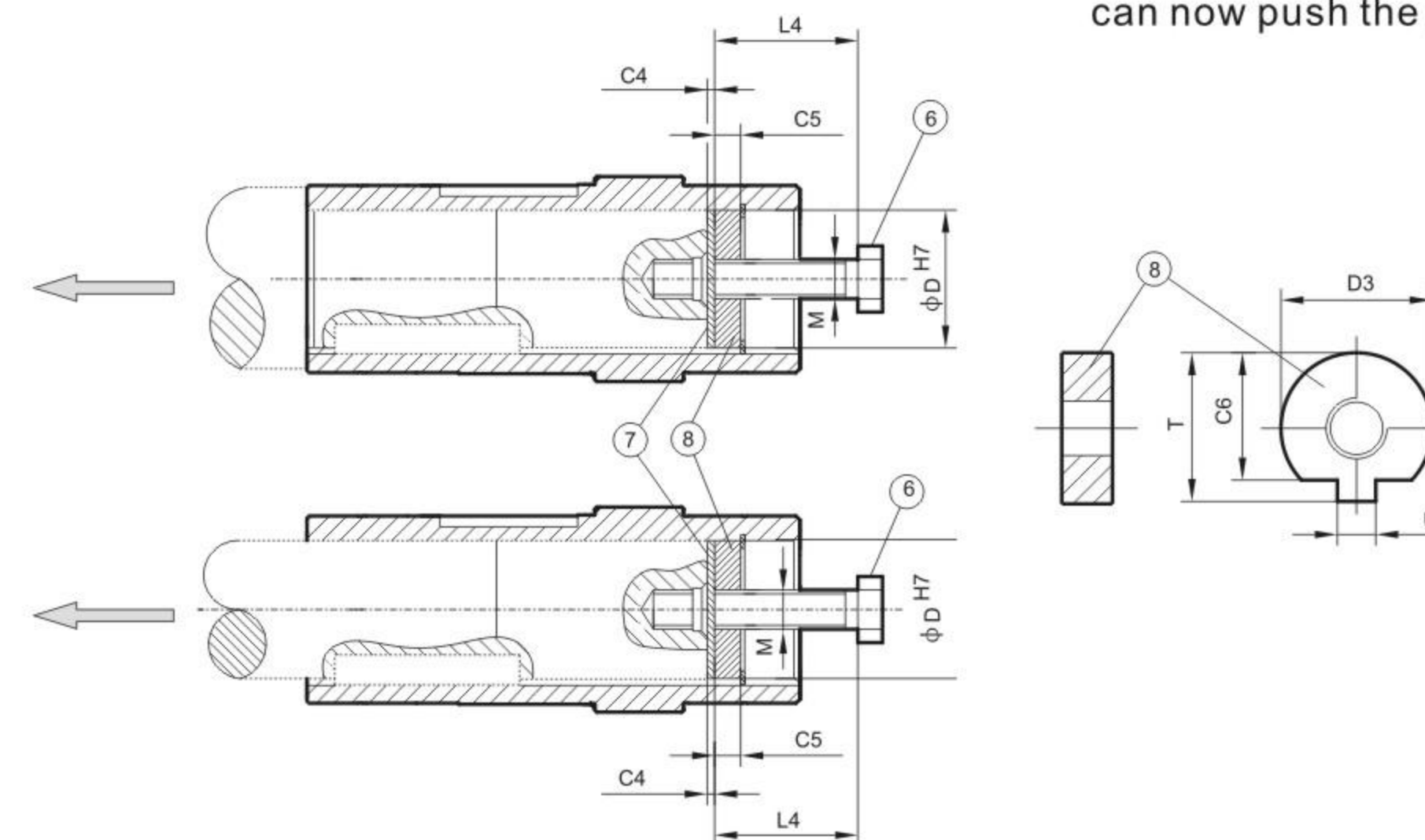
## 拆卸 Removal

用DAIFUSI的拆装工具进行装配，须按以下步骤进行拆卸

1. 拆下紧固螺栓⑥
  2. 拆下挡圈③,若使用了轴套⑤也一并拆下
  3. 在用户轴④和挡圈③之间按图13装上压盘⑦和锁母⑧
  4. 重新装上挡圈③
  5. 重新装上紧固螺栓⑥
- 这样就可以把轴拆下来。

Applies prior installation with the DAIFUSI installation/removal kit only.

- Proceed as follows for removal:
1. Remove the retaining screw ⑥
  2. Remove the Circlip ③ and if used, the distance piece ⑤
  3. Insed the removal washer ⑦ and the fixed nut ⑧ between the customer shaft ④ and circlip ③ according to Fig.
  4. Re-insert the circlip ③.
  5. Re-insert the retaining screw ⑥. You can now push the gear unit off the shaft.



- ⑥ 螺栓 Retaining screw
- ⑦ 压盘 Removal washer
- ⑧ 拆卸用锁母 Fixed nut for removal

图：空心轴拆卸示意图  
Fig. Removal

型号 Model	D <sup>H7</sup> [mm]	M	C4 [mm]	C5 [mm]	C6 [mm]	U <sup>-0.5</sup> [mm]	T3 <sup>-0.5</sup> [mm]	D <sup>-0.5L4</sup> [mm]	拆装工具 零件号 Installation/ removal kit part number
BSA..37	20	M6	5	6	15.5	5.5	22.5	19.7	25
BSA..47	25	M10	5	10	20	7.5	28	24.7	35
BFA..37,BKA..37,BSA..57	30	M10	5	10	25	7.5	33	29.7	35
BFA..47,BSA..57	35	M12	5	12	29	9.5	38	34.7	45
BFA..57,BKA..57,BFA..67,BKA..67,BSA..67	40	M16	5	12	34	11.5	41.9	39.7	50
BSA..67	45	M16	5	12	38.5	13.5	48.5	44.7	50
BFA..77,BKA..77,BSA..77	50	M16	5	12	43.5	13.5	53.5	49.7	50
BFA..87,BKA..87,BSA..77,BSA..87	60	M20	5	16	56	17.5	64	59.7	60
BFA..97,BKA..97,BSA..97	70	M20	5	16	65.5	19.5	74.5	69.7	60
BFA..107,BKA..107,BSA..97	90	M24	5	20	80	24.5	95	89.7	70
BFA..127,BKA..127	100	M24	5	20	89	27.5	106	99.7	70
BFA..157,BKA..157	120	M24	5	20	107	31	127	119.7	70



## 9.2 带轴阶的空心轴和锁紧盘选件 9.2 Shouldered hollow shaft with shrink disk (option)

带空心轴锁紧盘的减速机(BFH/FHF/FHZ37-157)平行轴减速机BKH/KHF/KHZ37-157斜齿轮-锥齿轮减速机和BSH/SHF47-97斜齿轮蜗轮蜗杆减速机, 可提供较大的轴孔直径D'作为选件 D=D'为标准产品

Gear units with a hollow shaft and shrink disk (parallel shaft helical gear units H/FHF/SH/SHF47-97) can be supplied with an optional larger hole diameter D' The standard is D' = D.

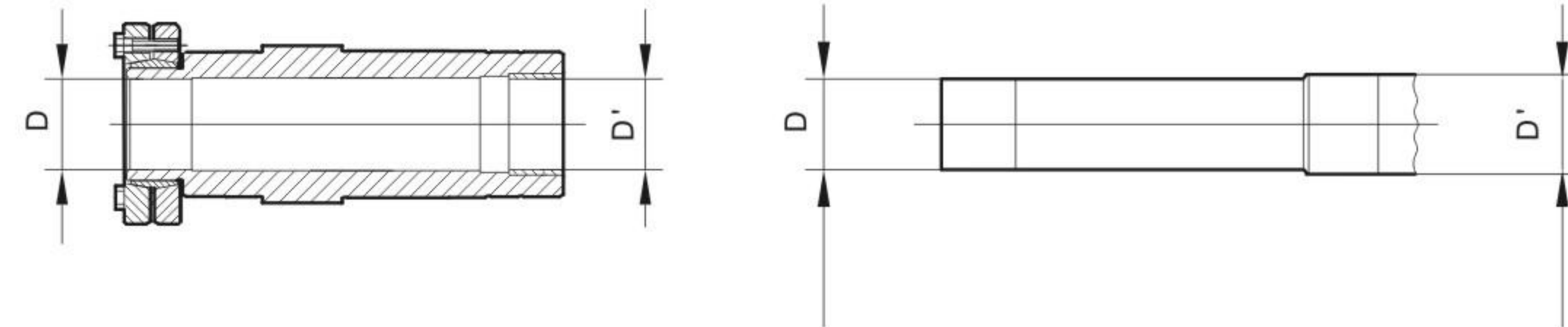


图: 选件轴孔直径D'  
Fig: Optional hole diameter D'

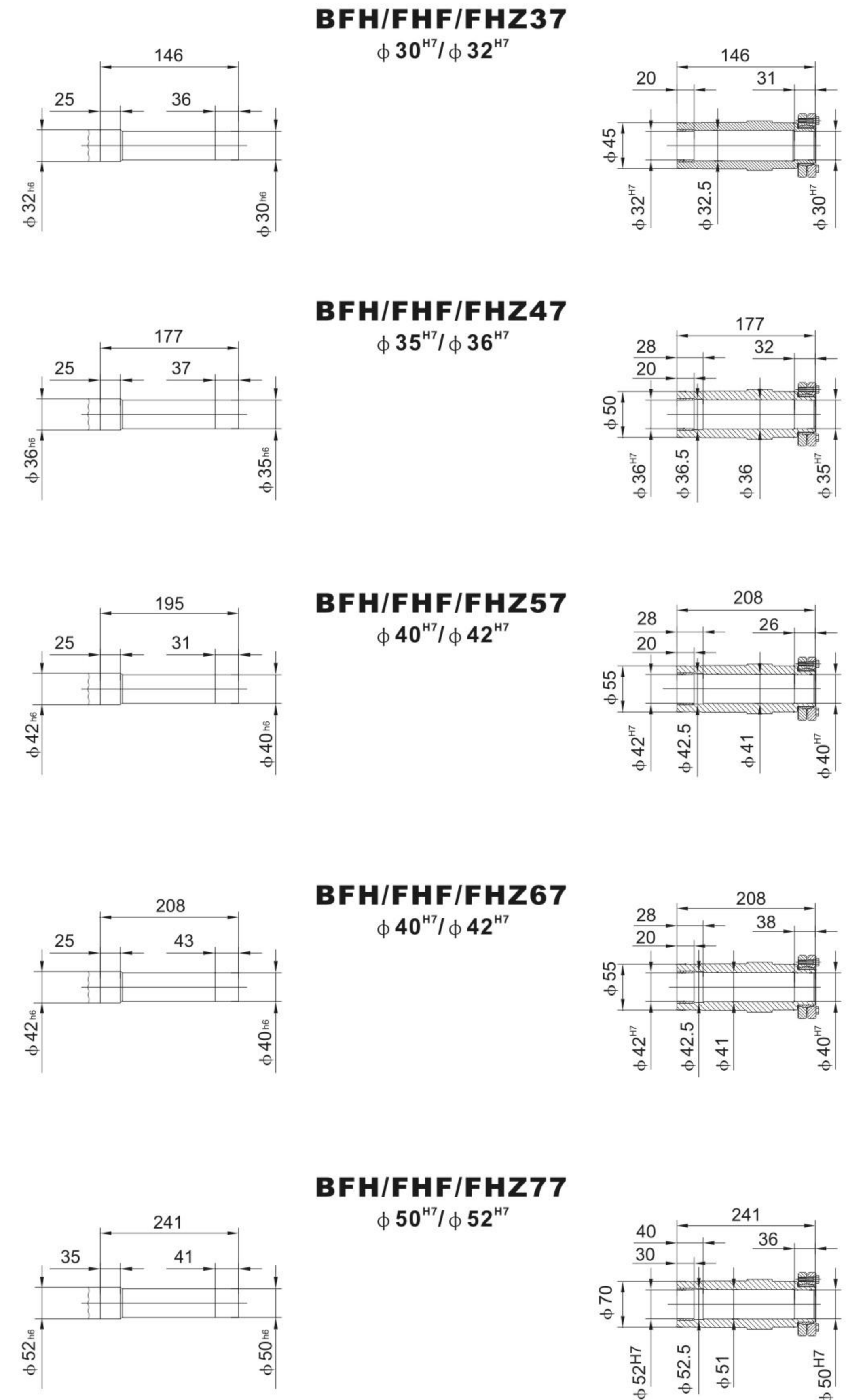
减速器型号 Gear unit size	孔径 D/D'	Hole diameter
BFH/FHF/FHZ37,BKH/KHF/KHZ37,BSH/SHF/SHZ47	30/32	
BFH/FHF/FHZ47,BKH/KHF/KHZ47,BSH/SHF/SHZ57	35/36	
BFH/FHF/FHZ57,BKH/KHF/KHZ57	40/42	
BFH/FHF/FHZ67,BKH/KHF/KHZ67,BSH/SHF/SHZ67	40/42	
BFH/FHF/FHZ77,BKH/KHF/KHZ77,BSH/SHF/SHZ77	50/52	
BFH/FHF/FHZ87,BKH/KHF/KHZ87,BSH/SHF/SHZ87	65/66	
BFH/FHF/FHZ97,BKH/KHF/KHZ97,BSH/SHF/SHZ97	75/76	
BFH/FHF/FHZ107,BKH/KHF/KHZ107	95/96	
BFH/FHF/FHZ127,BKH/KHF/KHZ127	105/106	
BFH/FHF/FHZ157,BKH/KHF/KHZ157	125/126	

订购带轴阶的空心轴减速机(可选轴孔直径D')必须注明D/D'尺寸。

例如: BFH37 D80N4 30/32

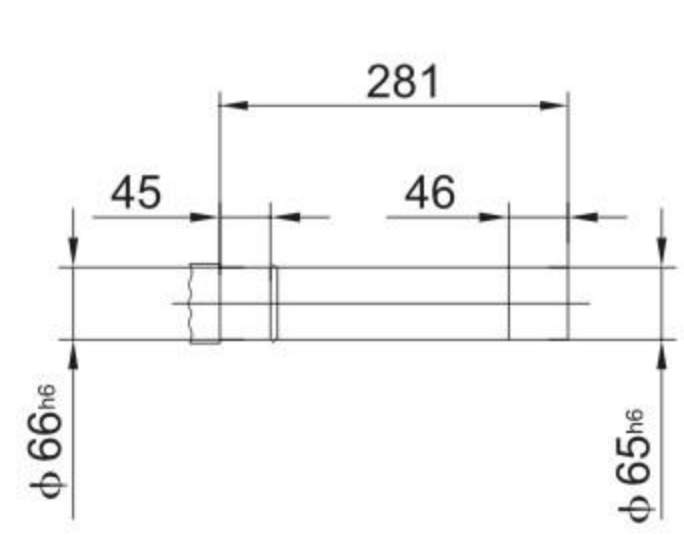
Diameter D/D' must be specified when ordering gear units with a shouldered hollow shaft (optional hole diameter D').

## 带轴阶空心轴和锁紧盘的平行轴减速电机 Parallel shaft helical gear unit with shouldered hollow shaft

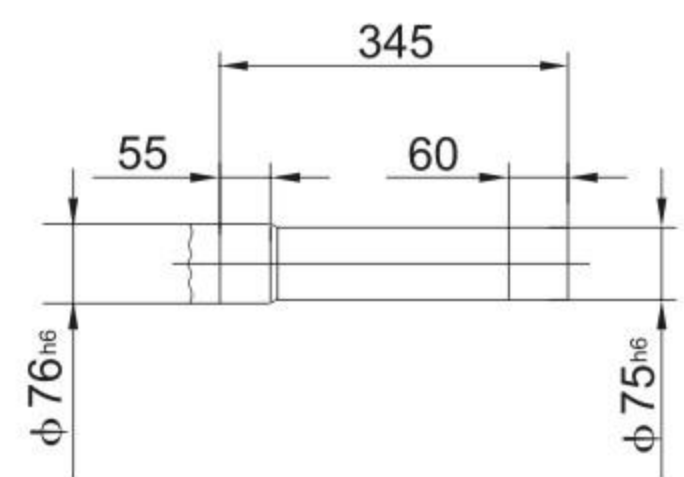
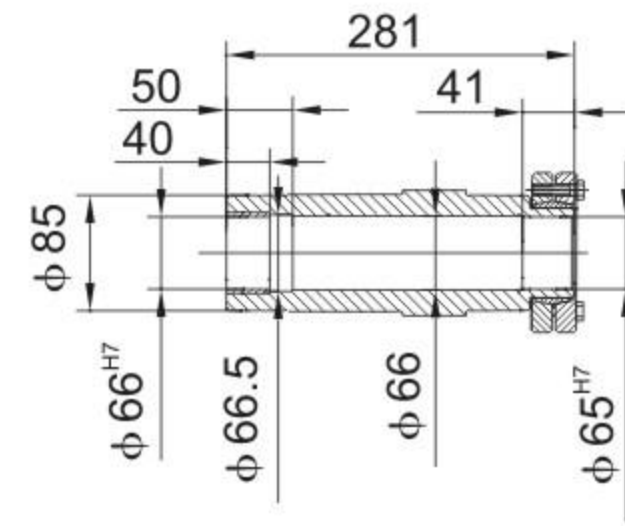




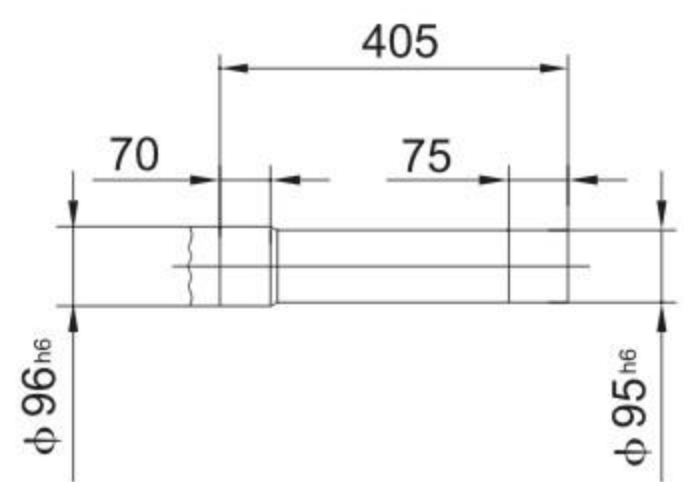
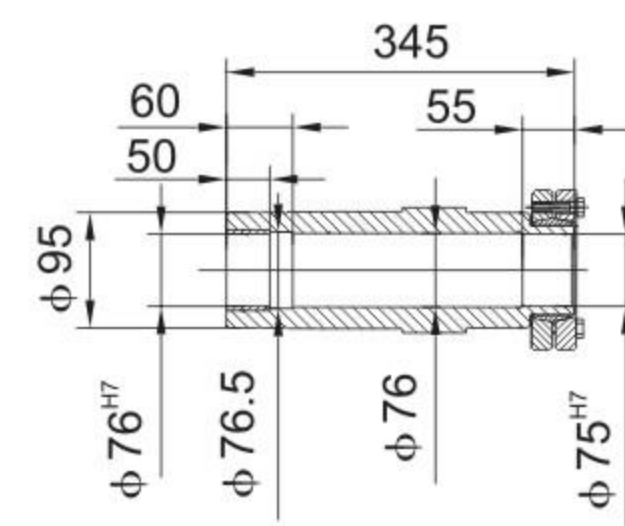
带轴阶空心轴和锁紧盘的斜齿轮—锥齿轮减速电机  
Helical – bevel gear unit with shouldered hollow shaft



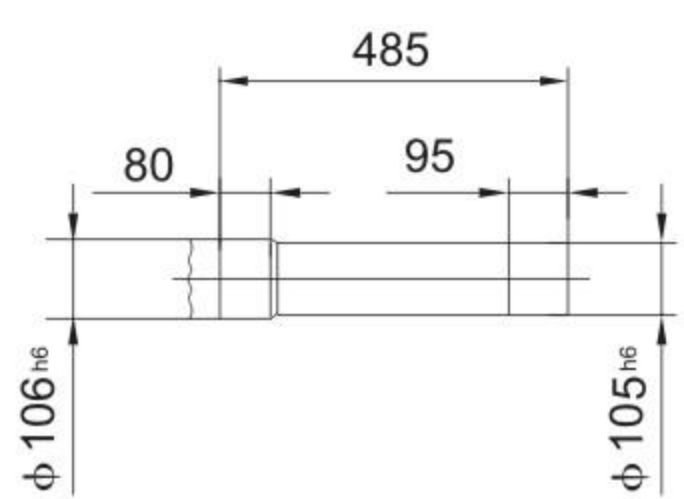
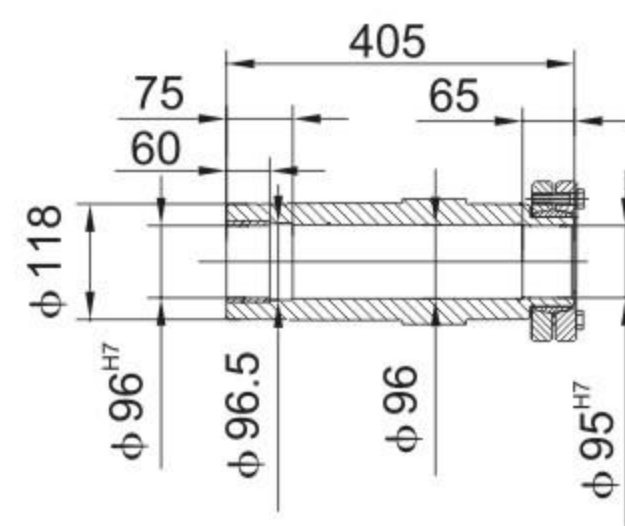
**BFH/FHF/FHZ87**  
 $\phi 65^{H7} / \phi 66^{H7}$



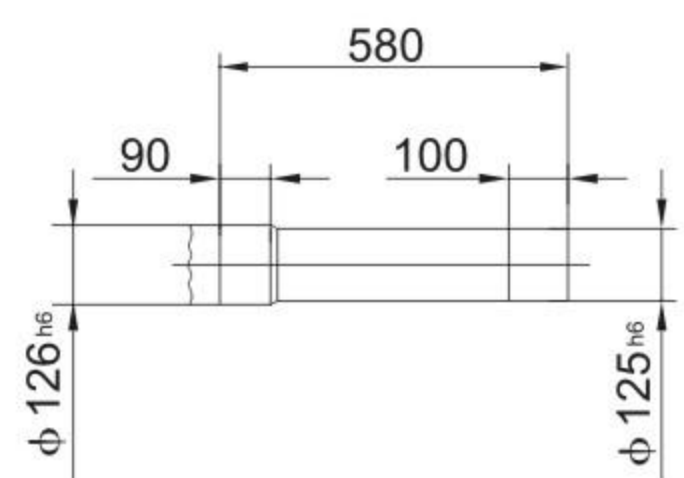
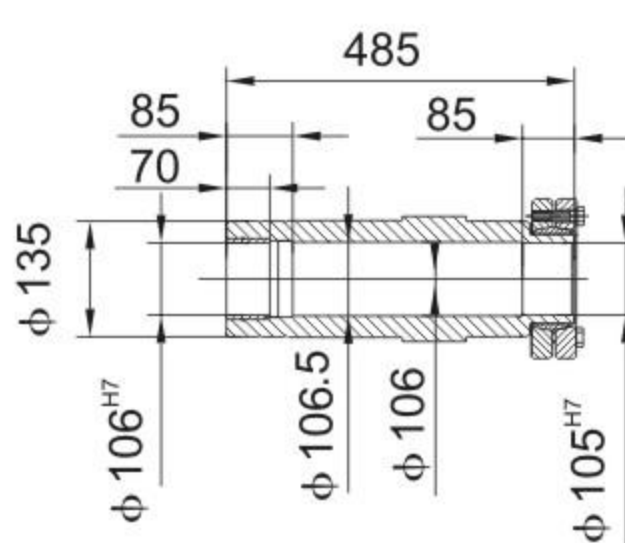
**BFH/FHF/FHZ97**  
 $\phi 75^{H7} / \phi 76^{H7}$



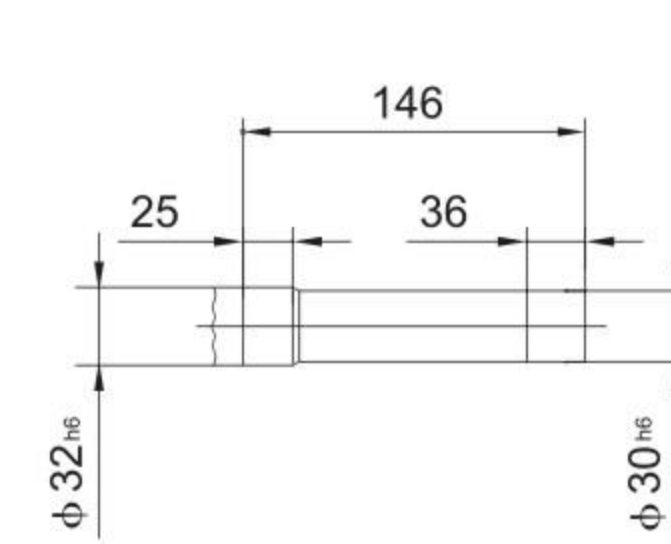
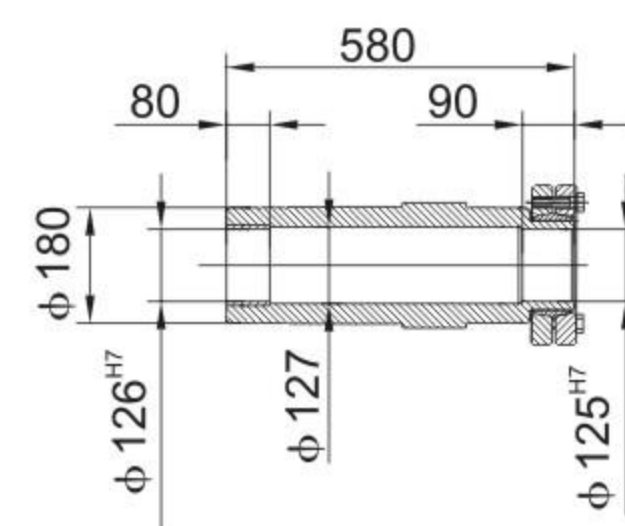
**BFH/FHF/FHZ107**  
 $\phi 95^{H7} / \phi 96^{H7}$



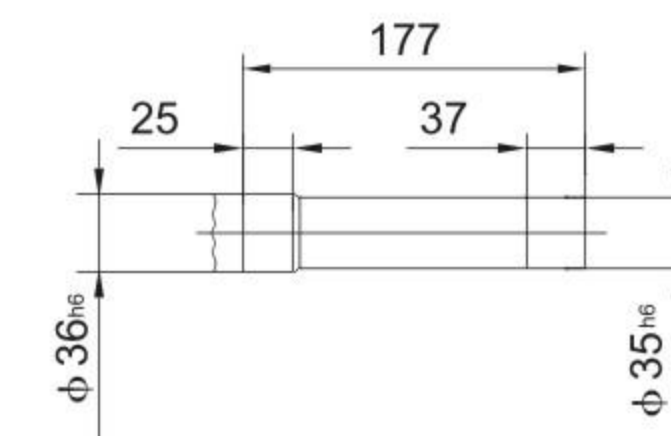
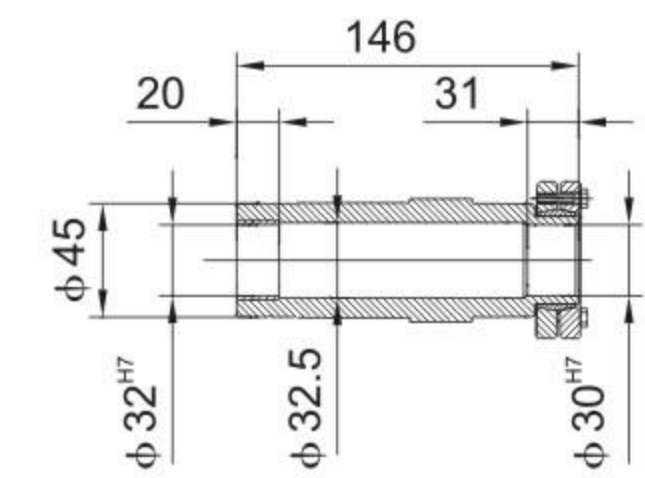
**BFH/FHF/FHZ127**  
 $\phi 105^{H7} / \phi 106^{H7}$



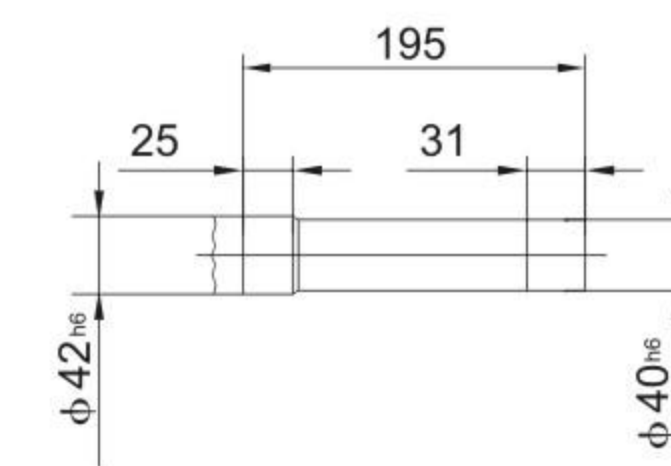
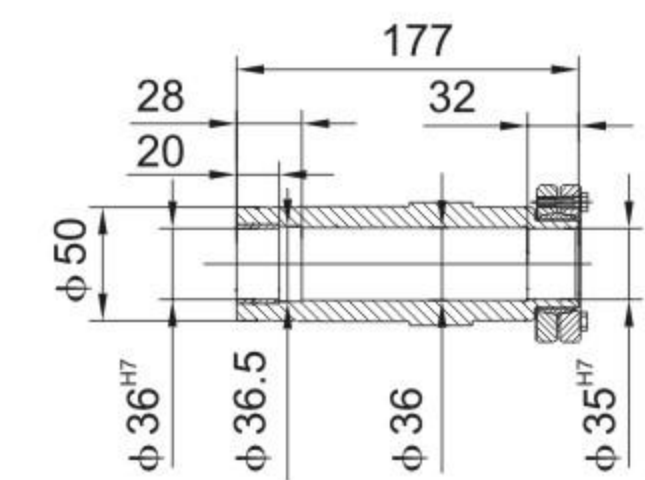
**BFH/FHF/FHZ157**  
 $\phi 125^{H7} / \phi 126^{H7}$



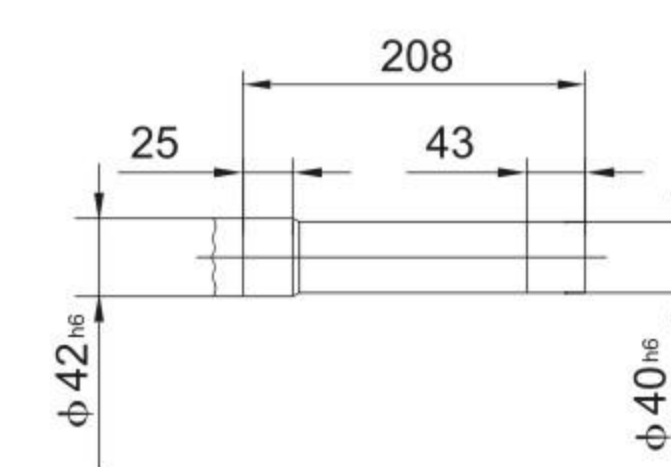
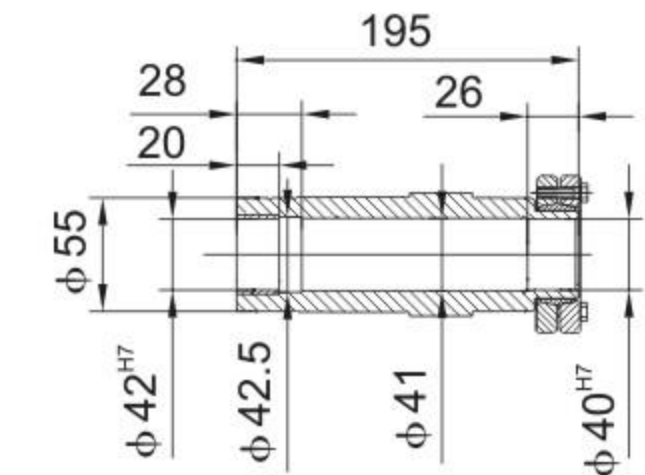
**BKH/KHF/KHZ37**  
 $\phi 30^{H7} / \phi 32^{H7}$



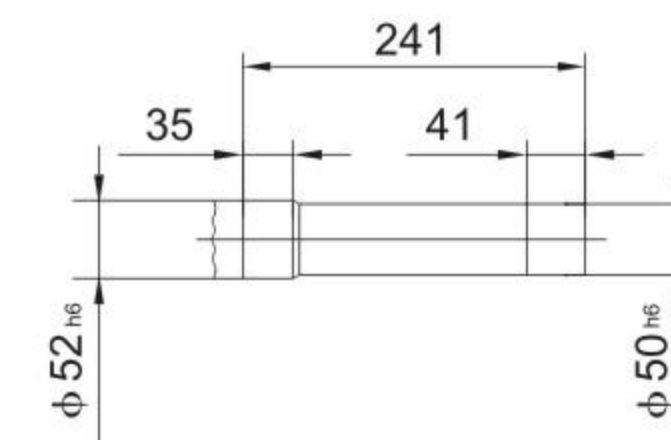
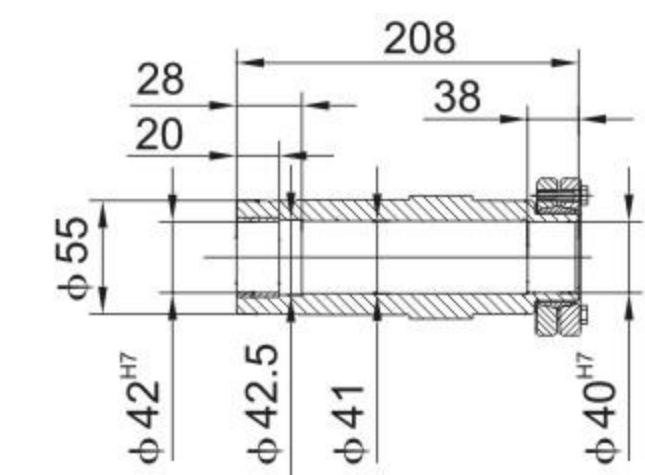
**BKH/KHF/KHZ47**  
 $\phi 35^{H7} / \phi 36^{H7}$



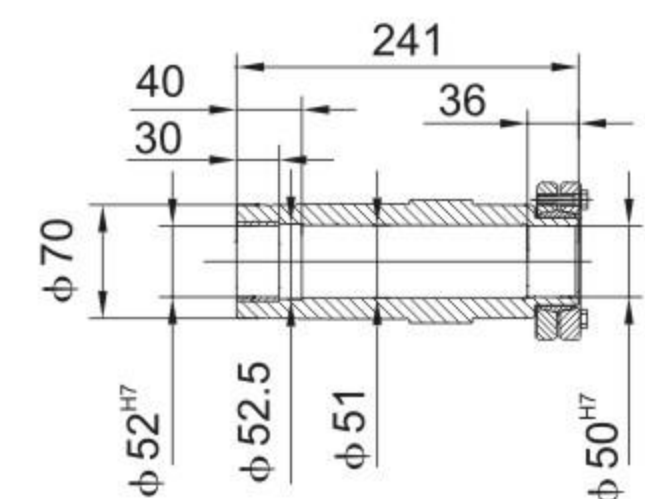
**BKH/KHF/KHZ57**  
 $\phi 40^{H7} / \phi 42^{H7}$



**BKH/KHF/KHZ67**  
 $\phi 40^{H7} / \phi 42^{H7}$

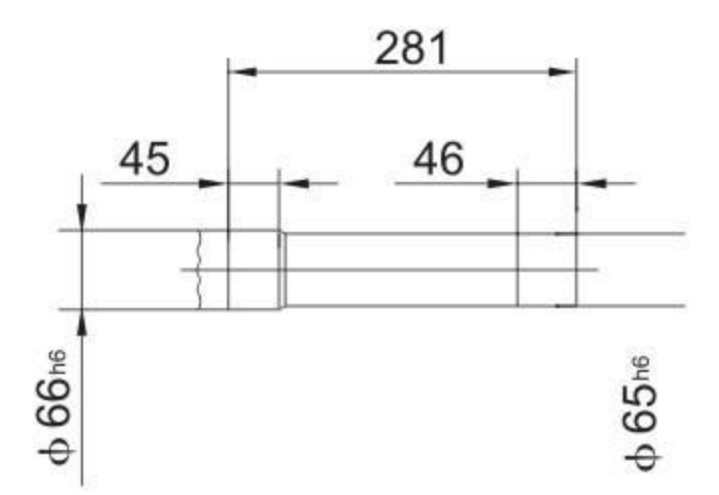


**BKH/KHF/KHZ77**  
 $\phi 50^{H7} / \phi 52^{H7}$

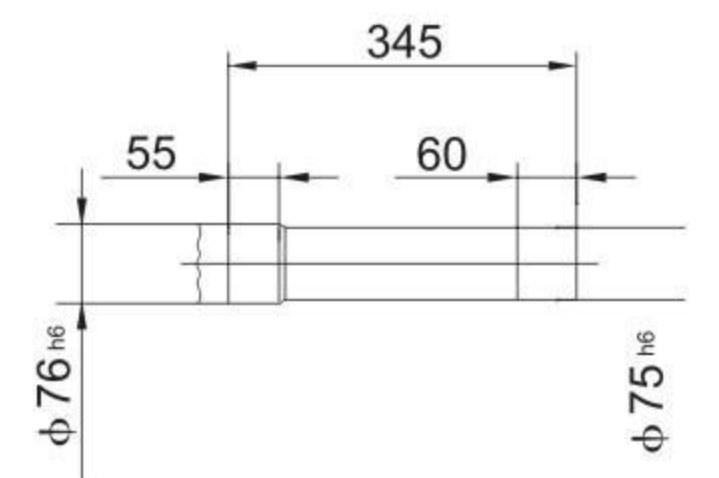
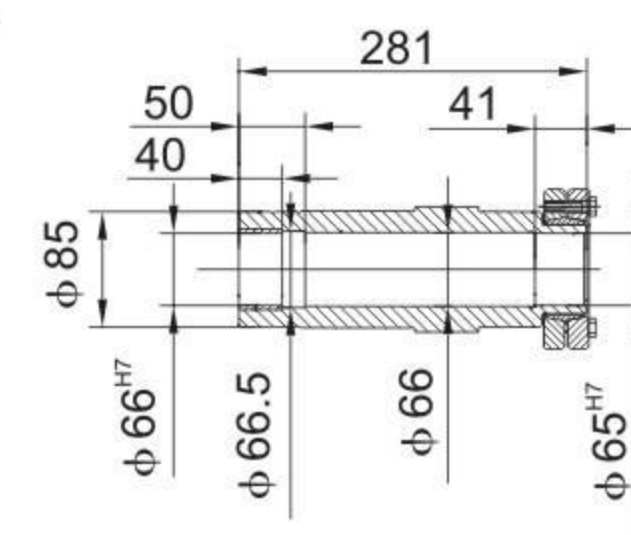




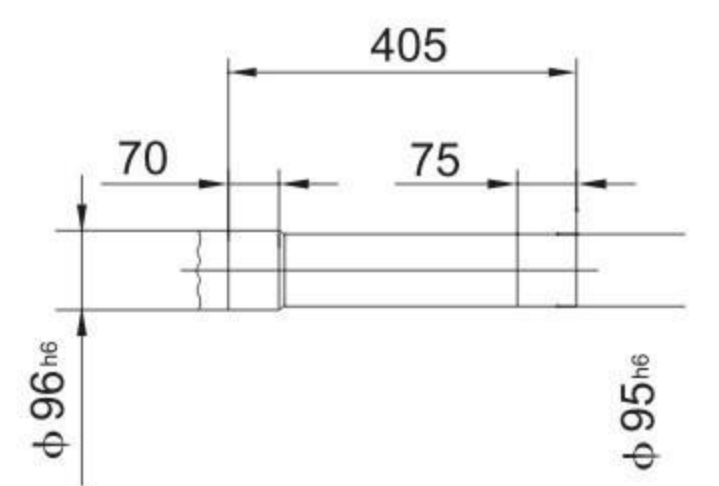
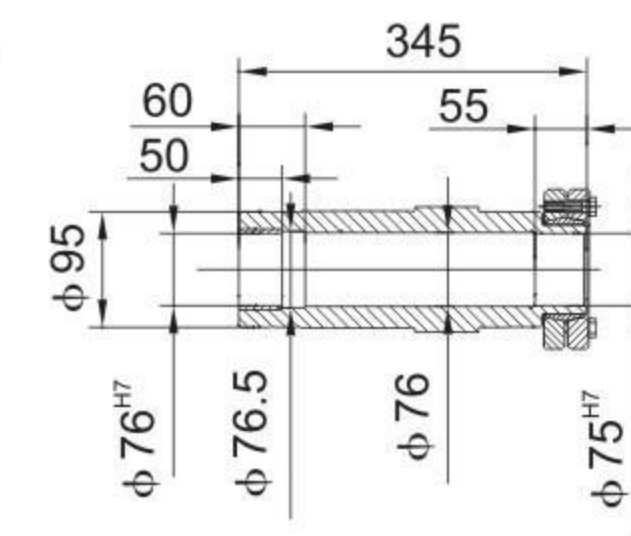
带轴阶空心轴和锁紧盘的斜齿轮—蜗杆减速电机  
Helical – worm gear unit with shouldered hollow shaft



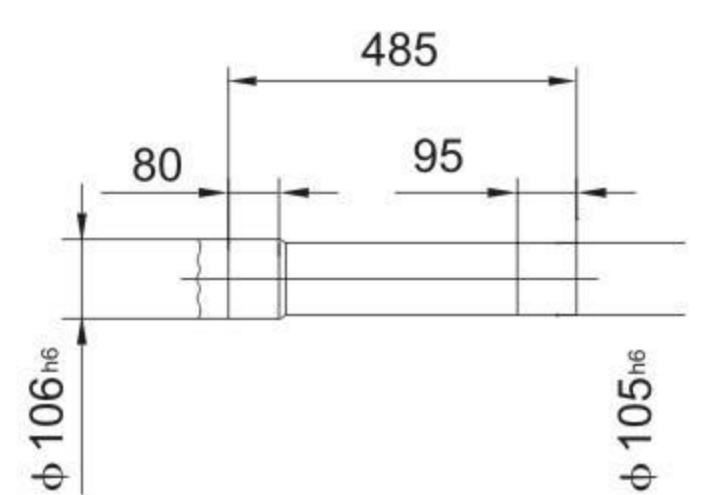
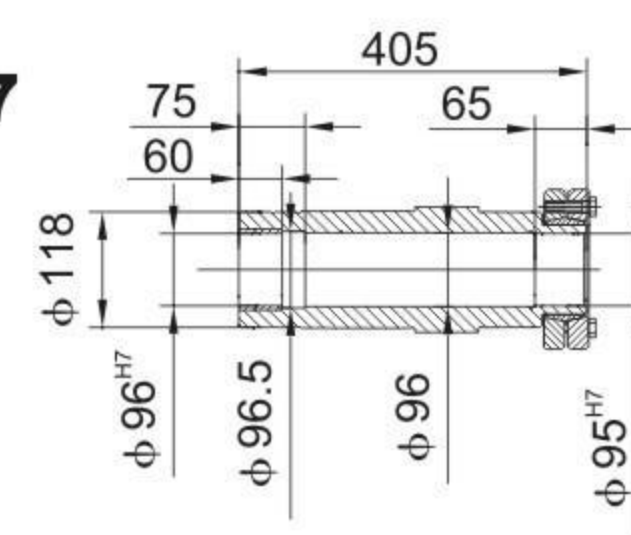
**BKH/KHF/KHZ87**  
 $\phi 65^{H7} / \phi 66^{H7}$



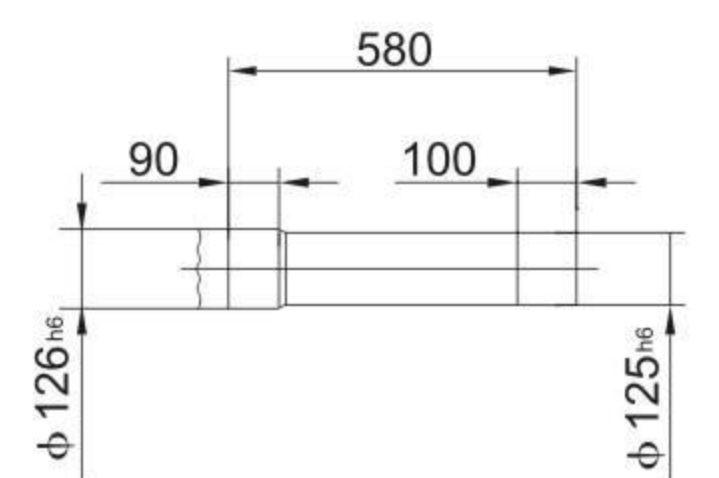
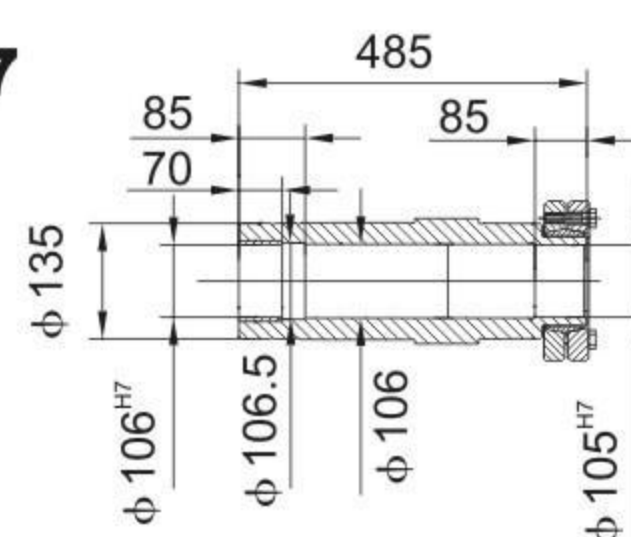
**BKH/KHF/KHZ97**  
 $\phi 75^{H7} / \phi 76^{H7}$



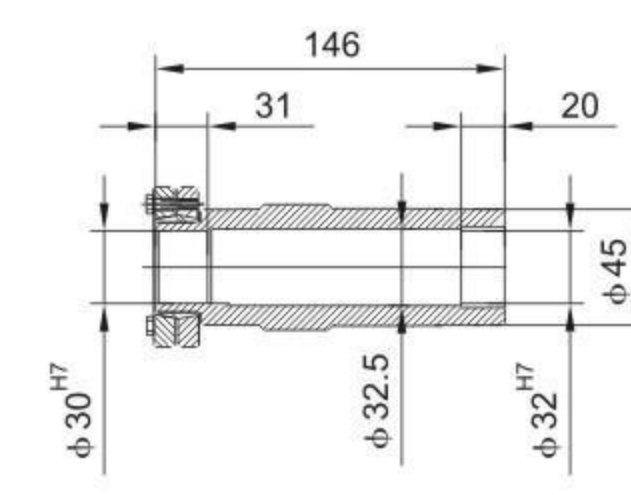
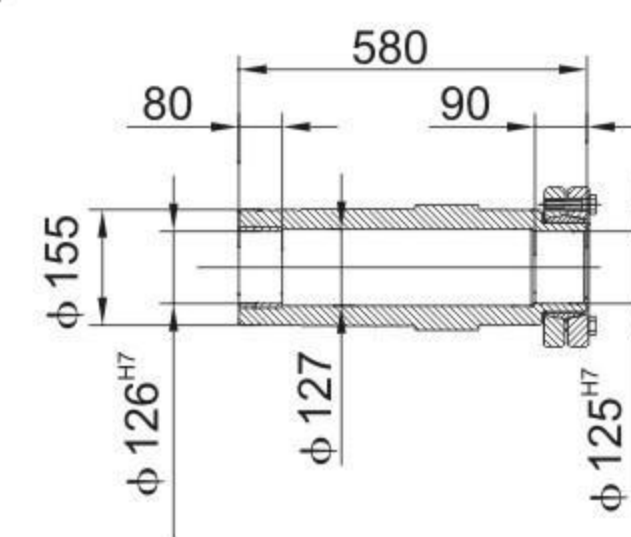
**BKH/KHF/KHZ107**  
 $\phi 95^{H7} / \phi 96^{H7}$



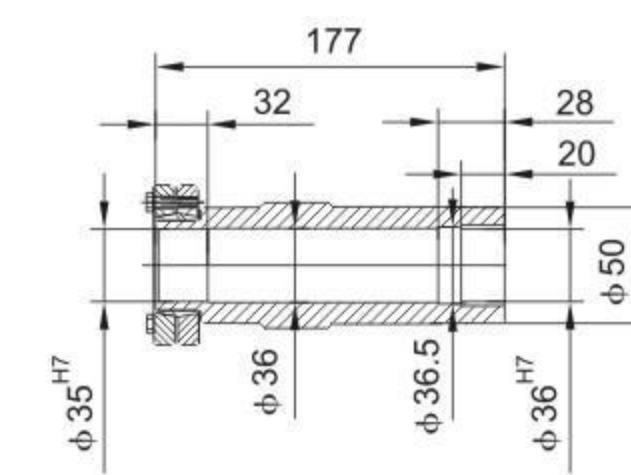
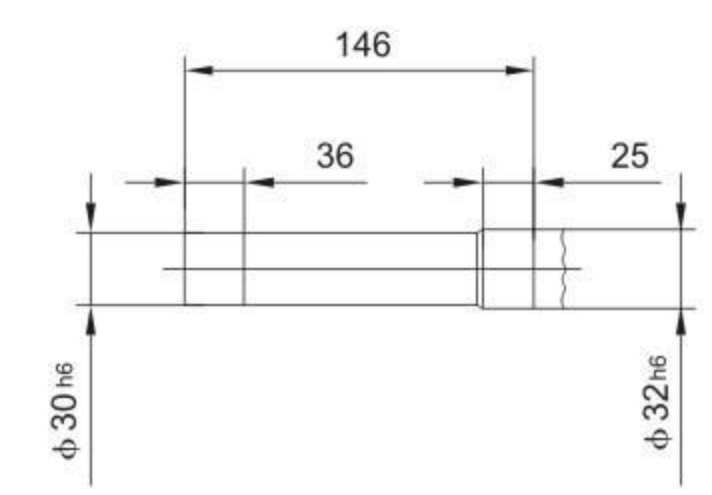
**BKH/KHF/KHZ127**  
 $\phi 105^{H7} / \phi 106^{H7}$



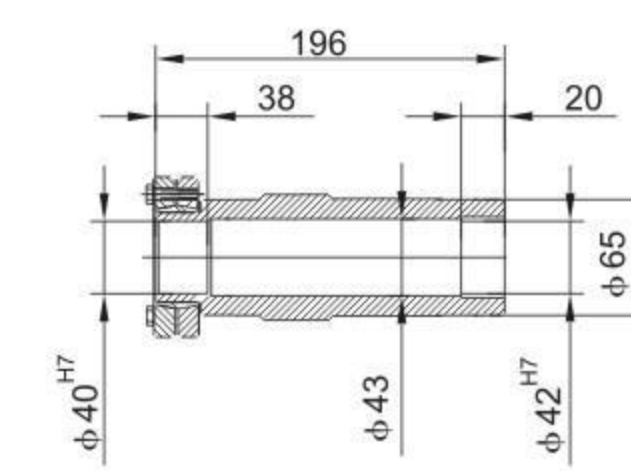
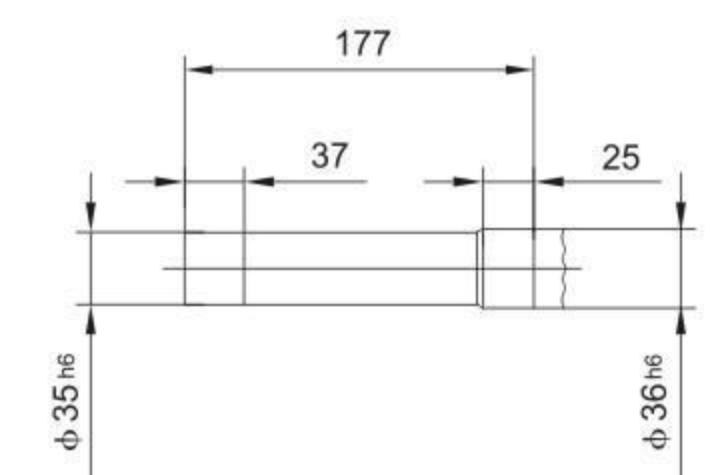
**BKH/KHF/KHZ157**  
 $\phi 125^{H7} / \phi 126^{H7}$



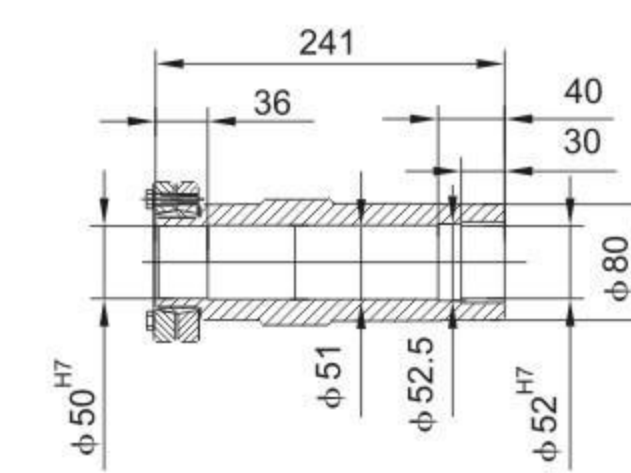
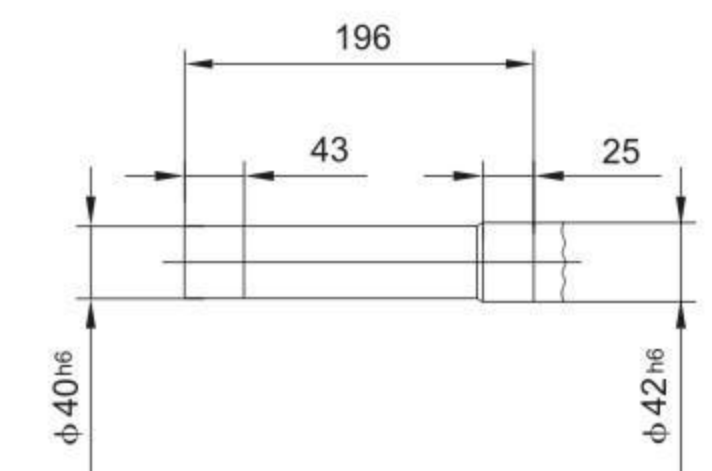
**BSH/SHF/SHZ47**  
 $\phi 30^{H7} / \phi 32^{H7}$



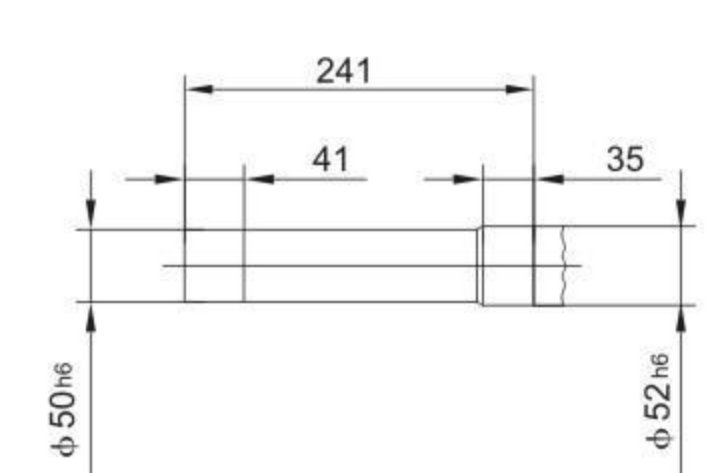
**BSH/SHF/SHZ57**  
 $\phi 35^{H7} / \phi 36^{H7}$



**BSH/SHF/SHZ67**  
 $\phi 40^{H7} / \phi 42^{H7}$

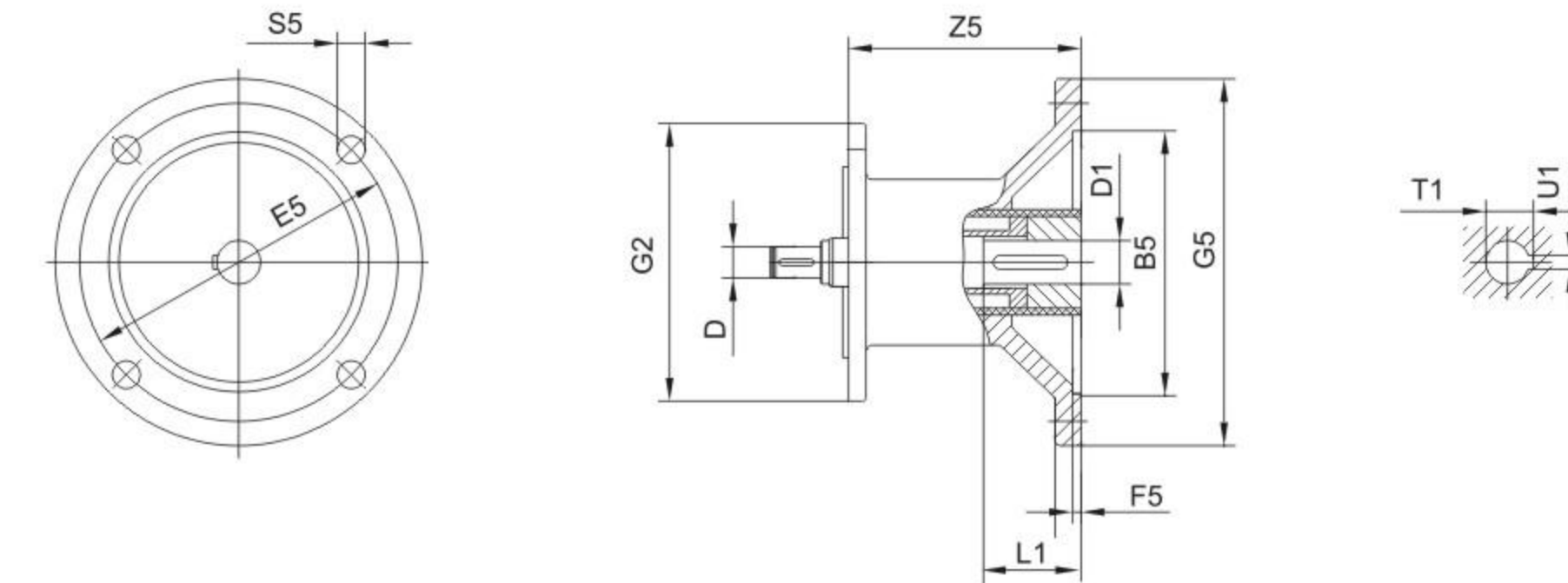


**BSH/SHF/SHZ77**  
 $\phi 50^{H7} / \phi 52^{H7}$



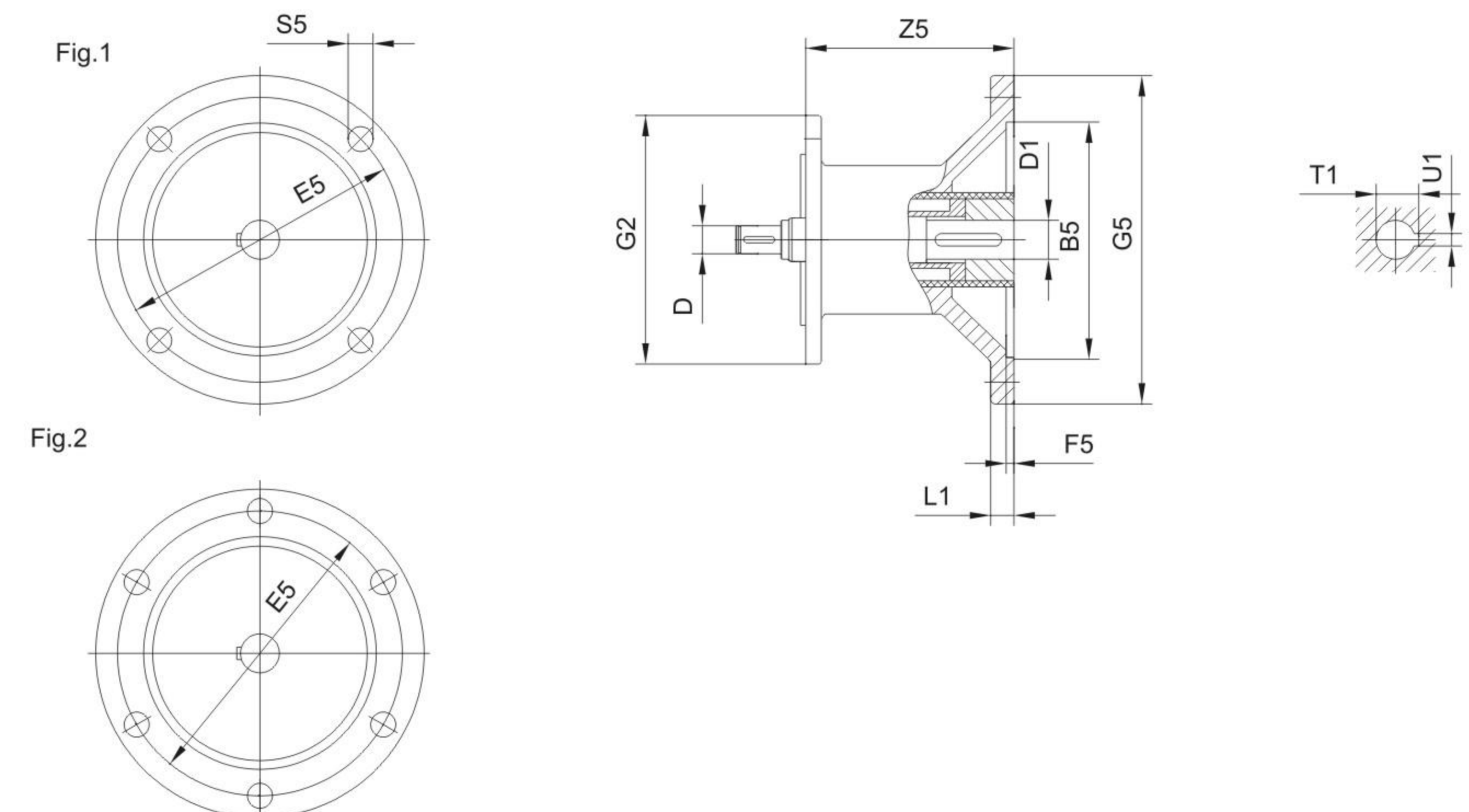
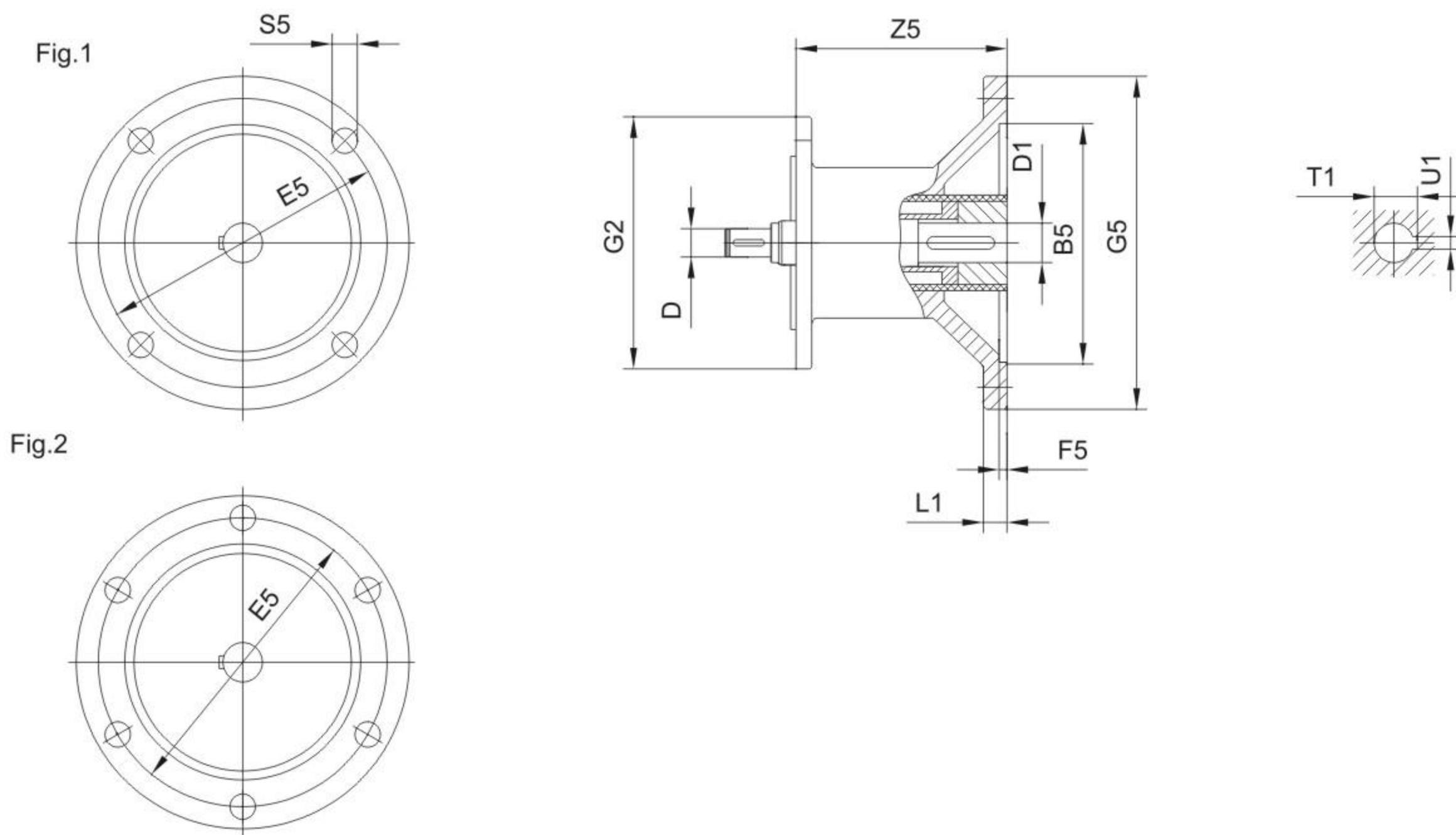


### 9.3 用于安装IEC标准电机的联轴器 9.3 Coupling for mounting of IEC motors



减速箱规格 Gear unit type	联轴器规格 Coupling type	B5	D	E5	F5	G2	G5	S5	Z5	D1	L1	T1	U1
BR..27, BR..37 BF..37, BF..47 BK..37 BS..37, BS..47, BS..57	AM63	95	10	115	3.5	120	140	M8	72	11	23	12.8	4
	AM71 <sup>1)</sup>	110	10	130			160			14	30	16.3	5
	AM80 <sup>1)</sup>	130	12	165	4.5		200	M10	106	19	40	21.8	6
	AM90 <sup>1)</sup>		14							24	50	27.3	8
BR..47, BR..57, BR..67 BF..57, BF..67 BK..47, BK..57, BK..67 BS..67	AM63	95	10	115	3.5	160	140	M8	66	11	23	12.8	4
	AM71	110	10	130			160			14	30	16.3	5
	AM80	130	12	165	4.5		200	M10	99	19	40	21.8	6
	AM90		14							24	50	27.3	8
	AM100 <sup>1)</sup>	180	16	215	5		250	M12	134	28	60	31.3	8
	AM112 <sup>1)</sup>	18	28							60	31.3	8	
BR..77 BF..77 BK..77 BS..77	AM63	95	10	115	3.5	200	140	M8	60	11	23	12.8	4
	AM71	110	10	130			160			14	30	16.3	5
	AM80	130	12	165	4.5		200	M10	92	19	40	21.8	6
	AM90		14							24	50	27.3	8
	AM100 <sup>1)</sup>	180	16	215	5		250	M12	126	28	60	31.3	8
	AM112 <sup>1)</sup>		18							28	60	31.3	8
	AM132S <sup>1)</sup>	230	22	265	5		300	M12	179	38	80	41.3	10
AM132M <sup>1)</sup>	28		80			41.3				10			
AM132ML <sup>1)</sup>	28	80	41.3	10									
BR..87 BF..87 BK..87 BS..87	AM80	130	12	165	4.5	250	200	M10	87	19	40	21.8	6
	AM90		14							24	50	27.3	8
	AM100	180	16	215	5		250	M12	121	28	60	31.3	8
	AM112		18							28	60	31.3	8
	AM132S	230	22	265	5		300	M12	174	38	80	41.3	10
	AM132M		28							80	41.3	10	
	AM132ML	28	80	41.3	10								
	AM160 <sup>1)</sup>	250	28	300	6		350	M16	232	42	110	45.3	12
AM180 <sup>1)</sup>	32		48			51.8				14			





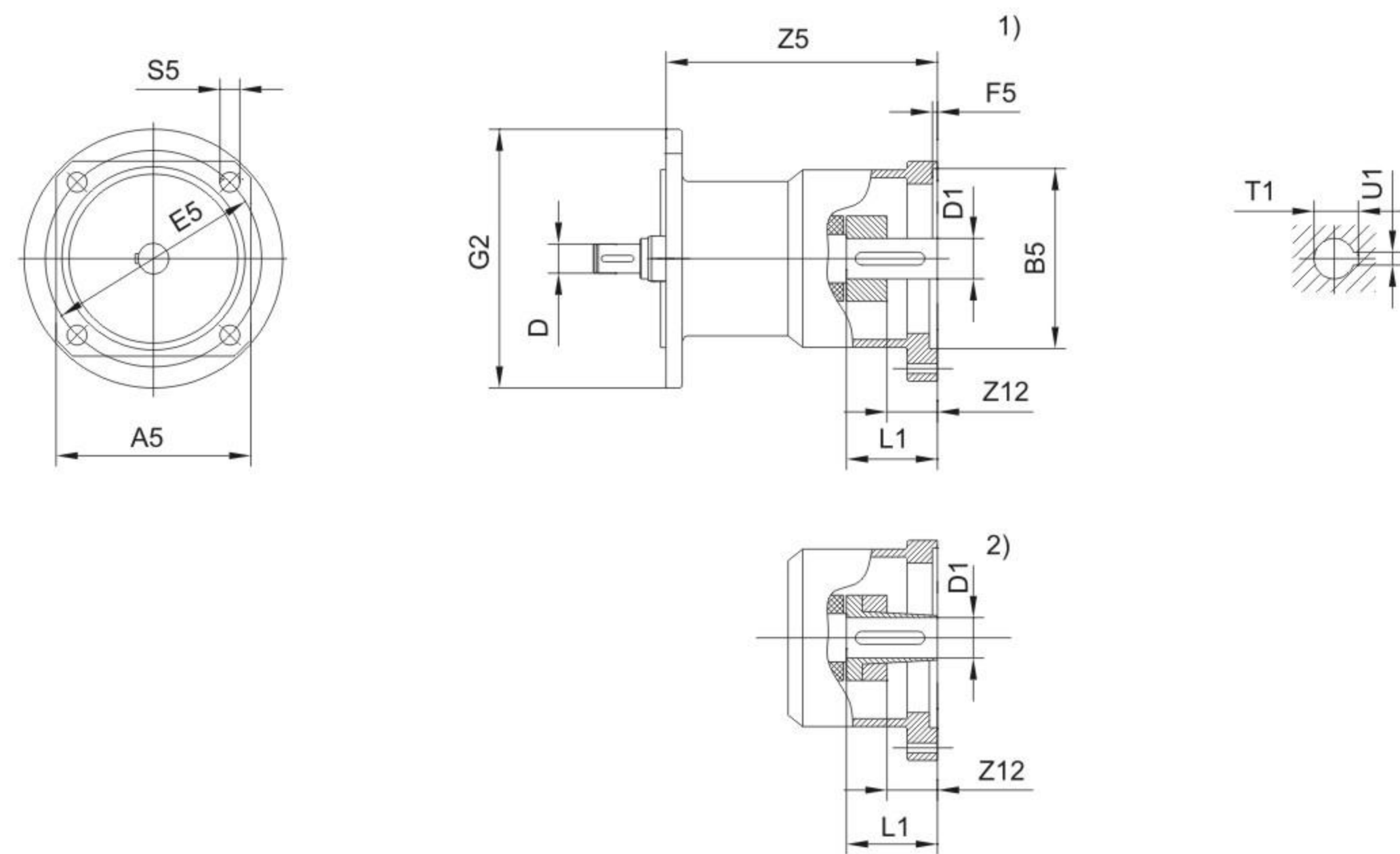
减速箱规格 Gear unit type	联轴器规格 Coupling type	Fig	B5	D	E5	F5	G2	G5	S5	Z5	D1	L1	T1	U1	
BR..97 BF..97 BK..97 BS..97	AM100	1	180	16	215	5	300	250	M12	116	28	60	31.3	8	
	AM112			18											
	AM132S AM132M		230	22	265			300	M12	169	38	80	41.3	10	
	AM132ML			28											
	AM160		250	28	300			6	350	M16	227	42	110	45.3	12
	AM180			32											
	AM200		300	38	350			7	400	M16	268	55	110	59.3	16
	AM225 <sup>1)</sup>		350	38	400										
BR..107 BF..107 BK..107	AM100	1	180	16	215	5	350	250	M12	110	28	60	31.3	8	
	AM112			18											
	AM132S AM132M		230	22	265			300	M12	163	38	80	41.3	10	
	AM132ML			28											
	AM160		250	28	300			6	350	M16	221	42	110	45.3	12
	AM180			32											
	AM200		300	38	350			7	400	M16	262	55	110	59.3	16
	AM225		350	38	400										
BR..137	AM132S AM132M	1	230	22	265	5	400	300	M12	156	38	80	41.3	10	
	AM132ML			28											
	AM160		250	28	300			6	350	M16	214	42	110	45.3	12
	AM180			32											
	AM200	300	38	350	7	400	M16	255	55	110	59.3	16			
	AM225	350	38	400									270	60	140

减速机规格 Gear unit type	联接盘规格 Motor adcopator	Fig	B5	D	E5	F5	G2	G5	S5	Z5	D1	L1	T1	U1			
BR..147 BF..127 BK..127	AM132S AM132M	1	230	22	265	5	450	300	M12	148	38	80	41.3	10			
	AM132ML			28													
	AM160		28	300	6										206	42	110
	AM180	32	300	6	48	51.8	14										
	AM200	300	38	350	7	450	M16	247	55	110	59.3	16					
	AM225	350	38	400									262	60	140	64.4	18
	AM250	2	450	48	500	7	550	M16	336	65	140	69.4	18				
AM280	75													79.9	20		
BR..167 BF..157 BK..157 BK..167 BK..187	AM160	1	250	28	300	6	550	350	M16	198	42	110	45.3	12			
	AM180			32											300	6	48
	AM200		300	38	350										7	450	M16
	AM225	350	38	400	254	60	140	64.4	18								
	AM250	2	450	48	500	7	550	M16	328	65	140	69.4	18				
	AM280													75	79.9	20	

1) 如果安装在BR、BK和BS系列地脚安装方式的减速机上，请检查尺寸G5/2，它可能已突出安装平面。  
Dimension 1/2 G5 may protrude past foot mounting surface if mounted on P.K or S foot - mounted gear unit, Please check.



## 9.4 用于安装伺服电机的联轴器 9.4 Adapter for mounting of servomotors



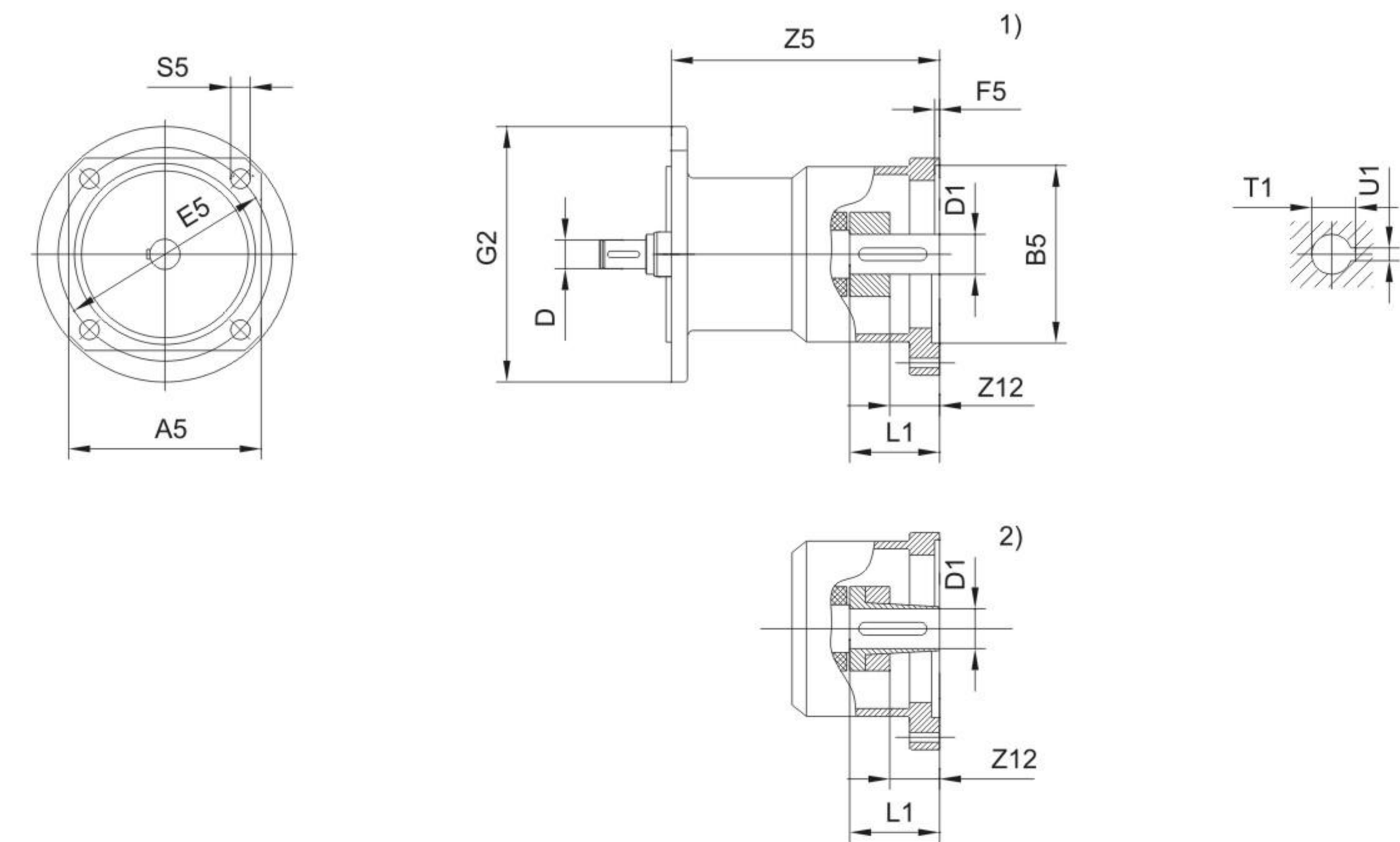
减速机规格 Gear unit type	联接盘规格 Motor adcopator	A5	B5	D	E5	F5	G2	S5	Z5	Z12 <sup>1)</sup>	Z12 <sup>2)</sup>	D1	L1	T1 <sup>1)</sup>	U1 <sup>1)</sup>						
BR..27 BR..37 BF..37 BF..47 BK..37 BS..37 BS..47 BS..57	AQ..80/1	82	60	10	75	3	120	M5	104.5	5.5	5.5	11	23	12.8	4						
	AQ..80/2											12	30	16.3	5						
	AQ..80/3											50	95	14	30	16.3	5				
	AQ..100/1	100	80	10	100	4		M6	129.5	-	-	14	30	16.3	5						
	AQ..100/2															115					
	AQ..100/3															80	100	14	30	16.3	5
	AQ..100/4	100	95	12	115	4		M8	143.5	7	14	19	40	21.8	6						
	AQ..115/1															95	14	19	40	21.8	6
	AQ..115/2															110	16	23	19	40	21.8
	AQ..115/3	115	110	14	130	4		M8	152.5	16	23	19	40	21.8	6						
AQ..115/2	21						16									24	50	27.3	8		
AQ..115/3	16						23									19	40	21.8	6		
BR..47 BR..57 BR..67 BF..57 BF..67 BK..47 BK..57 BK..67 BS..67	AQ..80/1	82	60	10	75	3	160	M5	98	5.5	5.5	11	23	12.8	4						
	AQ..80/2											12	30	16.3	5						
	AQ..80/3											50	95	14	30	16.3	5				
	AQ..100/1	100	80	10	100	4		M6	122.5	-	-	14	30	16.3	5						
	AQ..100/2															115					
	AQ..100/3															80	100	14	30	16.3	5
	AQ..100/4	100	95	12	115	4		M8	136.5	7	14	19	40	21.8	6						
	AQ..115/1															95	14	19	40	21.8	6
	AQ..115/2															110	16	23	19	40	21.8
	AQ..115/3	115	110	14	130	4		M8	145.5	16	23	19	40	21.8	6						
	AQ..140/1															21	16	24	50	27.3	8
	AQ..140/2															16	23	19	40	21.8	6
	AQ..140/3	140	130	18	165	5		M10	175	21	16	24	50	27.3	8						
	AQ..140/2															22	16	24	50	27.3	8
AQ..140/3	188						24									22	32	60	35.5	10	

1)适用于键连接(AQA..)

1)Applies to type with key way (AQA..)

2)适用于锁紧套连接(AQH..)

2)Applies to type with clamping ring hub (AQH..)



减速机规格 Gear unit type	联轴器规格 Coupling type	A5	B5	D	E5	F5	G2	S5	Z5	Z12 <sup>1)</sup>	Z12 <sup>2)</sup>	D1	L1	T1 <sup>1)</sup>	U1 <sup>1)</sup>							
BR..77 BF..77 BK..77 BS..77	AQ..80/1	82	60	10	75	3	200	M5	92	5.5	5.5	11	23	12.8	4							
	AQ..80/2											12	30	16.3	5							
	AQ..80/3											50	95	14	30	16.3	5					
	AQ..100/1	100	80	10	100	4		M6	115.5	-	-	14	30	16.3	5							
	AQ..100/2															115						
	AQ..100/3															80	100	14	30	16.3	5	
	AQ..100/4	100	95	12	115	4		M8	129.5	7	14	19	40	21.8	6							
	AQ..115/1															95	14	19	40	21.8	6	
	AQ..115/2															110	16	23	19	40	21.8	6
	AQ..115/3	115	110	14	130	4		M8	138.5	16	23	19	40	21.8	6							
	AQ..140/1															21	16	24	50	27.3	8	
	AQ..140/2															16	23	19	40	21.8	6	
	AQ..140/3	140	130	18	165	5		M10	167	21	16	24	50	27.3	8							
	AQ..190/1															180	24	22	32	60	35.3	10
AQ..190/2	190						24									22	32	60	35.3	10		
AQ..190/3	190	180	22	215	5	M12	225.5	26	24	32	60	35.3	10									
AQ..190/2														249.5	39	34	38	80	41.3	10		
AQ..190/3														249.5	39	34	38	80	41.3	10		
BR..87 BF..87 BK..87 BS..87	AQ..100/1	100	80	12	100	4	250	M6	110.5	-	-	14	30	16.3	5							
	AQ..100/2															115						
	AQ..100/3															80	100	14	30	16.3	5	
	AQ..100/4	100	95	14	115	4		M8	124.5	7	14	19	40	21.8	6							
	AQ..115/1															95	14	19	40	21.8	6	
	AQ..115/2															110	16	23	19	40	21.8	6
	AQ..115/3	115	110	16	130	4		M8	133.5	16	23	19	40	21.8	6							
	AQ..140/1															21	16	24	50	27.3	8	
	AQ..140/2															16	23	19	40	21.8	6	
	AQ..140/3	140	130	18	165	5		M10	162	21	16	24	50	27.3	8							
	AQ..190/1															175	24	22	32	60	35.3	10
	AQ..190/2															190	24	22	32	60	35.3	10
	AQ..190/3	190	180	22	215	5		M12	220.5	26	24	32	60	35.3	10							
	AQ..190/2															244.5	39	34	38	80	41.3	10
AQ..190/3	244.5						39									34	38	80	41.3	10		

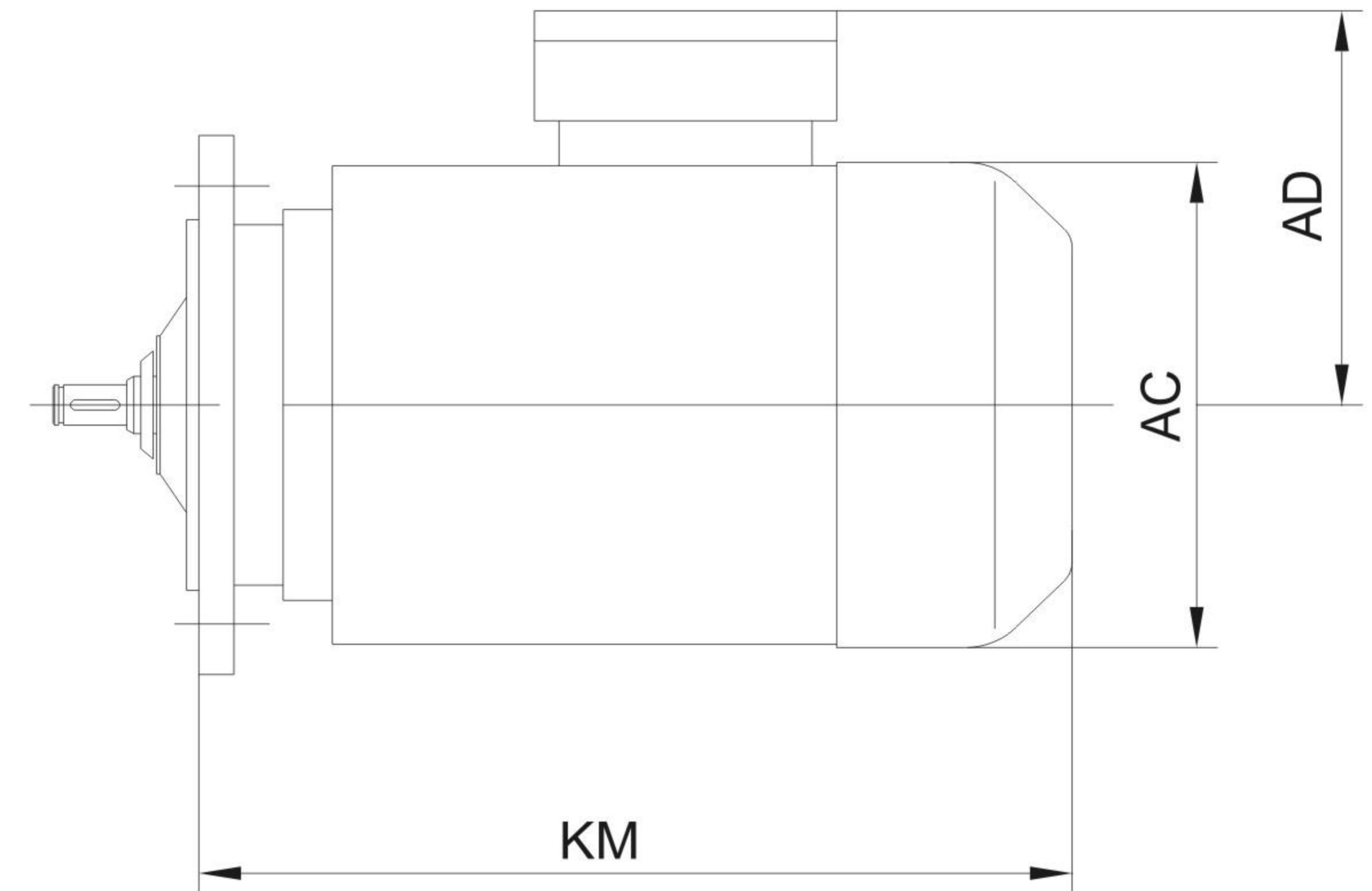
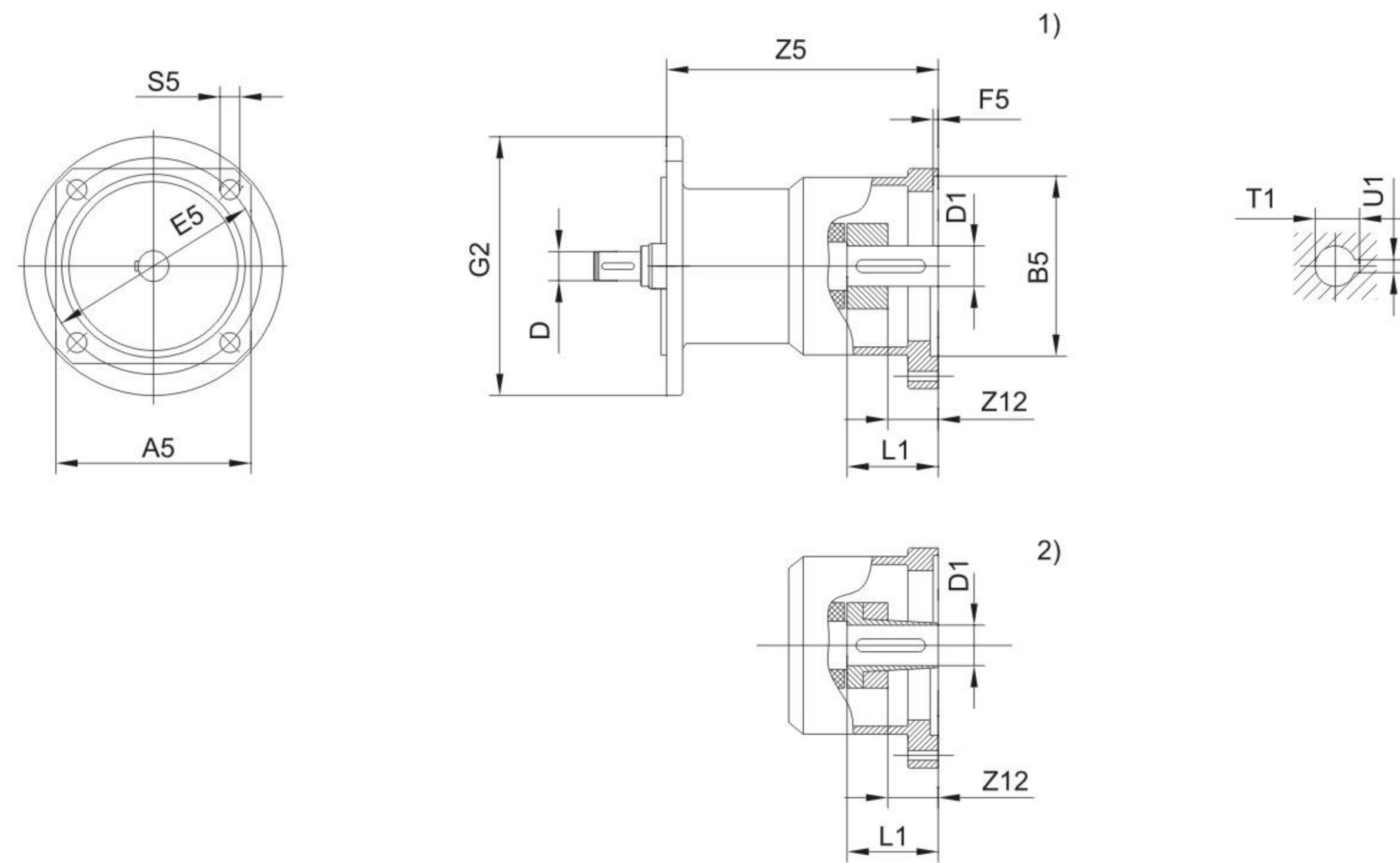
1)适用于键连接(AQA..)

1)Applies to type with key way (AQA..)

2)适用于锁紧套连接(AQH..)

2)Applies to type with clamping ring hub (AQH..)





减速箱规格 Gear unit type	联轴器规格 Coupling type	A5	B5	D	E5	F5	G2	S5	Z5	Z12 <sup>1)</sup>	Z12 <sup>2)</sup>	D1	L1	T1	U1			
BR..97 BF..97 BK..97 BS..97	AQ..140/1	140	110	16	165	5	300	M10	157	21	16	24	50	27.3	8			
	AQ..140/2		130	18					22	32	60	35.3	10					
	AQ..140/3																	
	AQ..190/1	190	130	22	215				350	M12	215.5	26	24	32	60	35.3	10	
	AQ..190/2		180	28							34	80	41.3					
	AQ..190/3																	
BR..107 BF..107 BK..107	AQ..140/1	140	110	16	165	5	350	M10			151	21	16	24	50	27.3	8	
	AQ..140/2		130	18							22	32	60	35.3	10			
	AQ..140/3																	
	AQ..190/1	190	130	22	215				400	M12	209.5	26	24	32	60	35.3	10	
	AQ..190/2		180	28							34	80	41.3					
	AQ..190/3																	
BR..137	AQ..190/1	190	130	22	215	5	450	M12			202.5	-	25	32	60	35.3	10	
	AQ..190/2		180	28							34	80	41.3					
	AQ..190/3																	
BR..147 BF..127 BK..127	AQ..190/1	190	130	22	215				5	450	M12	194.5	26	24	32	60	35.3	10
	AQ..190/2		180	28								34	80	41.3				
	AQ..190/3																	

1)适用于键连接(AQA..)

1)Applies to type with key way (AQA..)

2)适用于锁紧套连接(AQH..)

2)Applies to type with clamping ring hub (AQH..)

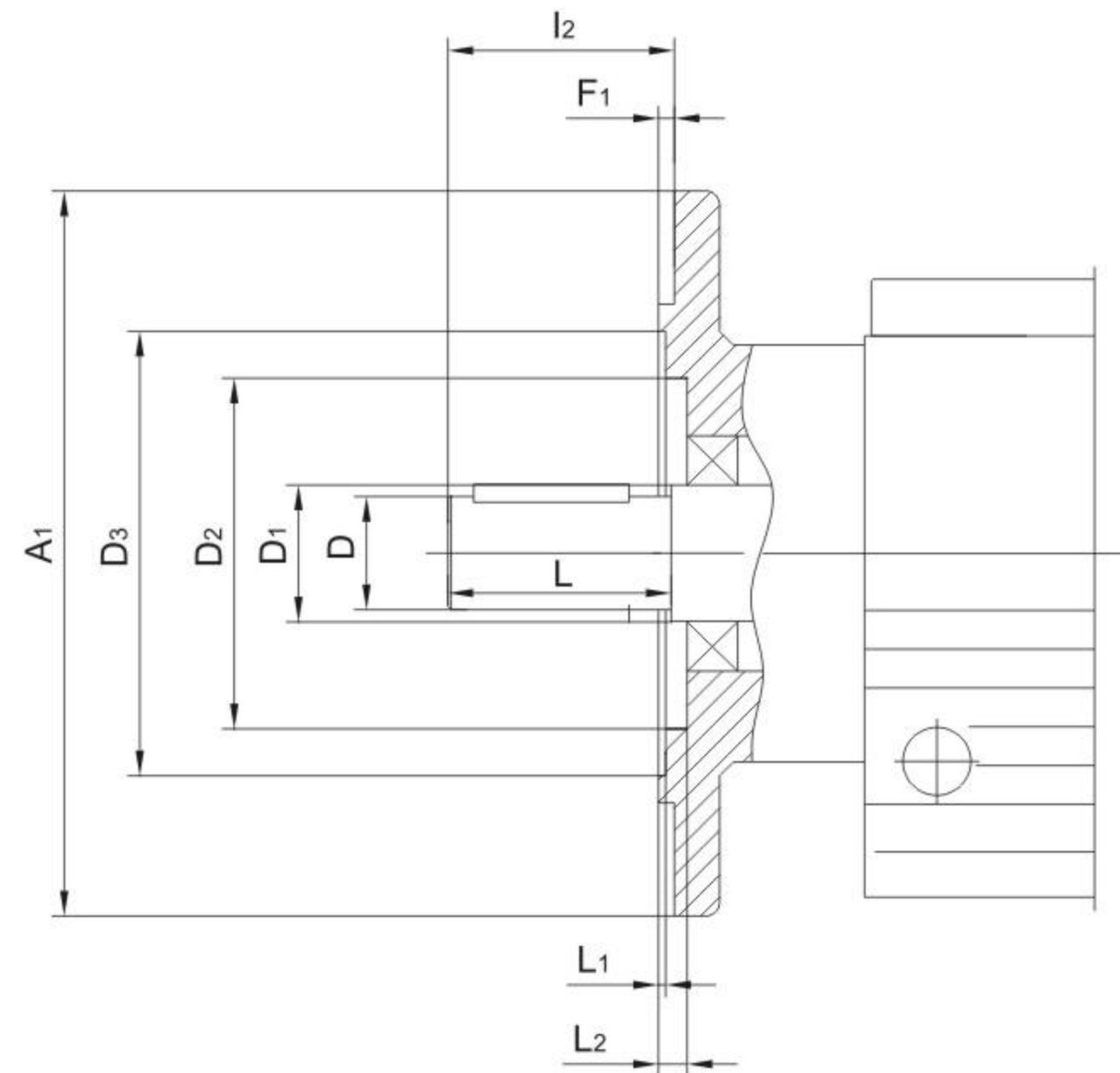
型号	Y63M	Y71M	Y80M	Y90S Y90L	Y100L	Y112M	Y132S Y132L	Y160M Y160L	Y180M Y180L	Y200L	Y225S Y225M	Y250M	Y280S Y280M	Y315S Y315M
AC	130	145	175	195	215	240	275	330	380	420	470	510	580	612
AD	70	80	145	155	180	190	210	255	280	305	335	370	400	430
KM	250	280	320	342 367	400	408	473 513	560 615	645 685	710	724 754	810	895 945	1010 1065

注：上表中的电机尺寸为部分铁心长度电机的参考尺寸，具体尺寸根据铁心长度与联接法兰尺寸确定，因空间限制对电机尺寸有要求时请向我公司咨询。

Notice: The data in the above table is only for reference. If you have any special requirements, please contact us.



## 9.6 BRF..和BR..F减速电机法兰外形图 9.6 Flange contours of BRF and BR..F gear units



选择和安装输出零件时请注意L1和L2尺寸  
Check dimensions L1 and L2 for selection and installation of output elements

规格 Type	A1	D	D1	D2			F1	12	L	L1		L2	
				RF	R..F	D3				RF	R..F		
BRF17, BR17F	120	20	25	46	46	65	3	40	40	1	1	5	
	140				-	78				1	-	5	
BRF27, BR27F	120	25	30	54	4	66	3	50	50	1	1	6	
	140				-	79				3	-	7	
	160				-	92				3.5	-	7	
BRF37, BR37F	120	25	35	60	63	70	3	50	50	5	4	7	
	160				-	96				3.5	1	-	7.5
	200				-	119				3.5	1	-	7.5
BRF47, BR47F	140	30	35	72	64	82	3	60	60	4	1	6	
	160				-	96				3.5	0.5	-	6.5
	200				-	116				3.5	0.5	-	6.5
BRF57, BR57F	160	35	40	76	75	96	3.5	70	70	4	2.5	5	
	200				-	116				3.5	0	-	5
	250				-	160				4	0.5	-	5.5
BRF67, BR67F	200	35	50	90	90	118	3.5	70	70	2	4	7	
	250				-	160				4	1	-	7.5
BRF77, BR77F	250	40	52	112	100	160	4	80	80	0.5	2.5	7	
	300				-	210				4	0.5	-	7
BRF87, BR87F	300	50	62	123	122	210	4	100	100	0	1.5	8	
	350				-	226				5	1	-	9
BRF97	350	60	72	136	236	5	120	120	120	0		9	
	450				320								
BRF107	350	70	82	157	232	5	140	140	140	0		11	
	450			186	316								
BRF137	450	90	108	180	316	5	170	170	170	0		10	
	550				416								
BRF147	450	110	125	210	316	5	210	210	210	0		10	
	550				416								
BRF167	550	120	145	290	416	5	210	210	210	1		10	
	660				517					6	2		11

## 9.7 减速机安装 9.7 Gear unit mounting

例外  
Exception

安装减速机和减速电机时一定要使用8.8级螺栓  
Always use bolts quality 8.8 for mounting gear units and geared motors.

当传递样本上所给定的额定扭矩时，下面几种法兰安装(BRF..)和地脚/法兰安装(BR...F)的斜齿轮减速电机，法兰和用户安装单元固定时一定要用10.9级的螺栓。

- BRF37和带 φ 120mm 法兰的 BR37F
- BRF47和带 φ 140mm 法兰的 BR47F
- BRF57和带 φ 160mm 法兰的 BR57F

Bolts of quality 10.9 must be used for fastening the flange to the customer supplied unit in order to transmit the rated torque specified in the catalog. These bolts must be used in case following flange – mounted helical geared motors (BRF..) and foot/flange – mounted helical geared motors (BR...F.):

- BRF37, BR37F with flange φ 120mm
- BRF47, BR47F with flange φ 140mm
- BRF57, BR57F with flange φ 160mm

KH167..., KH187..  
的力矩臂  
Torque arms for  
KH167..., KH187..

对于减速电机BKH167..和BKH187..作为标准配置，一般不提供扭矩臂。如果需要，请与DAIFUSI联系，我们将给出推荐的安装位置和尺寸图。  
As standard, there are no torque arms available for gear unit sizes BKH167.. and BKH187. Please contact DAIFUSI if you require torque arms for these gear units. We will submit The configuration of recommendations.



## 9.8 润滑 9.8 Lubricants

### 概述 General information

除非特别要求，DAIFUSI所提供的减速机均按其减速机规格注了油。订货时，所规定的安装位置对注油量的多少是一个决定性因素。对于安装位置的调整必须相应地调节注油量。(按219页注油量表)。Un less there is a special requirement, DAIFUSI always supplies the drives that with lubricant fill specifically for the reducer and mounting position. When ordering a drive, the decisive factor of lubricant fill quantities is the drives mounting position. You must adapt the lubricant fill to any subsequent change made to the mounting position check P219 for the (Lubricant fill quantities)

### 润滑油的等级和粘度类型 Lubricating conglutination

DAIFUSI 推荐使用的润滑油见P219页润滑油表,其等级和粘度指标见下表  
DAIFUSI commend the lubricant oil in P219. The grade and conglutination index in the following.

DIN(ISO,SAE)标准润滑油 Normal lubricating	粘度指标 conglutination index	环境温度°C Ambient temperature	减速机型号 Gear unit type
Mineral oil CLp(cc)	ISOVG 220	-10-+40	BR系列,BF系列 BK系列减速机
	ISOVG 680	0-+40	BS系列减速机

特殊应用场合必须使用特殊润滑油，比如要求长使用寿命润滑油。若需要可提供用于食品行业和生物降解润滑油。

The special lubricante oil. must be used in special situation. For example requesting use the oil with long life-span. If you want, we can afford the biology decompose oil for food industry.

DIN(ISO,SAE)标准润滑油 Normal lubricating	粘度指标 conglutination index	环境温度°C Ambient temperature	减速机型号 Gear unit type
Mineral oil CLP(CC)	ISOVG 100	-20-+25	BR系列、BF系列 BK系列减速机
Synthetic fluid, clp pg	ISOVG 220	-25-+80	BR系列、BF系列 BK系列减速机
Synthetic fluid ,CLP HC	ISOVG 460	-30-+80	BS系列减速机

### 耐磨轴承用润滑油 Anti-friction bearing greases

下列润滑脂用于减速机和电机的耐磨轴承润滑

DIN(ISO,SAE)标准润滑油 Normal lubricating	环境温度°C Ambient temperature	减速机型号 Gear unit type
矿物轴承润滑脂K32N/K2K mineral bearing lubricating lipin K32N/K2K	-30-+60	正常型式：减速机、电机 Normal type: motor reducer
合成轴承润滑脂KHC 2R-40 synthetic bearing lubricating lipin K2R-40	-40-+80	减速机加注合成润滑油 Reducers need to inject the synthetic lubricant
矿物轴承润滑脂K3N-30 mineral bearing lubricating lipin K3N-30	-25-+80	特殊型式：按应用场合确定的电机 Special type: select the motor in different situation
合成轴承润滑脂K2S-50 synthetic bearing lubricating lipin K2S-50	-45--25	特殊型式：按应用场合确定的电机 Special type: select the motor in different situation

## DAIFUSI 传动装置润滑油表 Lubricant table

减速机型号 Gear unit type	环境温度 Ambient temperature 0°C +50 +100	润滑油类型 DIN (ISO)	ISO粘度与NLGI相应	品牌	品牌	品牌	品牌	品牌	品牌	品牌
F 27 R 17 R27	-15									
	-25									
R/K/F/S	-20	标准								
	-30									
S	-40									
	-25									
R, F, K	-20									
	-30									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									
R, F, K	-40									
	-40									



## 加油量 Lubricant fill quantities

### 斜齿轮减 速器(BR系列) Helical gear units (BR..)

规定的注油量是参考值。精确的注油量随着减速机的级数和速比的不同而变化。注油时,最有效是检查油位塞,因为它指示精确注油量。

The specified fill quantities are recommended values. The precise vary depending on the number of stages and gear ratio. When filling, it is essential to check the oil level plug since it indicates the precise oil capacity.

下表按安装位置M1-M6,给出了注油量的参考值。

The following tables show referenced values for lubricant fill quantities in relation to relation to the Mounting position M1-M6

减速器型号 Gear unit type	Referenced 注油量(升) Fill quantity (L)					
	M1 <sup>1)</sup>	M2 <sup>1)</sup>	M3	M4	M5	M6
BR17/R17F	0.25	0.6	0.35	0.6	0.35	0.35
BR27/R27F	0.25/0.4	0.7	0.4	0.7	0.4	0.4
BR37/R37F	0.3/1	0.9	1	1.1	0.8	1
BR47/R47F	0.7/1.5	1.6	1.5	1.7	1.5	1.5
BR57/R57F	0.8/1.7	1.9	1.7	2.1	1.7	1.7
BR67/R67F	1.1/2.3	2.6/3.5	2.8	3.2	1.8	2
BR77/R77F	1.2/3	3.8/4.3	3.6	4.3	2.5	3.4
BR87/R87F	2.3/6	6.7/8.4	7.2	7.7	6.3	6.5
BR97	4.6/9.8	11.7/14	11.7	13.4	11.3	11.7
BR107	6/13.7	16.3	16.9	19.2	13.2	15.9
BR137	10/25	28	29.5	31.5	25	25
BR147	15.4/40	46.5	48	52	39.5	41
BR167	27/70	82	78	88	66	69

减速器型号 Gear unit type	注油量(升) Fill quantity (L)					
	M1 <sup>1)</sup>	M2 <sup>1)</sup>	M3	M4	M5	M6
BRF17	0.25	0.6	0.35	0.6	0.35	0.35
BRF27	0.25/0.4	0.7	0.4	0.7	0.4	0.4
BRF37	0.4/1	0.9	1	1.1	0.8	1
BRF47	0.7/1.5	1.6	1.5	1.7	1.5	1.5
BRF57	0.8/1.7	1.8	1.7	2	1.7	1.7
BRF67	1.2/2.5	2.7/3.6	2.7	3.1	1.9	2.1
BRF77	1.2/2.6	3.8/4.1	3.3	4.1	2.4	3
BRF87	2.4/6	6.8/7.9	7.1	7.7	6.3	6.4
BRF97	5.1/10.2	11.9/14	11.2	14	11.2	11.8
BRF107	6.3/14.9	15.9	17	19.2	13.1	15.9
BRF137	9.5/25	27	29	32.5	25	25
BRF147	16.4/42	47	48	52	42	42
BRF167	26/70	82	78	88	65	71

1)多级减速机中较大的减速机须注较多的油量。

The output end gear unit of multi-stage gear units be filled with the larger oil volume.

减速器型号 Gear unit type	注油量(升) Fill quantity (L)					
	M1	M2	M3	M4	M5	M6
BRX57	0.6	0.8	1.3	1.3	0.9	0.9
BRX67	0.8	0.8	1.7	1.9	1.1	1.1
BRX77	1.1	1.5	2.6	2.7	1.6	1.6
BRX87	1.7	2.5	4.8	4.8	2.9	2.9
BRX97	2.1	3.4	7.4	7	4.8	4.8
BRX107	3.9	5.6	11.6	11.9	7.7	7.7

减速器型号 Gear unit type	注油量(升) Fill quantity (L)					
	M1	M2	M3	M4	M5	M6
BRXF57	0.5	0.8	1.1	1.1	0.7	0.7
BRXF67	0.7	0.8	1.5	1.7	1	1
BRXF77	0.9	1.5	2.4	2.5	1.6	1.6
BRXF87	1.6	2.5	4.9	4.7	2.9	2.9
BRXF97	2.1	3.6	7.1	7	4.8	4.8
BRXF107	3.1	5.9	11.2	10.5	7.2	7.2

## 平行轴斜齿轮减速器(BF系列) Parallel shaft helical gear units.(BF..)

BF..,BFA..B,BFH..B,BFV..B

减速器型号 Gear unit type	注油量(升) Fill quantity (L)					
	M1	M2	M3	M4	M5	M6
BF37	1	1.2	0.7	1.2	1	1.1
BF47	1.5	1.8	1.1	1.9	1.5	1.7
BF57	2.6	3.7	2.1	3.5	2.8	2.9
BF67	2.7	3.8	1.9	3.8	2.9	3.2
BF77	5	7.3	4.3	8	6	6.3
BF87	10	13.0	7.7	13.8	10.8	11
BF97	18.5	22.5	12.6	25.2	18.5	20
BF107	24.5	32	19.5	37.5	27	27
BF127	40.5	55	34	61	46.5	47
BF157	69	104	63	105	86	78

BFF..

减速器型号 Gear unit type	注油量(升) Fill quantity (L)					
	M1	M2	M3	M4	M5	M6
BFF37	1	1.2	0.7	1.3	1	1.1
BFF47	1.6	1.9	1.1	1.9	1.5	1.7
BFF57	2.8	3.8	2.1	3.7	2.9	3
BFF67	2.7	3.8	1.9	3.8	2.9	3.2
BFF77	5.1	7.3	4.3	8.1	6	6.3
BFF87	10.3	13.2	7.8	14.1	11	11.2
BFF97	19	22.5	12.6	25.5	18.9	20.5
BFF107	25.5	32	19.5	38.5	27.5	28
BFF127	41.5	56	34	63	46.5	49
BFF157	72	105	64	106	87	79

BFA..,BFH..,BFV..,BFAF..,BFHF..,BFVF..,BFAZ..,BFHZ..,BFVZ..

减速器型号 Gear unit type	注油量(升) Fill quantity (L)					
	M1	M2	M3	M4	M5	M6
BF..37	1	1.2	0.7	1.2	1	1.1
BF..47	1.5	1.8	1.1	1.9	1.5	1.7
BF..57	2.7	3.8	2.1	3.6	2.9	3
BF..67	2.7	3.8	1.9	3.8	2.9	3.2
BF..77	5	7.3	4.3	8	6	6.3
BF..87	10	13.0	7.7	13.8	10.8	11
BF..97	18.5	22.5	12.6	25.0	18.5	20
BF..107	24.5	32	19.5	37.5	27	27
BF..127	39	55	34	61	45	46.5
BF..157	68	103	62	104	85	77



斜齿轮-锥齿轮减速器(K系列)  
Helical-bevel Gear unit (K..)

BK., BKA..B, BKH..B, BKV..B

减速器型号 Gear unit type	注油量(升) Fill quantity (L)					
	M1	M2	M3	M4	M5	M6
BK..37	0.5	1	1	1.3	1	1
BK..47	0.8	1.3	1.5	2	1.6	1.6
BK..57	1.2	2.3	2.5	3	2.6	2.4
BK..67	1.1	2.4	2.6	3.4	2.6	2.6
BK..77	2.2	4.1	4.4	5.9	4.2	4.4
BK..87	3.7	8	8.7	10.9	7.8	8
BK..97	7	14	15.7	20	15.7	15.5
BK..107	10	21	25.5	33.5	24	24
BK..127	21	41.5	44	54	40	41
BK..157	31	62	6.5	90	58	62
BK..167	35	100	100	125	85	85
BK..187	60	170	170	205	130	130

BKF..

减速器型号 Gear unit type	注油量(升) Fill quantity (L)					
	M1	M2	M3	M4	M5	M6
BKF37	0.5	1.1	1.1	1.5	1	1
BKF47	0.8	1.3	1.7	2.2	1.6	1.6
BKF57	1.3	2.3	2.7	3	2.9	2.7
BKF67	1.1	2.4	2.8	3.6	2.7	2.7
BKF77	2.1	4.1	4.4	6	4.5	4.5
BKF87	3.7	8.2	9	11.9	8.4	8.4
BKF97	7	14.7	17.3	21.5	15.7	16.5
BKF107	10	22	26	35	25	25
BKF127	21	41.5	46	55	41	41
BKF157	31	66	69	92	62	62

BKA.., BKH.., BKV.., BKAF.., BKHF.., BKVF.., BKAZ.., BKHZ.., BKVZ..

减速器型号 Gear unit type	注油量(升) Fill quantity (L)					
	M1	M2	M3	M4	M5	M6
BK..37	0.5	1	1	1.4	1	1
BK..47	0.8	1.3	1.6	2.1	1.6	1.6
BK..57	1.3	2.3	2.7	3	2.9	2.7
BK..67	1.1	2.4	2.7	3.6	2.6	2.6
BK..77	2.1	4.1	4.6	6	4.4	4.4
BK..87	3.7	8.2	8.8	11.1	8	8
BK..97	7	14.7	15.7	20	15.7	15.7
BK..107	10	20.5	24	32	24	24
BK..127	21	41.5	43	52	40	40
BK..157	31	66	67	87	62	62
BK..167	35	100	100	125	85	85
BK..187	60	170	170	205	130	130

斜齿轮-蜗轮蜗杆减速器(BS系列)  
Helical-worm Gear units. (BS..)

BS..

减速器型号 Gear unit type	注油量(升) Fill quantity (L)					
	M1	M2	M3 <sup>1)</sup>	M4	M5	M6
BS37	0.25	0.4	0.5	0.6	0.4	0.4
BS47	0.35	0.8	0.7	1.1	0.8	0.8
BS57	0.5	1.2	1	1.5	1.3	1.3
BS67	1	2.0	2.2/3.1	3.2	2.6	2.6
BS77	1.9	4.2	3.7/5.4	6	4.4	4.4
BS87	3.3	8.1	6.9/10.4	12	8.4	8.4
BS97	6.8	15	13.4/18	22.5	17	17

1)多级减速箱中较大的减速机须注较多的油量。  
The output end unit of multi-stage gear units must be filled with the larger oil volume.

BSF..

减速器型号 Gear unit type	注油量(升) Fill quantity (L)					
	M1	M2	M3 <sup>1)</sup>	M4	M5	M6
BSF37	0.25	0.4	0.5	0.6	0.4	0.4
BSF47	0.4	0.9	0.9	1.2	1.0	1
BSF57	0.5	1.2	1	1.6	1.4	1.4
BSF67	1	2.2	2.3/3	3.2	2.7	2.7
BSF77	1.9	4.1	3.9/5.8	6.5	4.9	4.9
BSF87	3.8	8	7.1/10.1	12	9.1	9.1
BSF97	7.4	15	13.8/18.8	23.6	18	18

1)多级减速箱中较大的减速机须注较多的油量。  
The output end unit of multi-stage gear units must be filled with the larger oil volume.

BSA.., BSH.., BSAF.., BSHF.., BSAZ.., BSHZ..

减速器型号 Gear unit type	注油量(升) Fill quantity (L)					
	M1	M2	M3 <sup>1)</sup>	M4	M5	M6
BS..37	0.25	0.4	0.5	0.6	0.4	0.4
BS..47	0.4	0.8	0.7	1.1	0.8	0.8
BS..57	0.5	1.1	1	1.6	1.2	1.2
BS..67	1	2	1.8/2.6	2.9	2.5	2.5
BS..77	1.8	3.9	3.6/5	5.9	4.5	4.5
BS..87	3.8	7.4	6/8.7	11.2	8	8
BS..97	7	14	11.4/16	21	15.7	15.7

1)多级减速箱中较大的减速机须注较多的油量。  
The output end unit of multi-stage gear units must be filled with the larger oil volume.

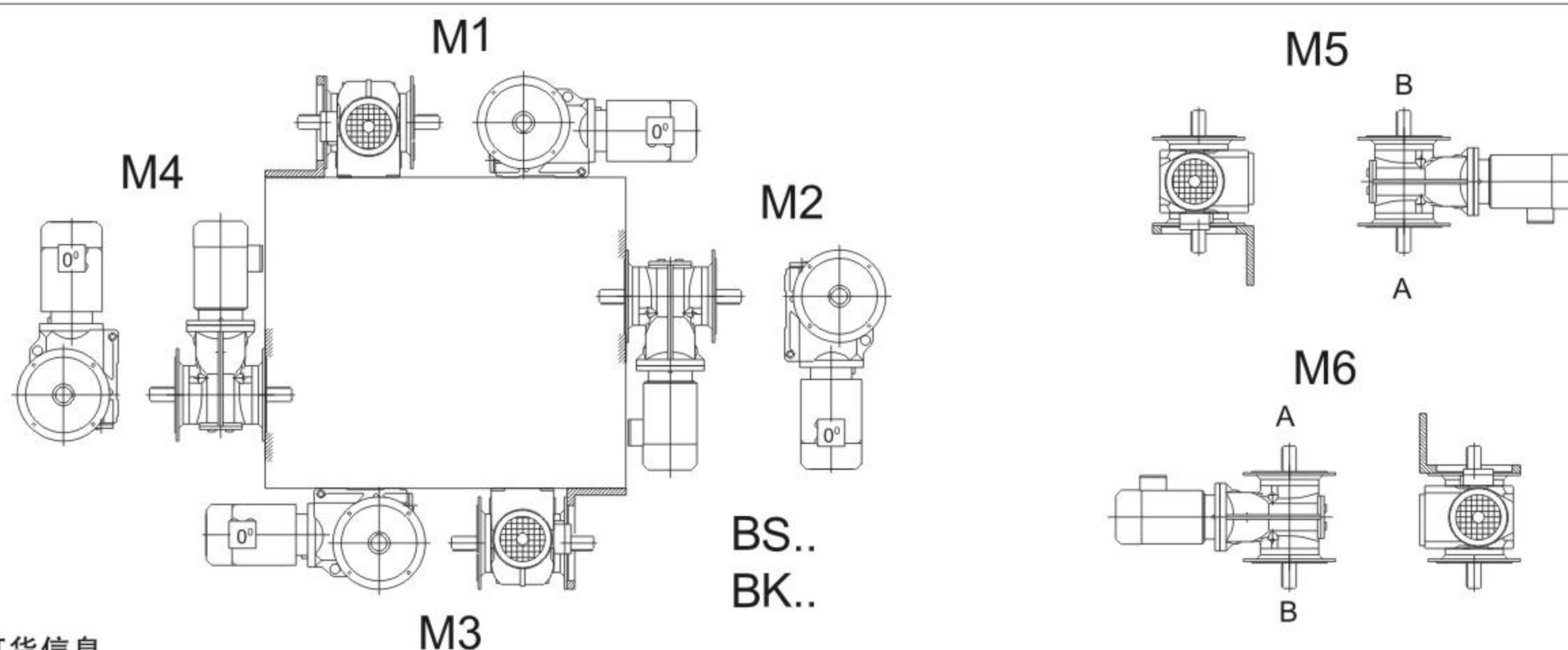
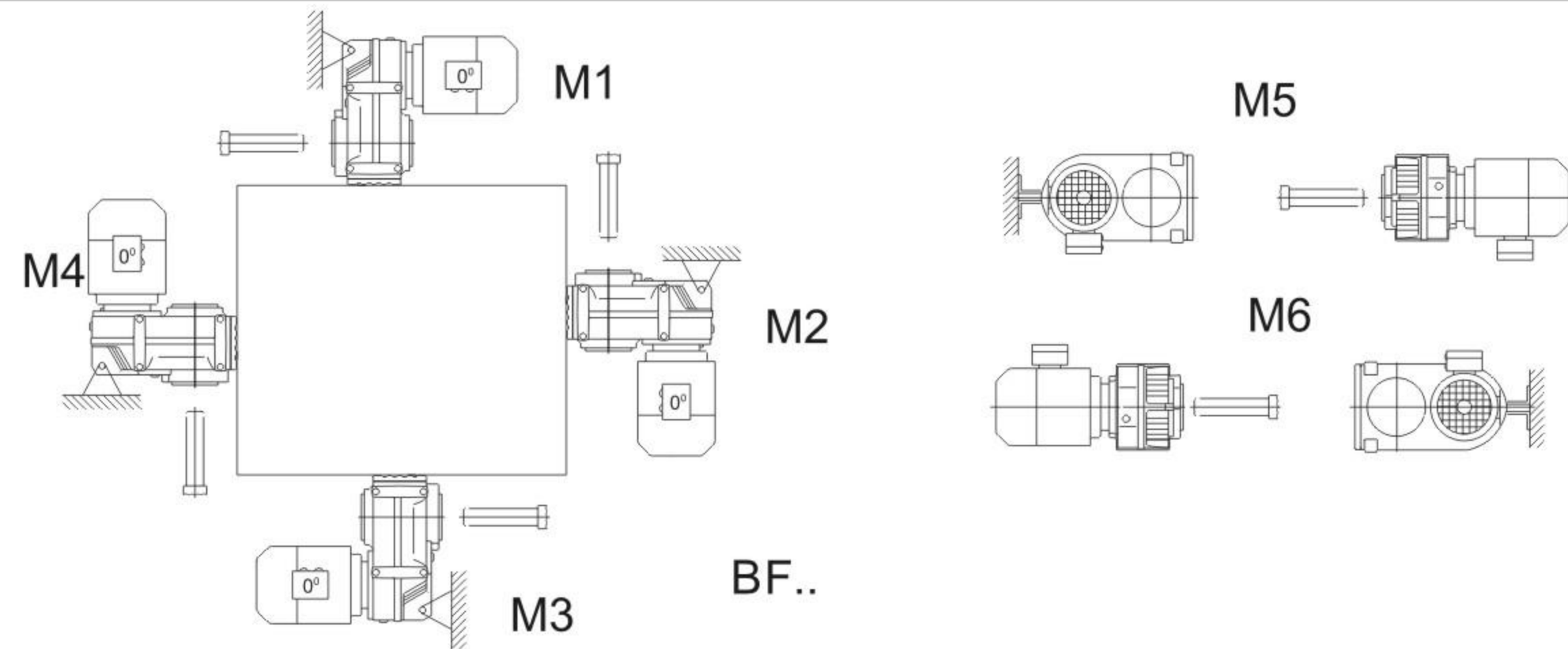
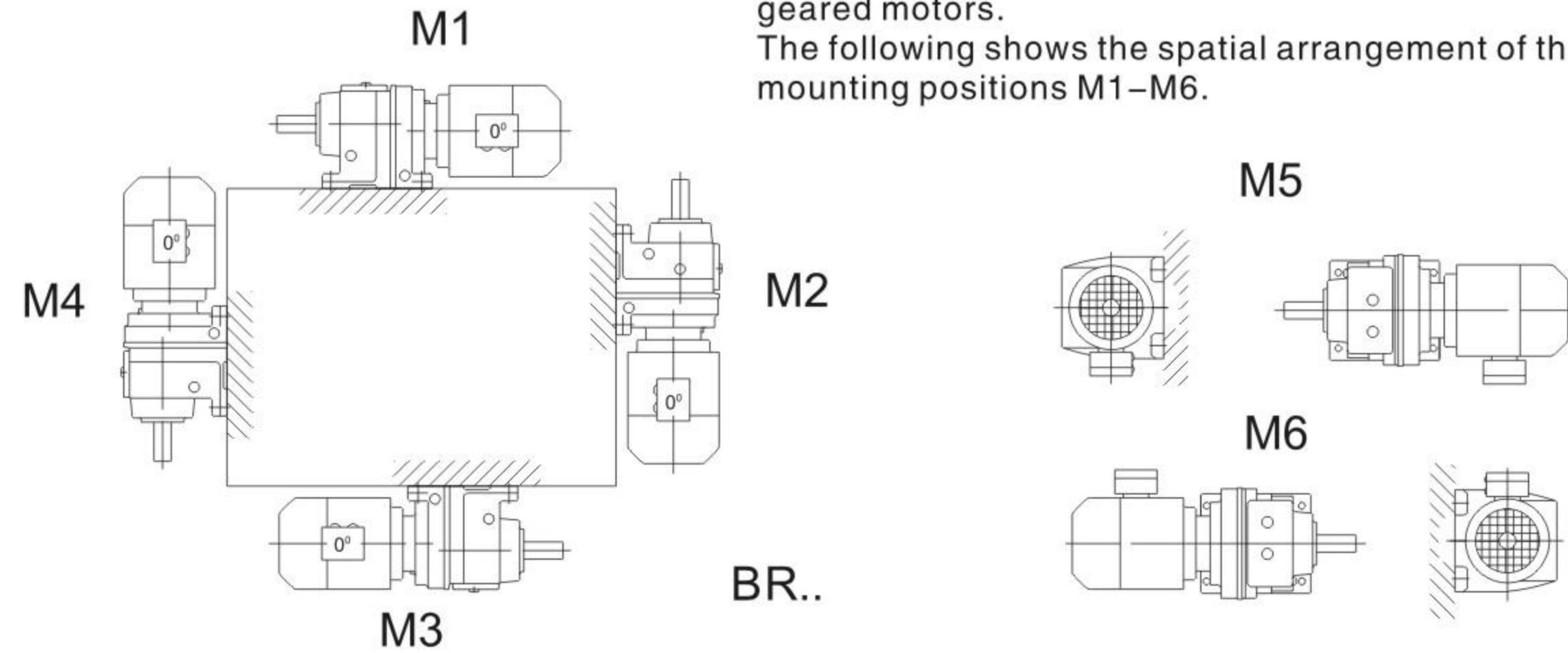


## 10. 安装位置 Mounting Position

### 10.1 安装位置概述

#### 10.1 Mounting Position designation

安装位置说明：DAIFUSI 减速电机有M1..M6共6种安装位置。  
下面的图表说明了减速器安装位置M1..M6的空间排列。  
DAIFUSI differentiates between six mounting position M1-M6 for geared motors.  
The following shows the spatial arrangement of the gear units in mounting positions M1-M6.



**重要的订货信息**  
Important indention information  
除了安装位置以外，下面订货资料也是必需的，以便精确描述所要求的减速电机外形。  
Except the mounting position, the indention informations for depicting the figure of gear

电机接线盒位置  
电机接线上出线口位置  
对直角轴减速机：输出方向  
对直角轴型带收缩盘轴式减速机：连接端带或不带法兰  
带逆止器的减速机：设备的旋转方向

Unit exactly are necessary  
Position of the motor terminal box  
For the right-angle shaft reducers:output shaft connection.  
For the right-angle shaft reducers:with shrink-disk:with or without feange.  
For the drive with a backstop: the Direction of rotation.

### 电机接线盒和出线嘴位置

#### Position of the motor terminal box cable entry

电机接线盒从电机风扇罩看(如图),位置分别表示为0°,90°,180°或270°  
出线嘴的位置也可以进行选择(如图),分别表示为“Normal”, “1”, “2”或“3”  
Possible positions of the terminal box are 0°, 90°, 180° or 270° as ciewed onto the fan guard=B-side  
In addition, the position of the cable entry can be selected. The possibilities are "X"(=normal position), "1", "2", or "3"

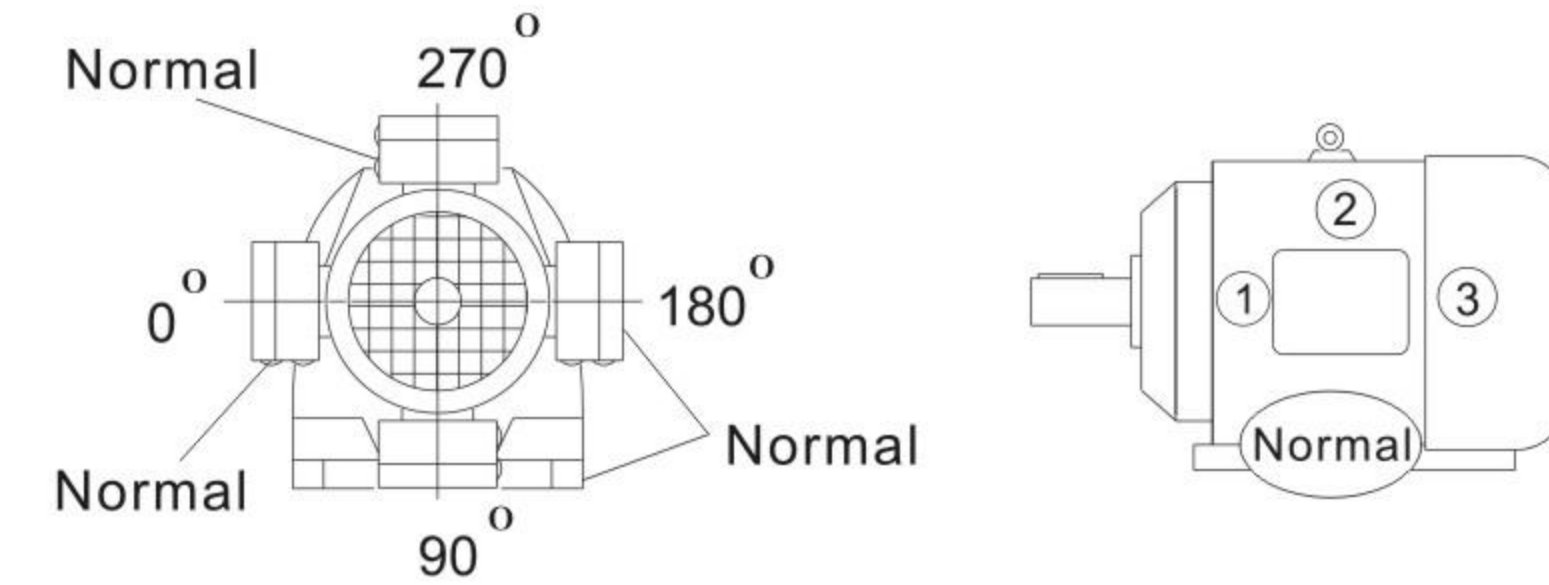


图:接线盒与出线嘴的位置  
Fig:Position of the terminal box and cable entry

对于接线盒,除非给出了详细信息,否则接线盒按0°,出线嘴按“Normal”供货。  
我们建议安装位置在M3时,应选择出线嘴位置为“2”。

注意:

对于BR17D71..减速机,接线盒位置不能标为90°  
D71..BMG接线盒位置为90°时,出线嘴位置不能标为“2”。

Unless other information is given regarding the terminal box, the 0° type with "X" cable entry will be supplied. We recommend selecting cable entry "2" with mounting position M3.  
The terminal box cannot be positioned at 90° on the BR17D71 geared motor.  
Cable entry "2" is not possible with the DT71..BMG motor with terminal box position 90°



### 带逆止器减速电机的旋转方向

#### Direction of totation of the drive with a backstop

若减速机带逆止器,规定出减速电机的旋转方向是很必要的。按下列标识:  
从输出轴看:顺时针(CW)为向右旋转逆时针(CCW)为向左旋转  
If the drive has a RS backstop, it is necessary to stipulate the direction of drive rotation.  
The following definition applies:  
Looking onto the output shaft: Clockwise (CW) =Rotating to the right  
Counterclockwise(CCW) = Rotating to the left

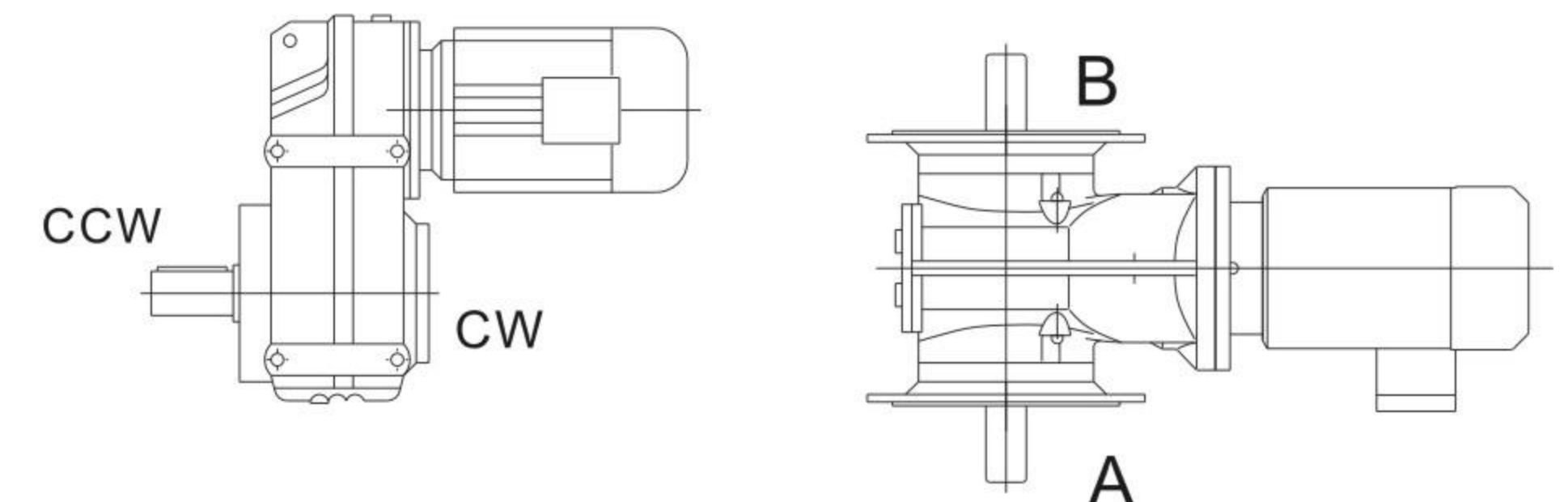


图:输出轴的旋转方向  
Fig: Direction of rotation of the output shaft

对于直角轴型式减速机,规定出给定的旋转方向是从A端看还是从B端看的,这是非常必要的。  
In right-angle gear units, it is necessary to indicate if the direction of rotation is given where be looked from the A or B end.



## 输出轴的位置 Position of the output shaft

对于直角轴型减速机,规定出轴方向是必要的.:· A或B,还是A+B(见图)  
In right-angle gear units, it is necessary to indicate the position of the output shaft and output flange: A or B or A+B

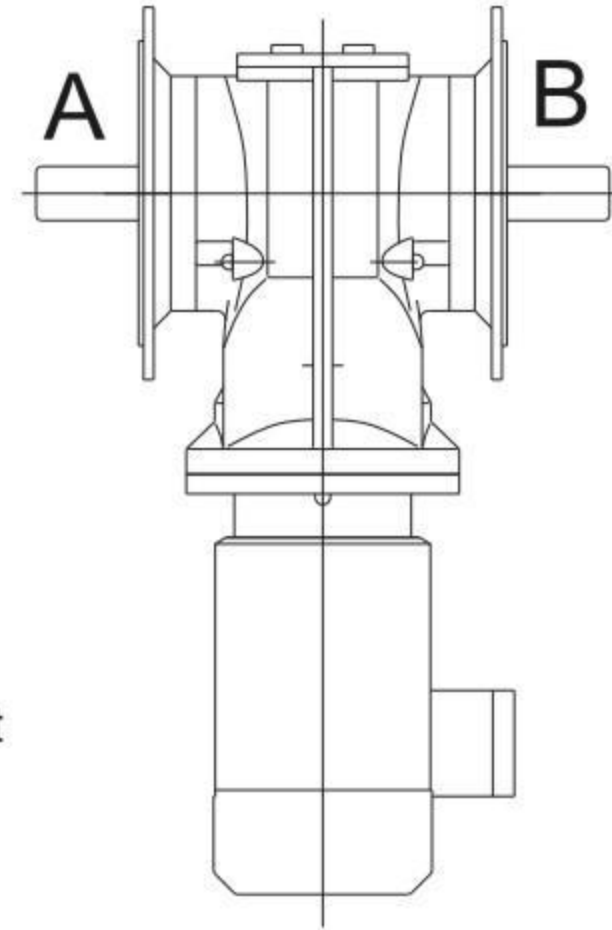


图:出轴方向  
Fig: Position of the Output shaft

## 带锁紧盘的轴装直角轴减速机 Position of the connection end in tight-angle gear units with shrink disk

对于轴装式带锁紧盘的正文轴型式减速机,规定出A端还是B端为连接端并且连接端是否有法兰是必要的。在图中, A端是连接端, 锁紧盘在连接端对面。  
In shaft mounted right-angle gear units with shrink disk, it is necessary to indicate whether the A or B end is the connection end. In Fig. The A end and is the connection end. The shrink disk is located opposite the connection end.

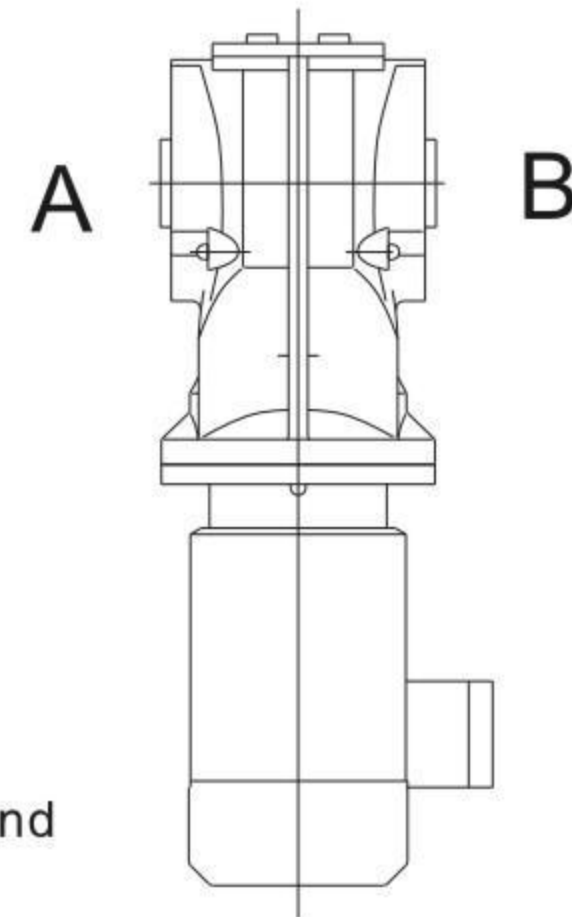


图:连接端的位置  
Fig: Position of the connection end

## 订购实例 Sample orders

对于BK167/K187来讲, 安装为M5和M6时, 连接端只能是在底部连接。  
Connection end at bottom only is possible with BK167/K187 helical-bevel gear units in mounting positions M5 and M6.

类型 Type	安装位置 Mounting position	连接端 Shaft with	锁紧盘位置 Position of shrink disk	法兰 Flange	接线位置 Position of terminal box	出线嘴位置 Position of cable entry	旋转方向 rotation direction	出轴方向 Output shaft direction
BKF47D71D4/RS	M5	A	-	B	0°	“Normal”	CW	A
BSF97D180M4	M2	A+B	-	A+B	180°	“2”	-	A+B
BKH107D160L4	M1	-	B	-	270°	“3”	-	-

## 所有符号的含义 Symbols used

下表列出,在安装位置上的符号及其含义  
The following table shows the symbols used in the mounting position sheets and what they mean:

符号 Symbol	含义 Meaning
	通气器 Breather valve
	油标 Oil level plug
	放油螺塞 Oil drain plug
	进线位置 In line plug

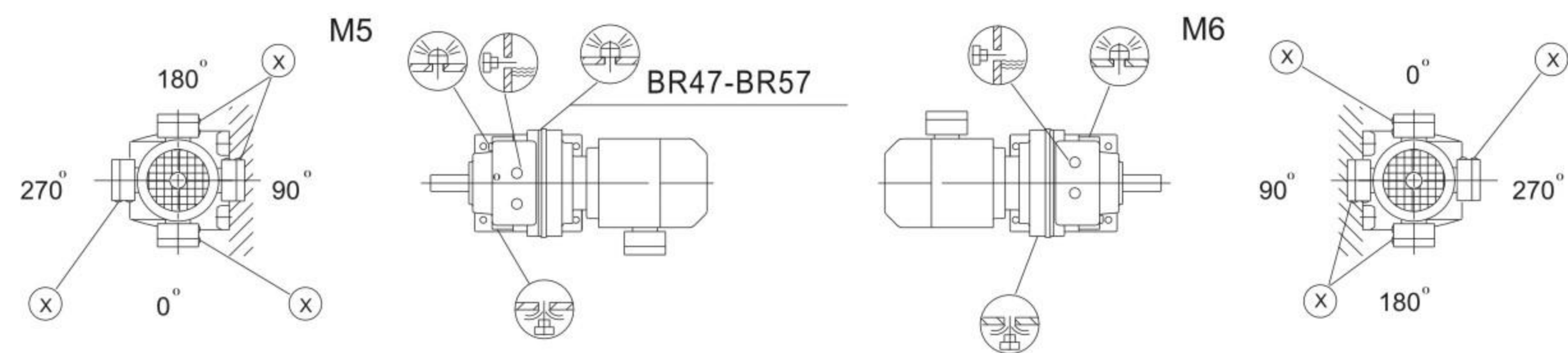
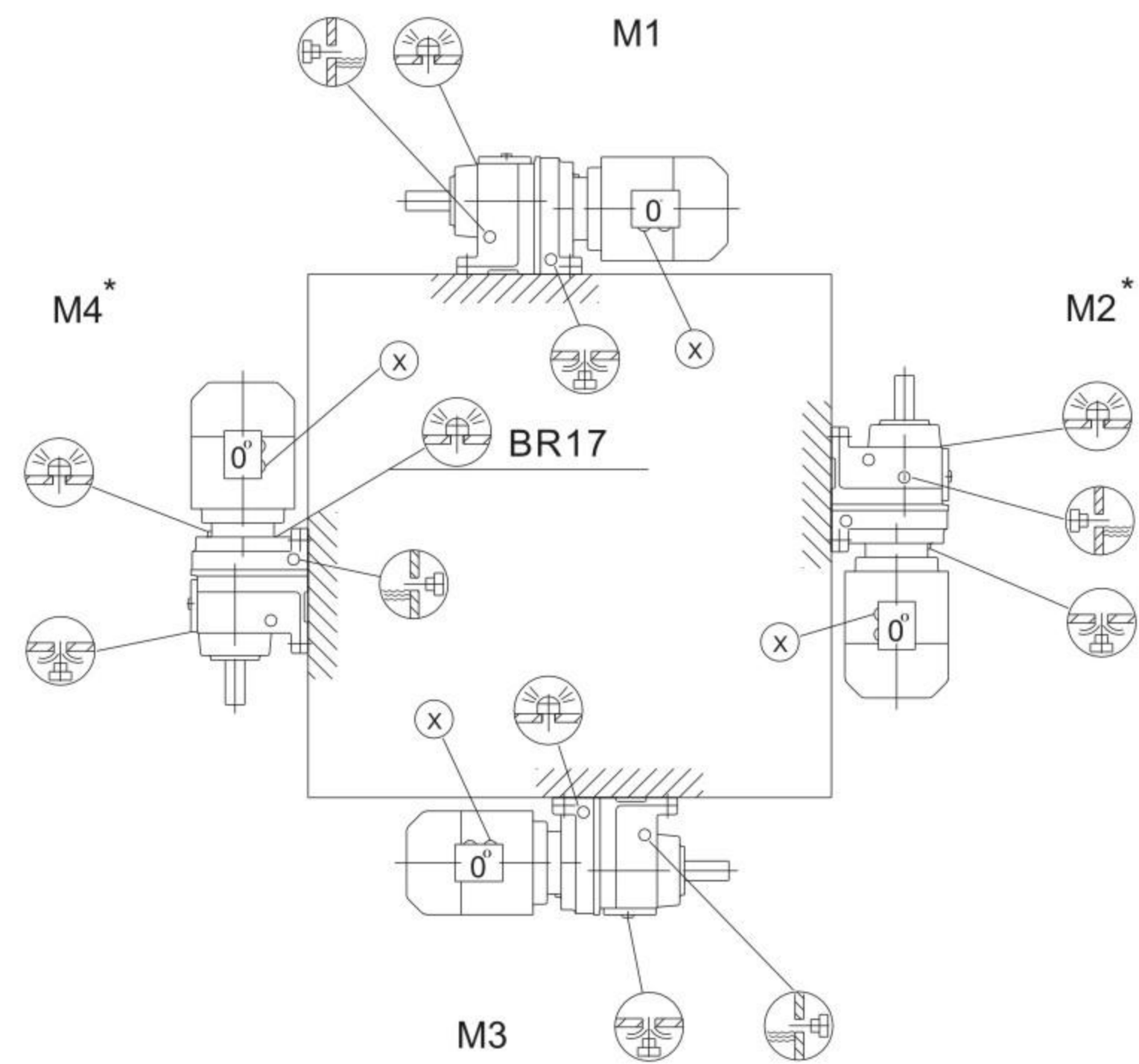
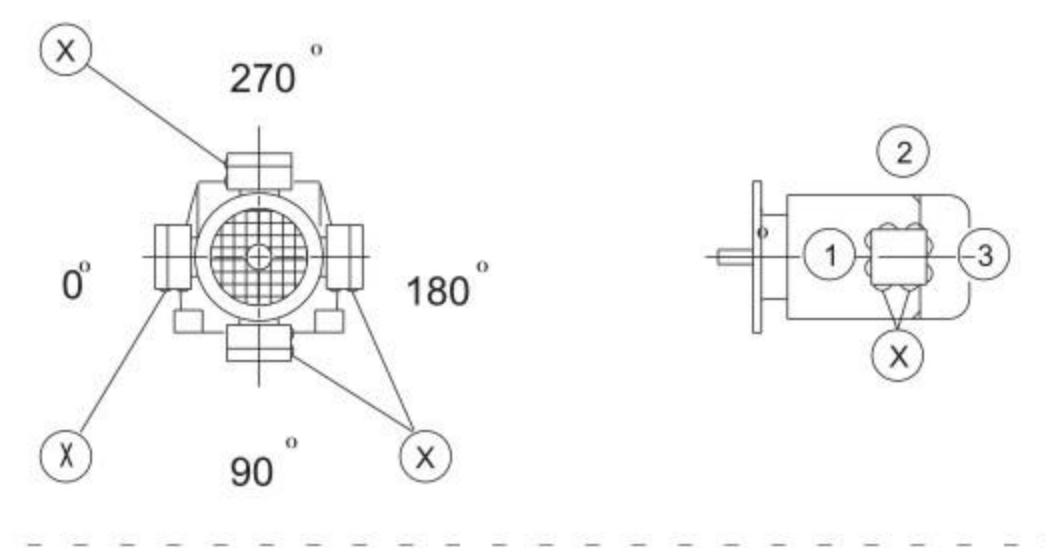
## 搅油损失 Churning losses

在某些安装位置可能增加搅油损失,在下列结构中请向DAIFUSI咨询  
In creased churning losses may arise in some mounting positions, Please contact DAIFUSI in case of the following combinations.

安装位置 Mounting position	减速机型号 Gear unit type	减速机规格 Gear unit size	输入速度(rpm) Input speed
M2,M4	BR	97-107	>2500
		>107	>1500
M2,M3,M4,M5,M6	BF	97-107	>2500
		>107	>1500
	BK	77-107	>2500
		>107	>1500
BS	77-97	>2500	

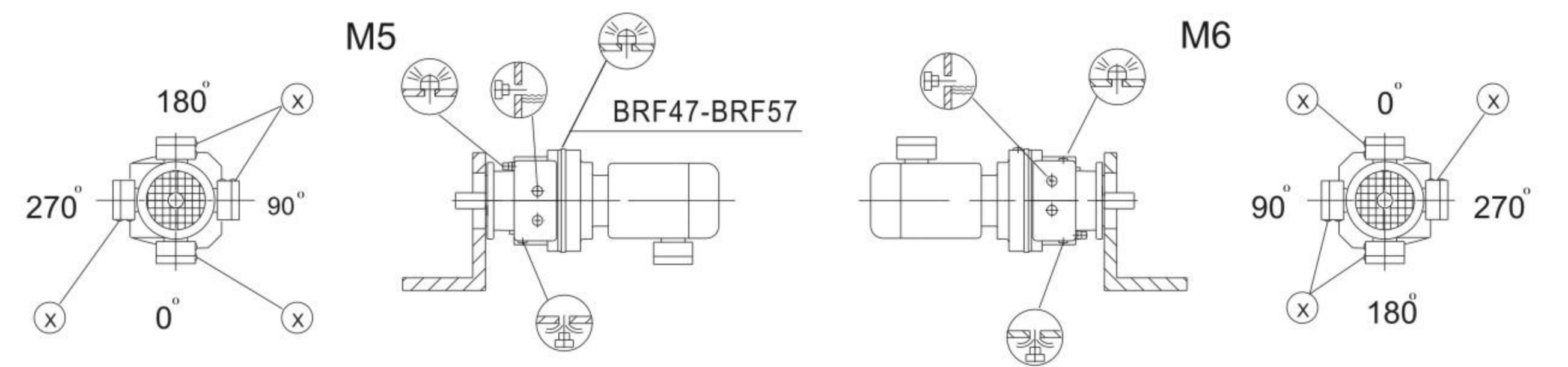
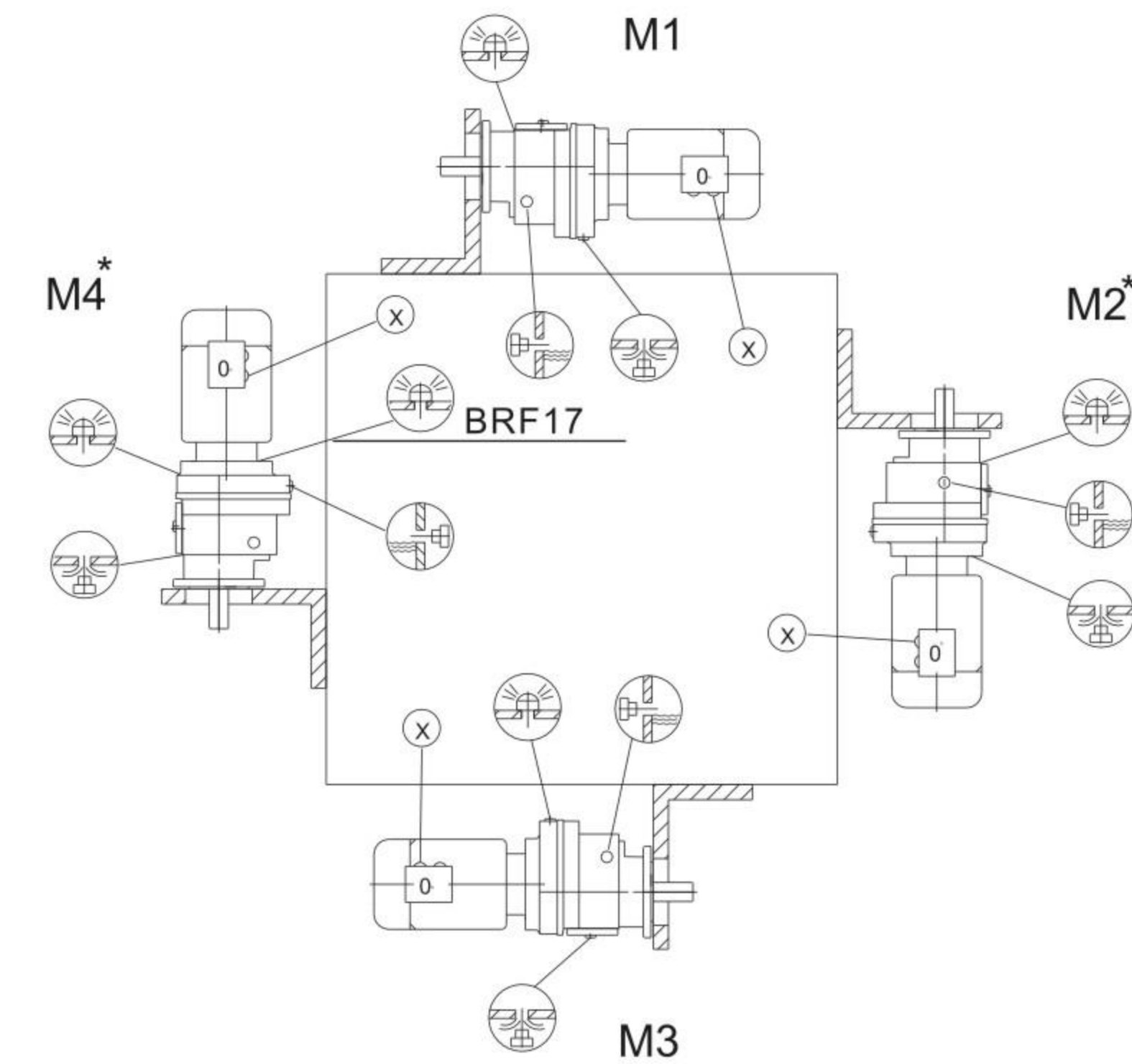
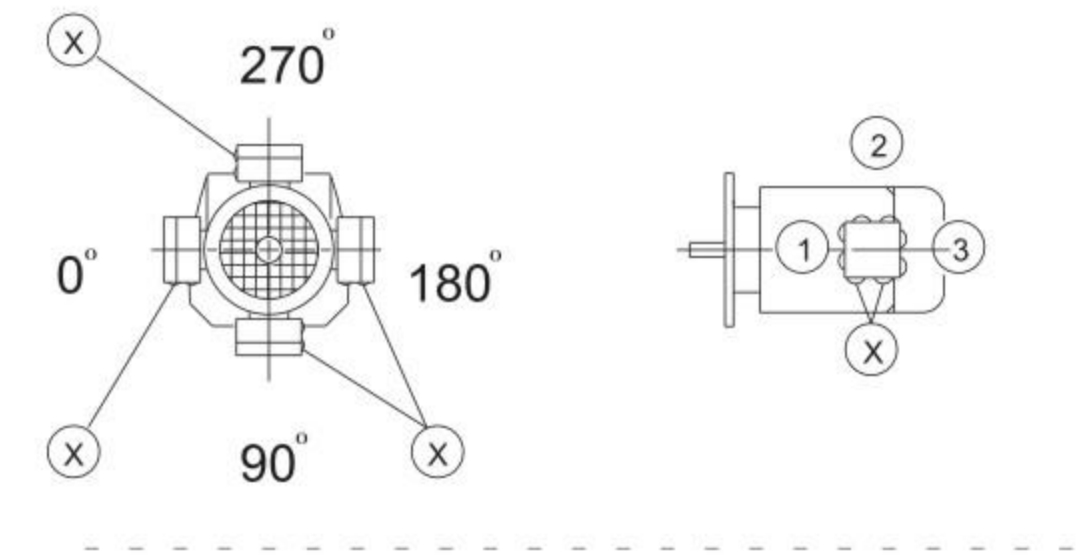


## 10.2 斜齿轮减速电机安装位置 10.2 Mounting position of Helical gear unit BR17-BR167



- BR17, BR27 M1, M3, M5, M6
- BR47, BR57 M5
- BR17, BR27

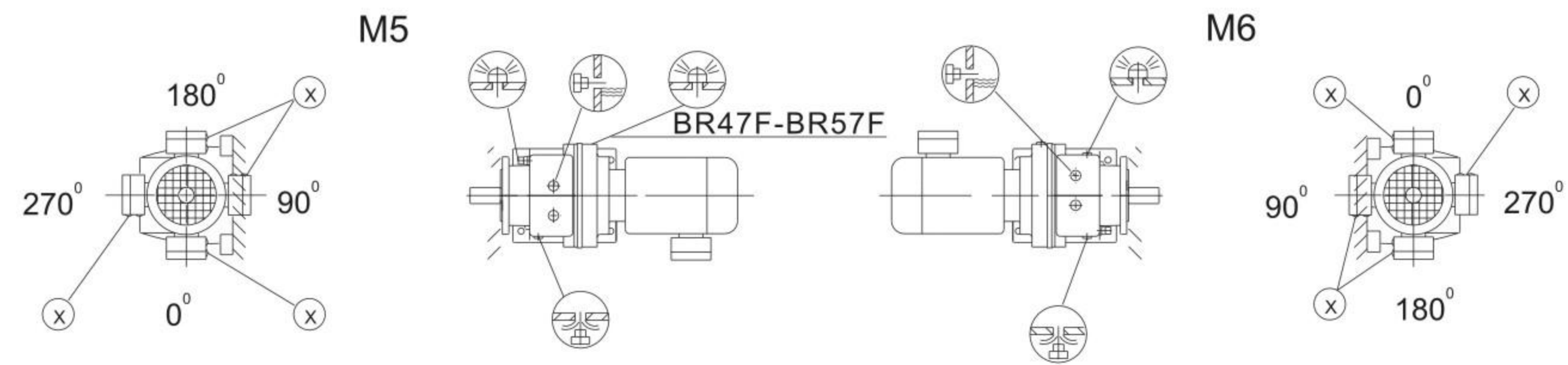
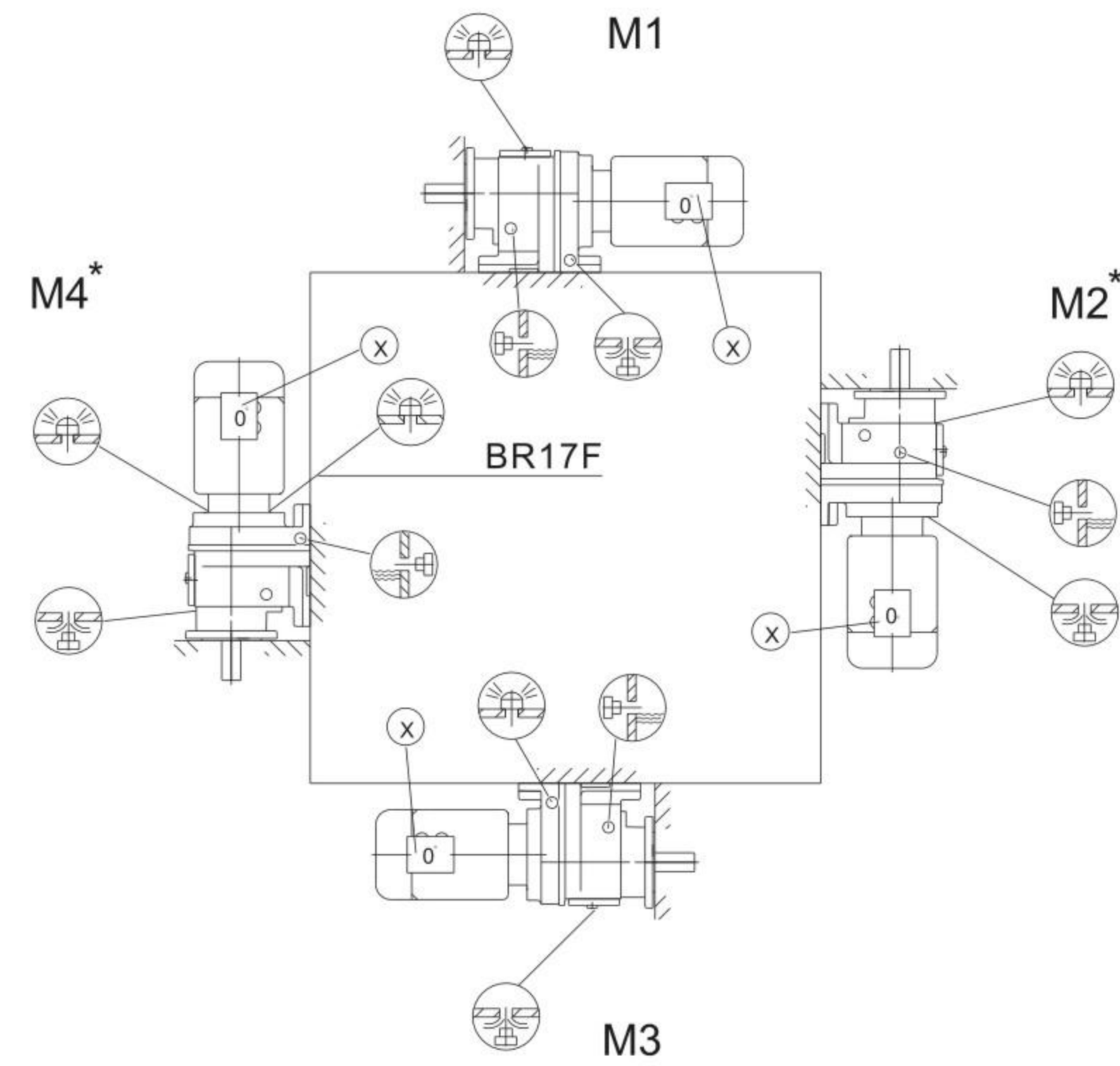
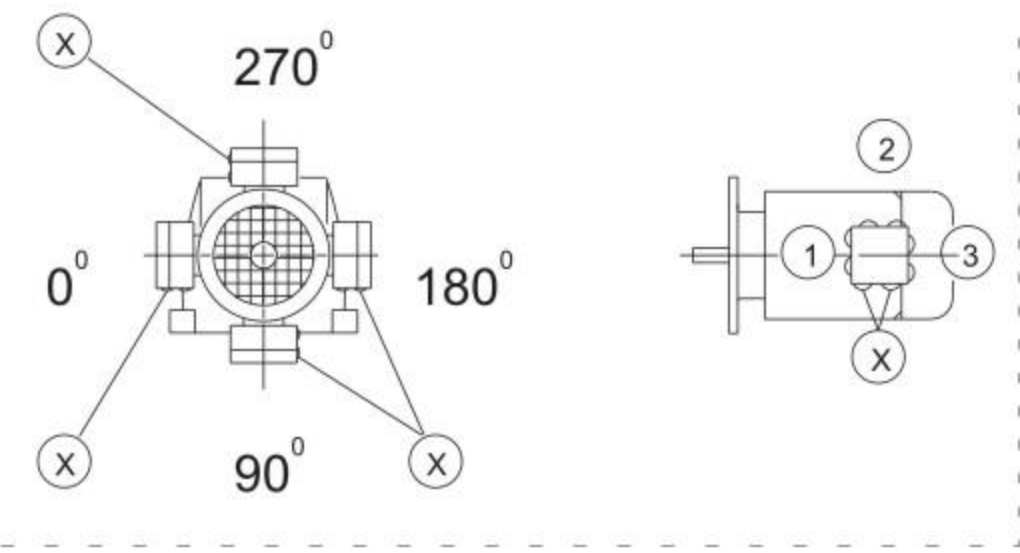
## BRF17-BRF167



- BRF17, BRF27 M1, M3, M5, M6
- BRF47, BRF57 M5
- BRF17, BRF27

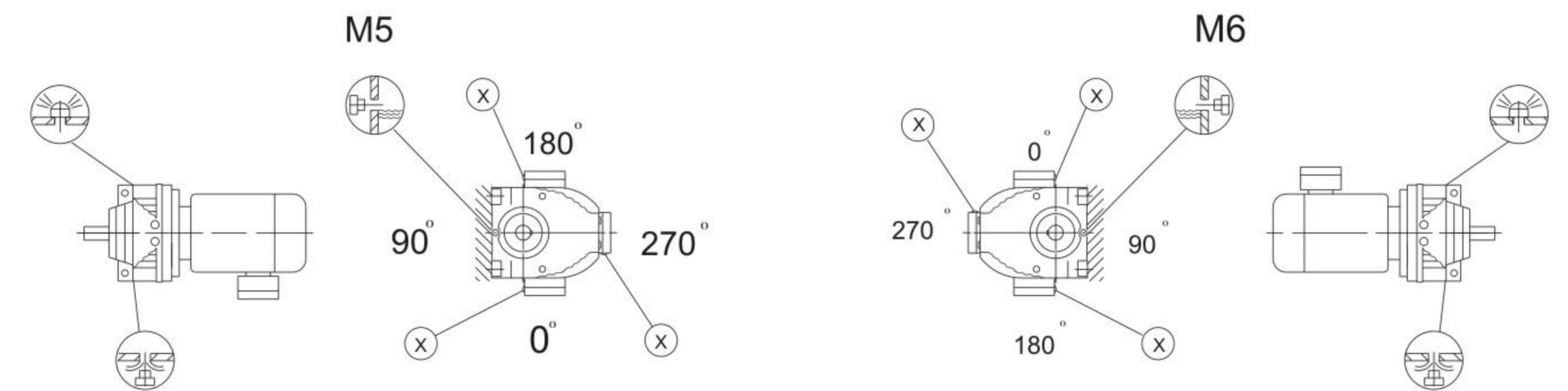
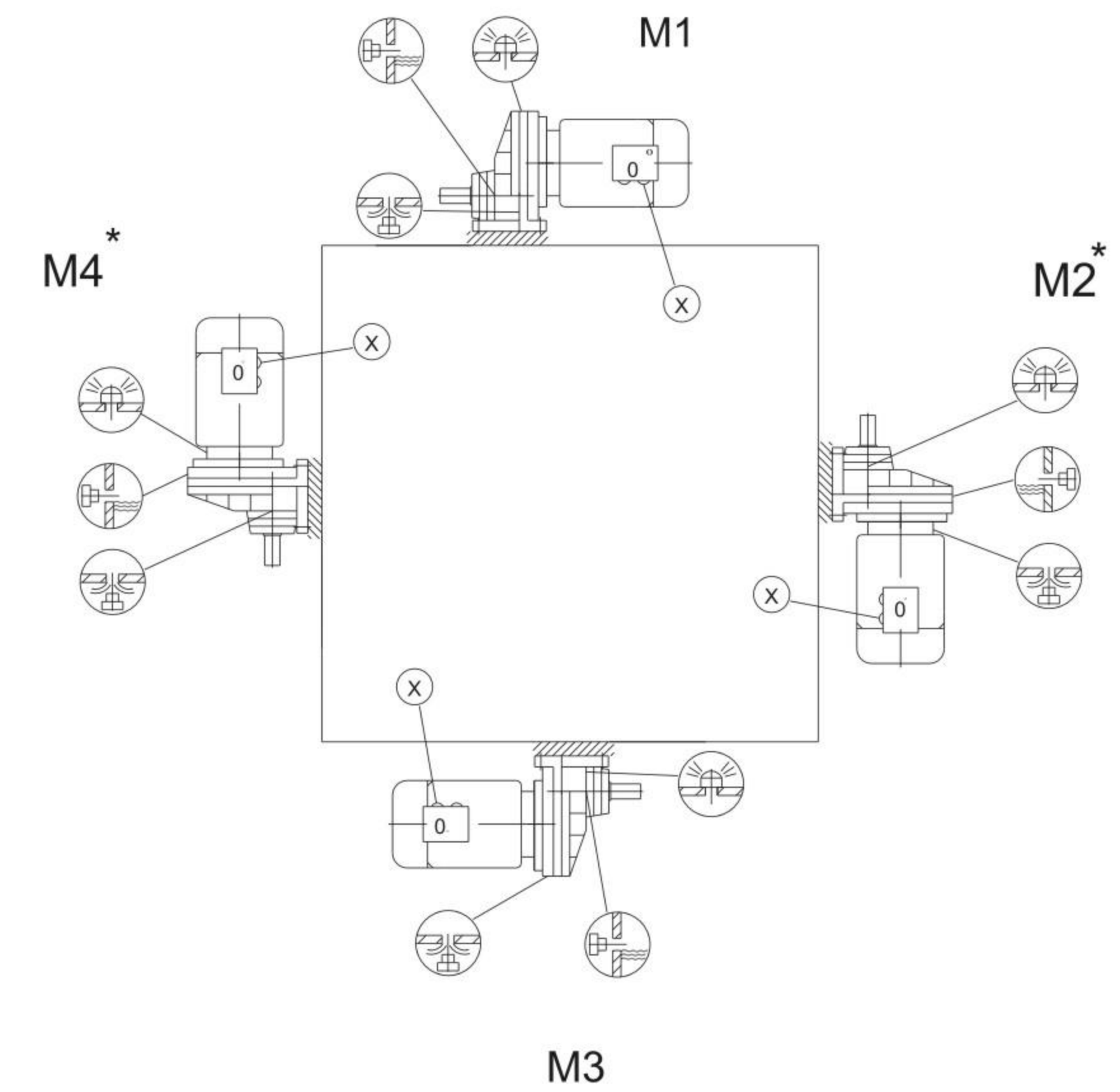
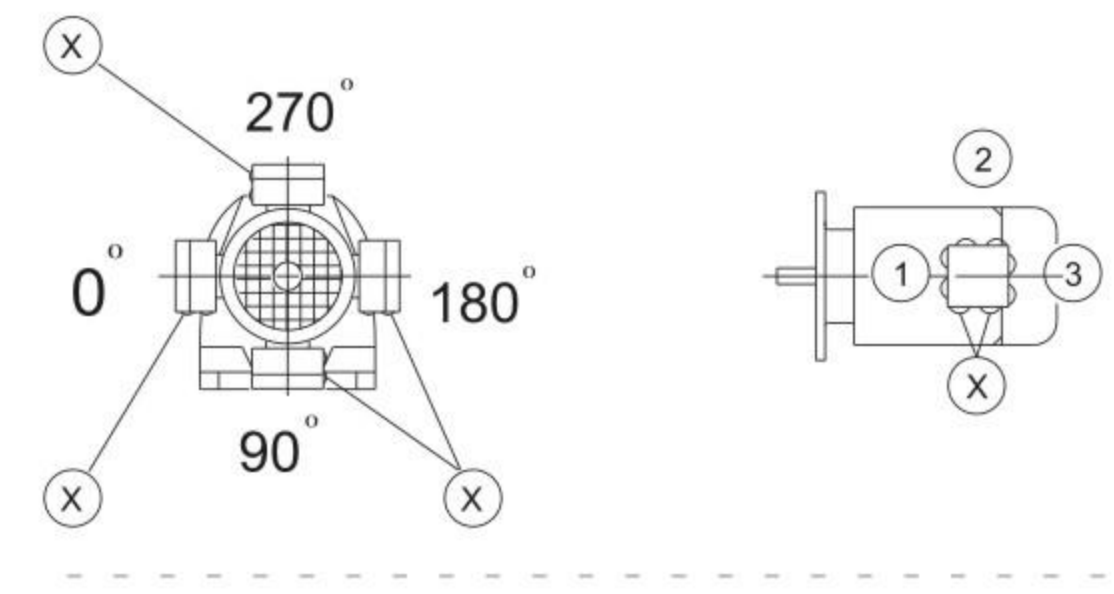


## BR17F-BR87F



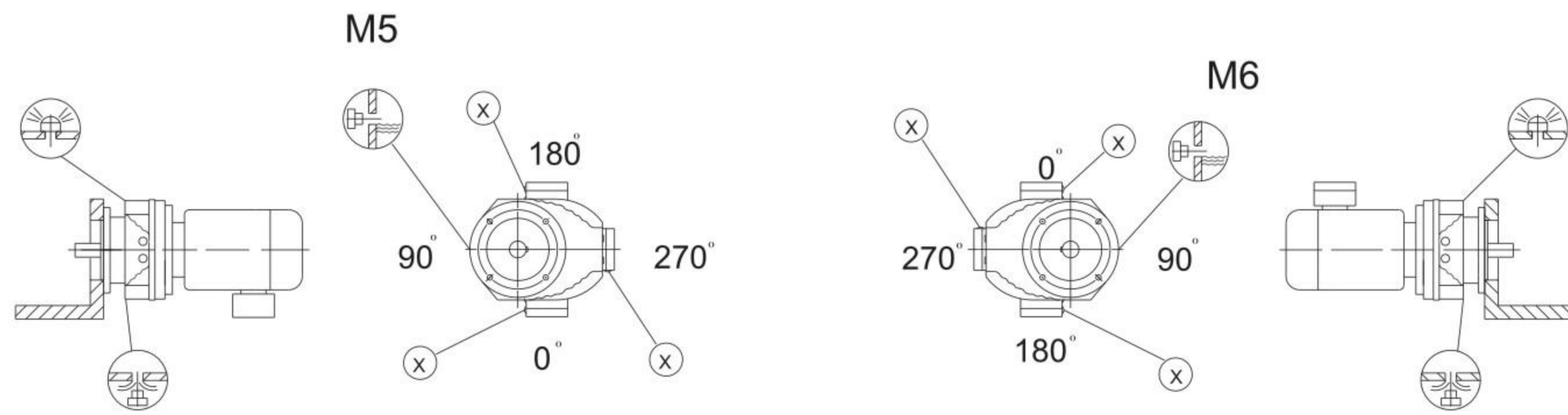
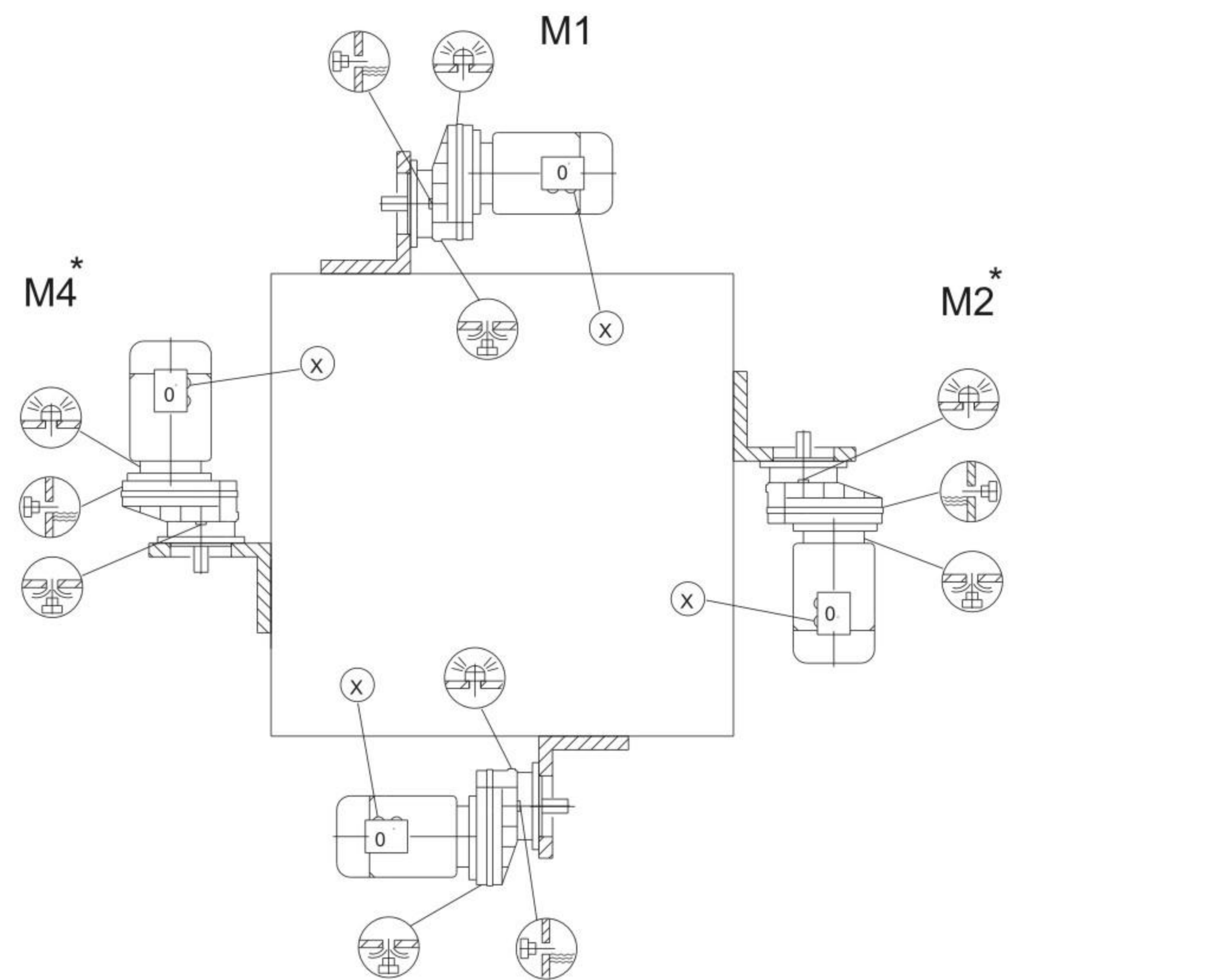
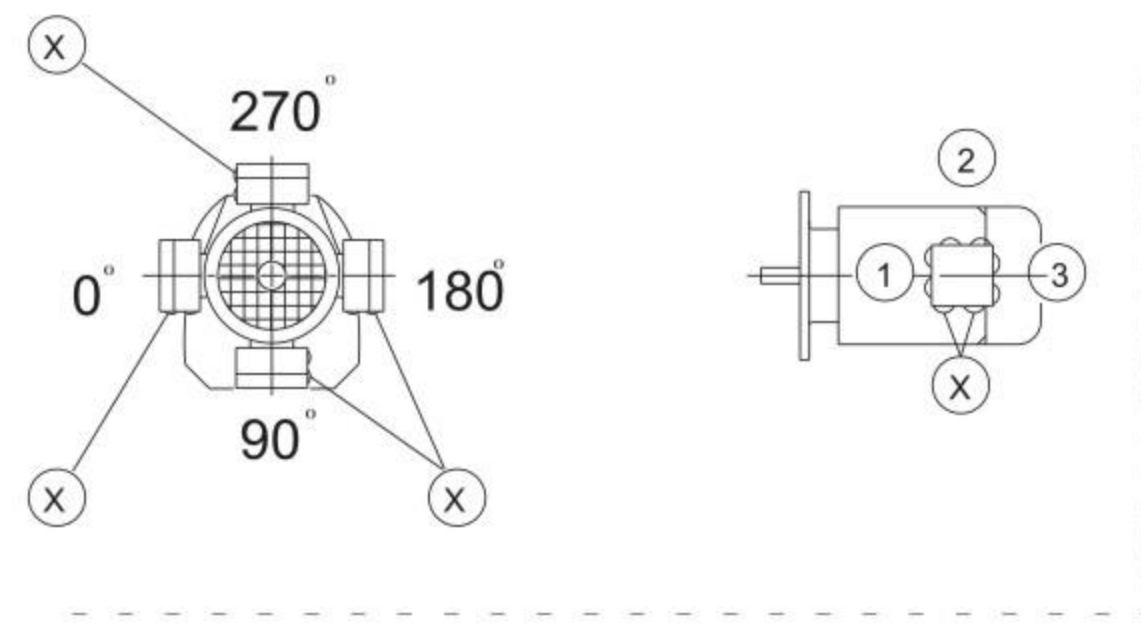
- BR17F, BR27F M1, M3, M5, M6
- BR47F, BR57F M5
- BR17F, BR27F

## BRX57~BRX107

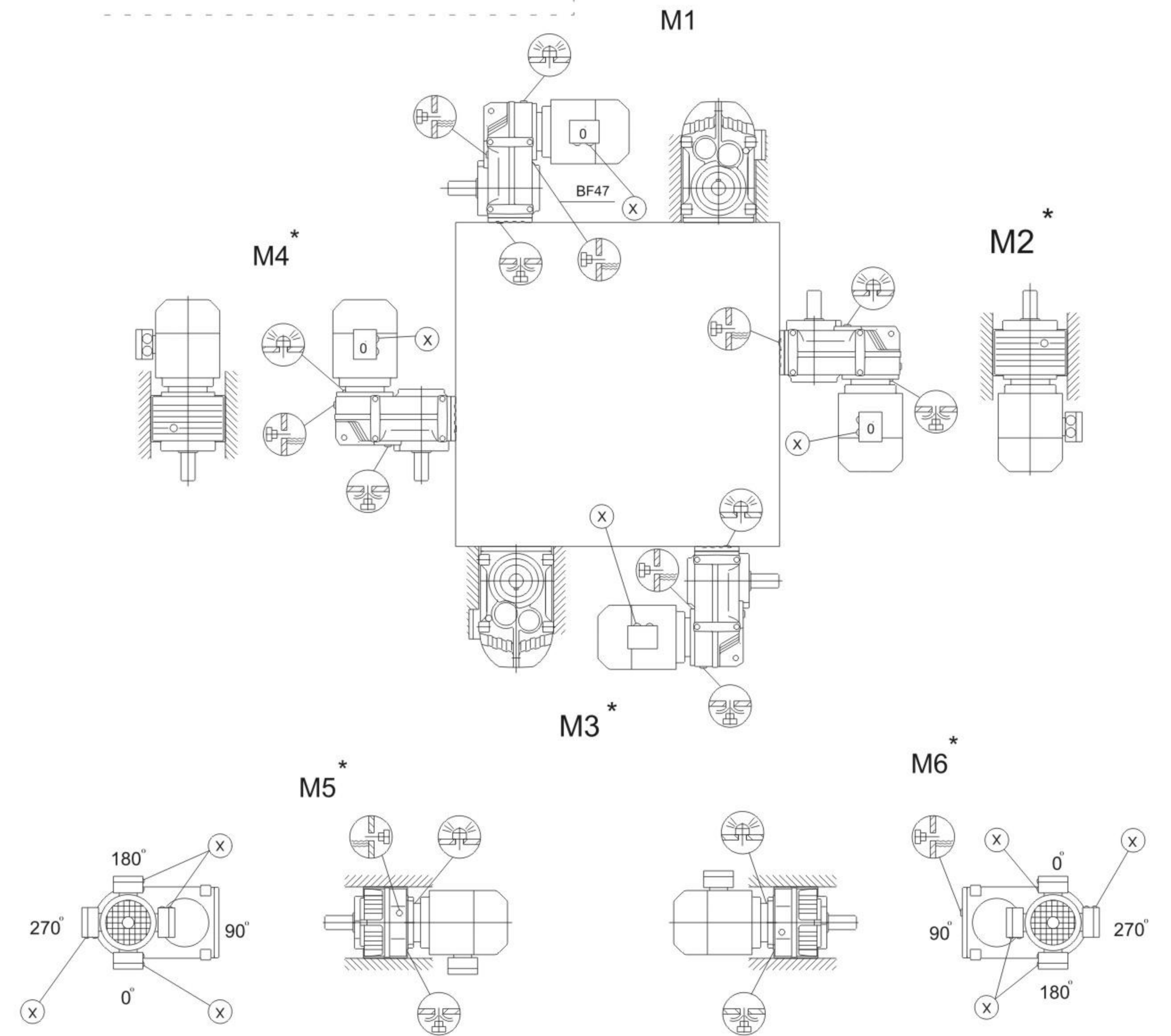
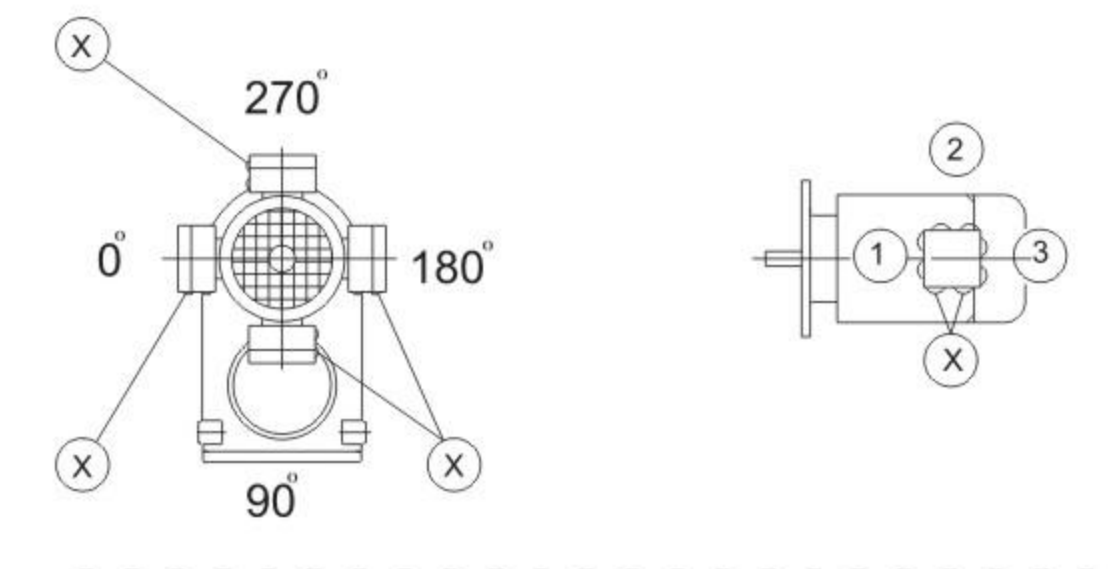




## BRXF57~BRXF107



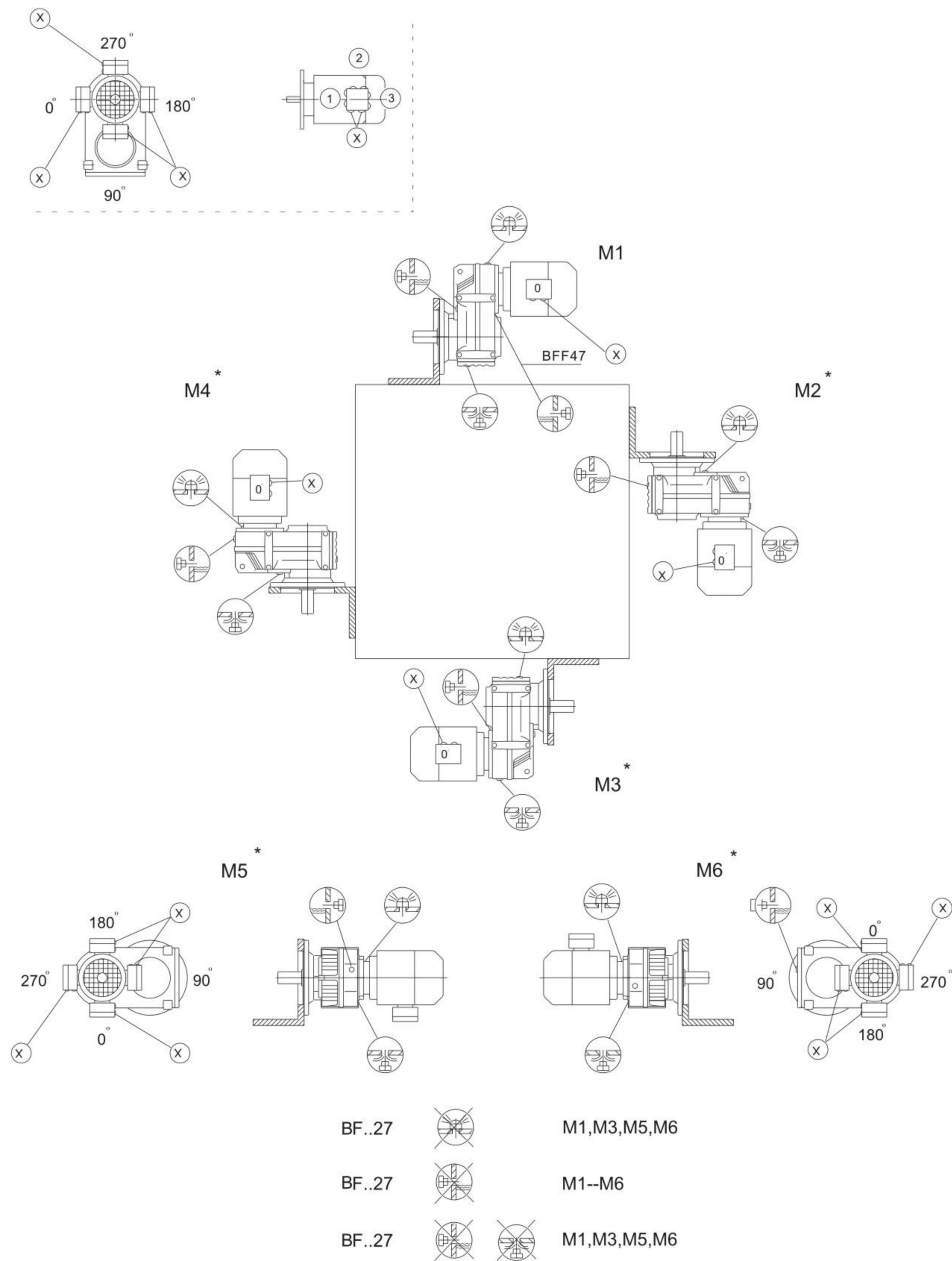
## 10.3 平行轴斜齿轮减速电机安装位置 10.3 Mounting position of parallel shaft helical Gear unit BF/FA..B/FH27B-157B, BFV27B-107B



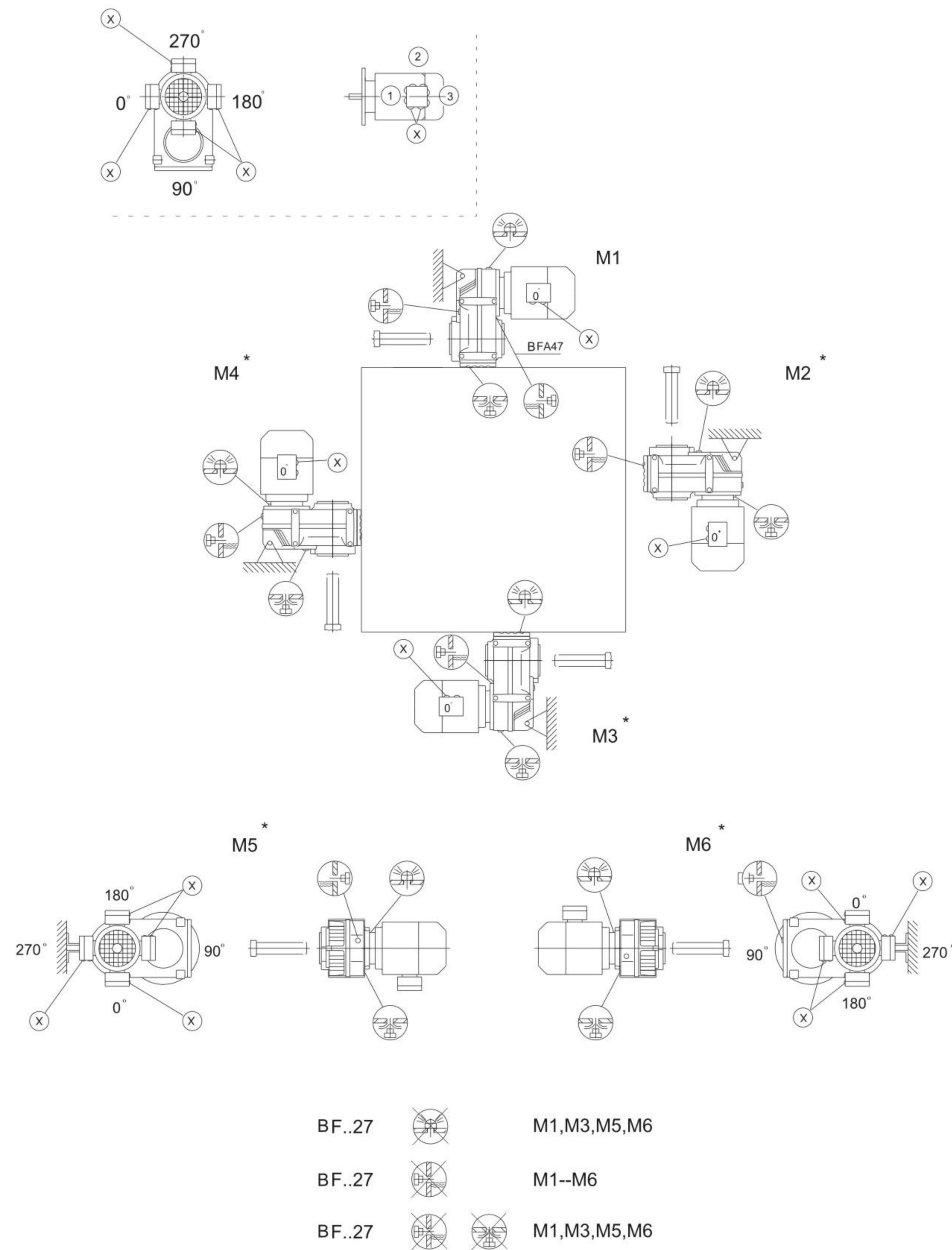
BF..27		M1,M3,M5,M6
BF..27		M1--M6
BF..27		M1,M3,M5,M6



## BFF/FAF/FHF/FAZ/FHZ27-157, BFVF/FVZ27-107

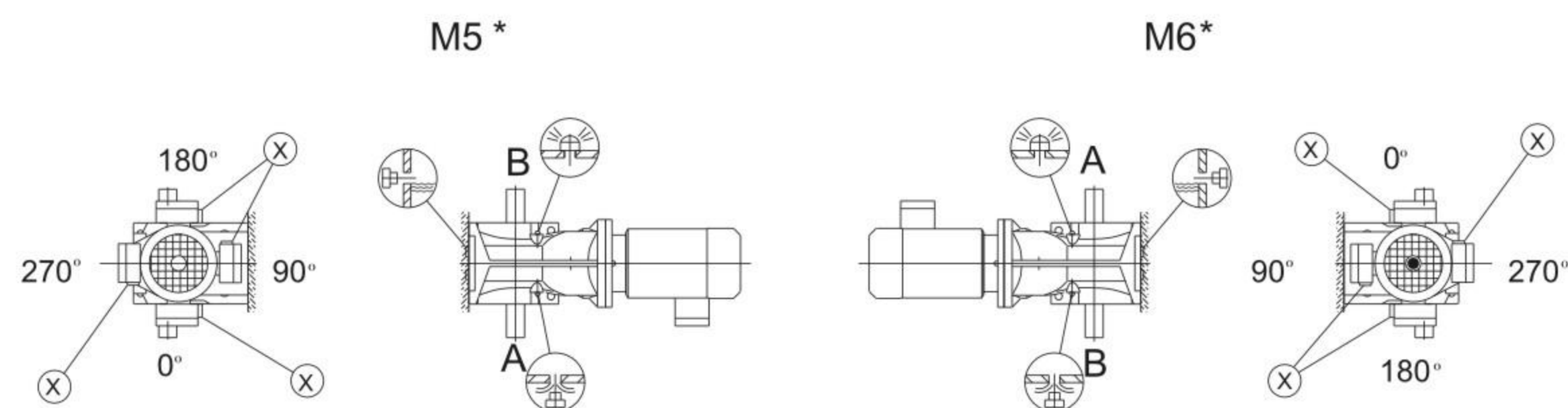
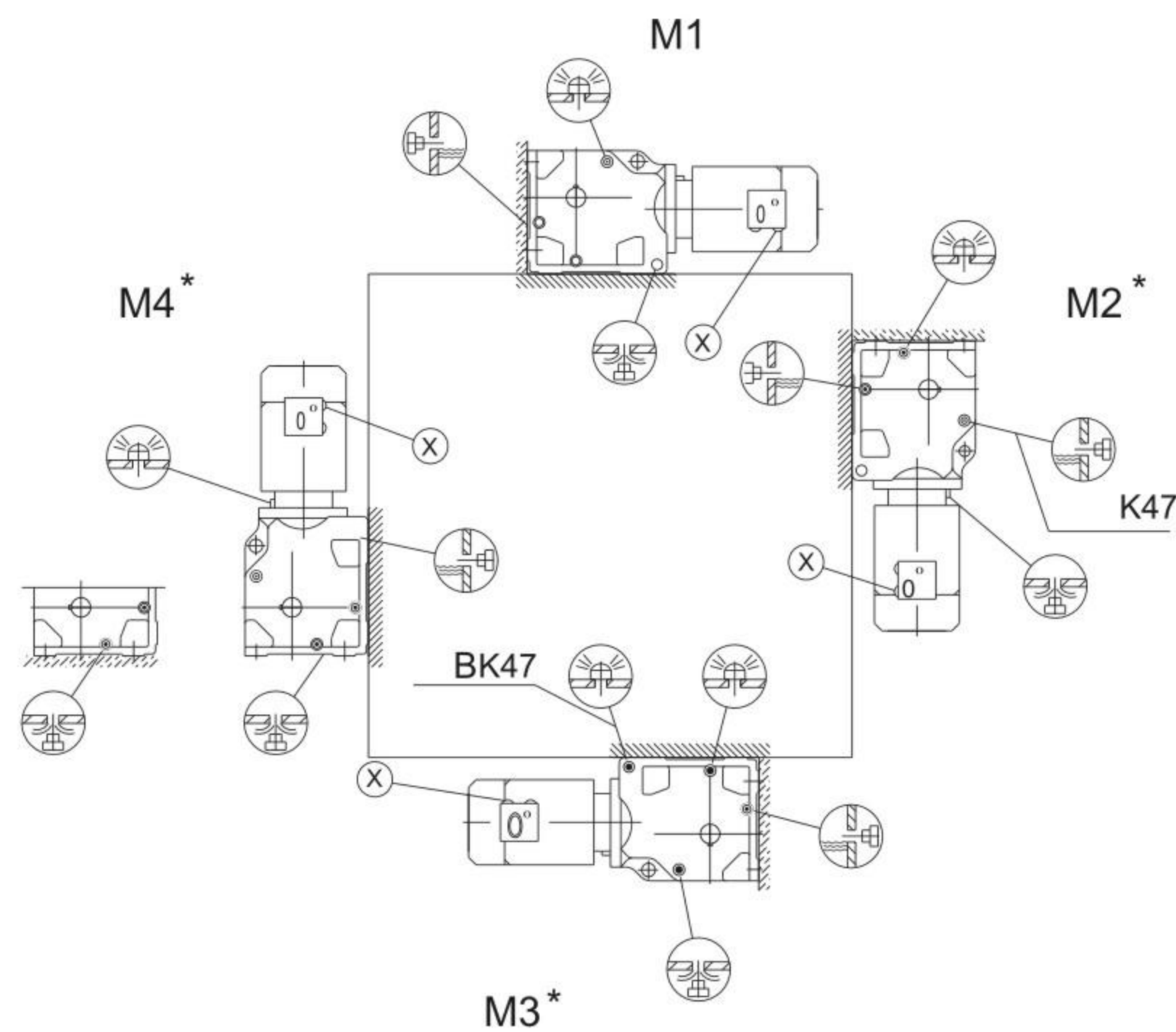
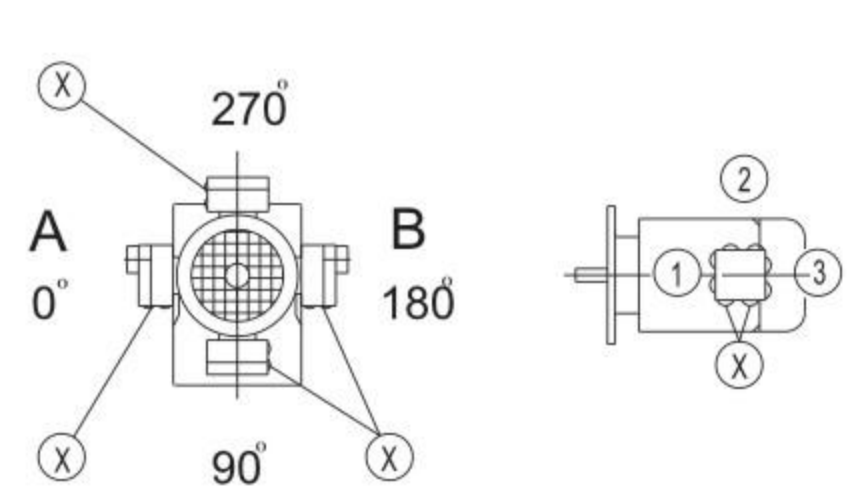


## BFA/FH27-157, BFV27-107



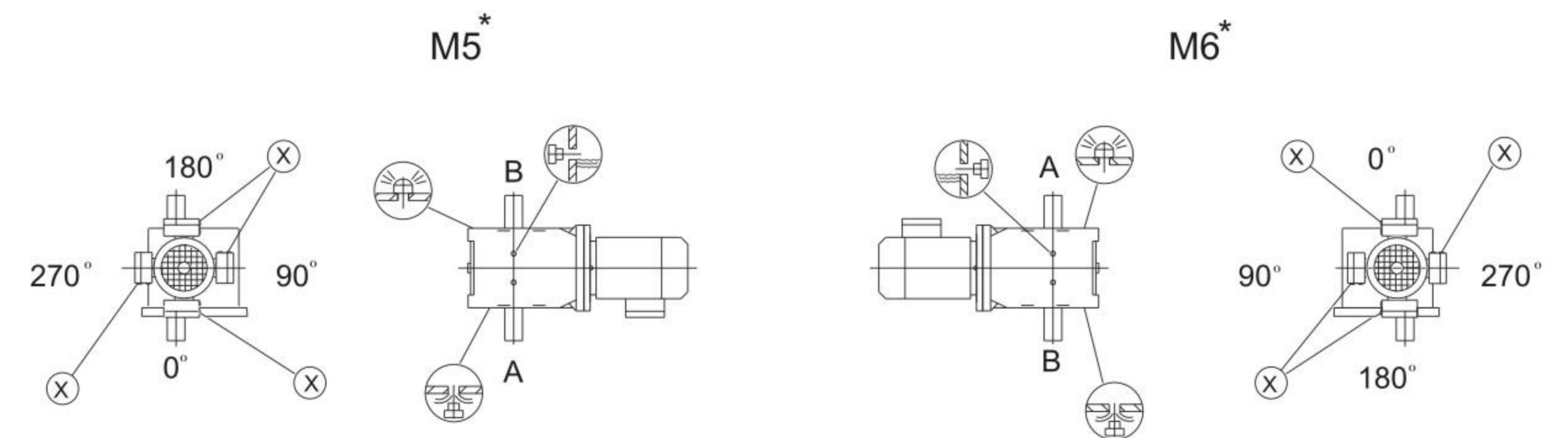
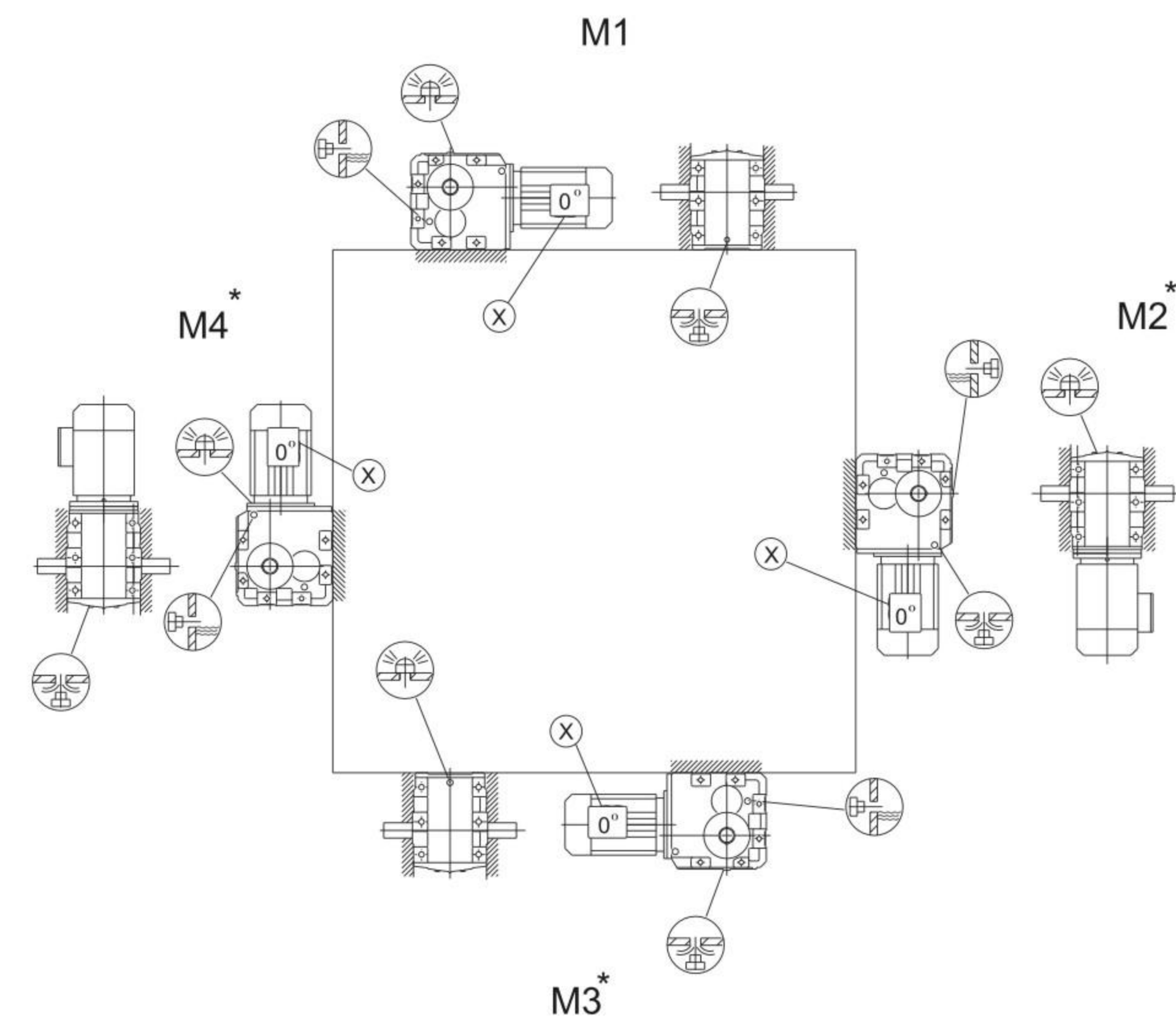
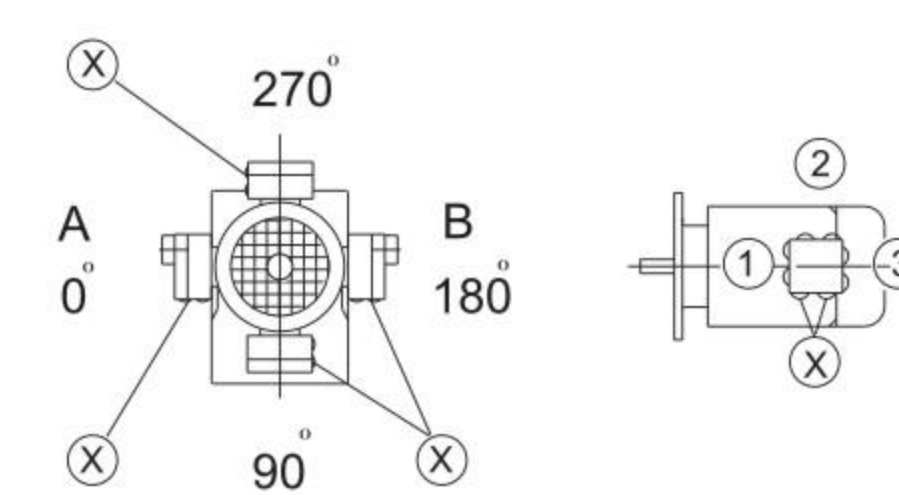


## 10.4 斜齿轮-伞齿轮减速电机安装位置 Mounting position of helical – bevel Gear unit BK/KA..B/KH37B-157B,BKV37B-107B



重要:请参见"减速器选型"中"径向和轴向负载"部分(P17)  
Important:Please refer to the information in the " Geared Motos" catalog. Optional Planning for Gear units Ouerhung and axial loads part" (P17)

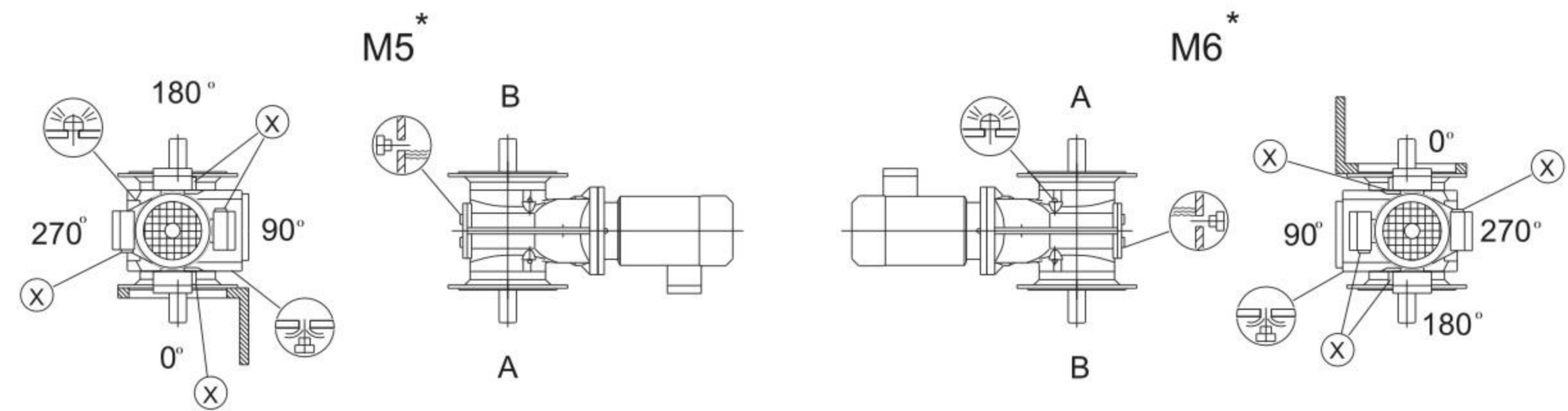
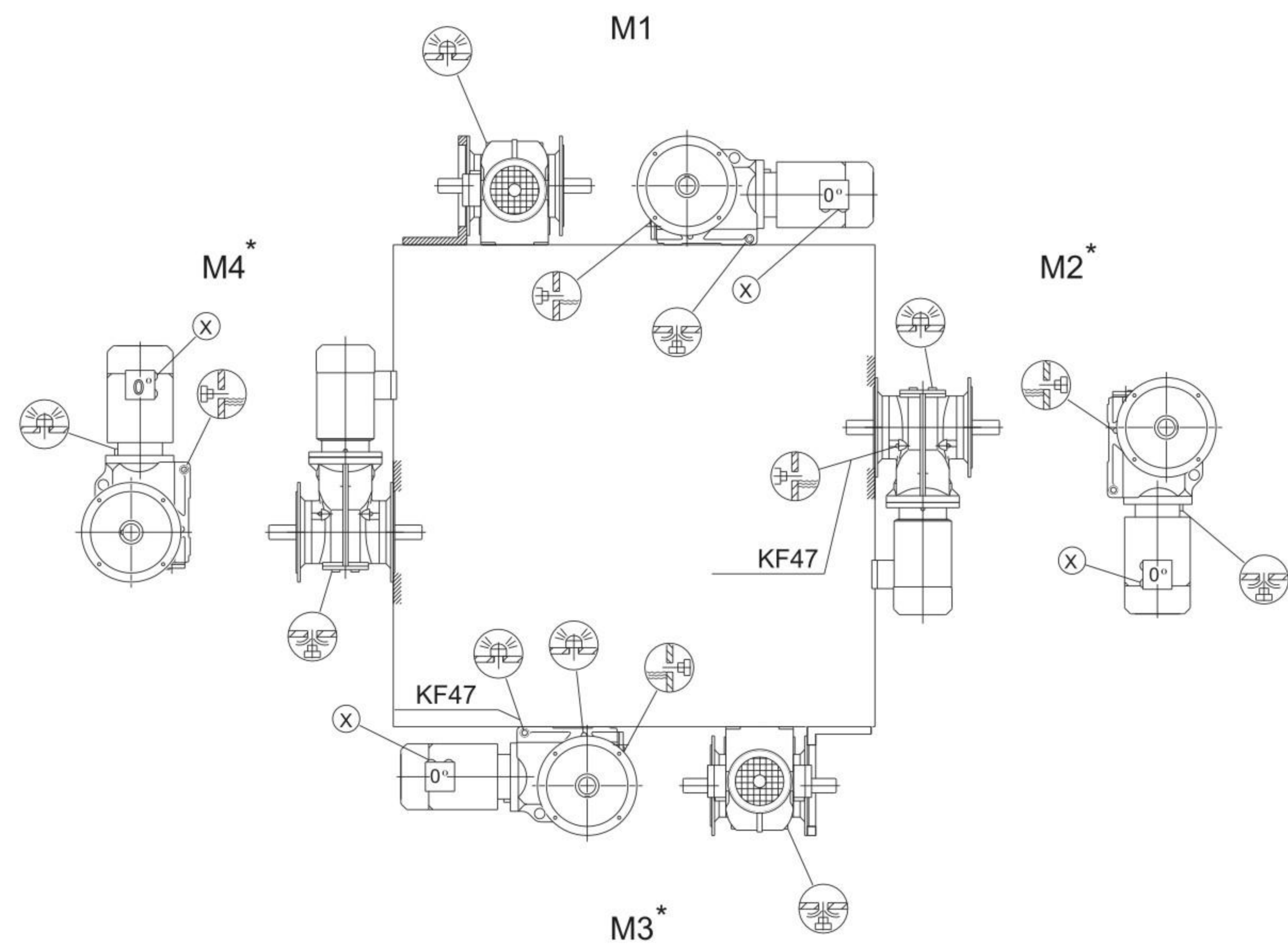
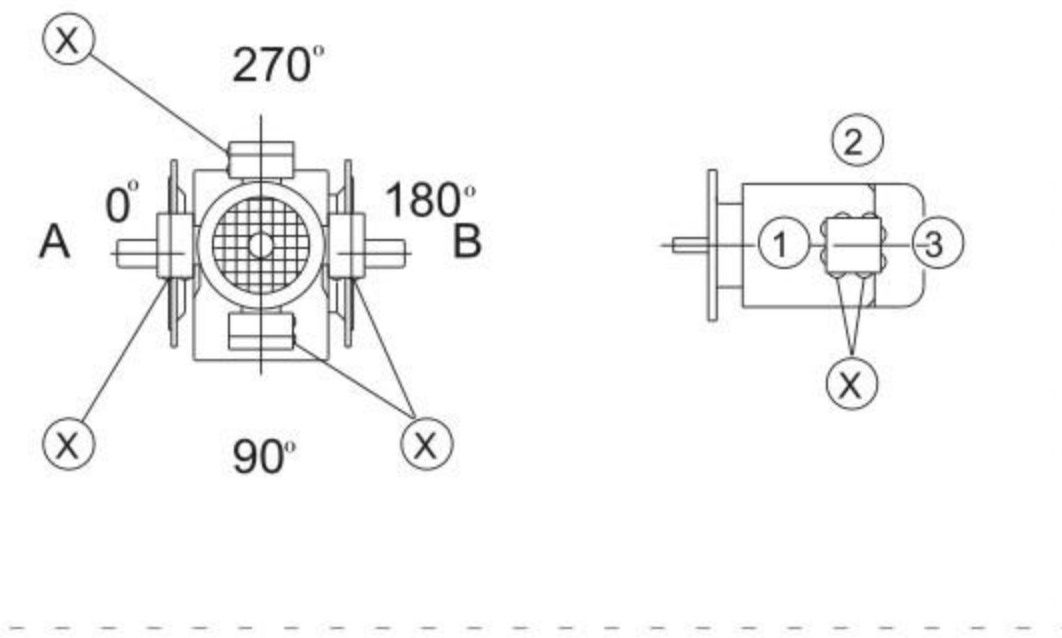
## BK167-187,BKH167B-187B



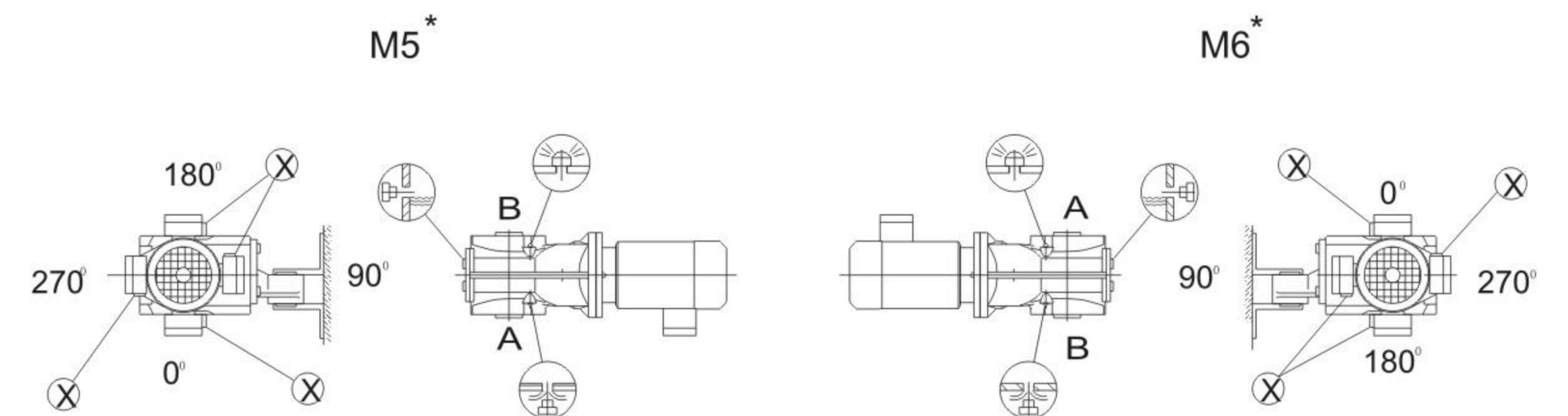
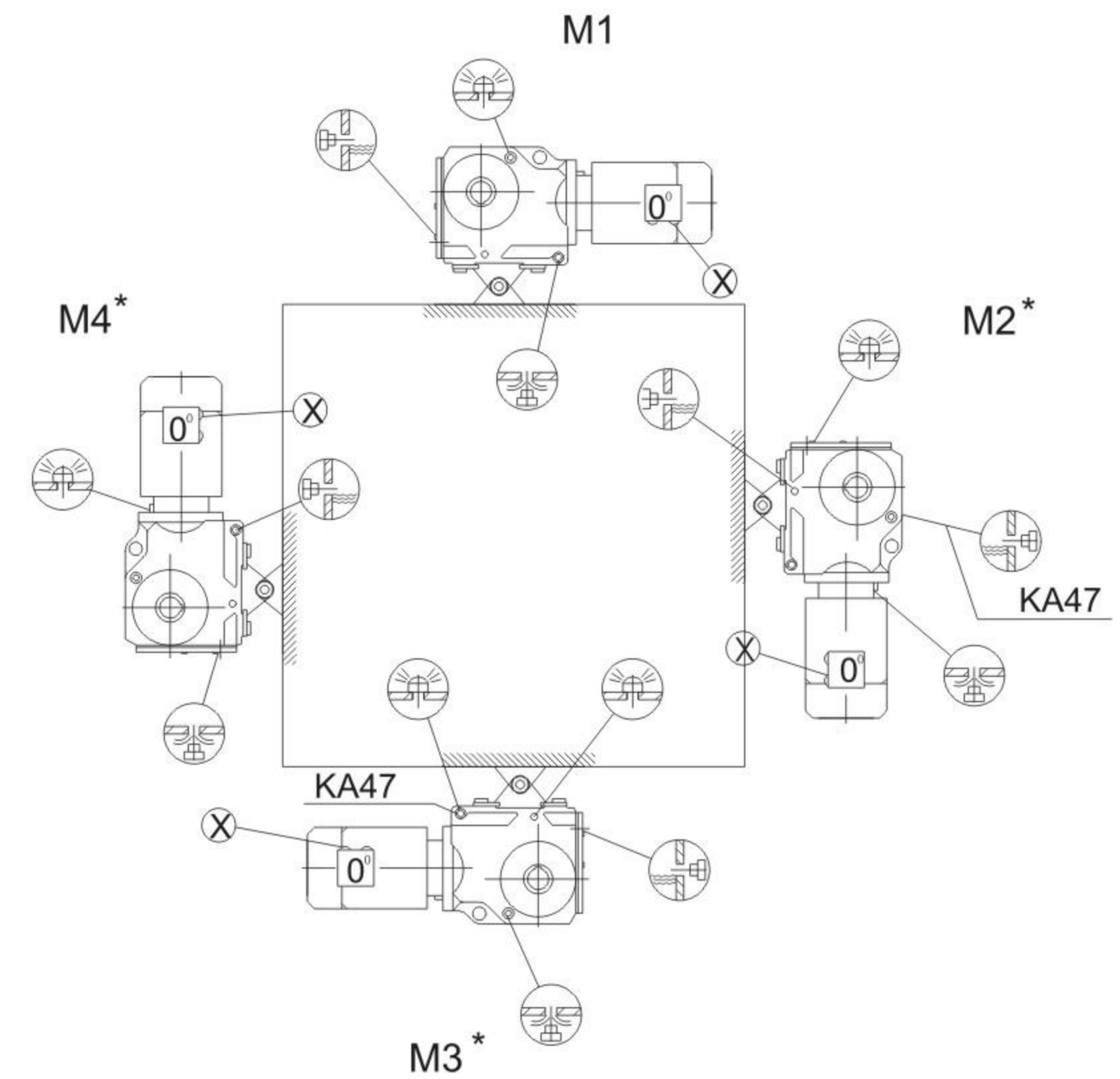
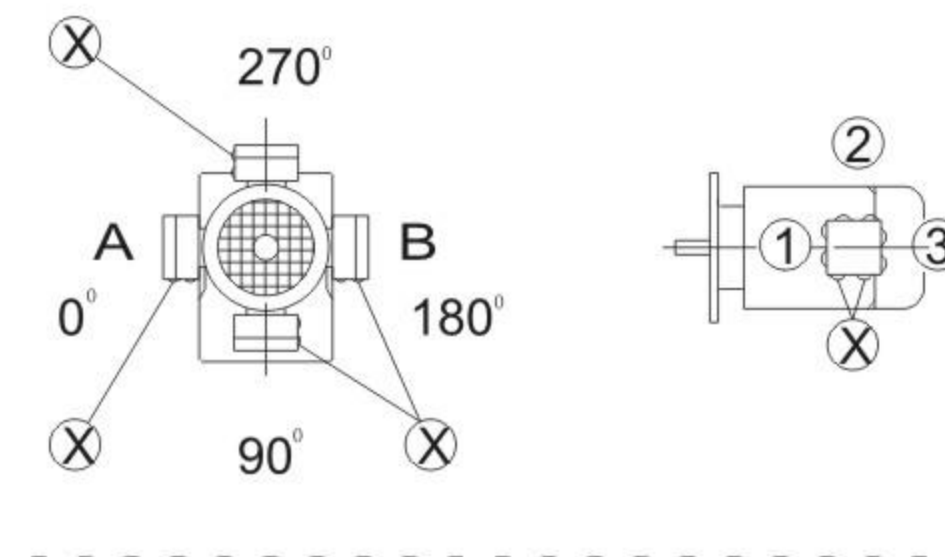
重要:请参见"减速器选型"中"径向和轴向负载"部分(P )  
Important:Please refer to the information in the " Geared Motos" catalog. Optional Planning for Gear units Ouerhung and axial loads part" (P17)



## BKF/KAF/KAZ/KHZ37-157, BKVF/KVZ37-107

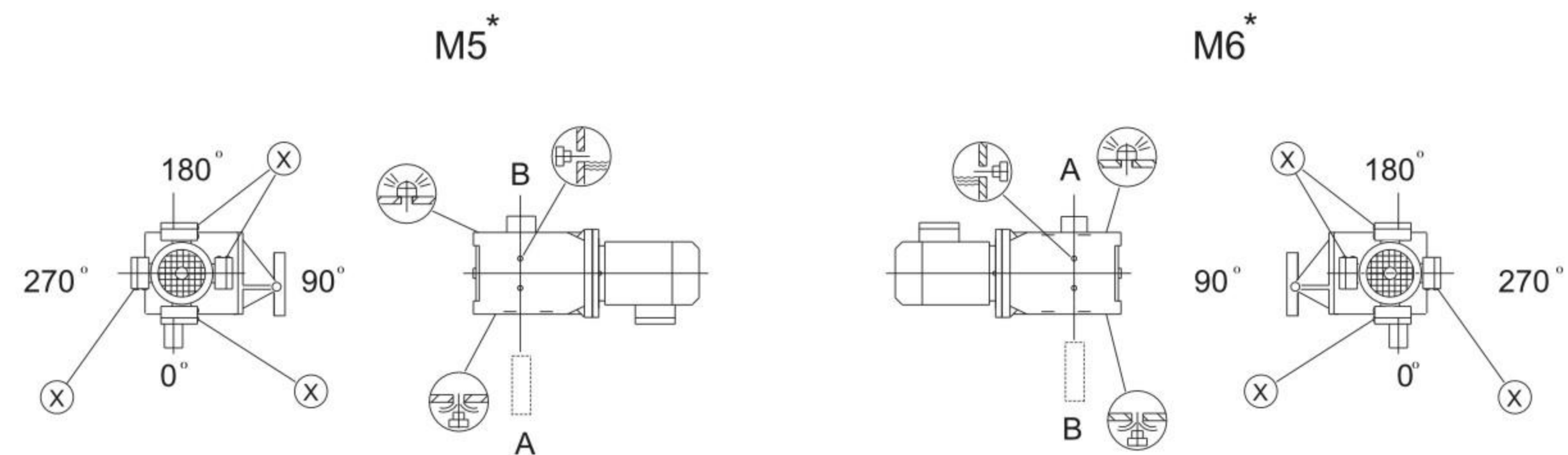
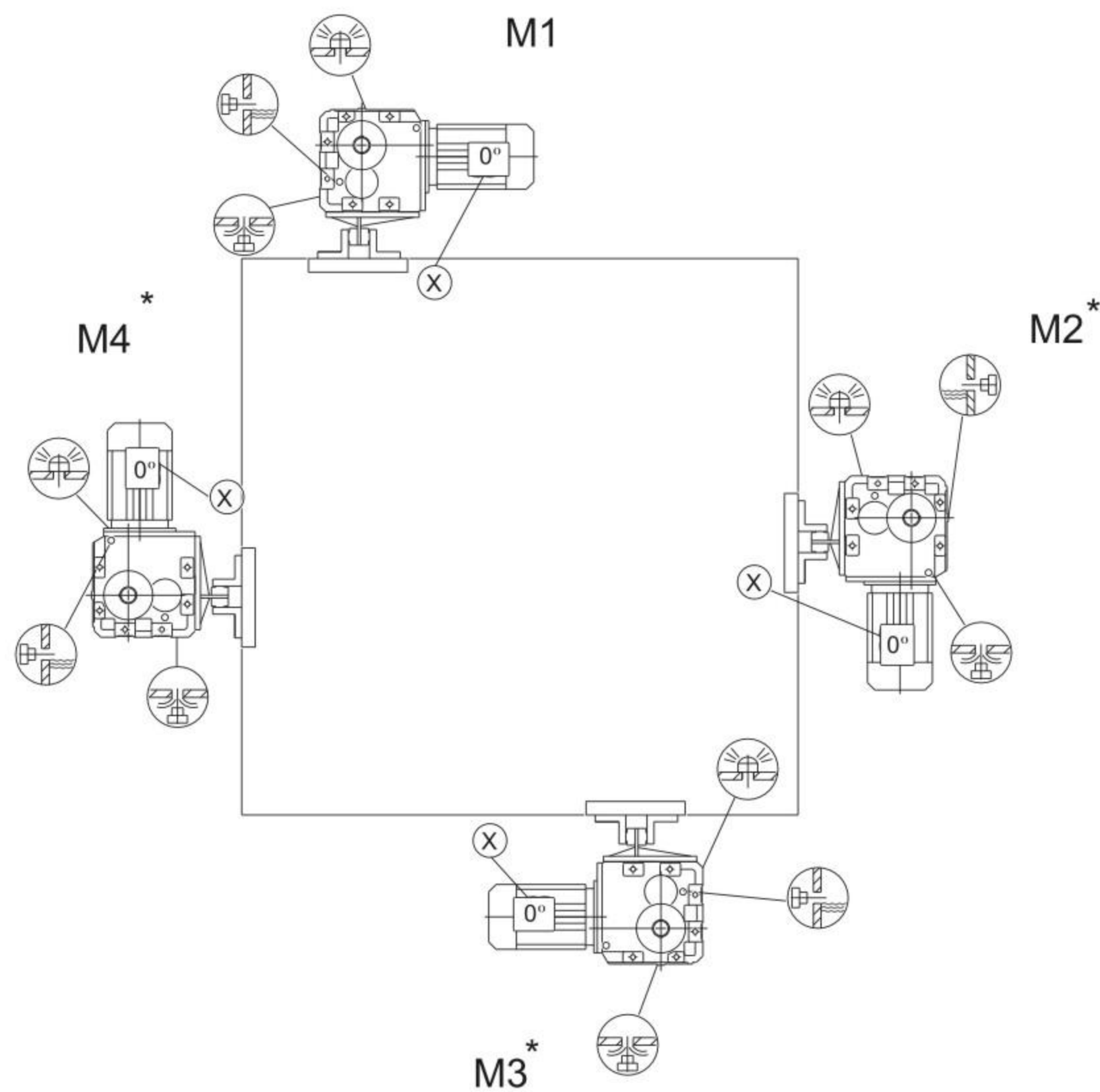
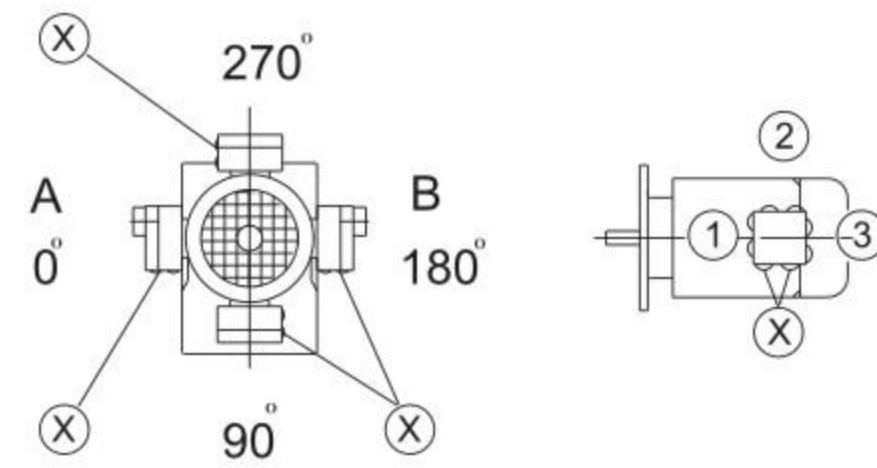


## BKA/KH37-157, BKV37-107

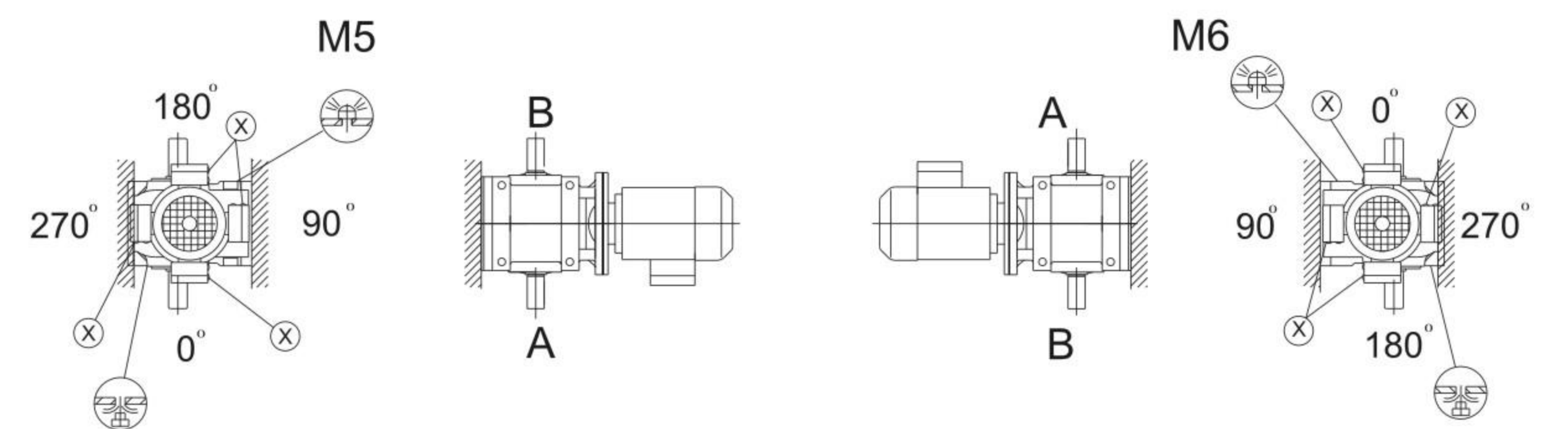
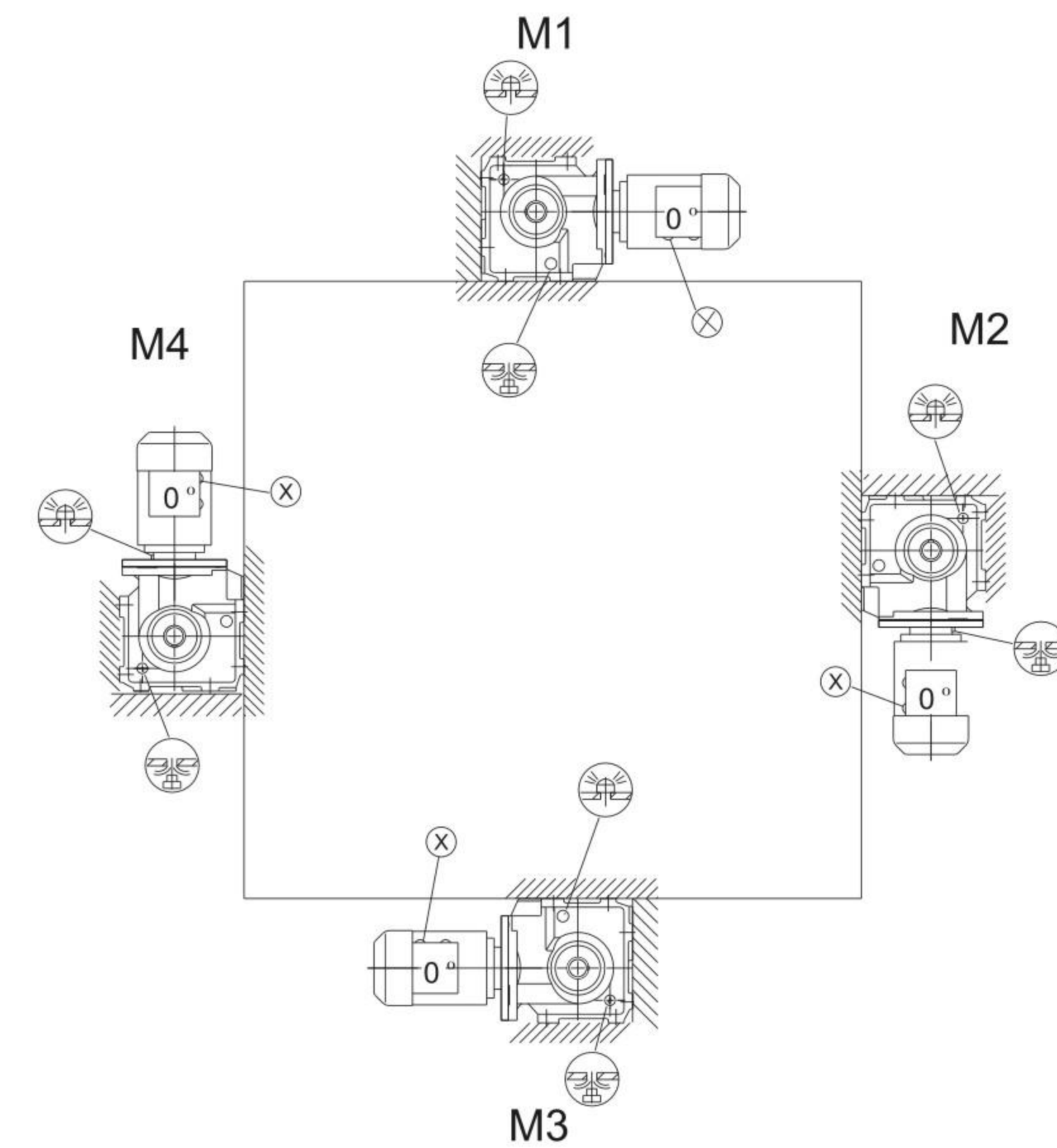
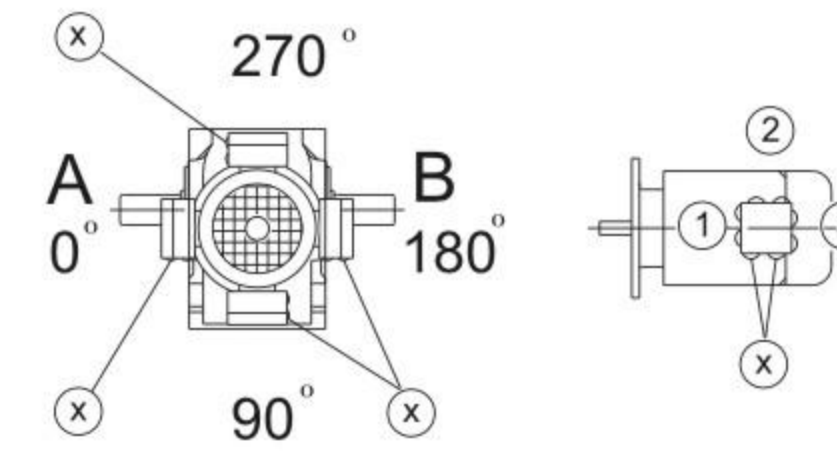




## BKH167-187



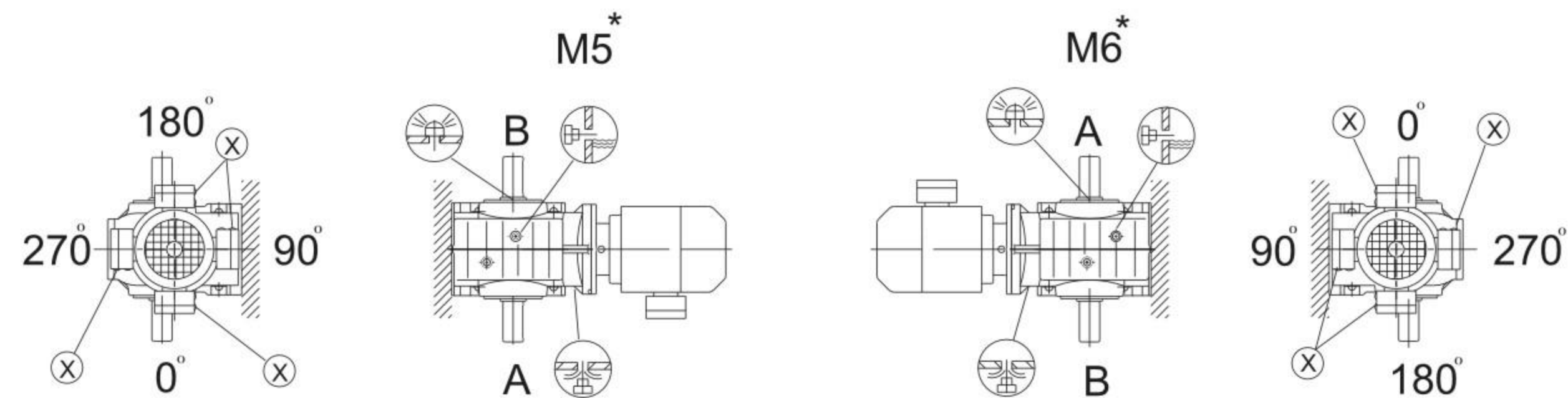
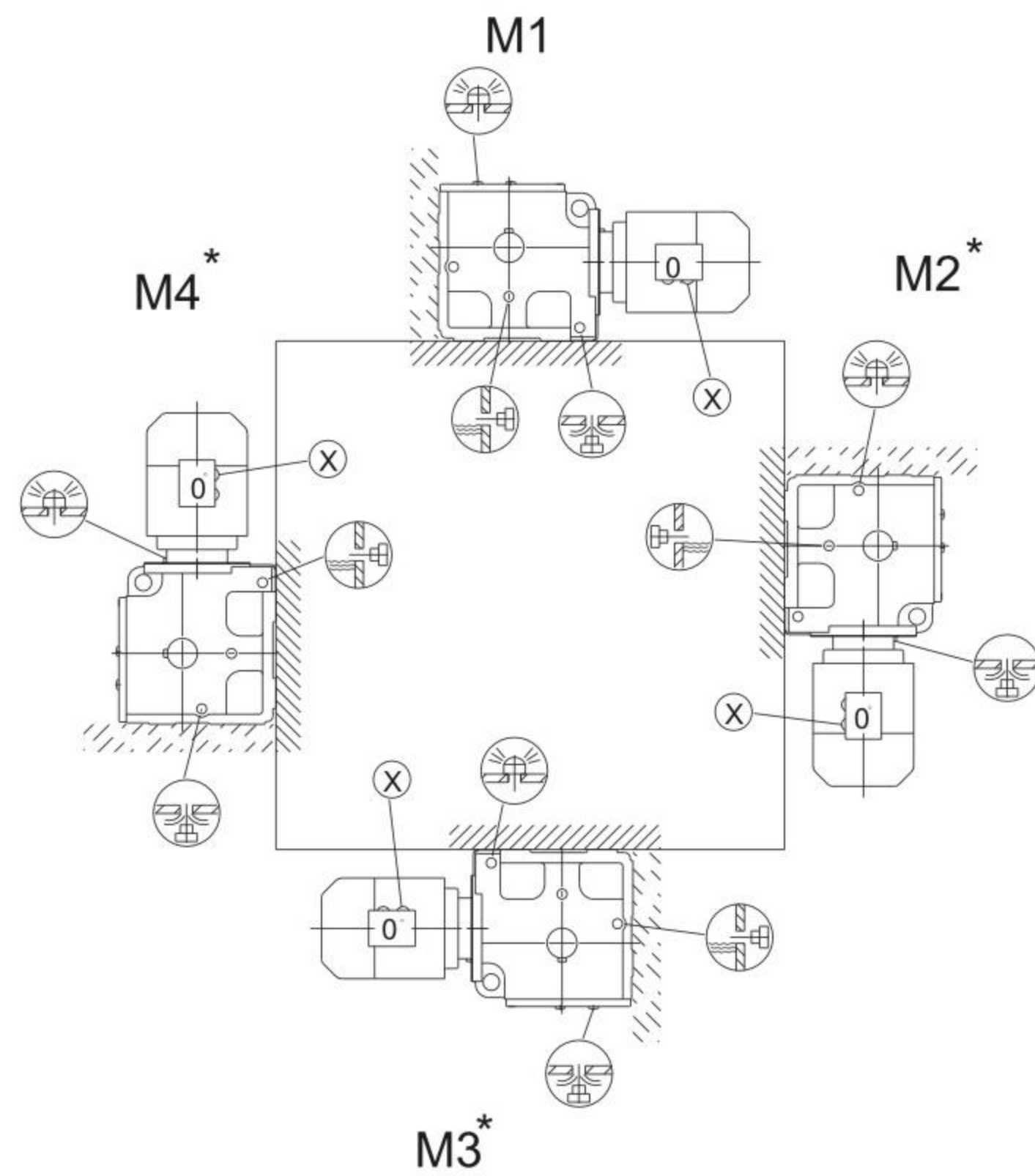
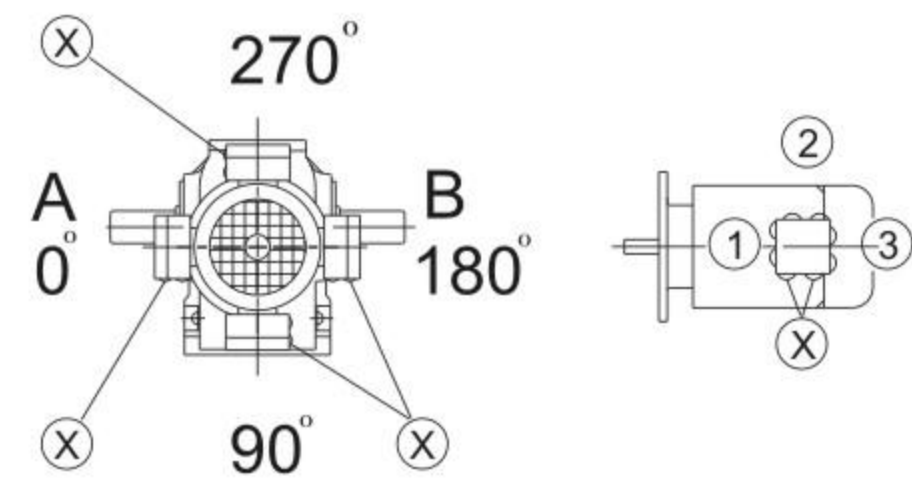
## 10.5 斜齿轮-蜗杆减速电机安装位置 10.5 Mounting position of Helical - worm Gear motor BS37



重要:请参见"减速器选型"中"径向和轴向负载"部分(P17)  
Important: Please refer to the information in the "Geared Motors" catalog. Optional Planning for Gear units Overhung and axial loads part" (P17)

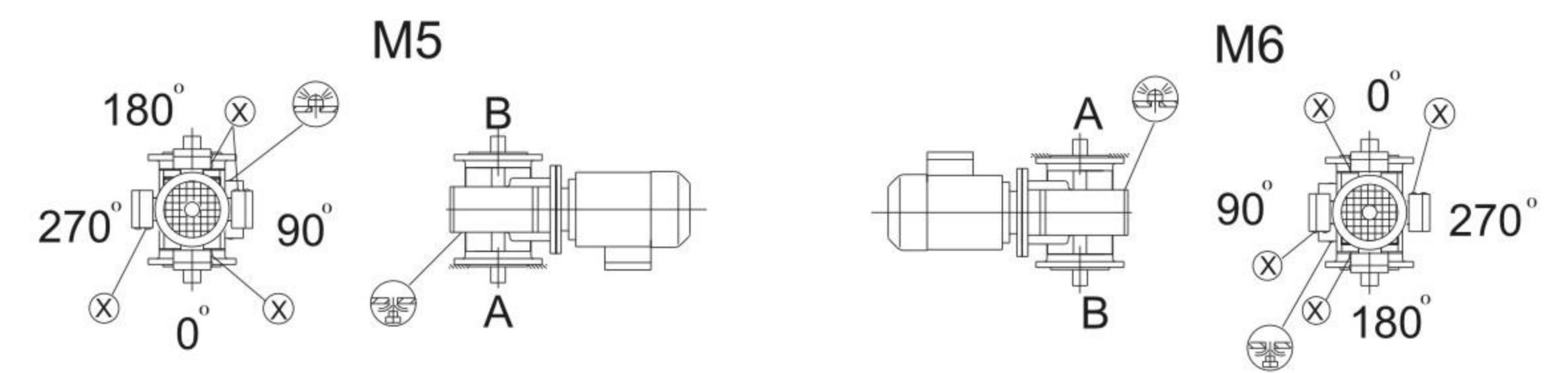
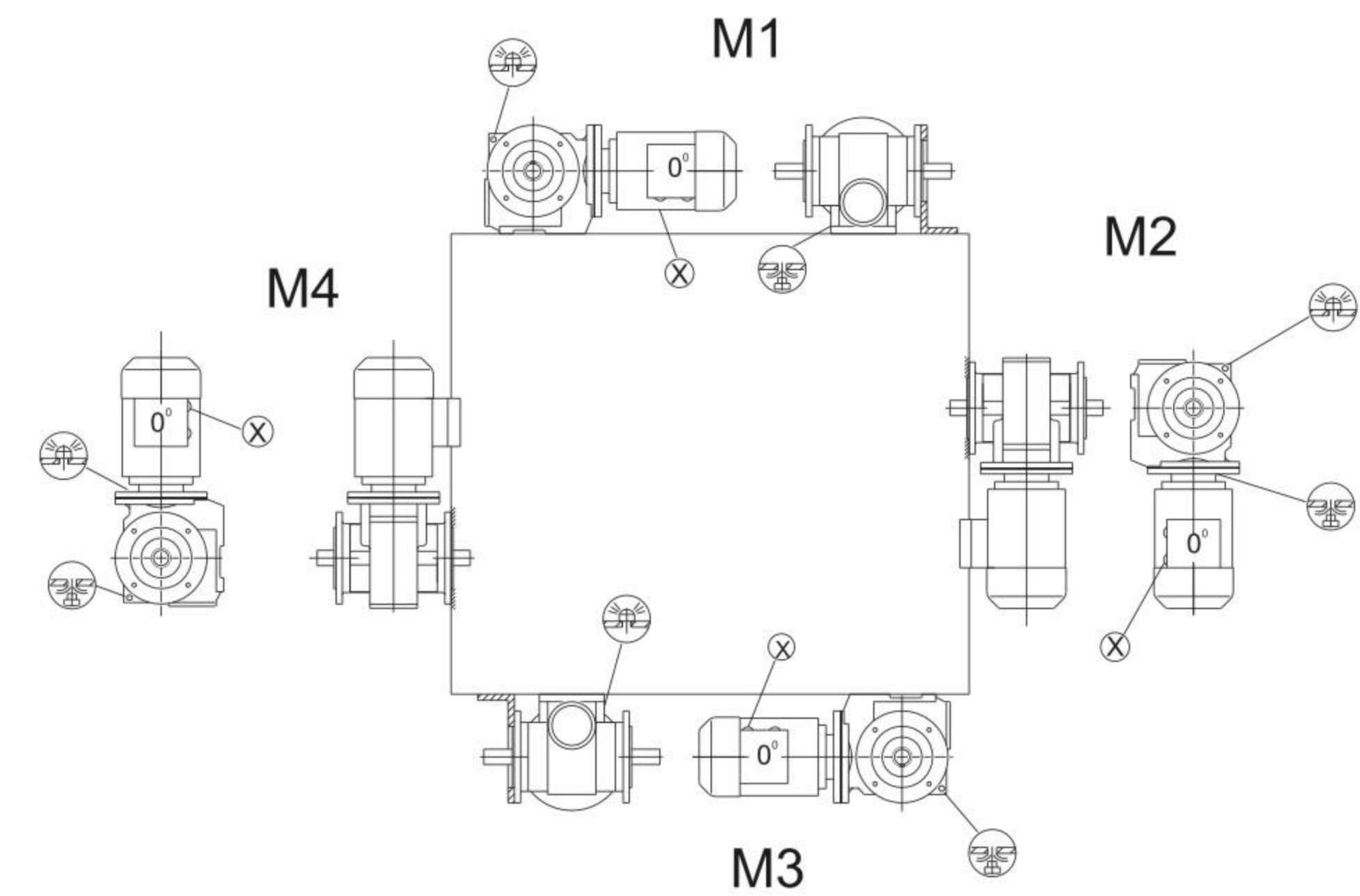
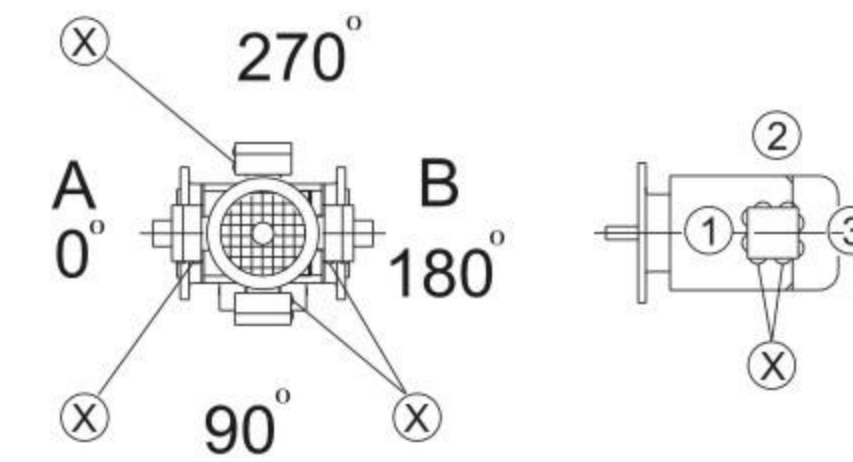


## BS47-BS97



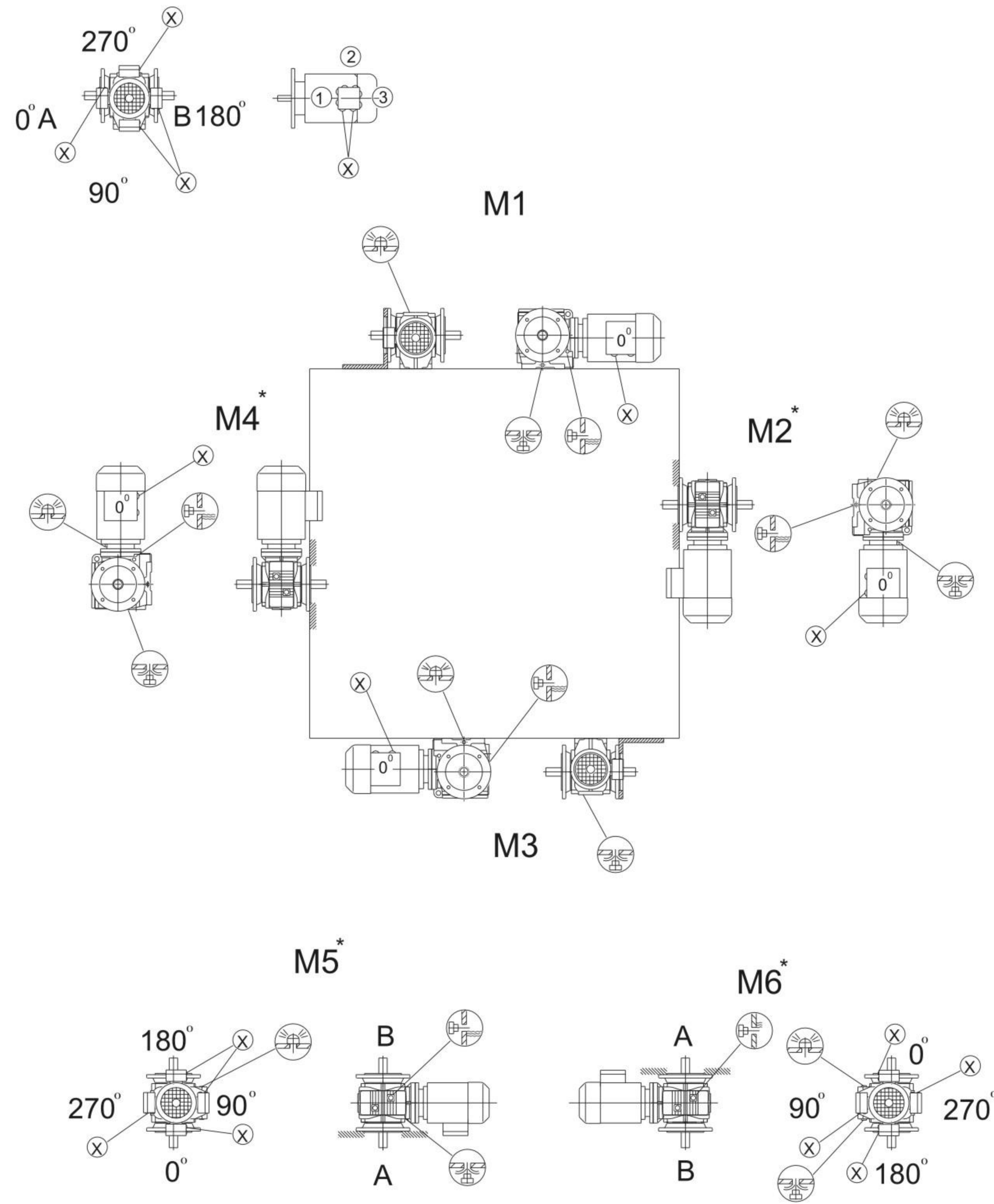
重要:请参见"减速器选型"中"径向和轴向负载"部分(P17)  
 Important:Please refer to the information in the " Geared Motos" catalog. Optional Planning for Gear units Ouerhung and axial loads part" (P17)

## BSF/SAF/SHF37

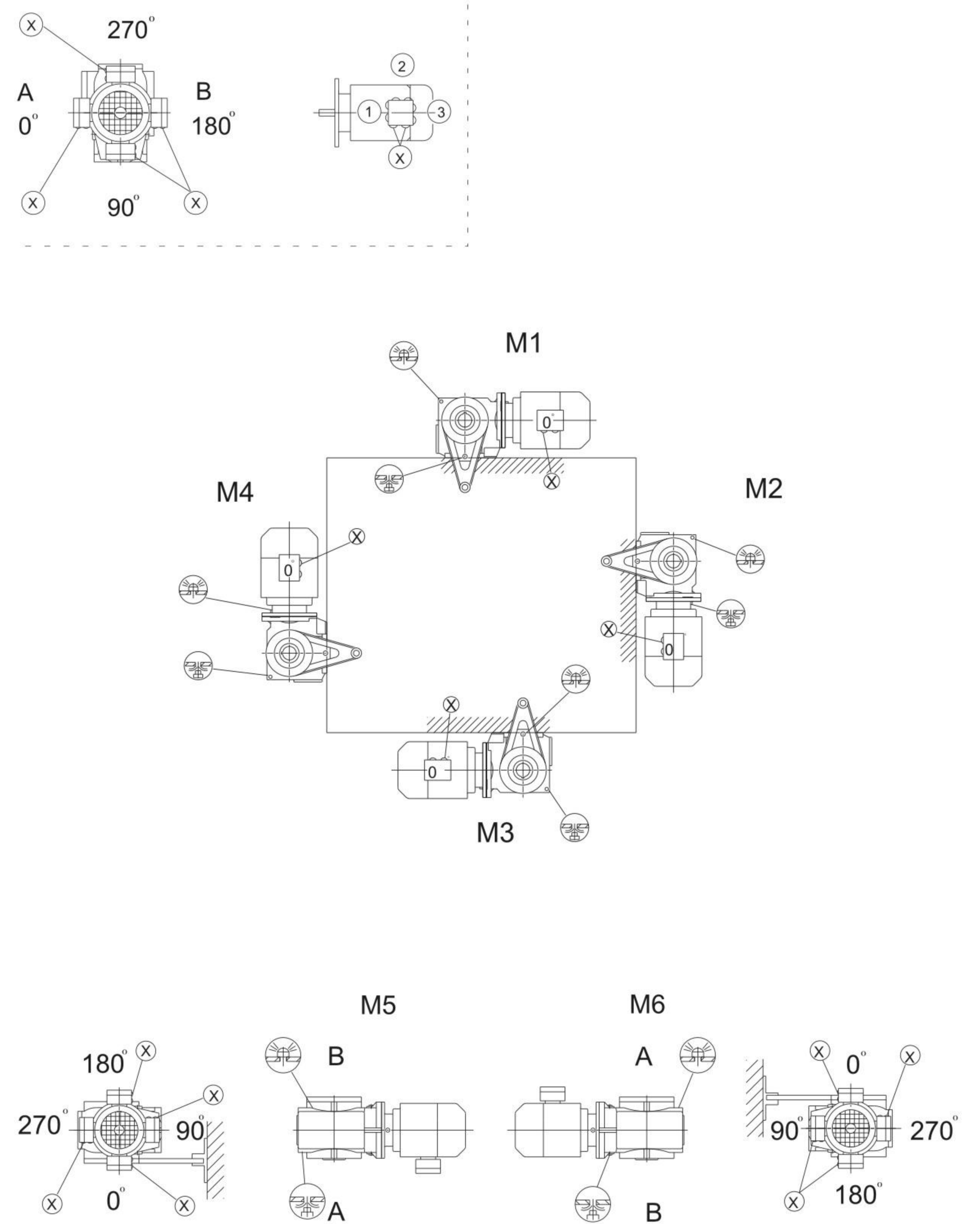




## BSF/SAF/SHF/SAZ/SHZ47..-97..

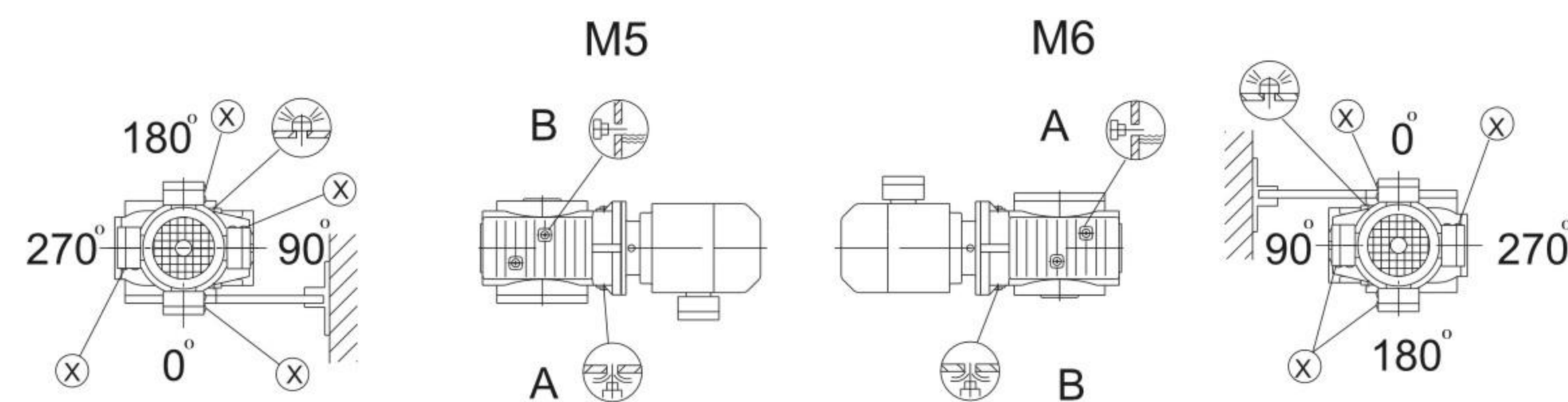
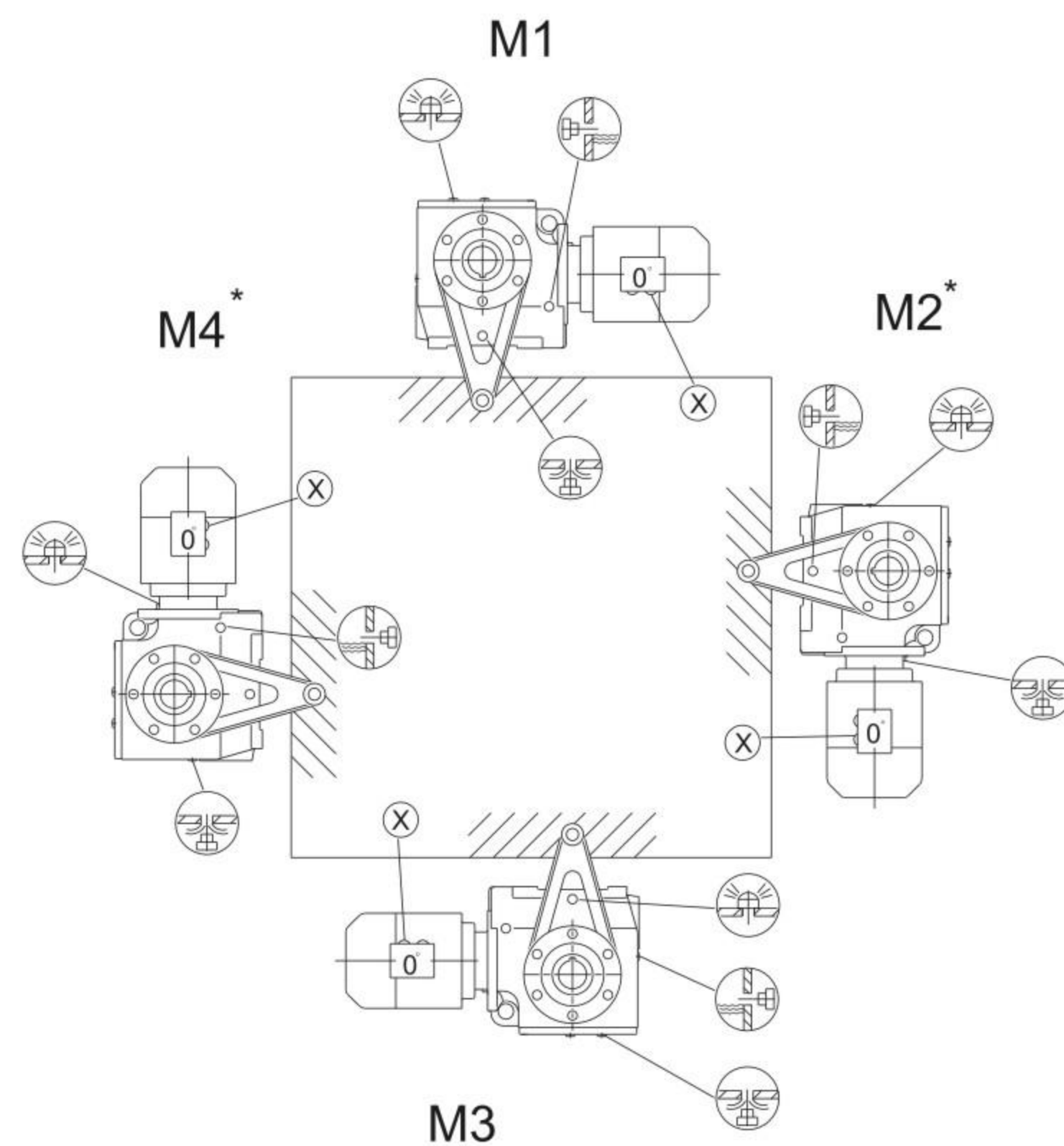
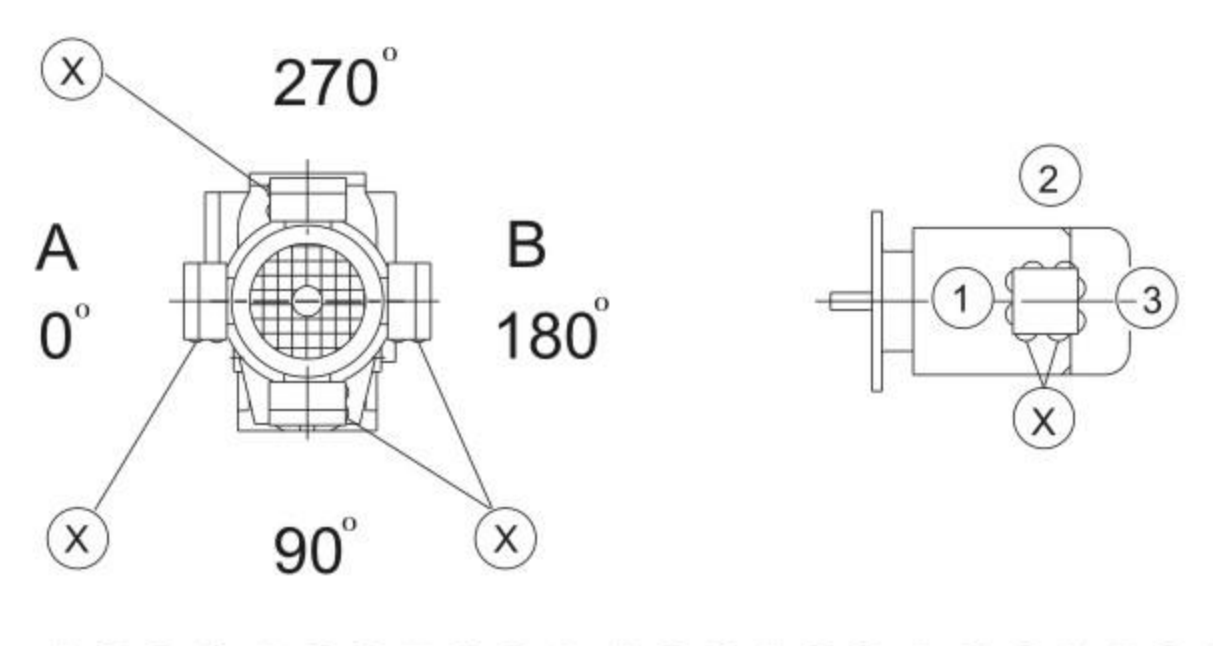


## BSA/SH37





## BSA/SH47..-97..



## 11. 尺寸信息 Information on dimension sheets

范围的分类  
Scope of classification

- =DAIFUSI 作为标准部件提供  
Standard parts supplied by DAIFUSI
- =DAIFUSI 不作为标准部件提供  
Standard parts unsupplied by DAIFUSI

中心高公差  
Shaft heights tolerances

$h \leq 250\text{mm} \rightarrow -0.5\text{mm}$   
 $h > 250 \rightarrow -1\text{mm}$

地脚安装减速机: 当配有电机时, 电机可能已凸出到安装平面以下, 请注意检查。  
Foot-mounted gear units: The motor may project below the mounting surface when fitted, please check.

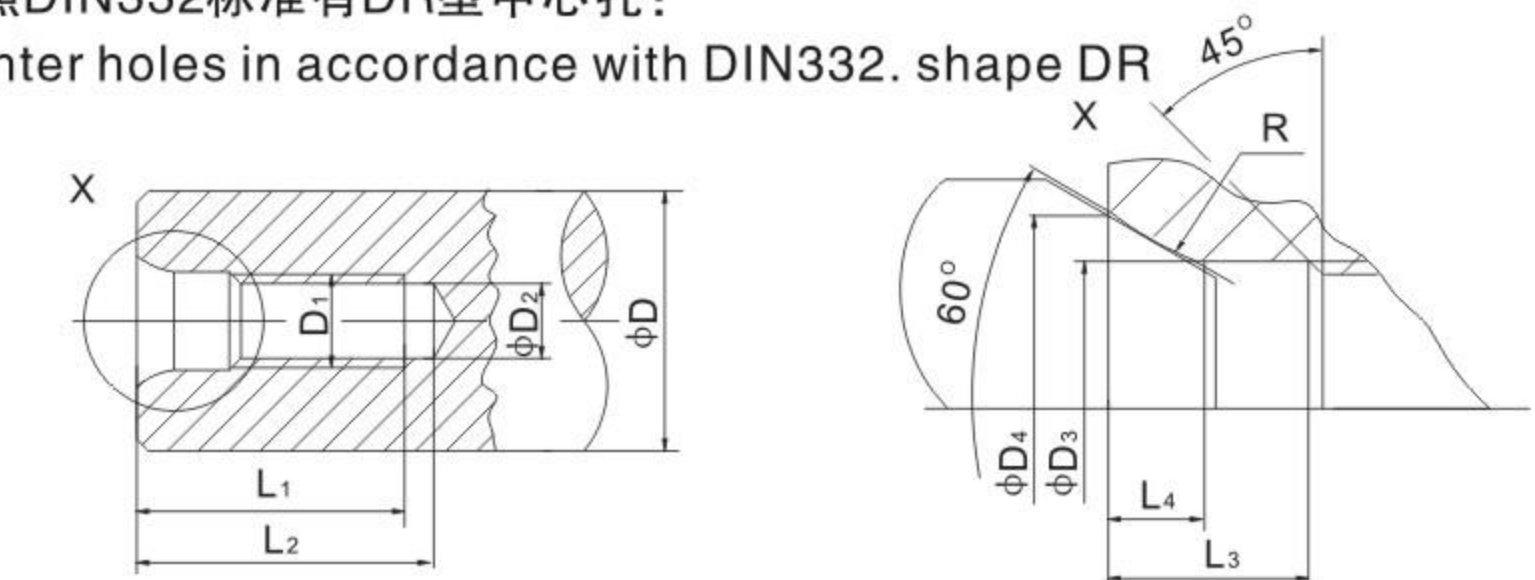
轴公差  
Shaft tolerance

直径公差 Diameter tolerance

$\phi \leq 50\text{mm} \rightarrow \text{ISO}k6$   
 $\phi > 250 \rightarrow \text{ISO}m6$

按照DIN332标准有DR型中心孔:

Center holes in accordance with DIN332. shape DR



输出轴直径 $\phi D$ Diameter of Output shaft	D <sub>1</sub>	D <sub>2</sub>	D <sub>3</sub>	D <sub>4</sub>	R	L <sub>1+2</sub>	L <sub>2 min</sub>	L <sub>1</sub>	L <sub>4 ≈</sub>
$\phi D=7-10\text{mm}$	M3	2.5	3.2	5.3	4.0	9.0	12.0	2.6	1.8
$\phi D>10-13\text{mm}$	M4	3.3	4.3	6.7	5.0	10.0	14.0	3.2	2.1
$\phi D>13-16\text{mm}$	M5	4.2	5.3	8.1	6.3	12.5	17.0	4.0	2.4
$\phi D>16-21\text{mm}$	M6	5.0	6.4	9.6	8.0	16.0	21.0	5.0	2.8
$\phi D>21-24\text{mm}$	M8	6.8	8.4	12.2	10.0	19.0	25.0	6.0	3.3
$\phi D>24-30\text{mm}$	M10	8.5	10.5	14.9	16.0	22.0	30.0	7.5	3.8
$\phi D>30-38\text{mm}$	M12	10.2	13.0	18.1	20.0	28.0	37.0	9.5	4.4
$\phi D>38-50\text{mm}$	M16	14.0	17.0	23.0	25.0	36.0	45.0	12.0	5.2
$\phi D>50-85\text{mm}$	M20	17.5	21.0	28.4	31.5	42.0	53.0	15.0	6.4
$\phi D>85-130\text{mm}$	M24	21.0	25.0	34.2	40.0	50.0	63.0	18.0	8.0
$\phi D>130\text{mm}$	M30	26.5	31.0	42.6	50.0	63.0	85.0	20.0	10.0

空心轴  
Hollow shaft

键: 根据DIN6885确定 (圆头平键)  
keys: In accordance with DIN6885 (domed type)

直径公差  
Diameter tolerance

$\phi \rightarrow \text{ISO}H7$  塞规测量  
ISOH7 measured with plug gauge

花键轴

Dm = 测量棒直径 Measuring roller diameter  
Me = 检测尺寸 Inspection size



**法兰**  
Flange

止口公差 Centering shoulder tolerance

- $\phi \leq 230\text{mm}$ (flange size A 120–A300) →ISOj6
- $\phi > 230\text{mm}$ (flange size A 350–A660) →ISOh6

对于每个规格的斜齿轮减速机、交流(制动)电机和防爆(制动)电机最多可提供三种不同尺寸的法兰，每种法兰的尺寸见相关尺寸表。

Up to three different flange dimensions are available for each size of helical gear units AC (brake) motor and explosion-proof AC (brake) motor. The possible flanges per size are indicted in the relevant dimension sheets.

**起吊螺栓及吊耳**

lifting eyebolts, suspension eye lugs

BR17和BR27减速机,电机机座号小于100的减速电机没有配备专门的运输吊装工具、其它的减速机和电机配有铸造的吊装孔,用螺栓固定在机体上的吊耳或吊环。

BR17...BR27 helical gear units, motors up to DV100 and Spiroplan geared motoes are delivered without special reansport fixtures. Otherwise, the gear units and motors are equipped with cast-on suspension eye lugs, screw-on suspension eye lugs or sceew-on lifting eyebolts.

减速机/电机型号规格 Gear unit/motor type	吊环/吊耳 Screw-on lifting eyebolts /suspension eye lugs	铸造吊装孔 Cast-on suspension eye lugs
BR/RF37-57,BRX/RXF57-67	●	—
≥ BR67	●	—
BF37-157	—	●
BK37-157	—	●
BK167-187	●	—
BS37-47	●	—
BS57-97	—	●
≥ BDV112	●	—

**通气阀**

Breather valves

减速机尺寸图总是显示为螺塞，相应的螺塞在出厂前按照其定货要求的安装位置更换为通气阀。这意味着减速机的外形尺寸图稍有不同。

The gear unit dimension drawings are always shown with screw plugs. The corresponding screw plug is replaced by an breather valve at the factory depending on with mounti-ngposition M1–M6 is ordered. This means the contour dimensions may be slightly different.

**锁紧盘连接**

Shrink disk connevtion

对于锁紧盘连接的空心轴减速机:若需要可向DAIFUSI索要关于锁紧盘的详细数据表。

Hollow shaft gear unit with shrink disk connection :If required, please request a detailed data sheet on shrink disks form DAIFUSI, data sheet no.33 753..95.

**花键空心轴**

Splined hollow shaft

BFV..和BKV..减速机从37到107可提供按DIN5480制作的花键空心轴。

Hollow shaft gear units BFV.. in sizes 37–107 and BKV.. in sizes 37–107 are supplied with a splined hollow shaft to ISO4762.

**BFA/BFH/BFV的橡胶缓冲垫**

Rubber buffer for BFA/BFH/BFV

f为在力矩Mamax作用下橡胶缓冲垫被压缩的距离尺寸

f stands for the compressed dimension of Rubber buffer in the Manax torque.

**制动电机**

Brake motors

配制动电机时,G1B的尺寸代替G1;KB代K

In brake motors, dimensions G1B apply instead of G1 and KB instead of K

**电机附件**

Motor accessory

电机的尺寸因不同的电机附件而不同，请参考电机选择的尺寸图。

The motor dimensions may different as a result of motor accessory. Please refer to the dimensions of the moree accseeory.

**特殊应用**

Special versions

接线盒的尺寸，在特殊应用如KS或CSA时与标准形式的尺寸不同。

The dimensions of the terminal box on speial versions such as KS or CSA may different form the standard dimensions.