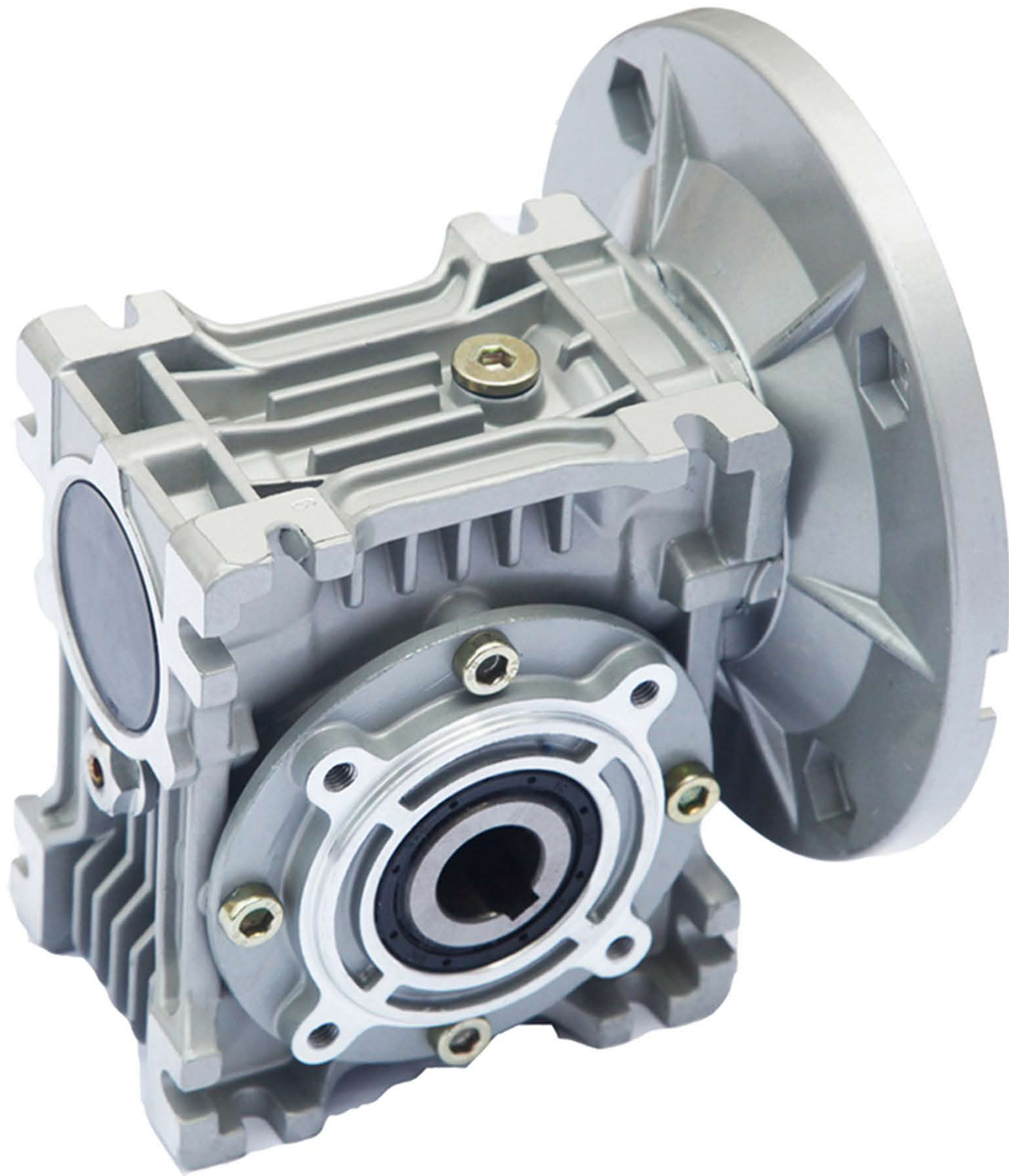


## RV SERIES

worm reducer





## RV Series worm reducer

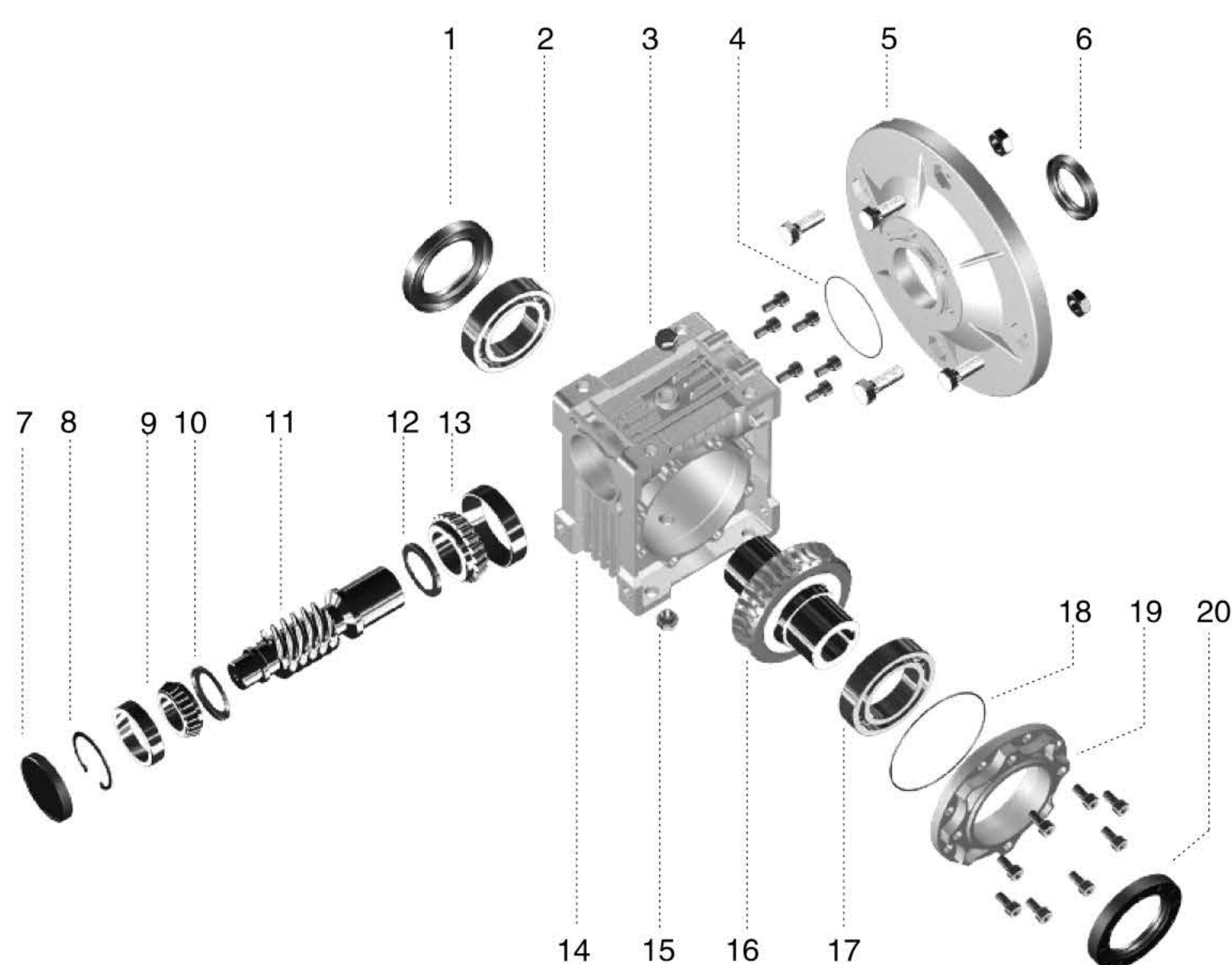
### The advantages of worm reducer

High quality Aluminum alloy ,appearance elegant, efficient radiator, high carrying ability.  
Installed in multi-surfaces,hollow output shaft, various input and output type, conjoin other transmission machinery easily.  
Small size, constriction compact, lightweight, and save place for mounting.  
Run steadily and low noise.  
High reliability and high efficiency.

### The requirement of using and maintain

Do not make pressure on output part and box when mounting it ,  
It must replace lubrication oil after it runs 400 hours when first using it ,after it , replace lubrication oil per running 4000 hours.  
It must keep coaxial degree and vertical degree in just lever when conjoining reducer with other device .  
Must keep plenty of oil lubrication in the reducer and check it often.  
Must add or replace in time when oil reduce or get bad. (lubrication type see attached table )  
It is useful to keep reducer clean so that reducer radiates warmth more efficiently.

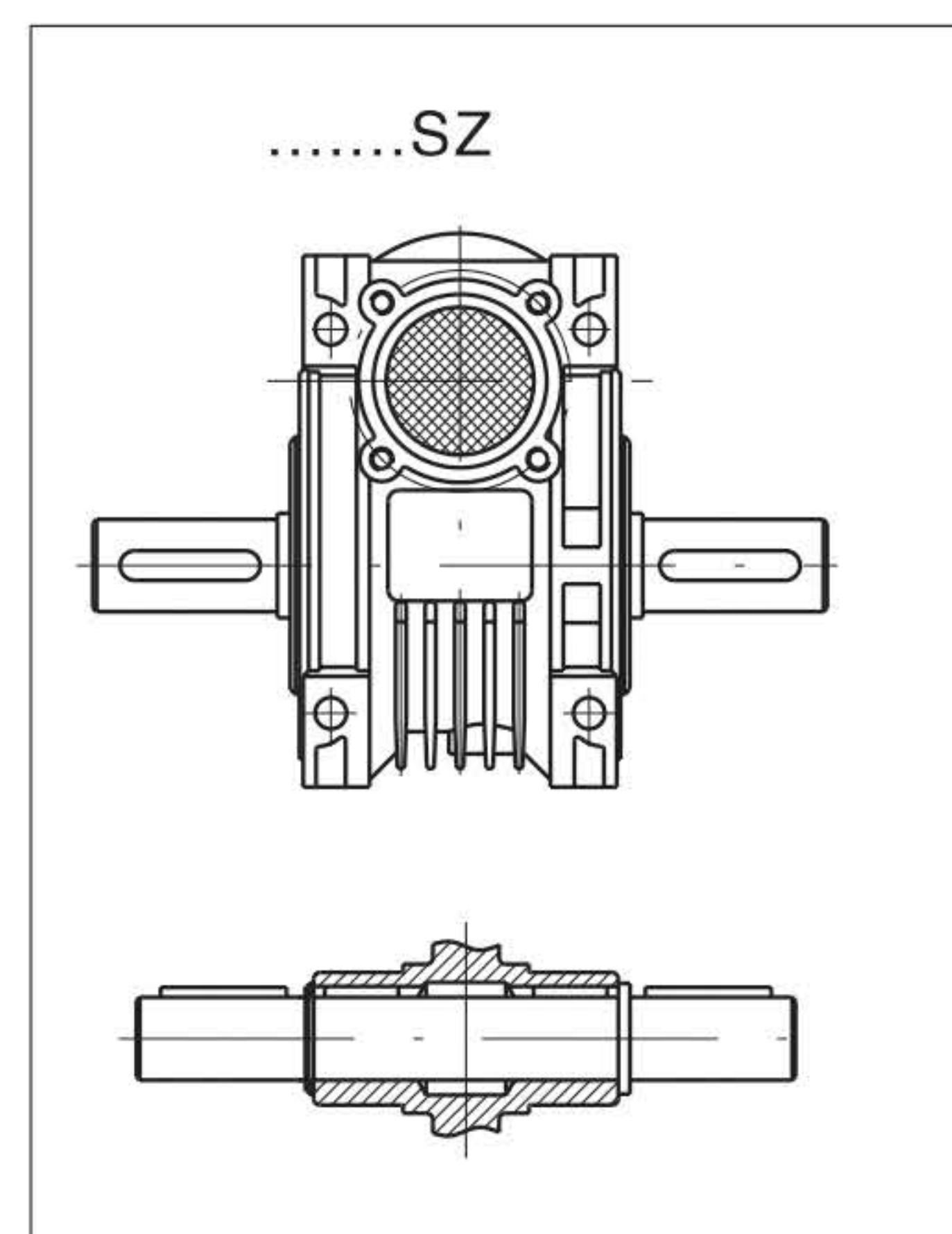
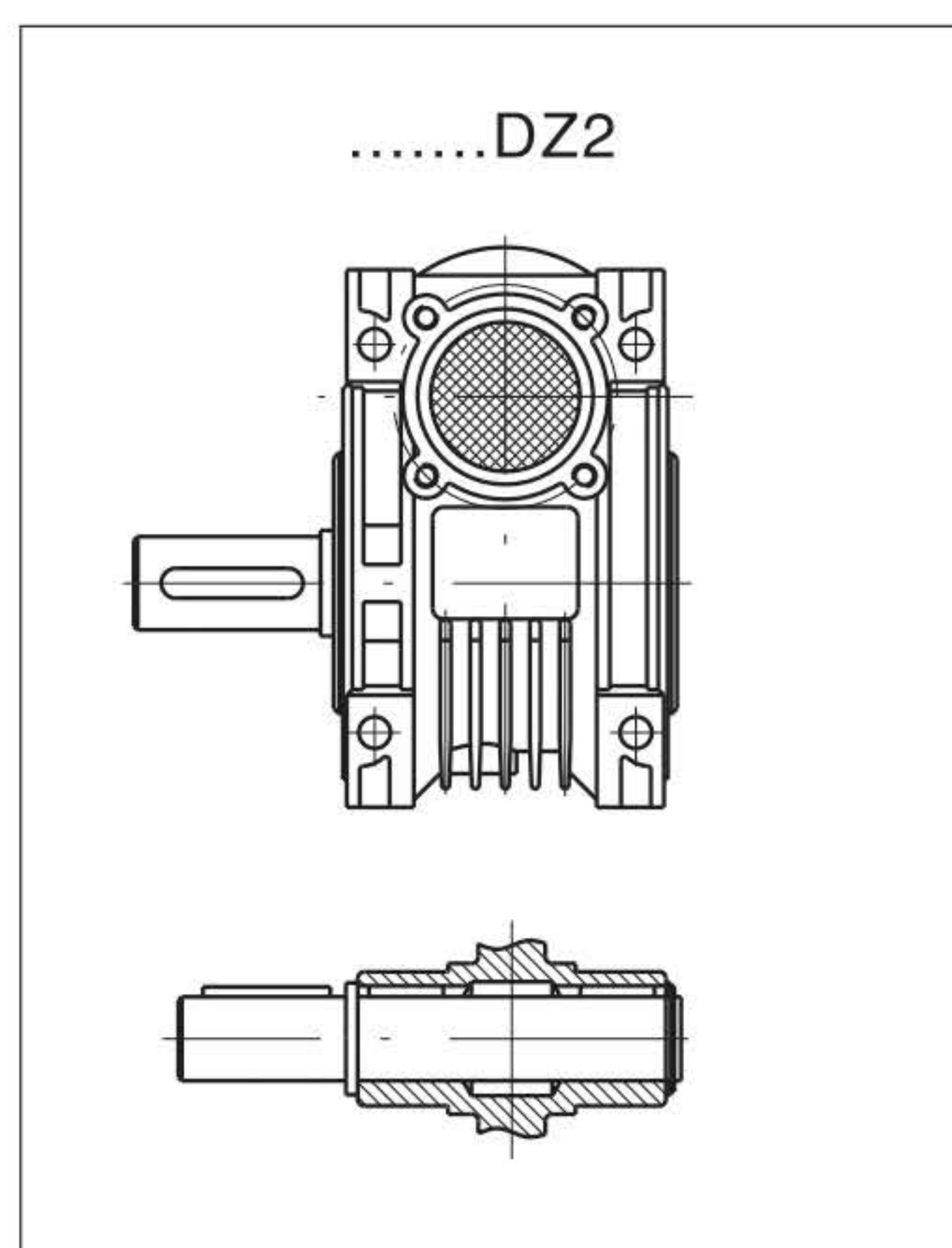
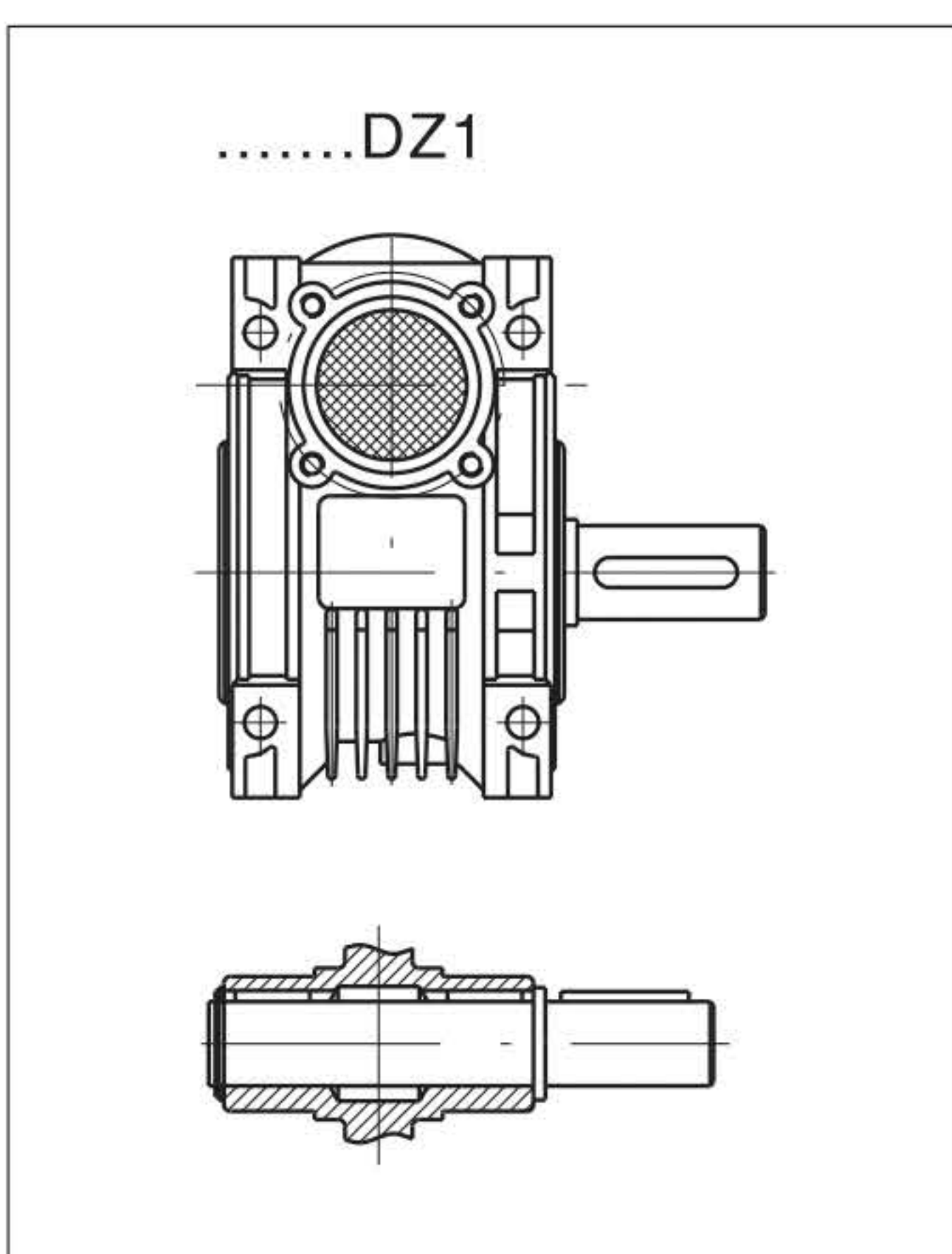
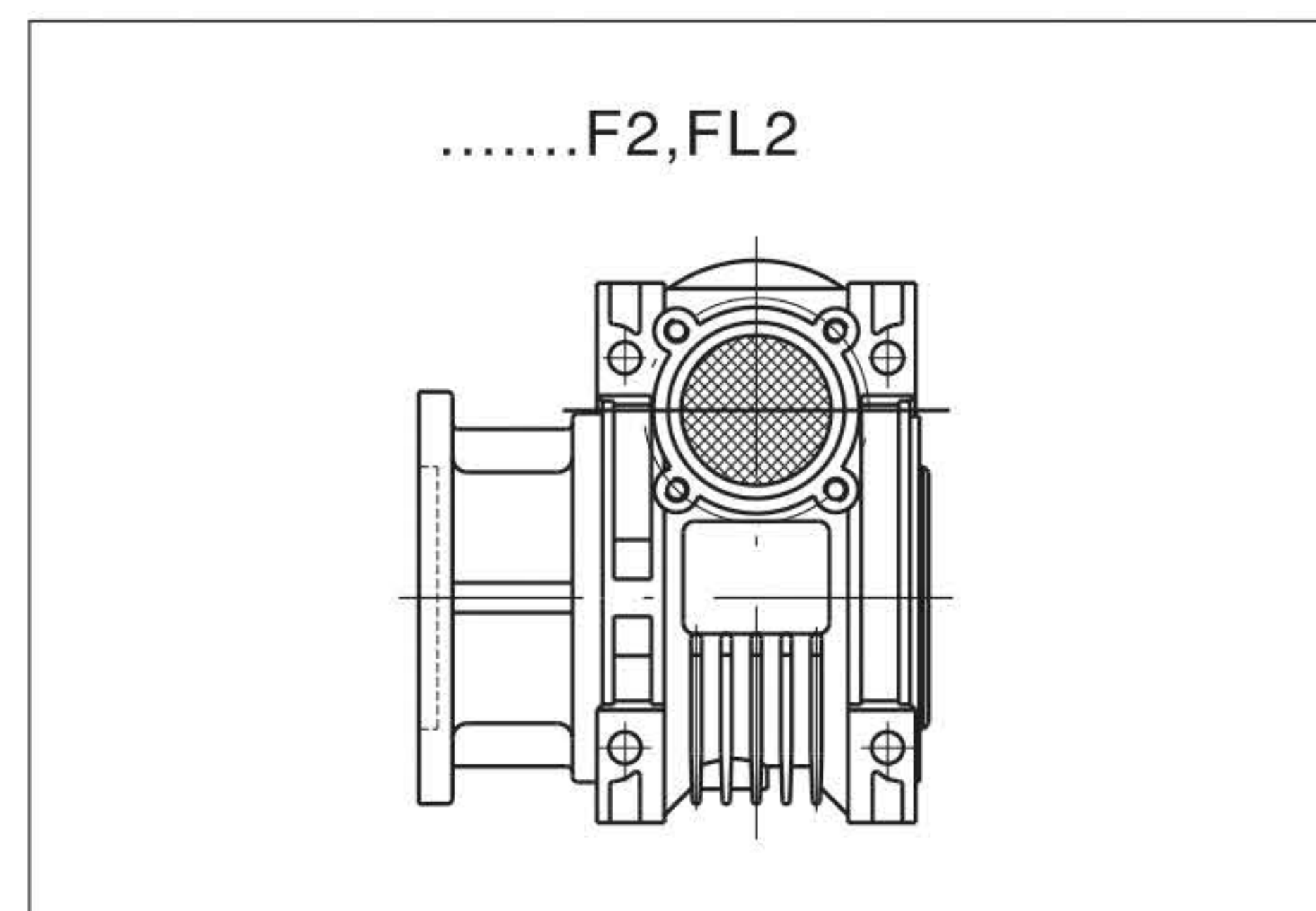
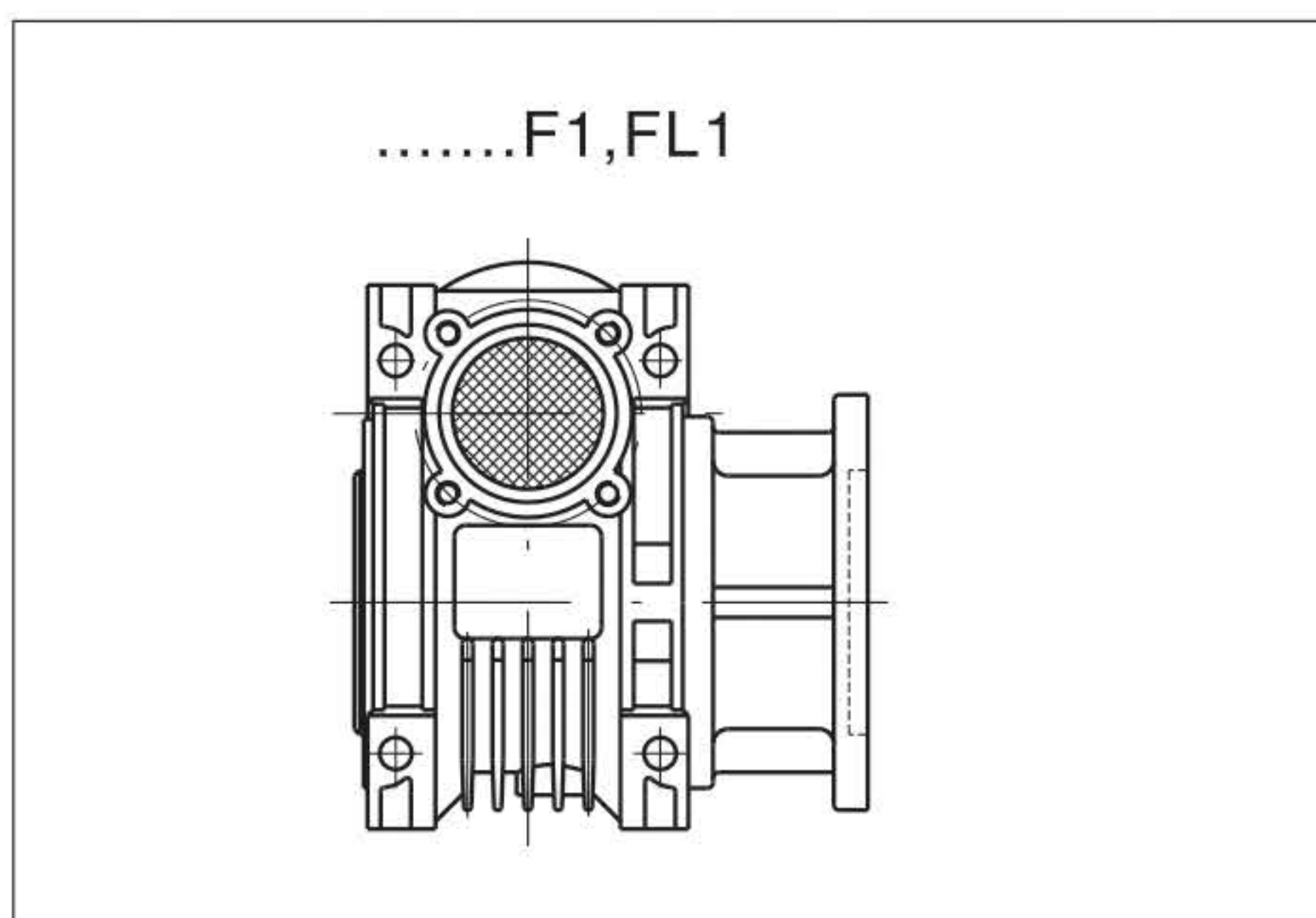
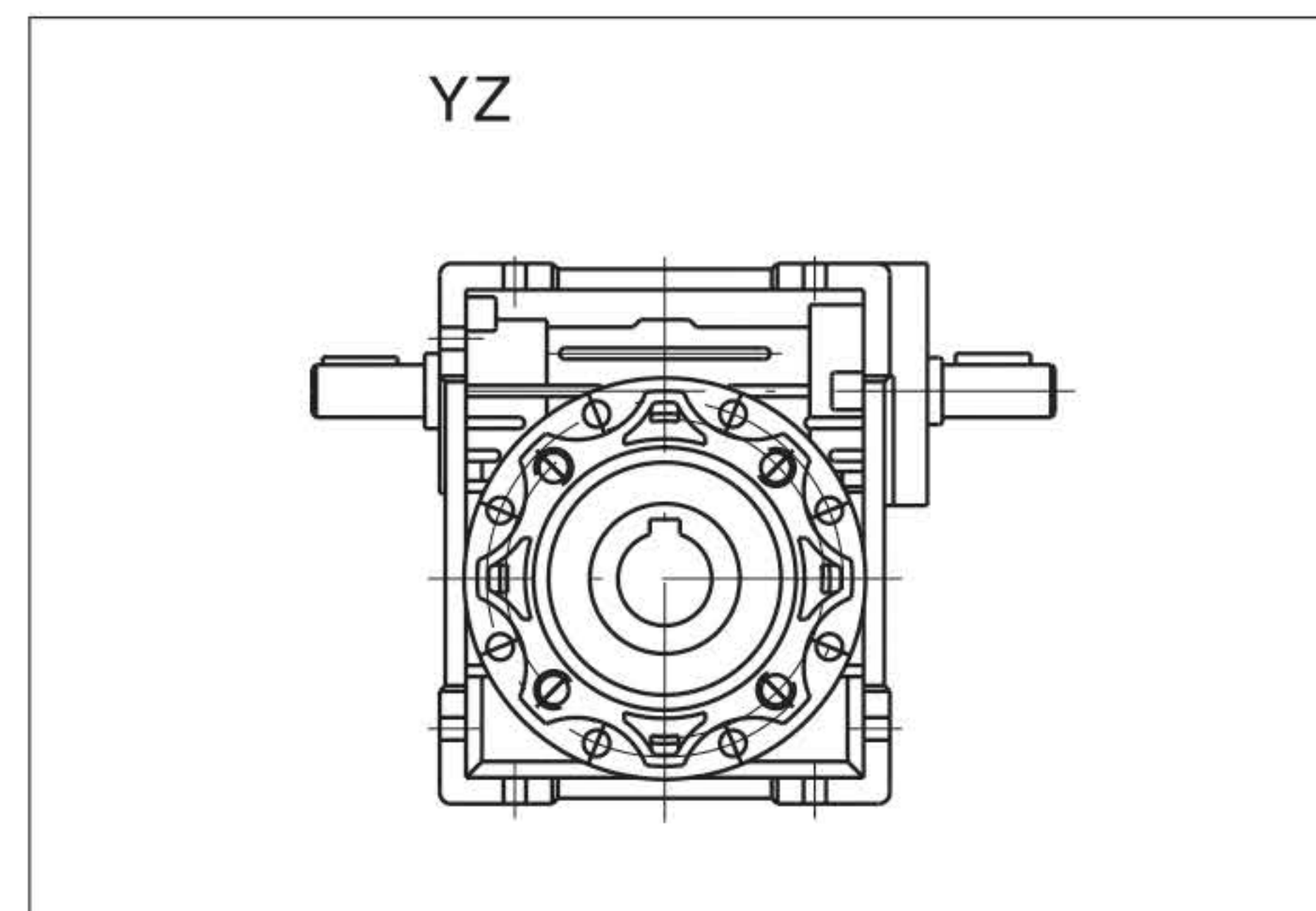
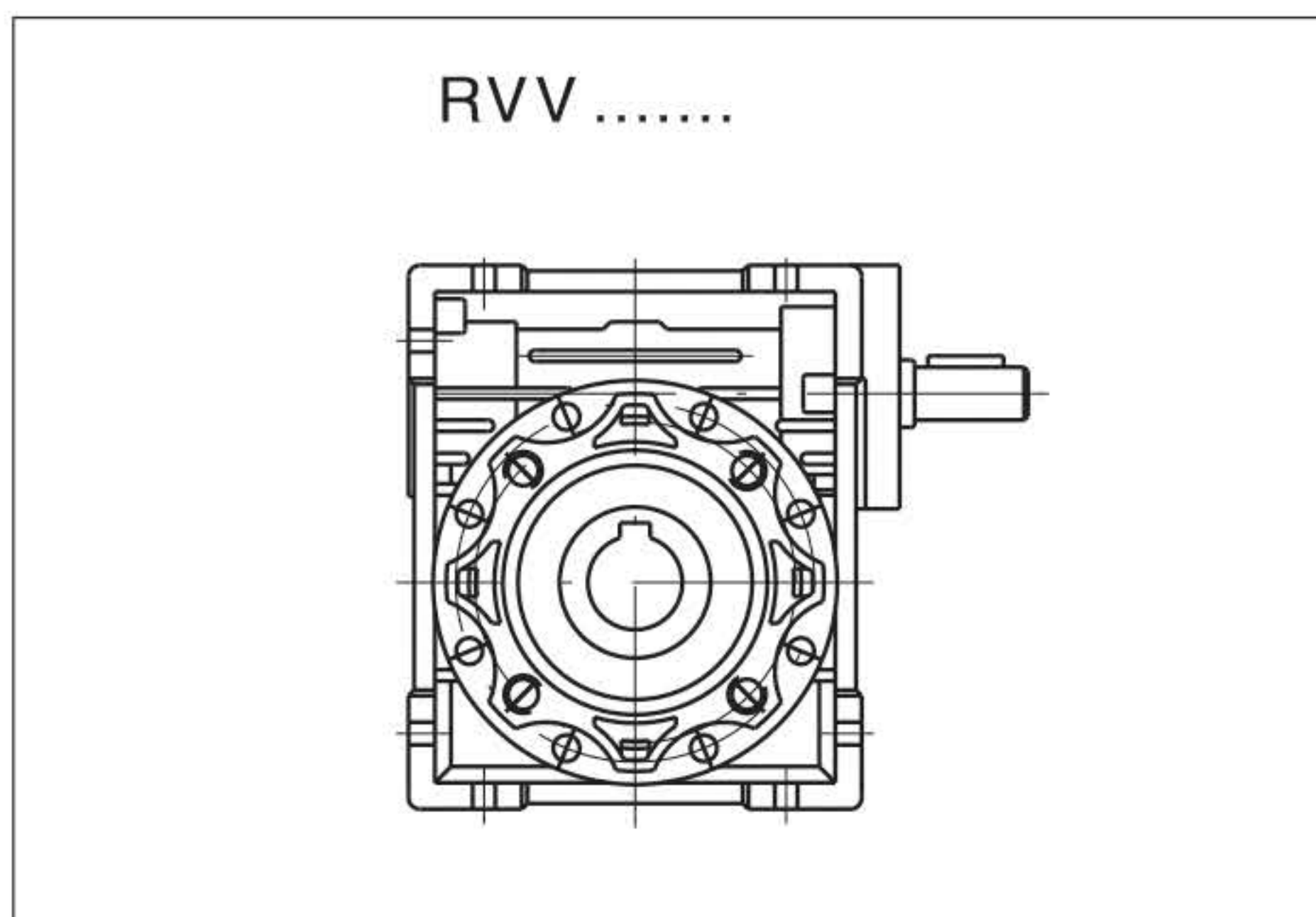
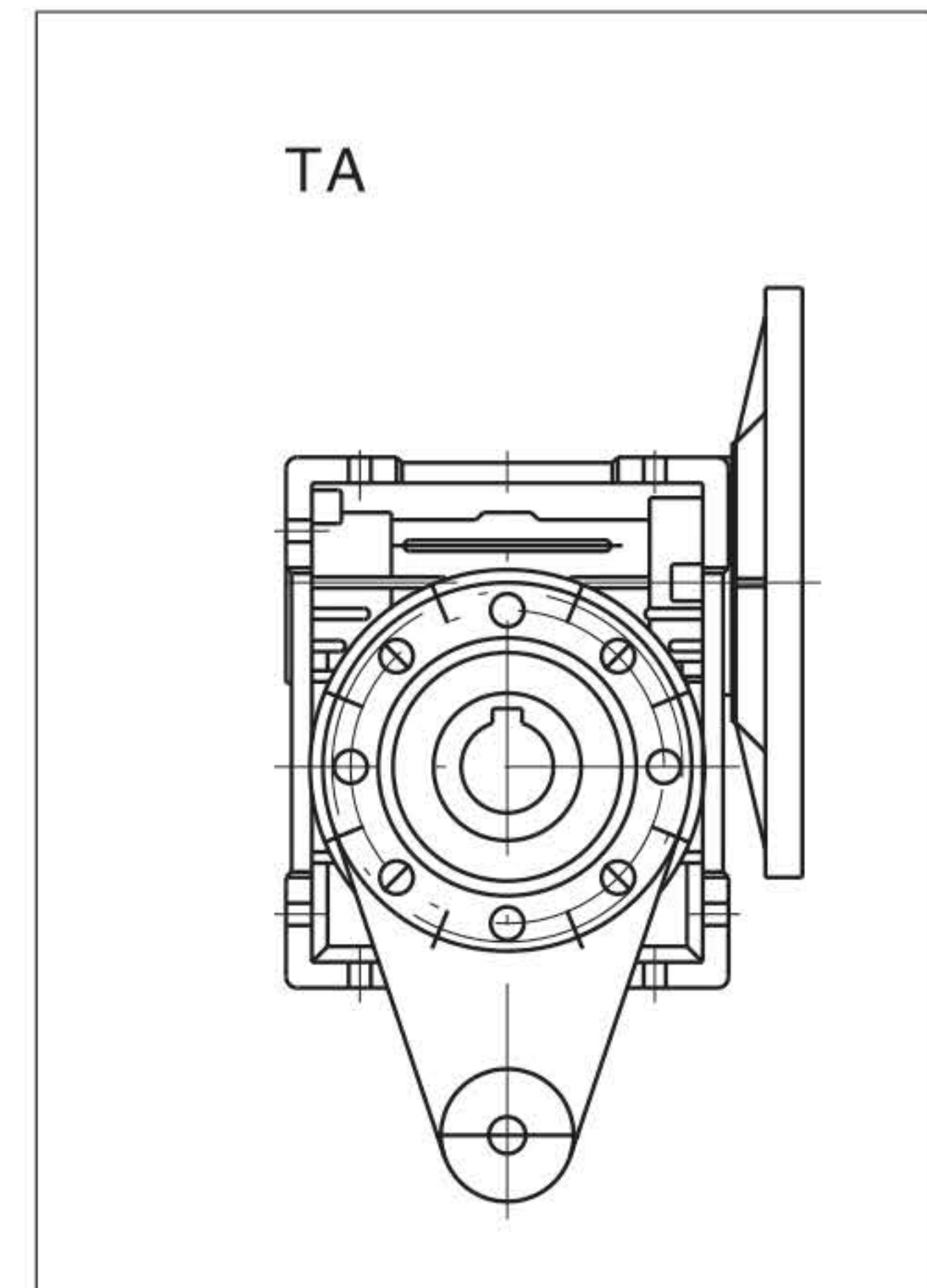
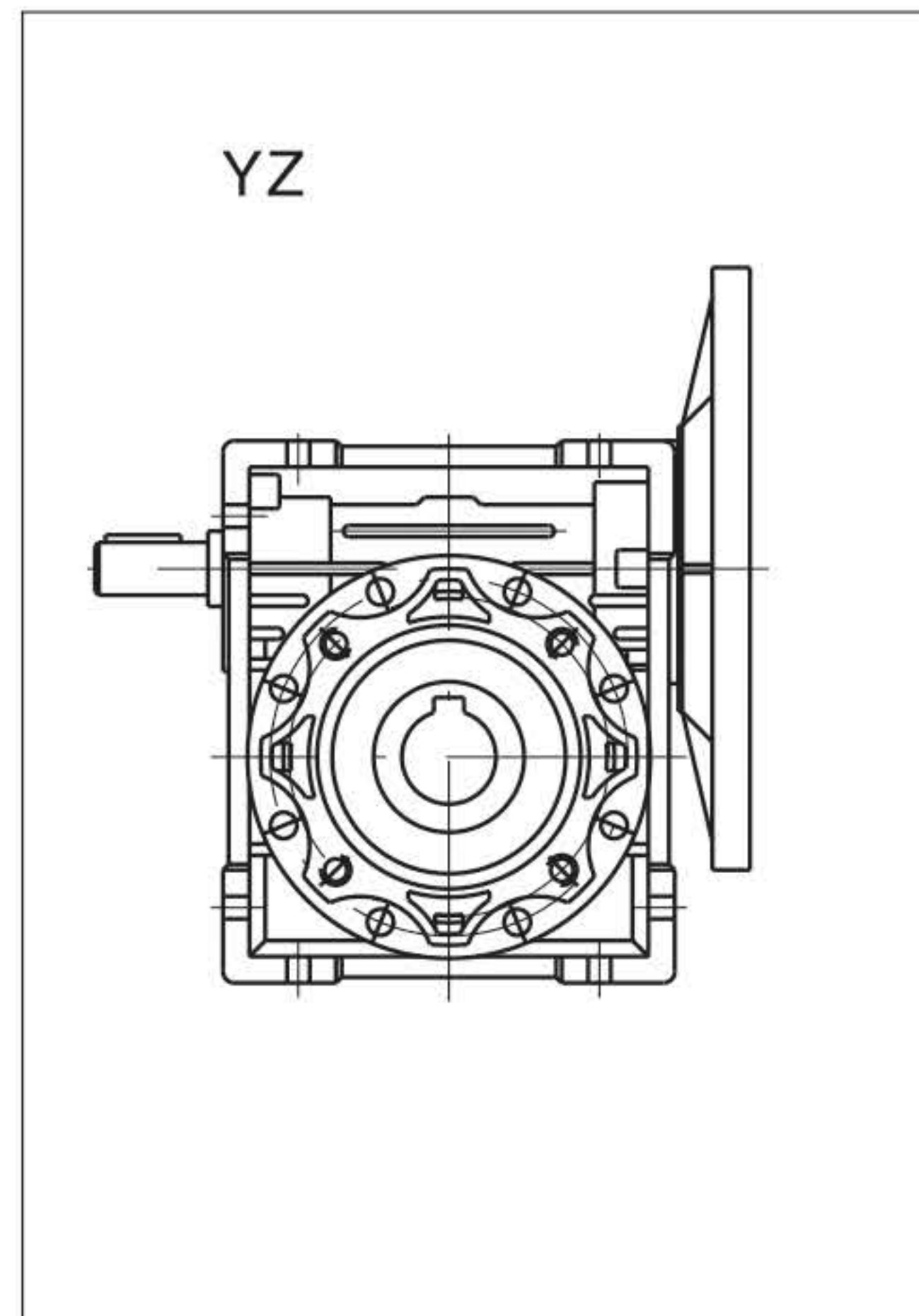
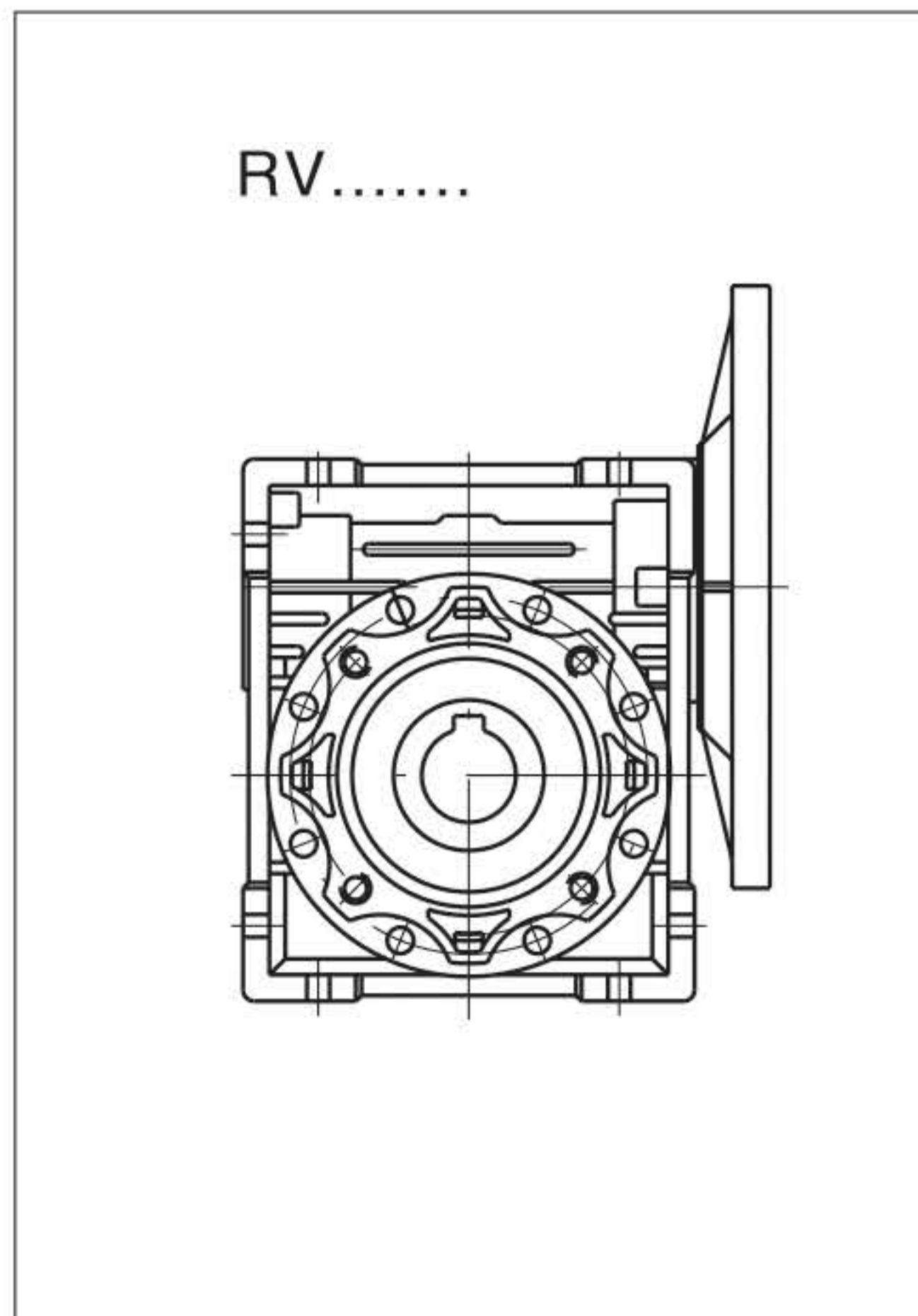
### Basic structure



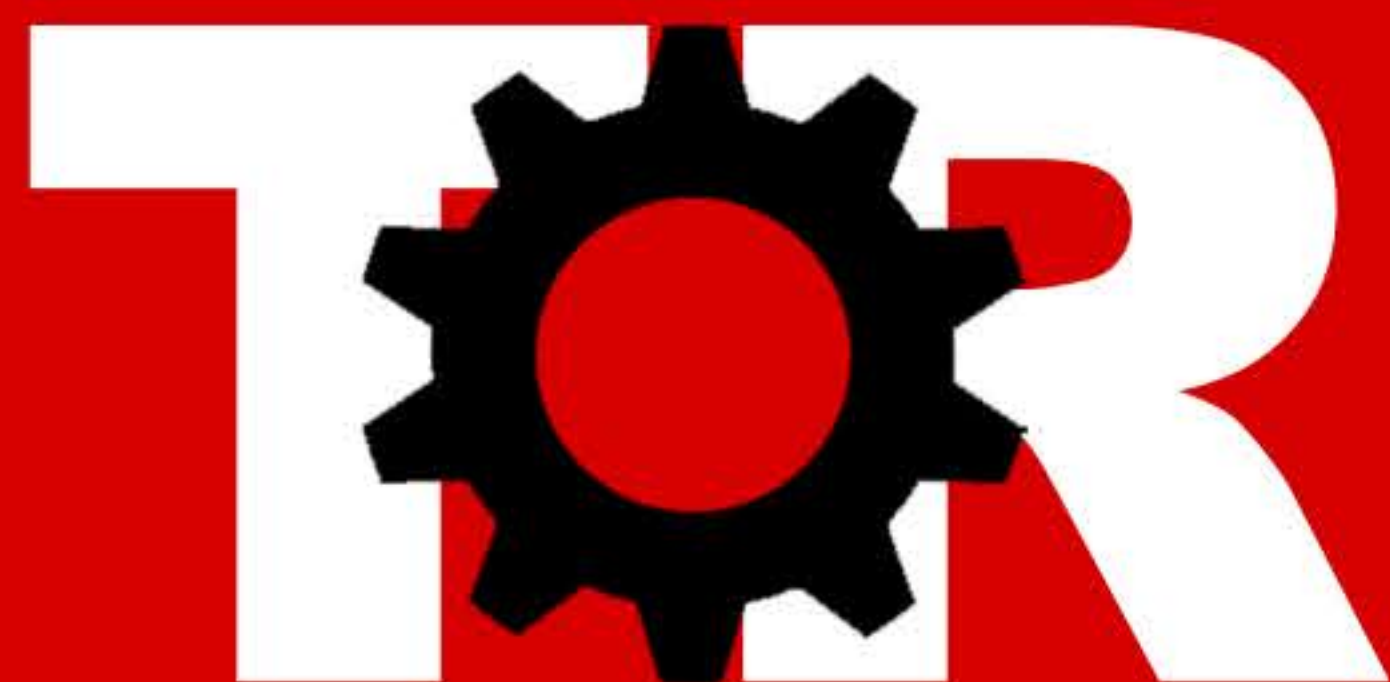
	Name
1	Oil seal
2	Bearing
3	Breather vent
4	O-type seal ring
5	Input flange
6	Oil seal
7	Seal and cover
8	Circlip hole use
9	Bearing
10	Oil baffle disc
11	Worm
12	Oil baffle disc
13	Bearing
14	Tank
15	Plug screw
16	Gear
17	Bearing
18	O-type seal ring
19	Bearing and cover
20	Oil seal



( Chart 1 )





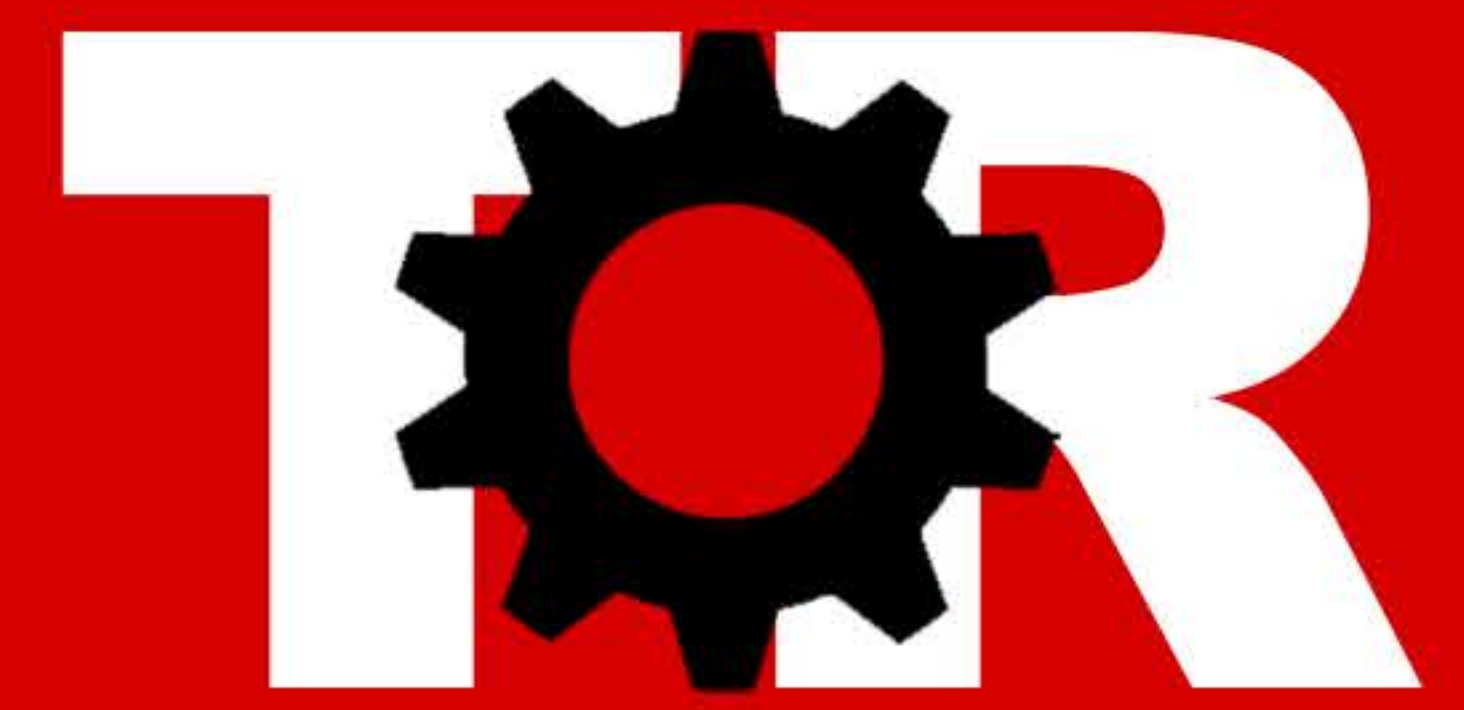


## Parameter Selections

Single step reducer(flange input,input speed is 1400r/min)/(matched with 4 poles motor)

Output speed (r/min)	Output torque (N.m)	(fs)	Ratio (i)	Type	Output speed (r/min)	Output torque (N.m)	(fs)	Ratio (i)	Type
<b>0.06kW</b>					<b>0.12kW</b>				
186.7	2.6	4.2	7.5	RV25	46.7	17.2	2.6	30	RV40
140	3.4	3.5	10		35	21	1.9	40	
93.3	4.9	2.5	15		28	25	1.5	50	
70	6.1	2.0	20		23.3	28	1.3	60	
46.7	8.2	1.6	30		17.5	34	1.0	80	
35	10	1.3	40		14	38	0.8	100	
28	12	0.9	50						
23.3	14	0.7	60						
186.7	2.6	6.9	7.5	RV30	23.3	29	2.3	60	RV50
140	3.4	5.4	10		17.5	35	1.9	80	
93.3	4.7	3.8	15		14	40	1.4	100	
70	6	3.0	20		<b>0.18kW</b>				
56	7	3.0	25		186.7	7.8	2.3	7.5	RV30
46.7	8	2.5	30		140	10	1.8	10	
35	9.7	1.9	40		93.3	14	1.3	15	
28	11	1.5	50		70	18	1.0	20	
23.3	13	1.3	60		56	21	1.0	25	
17.5	14	0.9	80		46.7	24	0.8	30	
<b>0.09kW</b>					70	19	2.0	20	RV40
186.7	3.9	2.8	7.5	RV25	56	23	1.7	25	
140	5.1	2.4	10		46.7	26	1.7	30	
93.3	7.3	1.6	15		35	32	1.3	40	
70	9.2	1.3	20		28	38	1.0	50	
46.7	12	1.1	30		23.3	43	0.8	60	
35	15	0.9	40						
186.7	3.9	4.6	7.5		RV30	35	32	2.3	40
140	5	3.6	10	28		39	1.9	50	
93.3	7.1	2.5	15	23.3		43	1.6	60	
70	9	2.0	20	17.5		52	1.2	80	
56	10	2.0	25	14		60	0.9	100	
46.7	12	1.7	30	<b>0.25kW</b>					
35	14	1.2	40	186.7		11	3.6	7.5	RV40
28	17	1.0	50	140		14	2.8	10	
23.3	19	0.9	60	93.3		21	1.9	15	
				70		27	1.5	20	
28	19	2.0	50	RV40	56	32	1.2	25	
23.3	21	1.7	60		46.7	36	1.3	30	
17.5	26	1.3	80		35	44	0.9	40	
14	29	1.0	100		28	37	0.8	50	
<b>0.12kW</b>									
186.7	5.2	3.4	7.5	RV30	70	26	2.7	20	RV50
140	6.7	2.7	10		56	32	2.2	25	
93.3	9.5	1.9	15		46.7	37	2.3	30	
70	12	1.5	20		35	46	1.7	40	
56	14	1.5	25		28	54	1.4	50	
46.7	16	1.3	30		23.3	60	1.1	60	
35	19	0.9	40		17.5	72	0.9	80	
28	23	0.8	50						

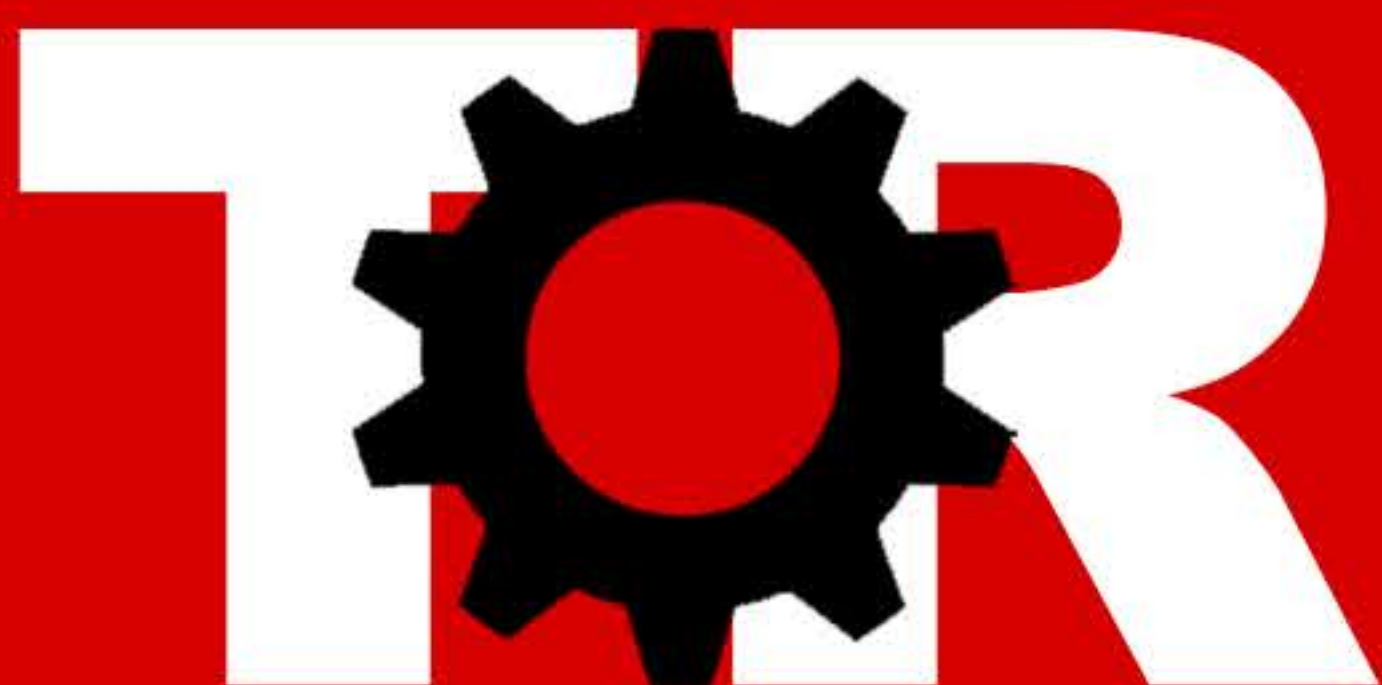




Output speed (r/min)	Output torque (N.m)	(fs)	Ratio (i)	Type
0.25kW				
28	56	2.4	50	RV63
23.3	63	2.0	60	
17.5	78	1.6	80	
14	87	1.4	100	
0.37kW				
186.7	16	2.4	7.5	RV40
140	21	1.9	10	
93.3	31	1.3	15	
70	39	1.0	20	
56	47	0.8	25	
46.7	53	0.8	30	
140	21	3.3	10	RV50
93.3	31	2.4	15	
70	40	1.8	20	
56	48	1.5	25	
46.7	55	1.5	30	
35	68	1.1	40	
28	80	0.9	50	
23.3	89	0.8	60	
35	70	2.1	40	RV63
28	83	1.6	50	
23.3	94	1.4	60	
17.5	115	1.1	80	
14	129	0.9	100	
0.55kW				
186.7	25	2.9	7.5	RV50
140	32	2.2	10	
93.3	46	1.6	15	
70	59	1.2	20	
56	71	1.0	25	
46.7	81	1.0	30	
35	80	0.9	40	
70	60	2.2	20	RV63
56	73	1.8	25	
46.7	83	1.9	30	
35	105	1.4	40	
28	124	1.1	50	
23.3	140	0.9	60	
35	108	2.0	40	RV75
28	129	1.6	50	
23.3	146	1.4	60	
17.5	180	1.1	80	
14	206	0.9	100	
17.5	189	1.5	80	RV90
14	221	1.2	100	
186.7	34	2.1	7.5	
140	44	1.6	10	

Output speed (r/min)	Output torque (N.m)	(fs)	Ratio (i)	Type
0.75kW				
93.3	63	1.2	15	RV50
70	81	0.9	20	
93.3	63	2.2	15	RV63
70	83	1.6	20	
56	100	1.3	25	
46.7	114	1.4	30	
35	143	1.0	40	
56	102	2.0	25	RV75
46.7	117	2.0	30	
35	147	1.5	40	
28	177	1.2	50	
23.3	200	1.0	60	
28	184	1.8	50	RV90
23.3	212	1.5	60	
17.5	258	1.1	80	
14	302	0.9	100	
1.1kW				
186.7	49	2.6	7.5	RV63
140	65	2.0	10	
93.3	93	1.5	15	
70	122	1.1	20	
56	146	0.9	25	
46.7	167	1.0	30	
35	165	0.9	40	
93.3	95	2.1	15	RV75
70	123	1.7	20	
56	150	1.3	25	
46.7	171	1.3	30	
35	216	1.0	40	
28	264	0.9	50	
23.3	223	0.8	60	
35	225	1.6	40	RV90
28	270	1.3	50	
23.3	311	1.0	60	
17.5	328	0.9	80	
28	281	2.3	50	RV110
23.3	324	1.9	60	
17.5	402	1.3	80	
14	473	1.0	100	
1.5kW				
186.7	67	1.9	7.5	RV63
140	89	1.5	10	
93.3	127	1.1	15	
70	166	0.8	20	

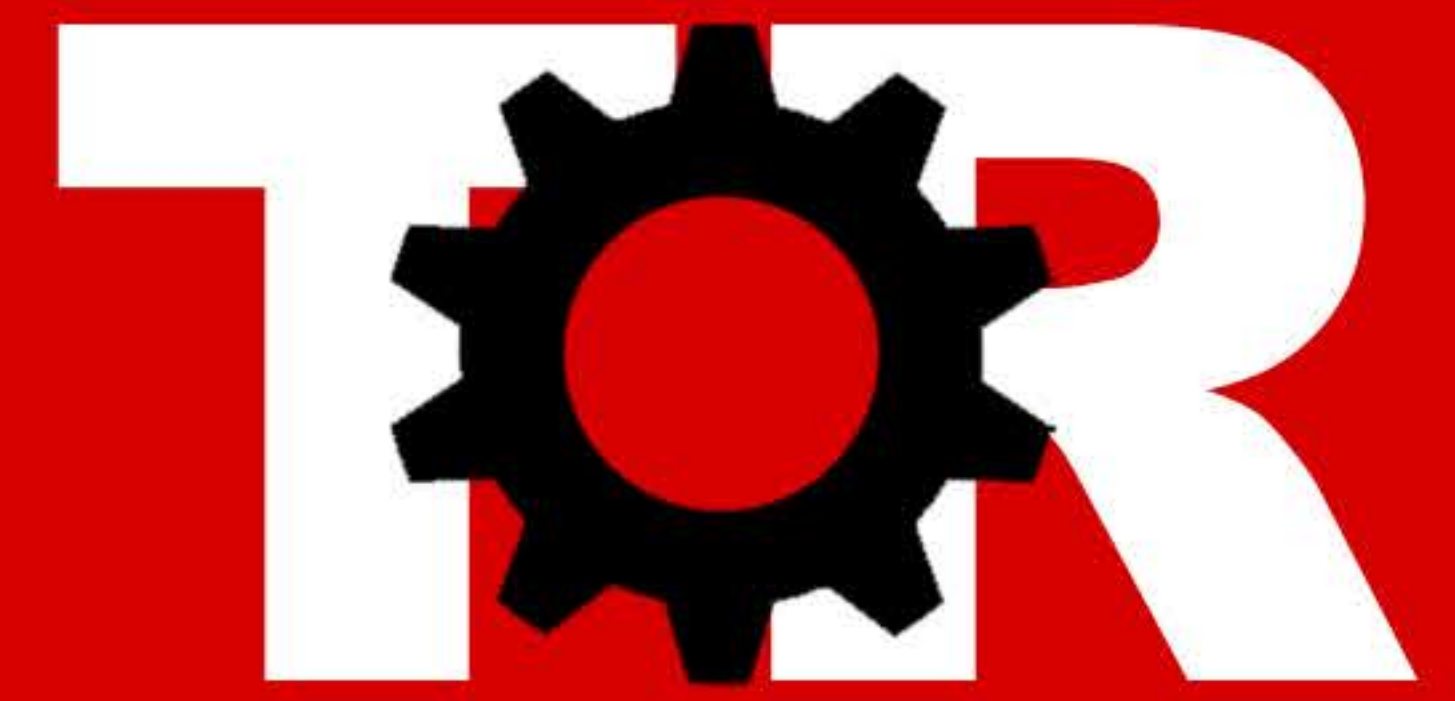




Output speed (r/min)	Output torque (N.m)	(fs)	Ratio (i)	Type
1.5kW				
140	90	2.2	10	RV75
93.3	130	1.5	15	
70	168	1.3	20	
56	205	1.0	25	
46.7	233	1.0	30	
70	171	2.1	20	RV90
56	210	1.6	25	
46.7	239	1.7	30	
35	307	1.2	40	
28	368	0.9	50	
23.3	424	0.8	60	RV110
35	319	2.2	40	
28	384	1.7	50	
23.3	442	1.4	60	
17.5	548	0.9	80	
2.2kW				
186.7	100	1.8	7.5	RV75
140	132	1.5	10	
93.3	191	1.0	15	
70	240	0.9	20	
46.7	269	0.8	30	
186.7	101	2.9	7.5	RV90
140	134	2.3	10	
93.3	194	1.9	15	
70	252	1.4	20	
56	308	1.1	25	
46.7	351	1.2	30	RV110
35	433	1.0	40	
28	393	0.9	50	
70	255	2.5	20	
56	315	2.2	25	
46.7	356	2.0	30	RV130
35	468	1.5	40	
28	563	1.2	50	
23.3	648	1.0	60	
35	468	2.2	40	
28	563	1.7	50	RV150
23.3	648	1.4	60	
17.5	816	1.0	80	
14	869	0.8	100	
28	570	2.5	50	
23.3	657	1.9	60	RV150
17.5	816	1.4	80	
14	960	1.0	100	

Output speed (r/min)	Output torque (N.m)	(fs)	Ratio (i)	Type
3kW				
186.7	136	1.4	7.5	RV75
140	180	1.1	10	
93.3	261	0.8	15	
186.7	138	2.1	7.5	RV90
140	182	1.7	10	
93.3	264	1.4	15	
70	344	1.0	20	
56	420	0.8	25	
46.7	479	0.9	30	
93.3	264	2.5	15	
70	348	1.9	20	RV110
56	430	1.6	25	
46.7	485	1.5	30	
35	638	1.1	40	
28	767	0.9	50	
56	429	2.2	25	
46.7	491	2.1	30	
35	638	1.6	40	
28	767	1.3	50	
23.3	884	1.0	60	
17.5	1113	0.8	80	
28	777	1.8	50	
23.3	896	1.4	60	RV150
17.5	1113	1.0	80	
14	1310	0.8	100	
4kW				
186.7	182	1.0	7.5	RV75
140	240	0.8	10	
186.7	184	1.6	7.5	RV90
140	243	1.3	10	
93.3	352	1.0	15	
70	458	0.8	20	
140	242	2.5	10	RV110
93.3	352	1.9	15	
70	464	1.4	20	
56	573	1.2	25	
46.7	647	1.1	30	
56	573	1.6	25	RV130
46.7	655	1.6	30	
35	851	1.2	40	
28	1023	1.0	50	
23.3	1179	0.8	60	

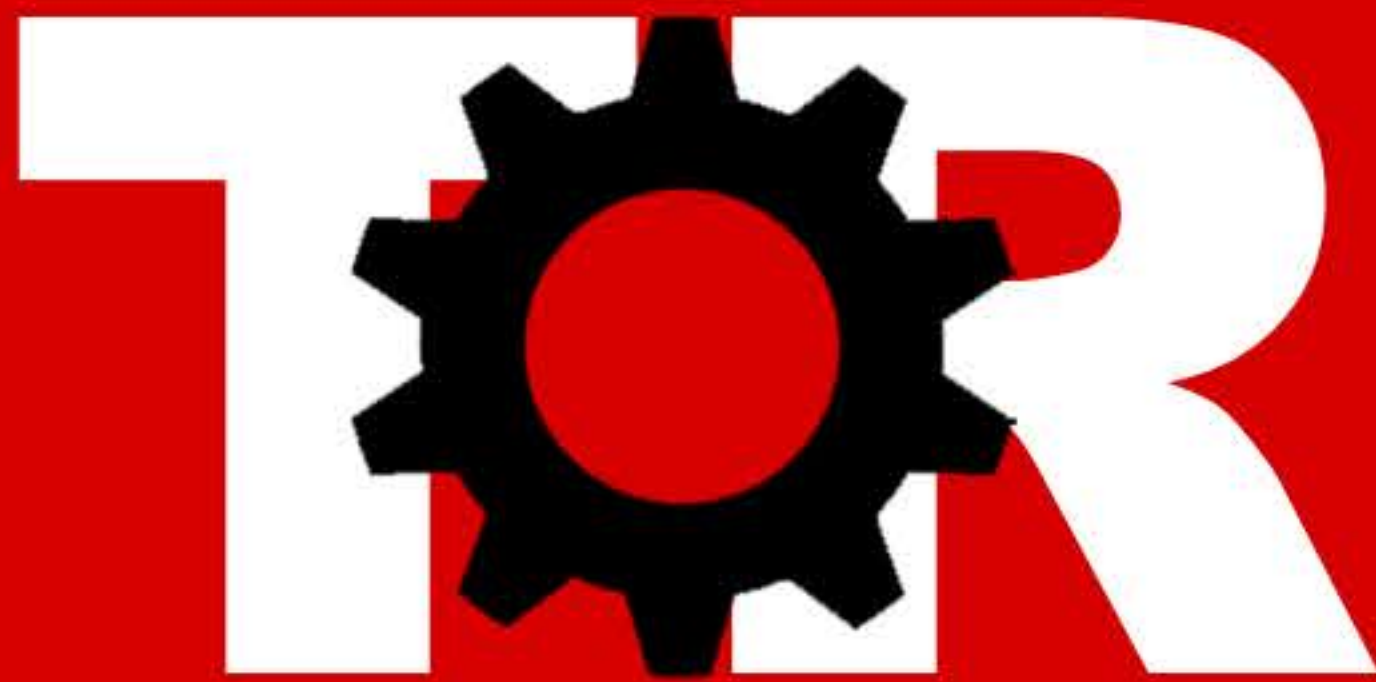




Output speed (r/min)	Output torque (N.m)	(fs)	Ratio (i)	Type
4kW				
28	1036	1.4	50	RV150
23.3	1195	1.1	60	
17.5	1484	0.8	80	
28	1019	2.3	50	RV185
23.3	1195	1.9	60	
17.5	1500	1.4	80	
14	1766	1.0	100	
5.5kW				
186.7	253	2.2	7.5	RV110
140	334	1.8	10	
93.3	484	1.4	15	
70	638	1.0	20	
56	711	0.9	25	
140	333	2.5	10	RV130
93.3	490	1.9	15	
70	645	1.4	20	
56	788	1.2	25	
46.7	900	1.2	30	
35	1171	0.9	40	
28	1103	0.8	50	
70	645	2.0	20	RV150
56	788	1.5	25	
46.7	934	1.3	30	
35	1171	1.3	40	
28	1426	1.0	50	
23.3	1643	0.8	60	
56	777	2.5	25	RV185
46.7	864	2.5	30	
35	1168	2.2	40	
28	1402	1.7	50	
23.3	1643	1.4	60	
17.5	2063	1.0	80	
7.5kW				
186.7	345	1.6	7.5	RV110
140	455	1.3	10	
93.3	660	1.0	15	
186.7	349	2.1	7.5	RV130
140	455	1.8	10	
93.3	668	1.4	15	
70	880	1.0	20	
56	1074	0.9	25	
46.7	1228	0.8	30	
35	1596	0.7	40	

Output speed (r/min)	Output torque (N.m)	(fs)	Ratio (i)	Type
7.5kW				
70	880	1.5	20	RV150
56	1074	1.1	25	
46.7	1274	0.9	30	
35	1596	1.0	40	
56	1060	1.8	25	RV185
46.7	1179	1.9	30	
35	1593	1.6	40	
28	1911	1.2	50	
23.3	2240	1.0	60	
11kW				
186.7	512	2.3	7.5	RV150
140	675	1.8	10	
93.3	990	1.3	15	
70	1291	1.0	20	
56	1576	0.8	25	
93.3	922	1.9	15	RV185
70	1274	1.8	20	
56	1554	1.2	25	
46.7	1729	1.3	30	
35	2336	1.1	40	
28	2803	0.8	50	
15kW				
186.7	698	1.7	7.5	RV150
140	921	1.3	10	
93.3	1351	0.9	15	
70	1760	0.7	20	
140	900	2.0	10	RV185
93.3	1257	1.4	15	
70	1737	1.3	20	
56	2120	0.9	25	
46.7	2357	0.9	30	
18.5KW				
186.7	823	2.1	7.5	RV185
140	1110	1.6	10	
93.3	1550	1.1	15	
70	2143	1.0	20	
22KW				
186.7	979	1.8	7.5	RV185
140	1320	1.3	10	
93.3	1844	0.9	15	
70	2548	0.9	20	



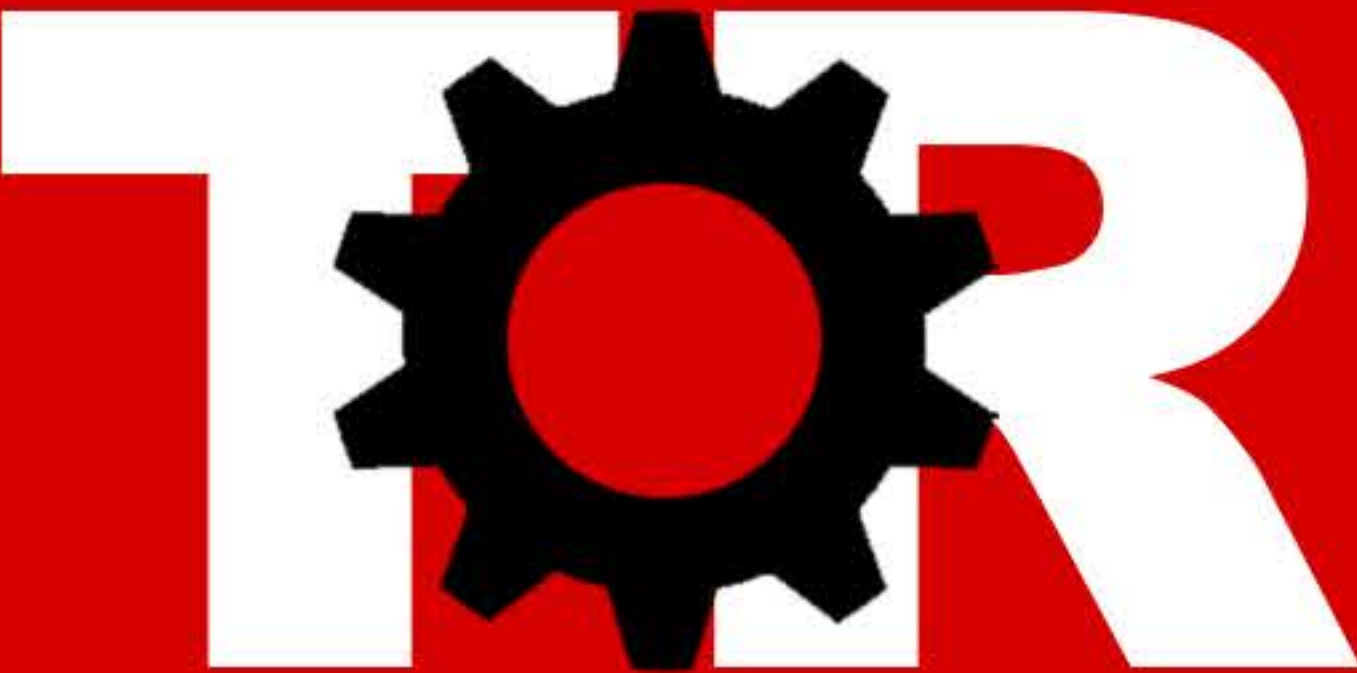


Double step reducer(flange input,input speed is 1400r/min)/(matched with 4 poles moter)

Output speed (r/min)	Output torque (N.m)	(fs)	High speed transmission ratio (i1)	Low speed transmission ratio (i2)	General transmission ratio (i)	Combination model size
0.06kW						
14	25	1.3	10	10	100	25/30
9.3	32	0.9	10	15	150	
7	41	0.7	10	20	200	
5.6	44	0.8	10	25	250	
4.7	59	1.2	10	30	300	25/40
3.5	71	0.9	10	40	400	
2.8	82	0.7	20	25	500	
2.3	101	0.6	20	30	600	
1.9	116	0.5	25	30	750	
1.6	143	0.5	30	30	900	
1.2	171	0.4	30	40	1200	
0.9	197	0.3	50	30	1500	
0.78	217	0.3	60	30	1800	
0.6	268	0.2	60	40	2400	
0.5	324	0.2	60	50	3000	
0.4	294	0.1	50	80	4000	
0.3	356	0.1	50	100	5000	
4.7	57	1.3	10	30	300	30/40
3.5	70	0.9	10	40	400	
2.8	96	0.6	20	25	500	
2.3	104	0.7	20	30	600	
1.9	121	0.6	25	30	750	
1.6	139	0.5	30	30	900	
1.2	166	0.4	30	40	1200	
0.9	196	0.4	50	30	1500	
0.78	218	0.3	60	30	1800	
0.58	261	0.2	60	40	2400	
0.4	300	0.2	80	40	3200	
0.4	279	0.1	50	80	4000	
0.28	338	0.1	50	100	5000	
1.6	141	1.0	30	30	900	30/50
1.2	169	0.7	30	40	1200	
0.93	199	0.7	50	30	1500	
0.78	222	0.7	60	30	1800	
0.6	266	0.5	60	40	2400	
0.5	307	0.4	60	50	3000	
0.35	288	0.3	50	80	4000	
0.29	311	0.3	60	80	4800	
0.9	203	1.1	30	50	1500	30/63
0.78	225	0.9	30	60	1800	
0.58	276	0.8	60	40	2400	
0.47	319	0.7	60	50	3000	
0.35	306	0.6	50	80	4000	
0.28	360	0.4	50	100	5000	
0.6	330	1.1	60	40	2400	40/75
0.47	377	0.8	60	50	3000	

Output speed (r/min)	Output torque (N.m)	(fs)	High speed transmission ratio (i1)	Low speed transmission ratio (i2)	General transmission ratio (i)	Combination model size
0.06kW						
0.35	355	0.7	50	80	4000	40/75
0.28	419	0.5	50	100	5000	
0.5	405	1.4	60	50	3000	40/90
0.35	365	1.3	50	80	4000	
0.28	431	1.0	50	100	5000	
0.09kW						
14	37	0.8	10	10	100	25/30
9.3	49	0.6	10	15	150	
7	62	0.5	10	20	200	
5.6	66	0.5	10	25	250	
4.7	75	0.4	10	30	300	
3.5	107	0.3	10	40	400	
2.8	115	0.2	20	25	500	
2.3	135	0.2	20	30	600	
1.9	151	0.2	25	30	750	
1.6	178	0.2	30	30	900	
1.2	212	0.1	30	40	1200	
0.9	247	0.1	50	30	1500	
0.78	304	0.1	60	30	1800	
0.58	340	0.1	60	40	2400	
0.47	405	0.1	60	50	3000	
4.7	88	0.8	10	30	300	30/40
3.5	107	1.2	10	40	400	30/50
2.8	123	1.0	10	50	500	
2.3	159	0.9	20	30	600	
1.9	185	0.8	25	30	750	
1.6	212	0.7	30	30	900	
1.6	200	1.0	15	60	900	30/63
1.2	263	0.9	30	40	1200	
0.93	305	0.7	30	50	1500	
0.9	359	1.1	50	30	1500	40/75
0.78	404	1.0	60	30	1800	
0.58	496	0.7	60	40	2400	
0.5	608	0.9	60	50	3000	40/90
0.35	548	0.8	50	80	4000	
0.12kW			10			30/50
4.7	118	1.2	10	30	300	
3.5	142	0.9		40	400	
2.8	164	0.7	10	50	500	30/63
2.8	171	1.3	10	50	500	
2.3	208	1.1	15	40	600	
1.9	241	0.9	15	50	750	

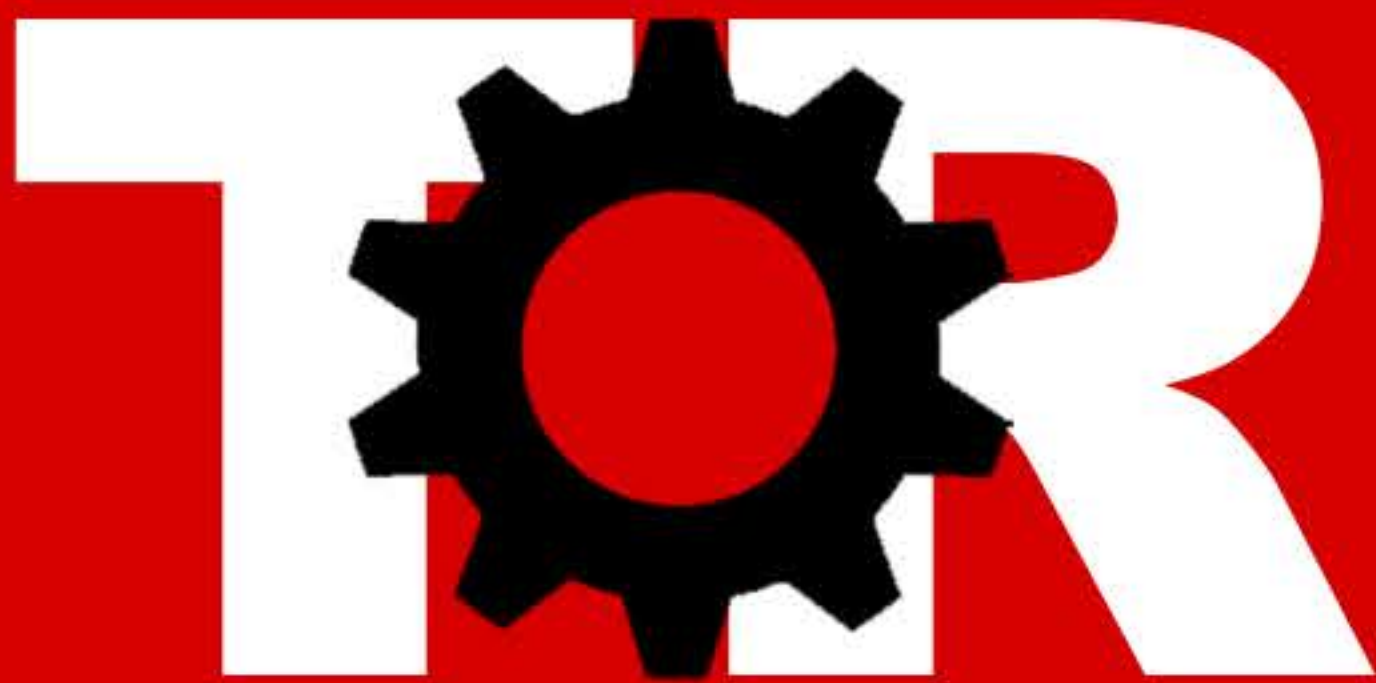




Output speed (r/min)	Output torque (N.m)	(fs)	High speed transmission ratio (i1)	Low speed transmission ratio (i2)	General transmission ratio (i)	Combination model size
0.12kW						
1.6	324	1.2	30	30	900	40/75
1.2	399	0.9	30	40	1200	
0.78	546	0.9	30	60	1800	40/90
0.58	695	0.9	60	40	2400	
0.5	883	1.2	60	50	3000	50/110
0.35	784	1.0	50	80	4000	
0.28	928	0.8	50	100	5000	
0.18kW						
3.5	221	1.0	10	40	400	30/63
2.8	257	0.8	10	50	500	
2.3	362	1.1	20	30	600	40/75
1.9	435	0.9	25	30	750	
1.6	487	0.8	30	30	900	
1.2	629	1.0	30	40	1200	40/90
0.93	735	0.8	30	50	1500	
0.78	860	1.5	60	30	1800	50/110
0.58	1113	1.1	60	40	2400	
0.25kW						
3.5	336	1.1	10	40	400	40/75
2.8	384	0.8	10	50	500	
2.3	511	1.2	15	40	600	40/90
1.9	598	0.9	15	50	750	
1.6	667	0.8	15	60	900	
1.2	943	1.3	30	40	1200	50/110
0.93	1064	1.2	50	30	1500	
0.78	1195	1.1	60	30	1800	
0.6	1624	1.0	60	40	2400	63/130
0.47	1935	0.8	60	50	3000	
0.35	2046	0.6	50	80	4000	
0.28	2430	0.5	50	100	5000	
0.78	1199	1.8	60	30	1800	63/150
0.6	1446	1.8	60	40	2400	
0.5	1713	1.4	60	50	3000	
0.4	2026	0.9	50	80	4000	
0.3	2251	0.7	50	100	5000	
0.37kW						
4.7	405	1.0	10	30	300	40/75
3.5	498	0.7	10	40	400	
4.7	401	1.5	7.5	40	300	40/90
3.5	523	1.2	10	40	400	
2.8	611	0.9	10	50	500	
2.3	757	0.8	15	40	600	

Output speed (r/min)	Output torque (N.m)	(fs)	High speed transmission ratio (i1)	Low speed transmission ratio (i2)	General transmission ratio (i)	Combination model size
0.25kW						
1.9	949	1.3	25	30	750	50/110
1.6	1079	1.2	30	30	900	
1.2	1396	0.8	30	40	1200	
0.9	1674	1.1	50	30	1500	63/130
0.78	1887	0.9	60	30	1800	
0.78	1774	1.2	60	30	1800	63/150
0.6	2141	1.2	60	40	2400	
0.5	2535	0.9	60	50	3000	
0.55kW						
4.7	639	2.0	10	30	300	50/110
3.5	826	1.4	10	40	400	
2.8	984	1.1	10	50	500	
2.3	1181	1.0	15	40	600	
1.9	1411	0.9	25	30	750	
2.8	995	1.6	10	50	500	
1.9	1470	1.2	25	30	750	63/130
1.2	2132	0.8	30	40	1200	
0.78	2637	0.8	60	30	1800	
0.6	3182	0.8	60	40	2400	63/150
0.75kW						
4.7	871	1.5	10	30	300	50/110
3.5	1126	1.1	10	40	400	
2.8	1357	1.1	10	50	500	63/130
2.3	1631	1.0	15	40	600	
1.9	2005	0.9	25	30	750	
1.6	2283	0.8	30	30	900	63/150
2.8	1290	1.8	10	50	500	
2.3	1529	1.7	15	40	600	
1.9	1783	1.3	25	30	750	
1.6	2215	0.9	30	30	900	
1.2	2680	1.0	30	40	1200	
1.1 kW						
4.7	1312	1.3	10	30	300	63/130
3.5	1671	1.0	10	40	400	
2.8	1991	0.8	10	50	500	
9.3	752	3.1	10	15	150	63/150
7	966	2.4	10	20	200	
5.6	1175	1.7	10	25	250	
4.7	1364	1.7	10	30	300	
3.5	1619	1.6	10	40	400	
2.8	1893	1.2	10	50	500	
2.3	2242	1.2	15	40	600	
1.9	2616	0.9	25	30	750	





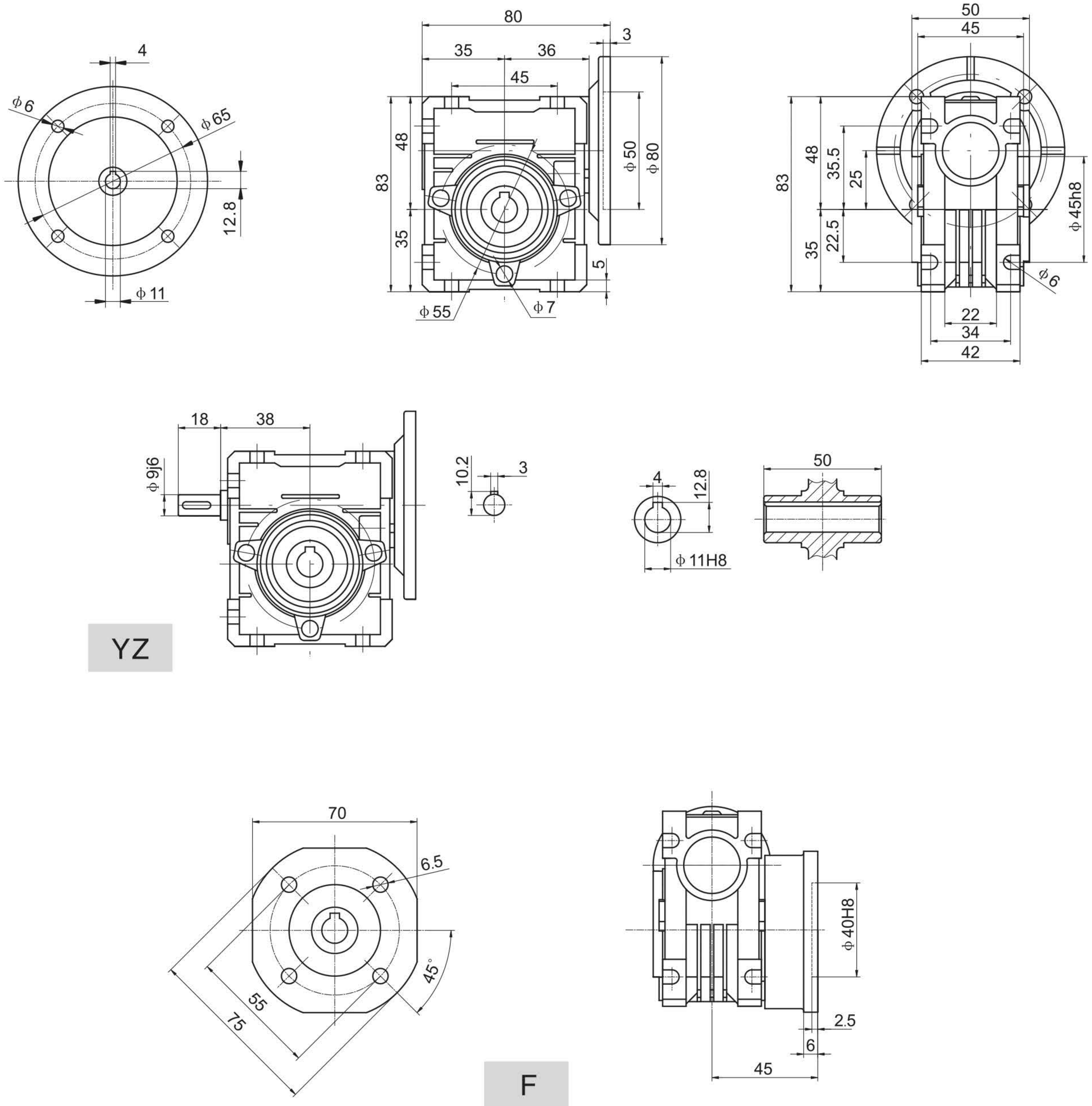
Output speed (r/min)	Output torque (N.m)	(fs)	High speed transmission ratio (i1)	Low speed transmission ratio (i2)	General transmission ratio (i)	Combination model size
1.5kW						
4.7	1789	1.0	10	30	300	63/130
3.5	2279	0.7	10	40	400	
9.3	1026	2.3	10	15	150	63/150
7	1317	1.8	10	20	200	
5.6	1602	1.3	10	25	250	
4.7	1860	1.3	10	30	300	
3.5	2208	1.2	10	40	400	
2.8	2582	0.9	10	50	500	
2.3	3057	0.9	15	40	600	



# OUTLINE DIMENSION SHEET

RV25

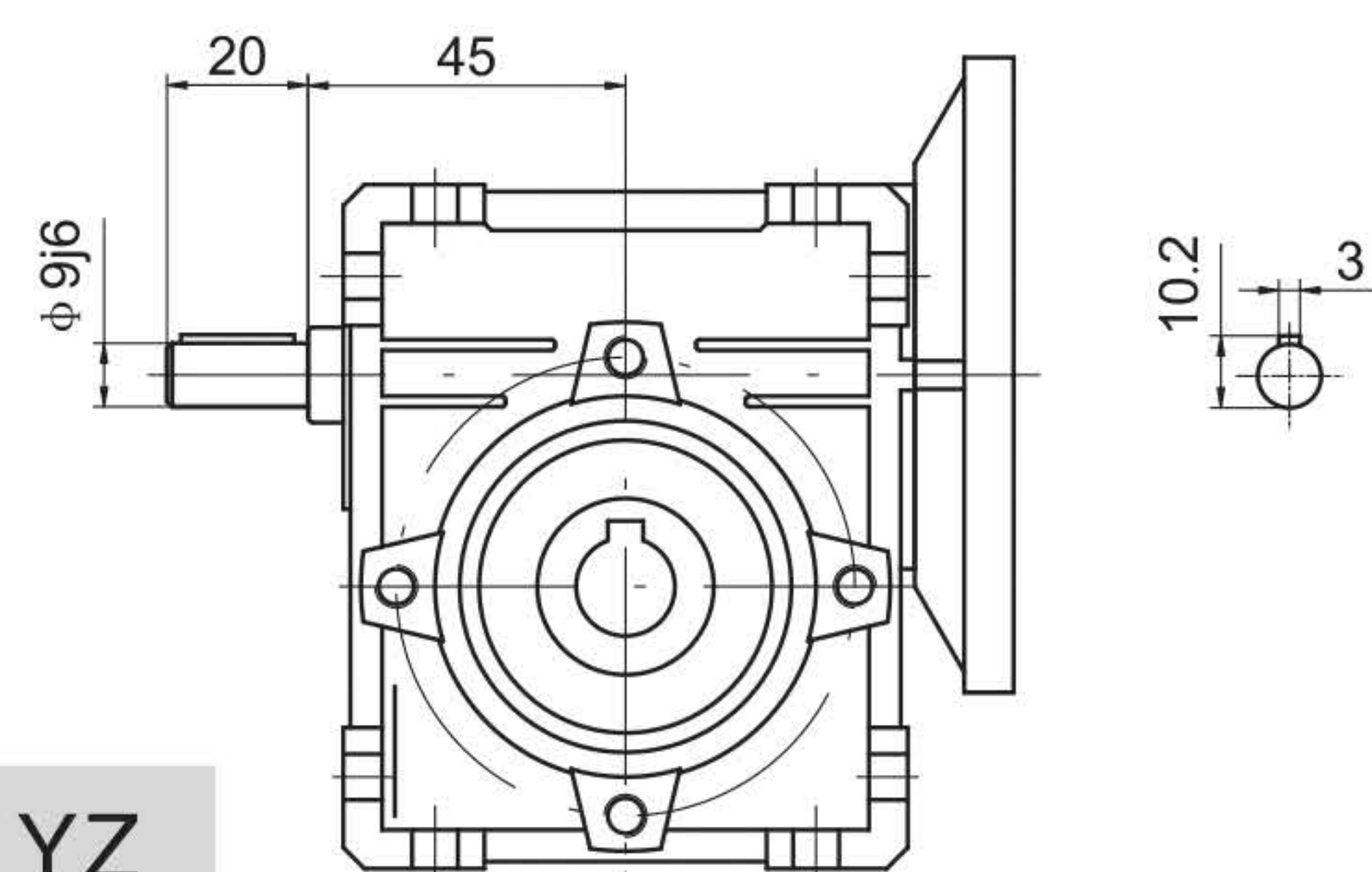
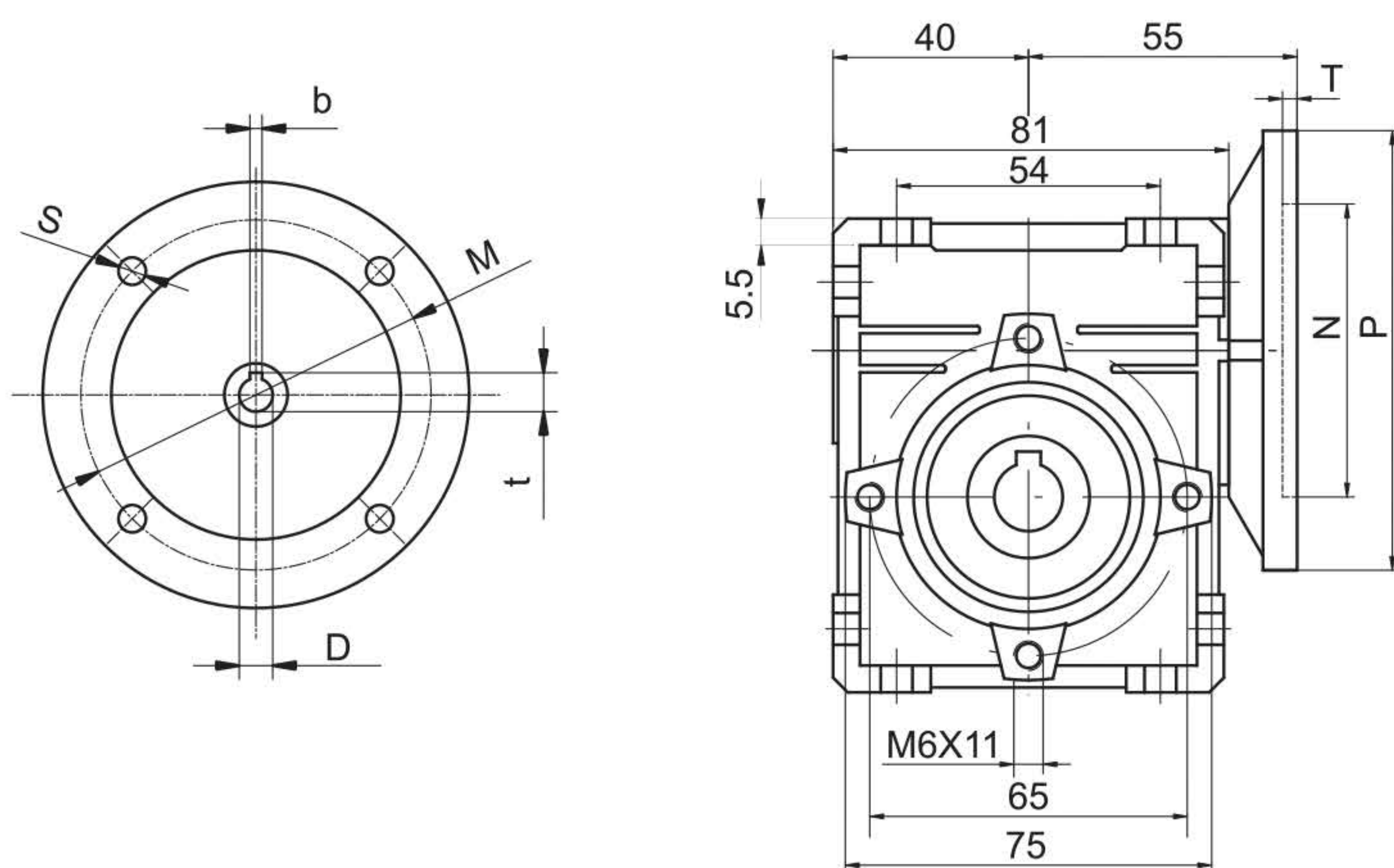
RV SERIES



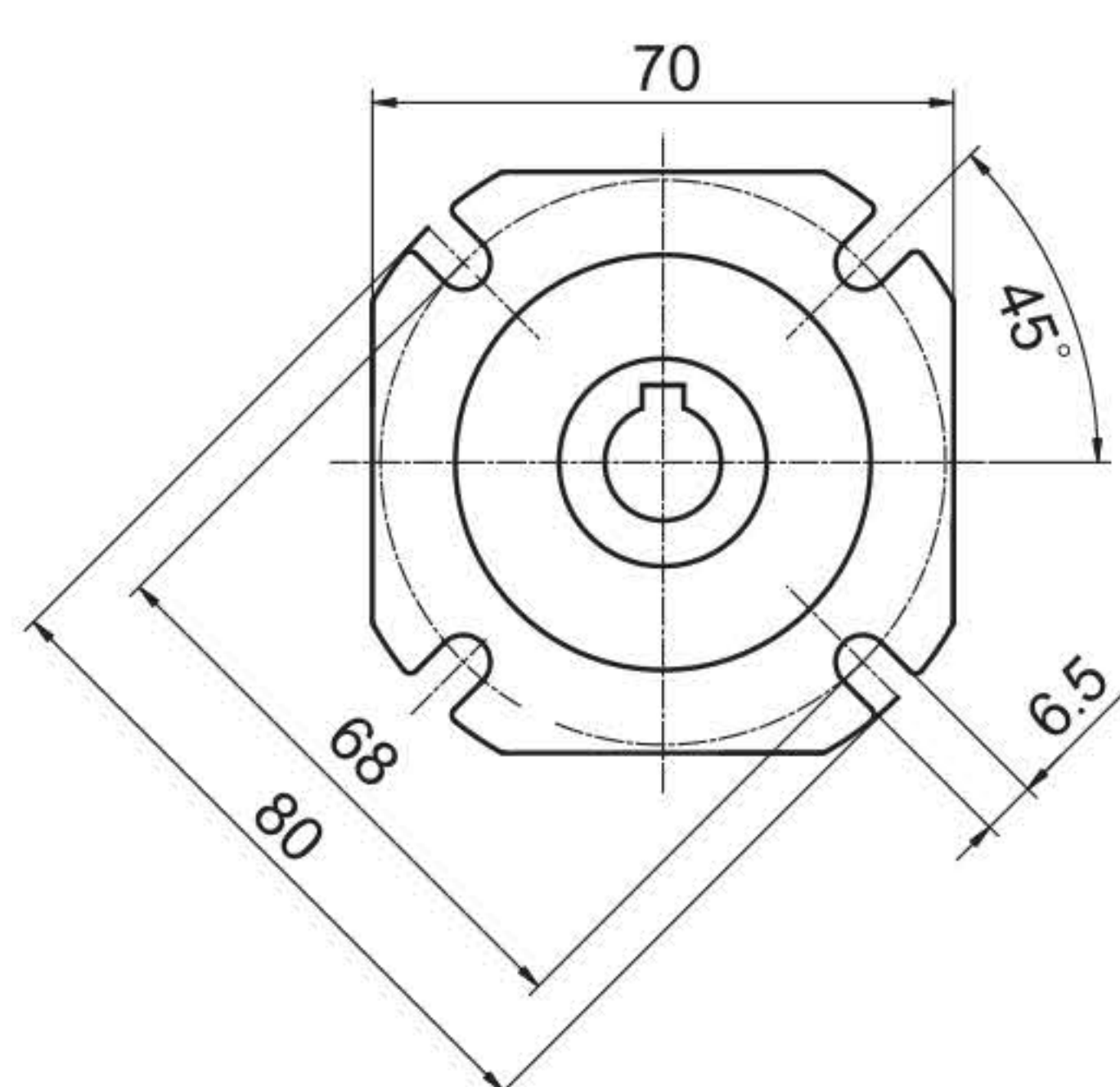
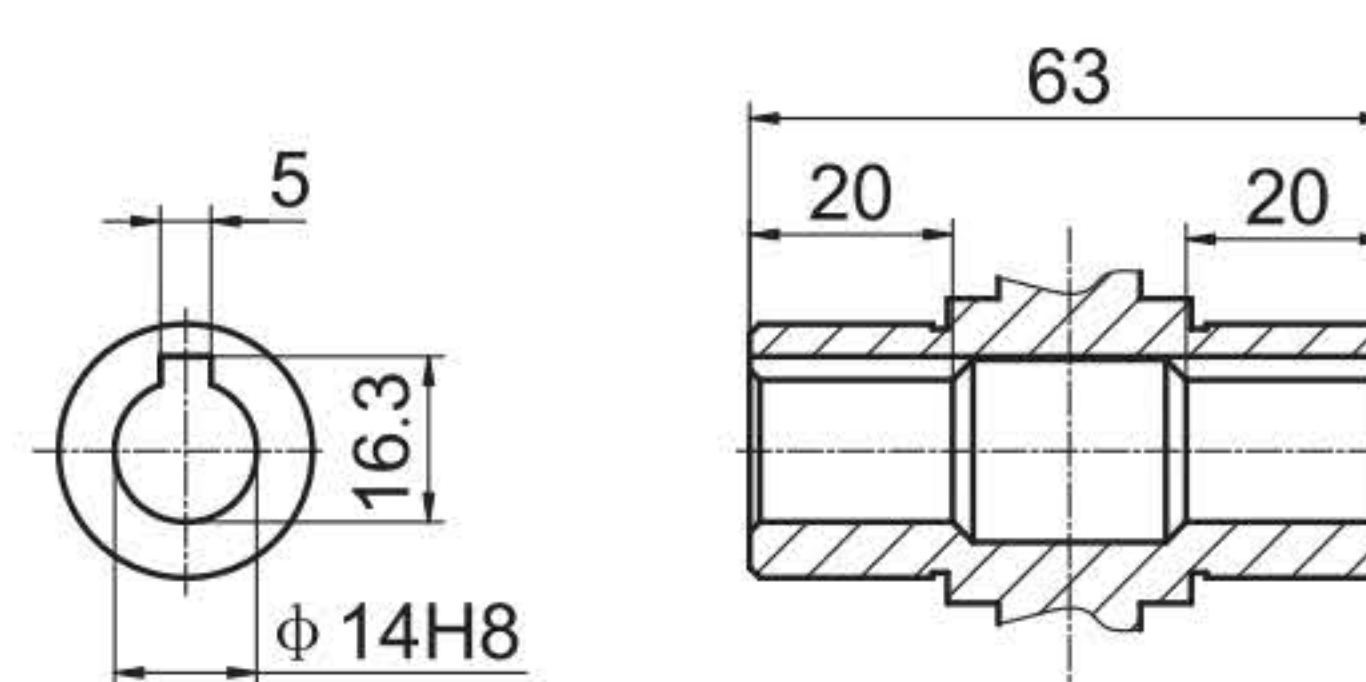
Weight without motor  $\approx 0.8\text{kg}$



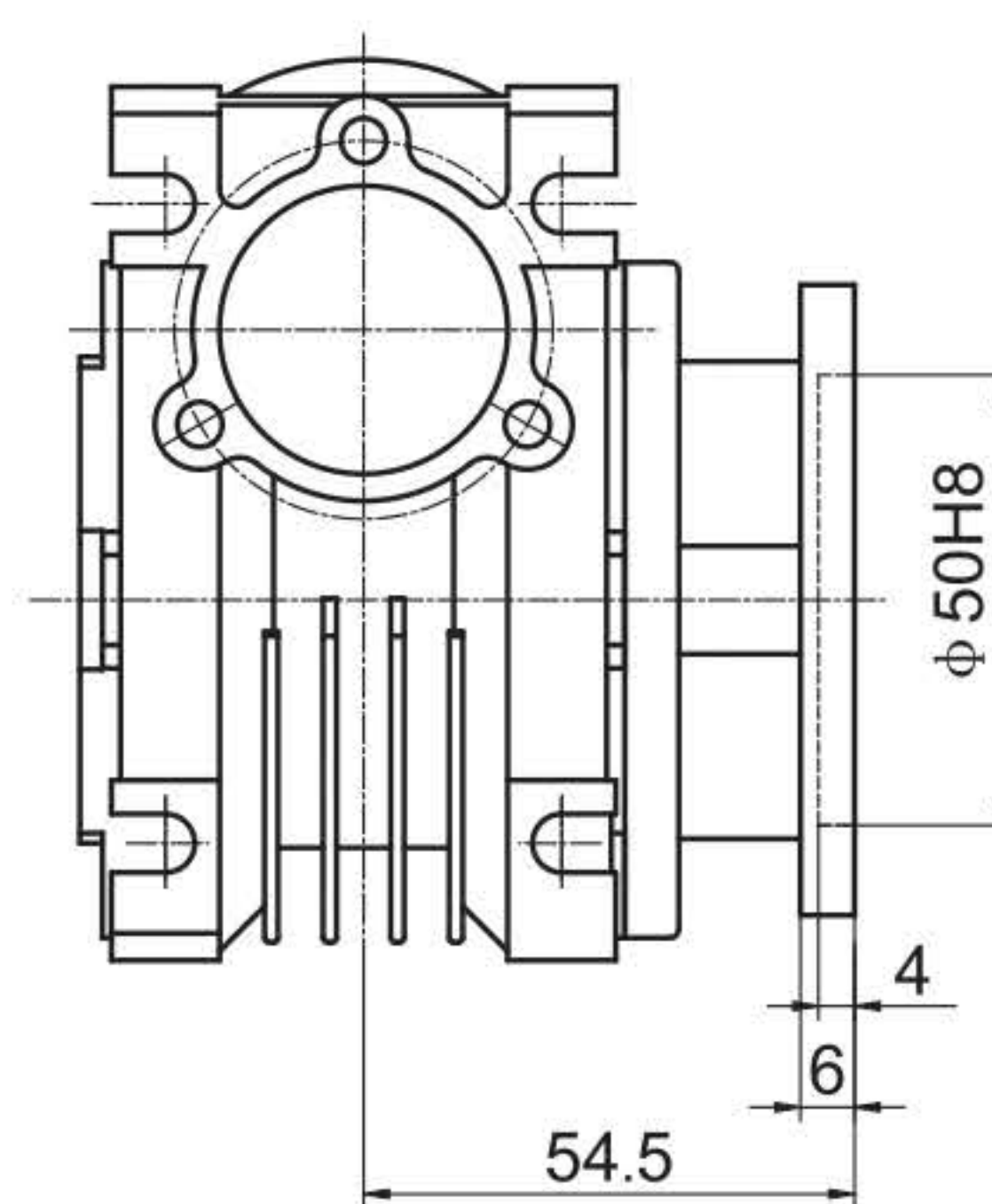
## RV30



YZ



F

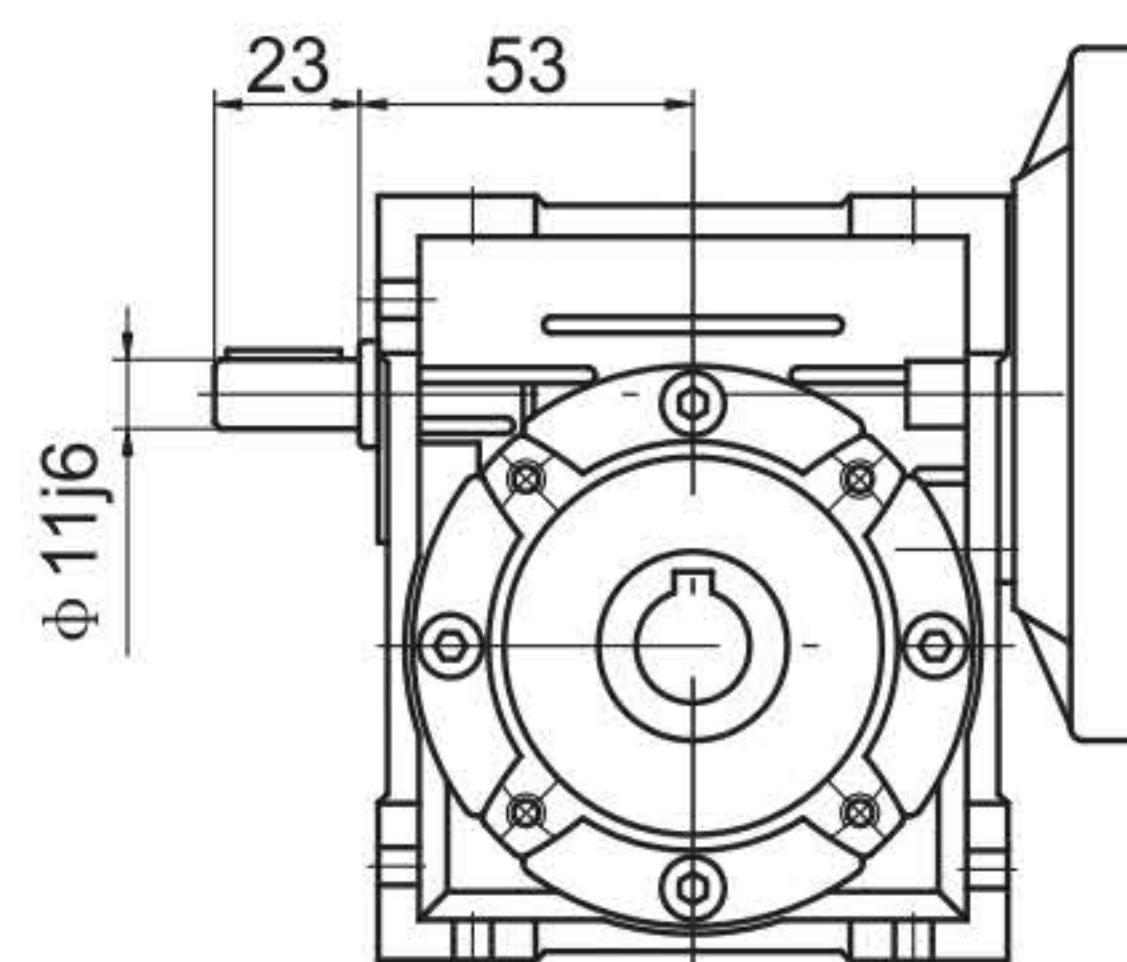
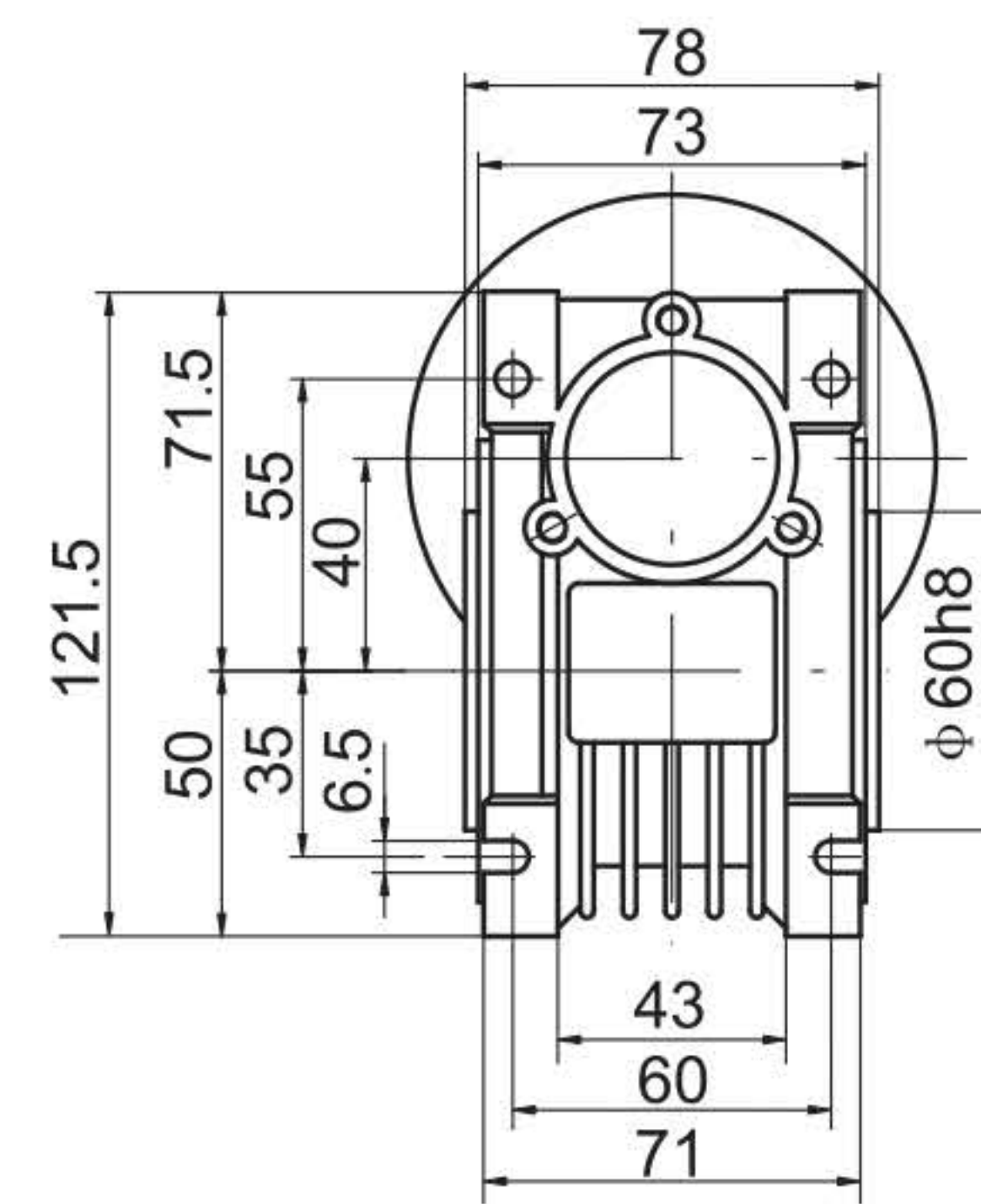
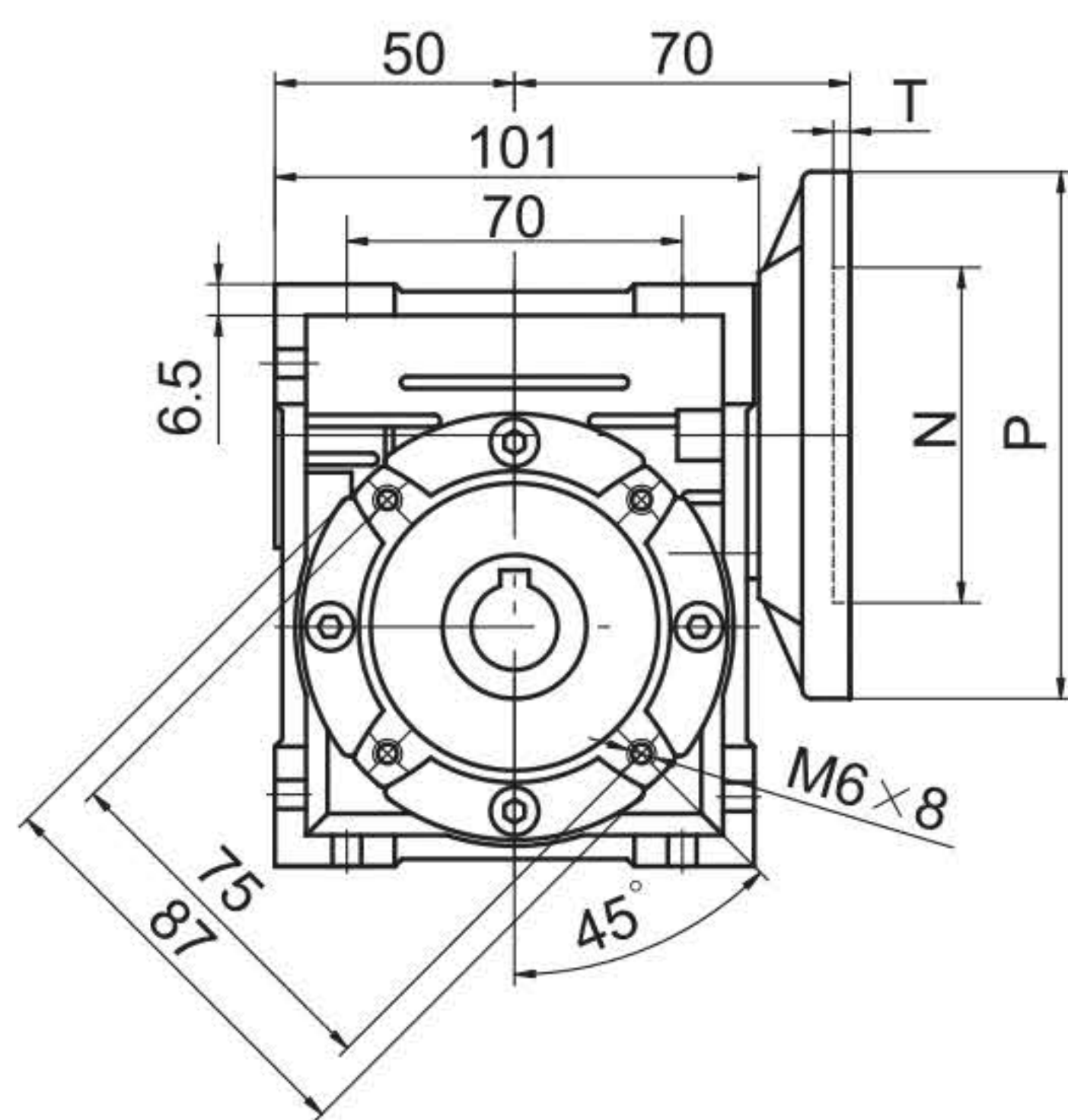
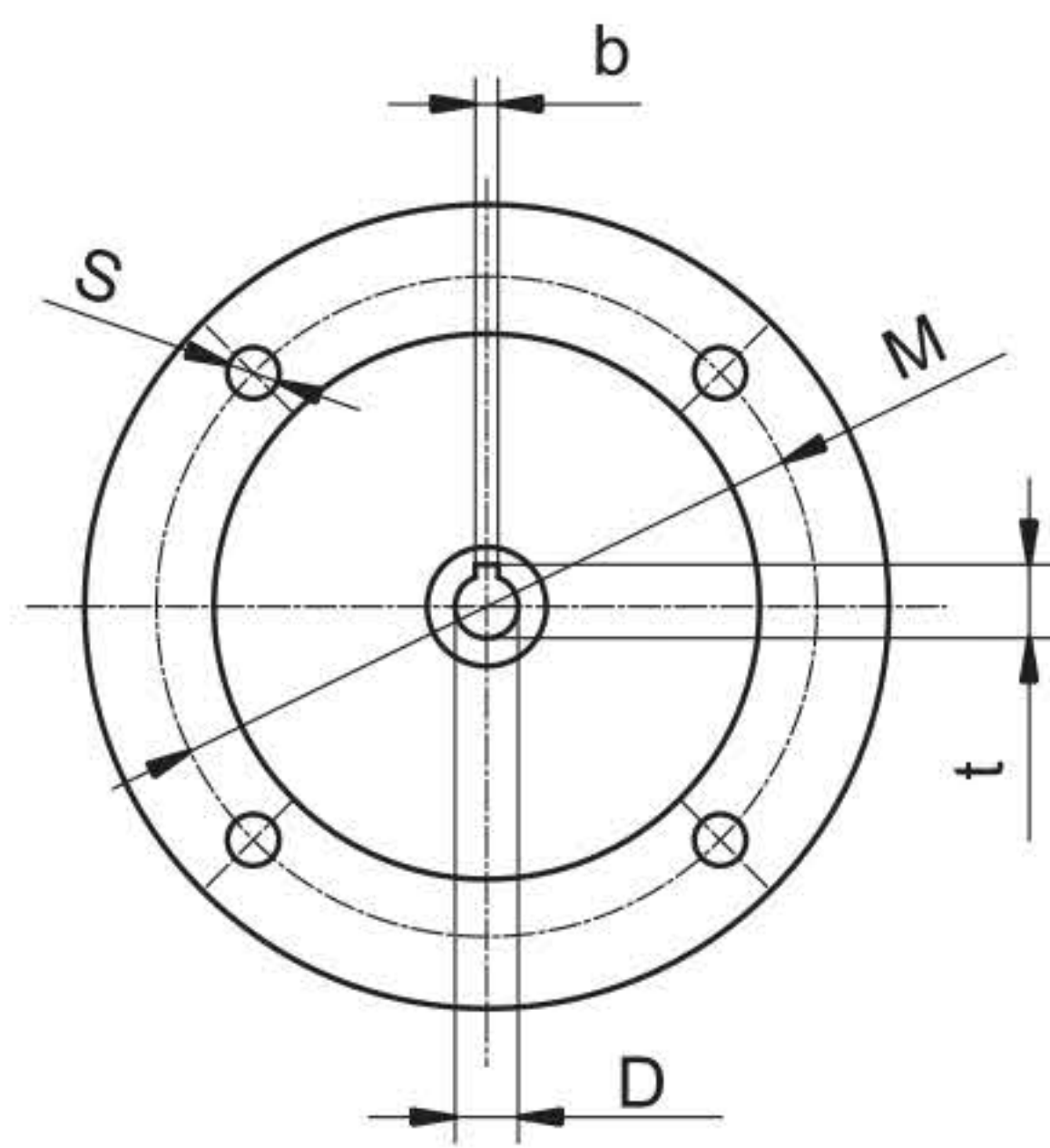


IEC	DE8	b	t	P	M	N	S	T
56B5	9	3	10.4	80	65	50	5.5	3
56B14	9	3	10.4	80	65	50	5.5	3
63B14	11	4	12.8	90	75	60	5.5	3
63B5	11	4	12.8	140	115	95	9	3.5

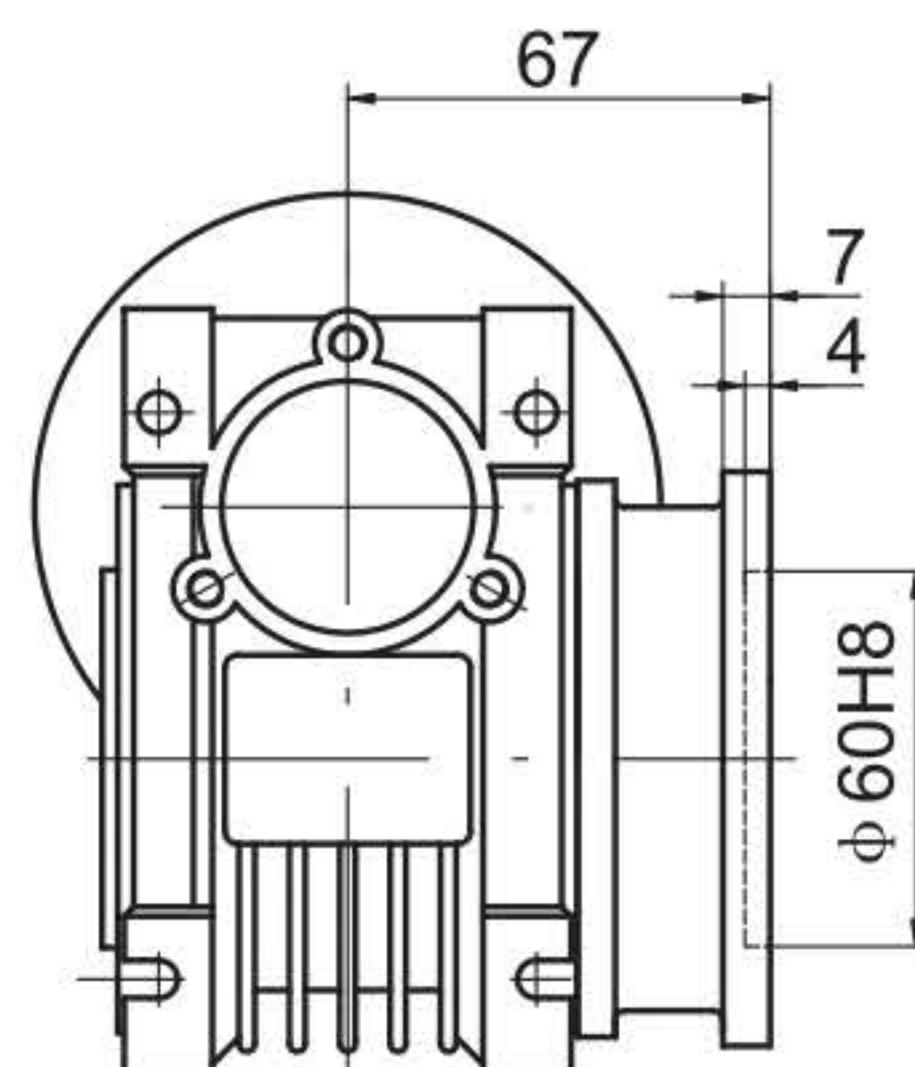
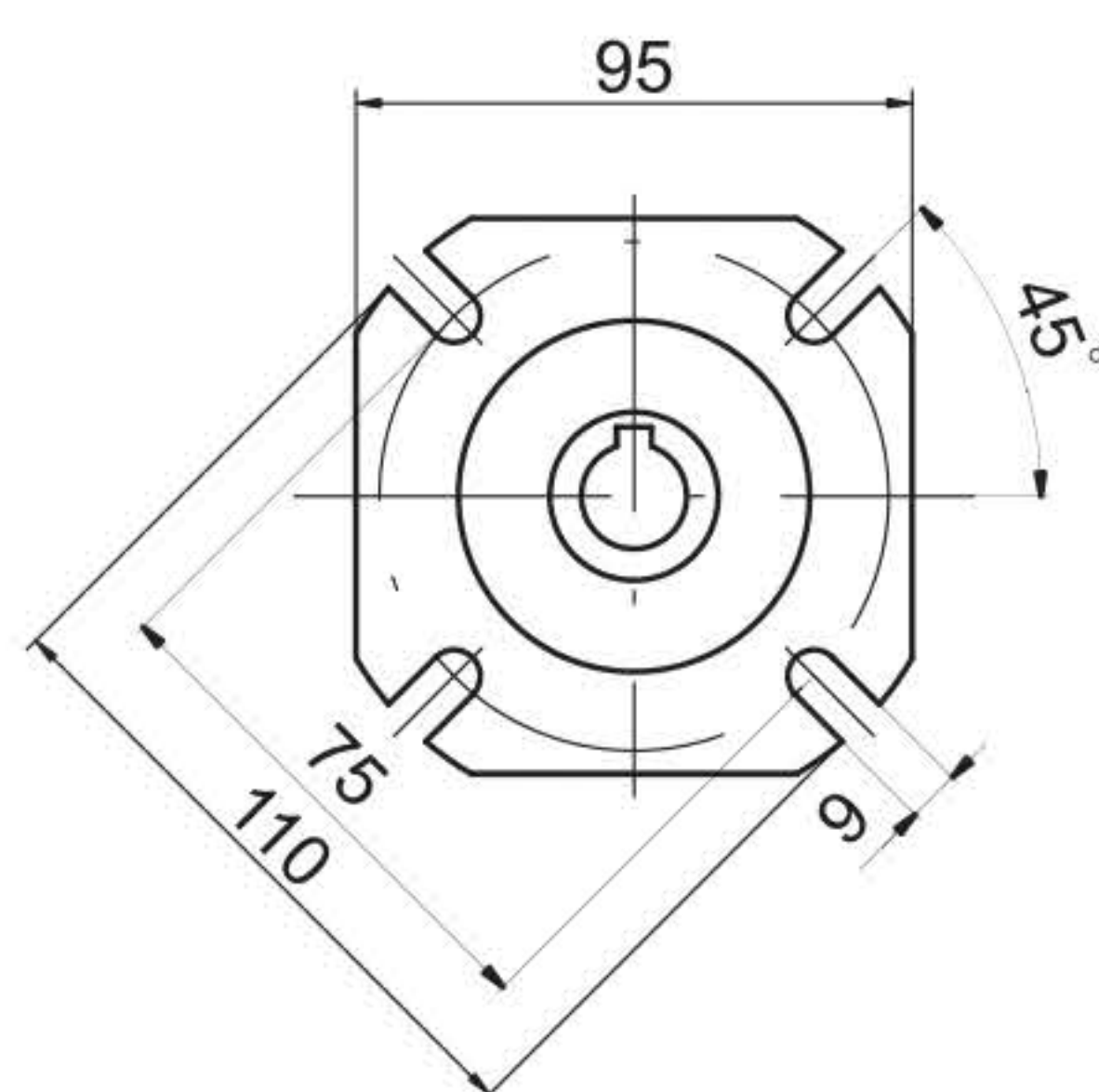
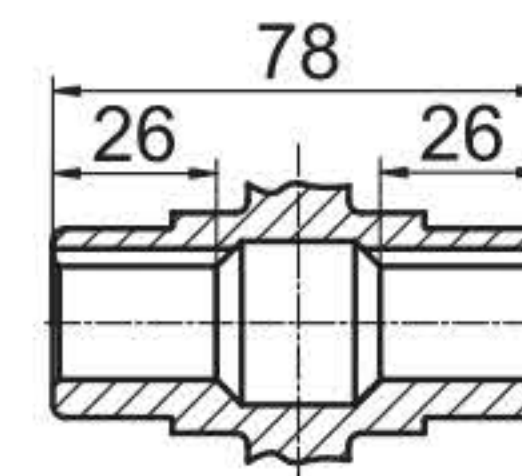
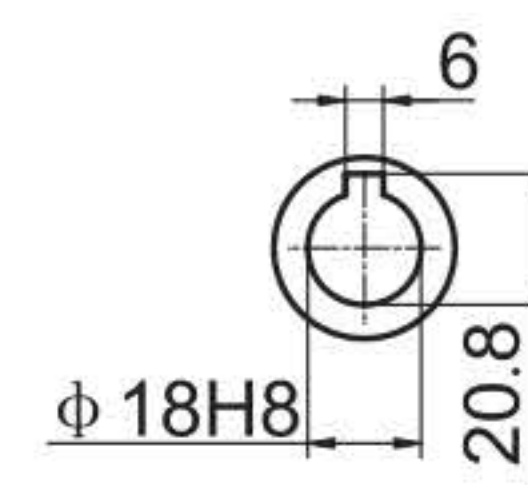
Weight without motor ≈ 1.2kg



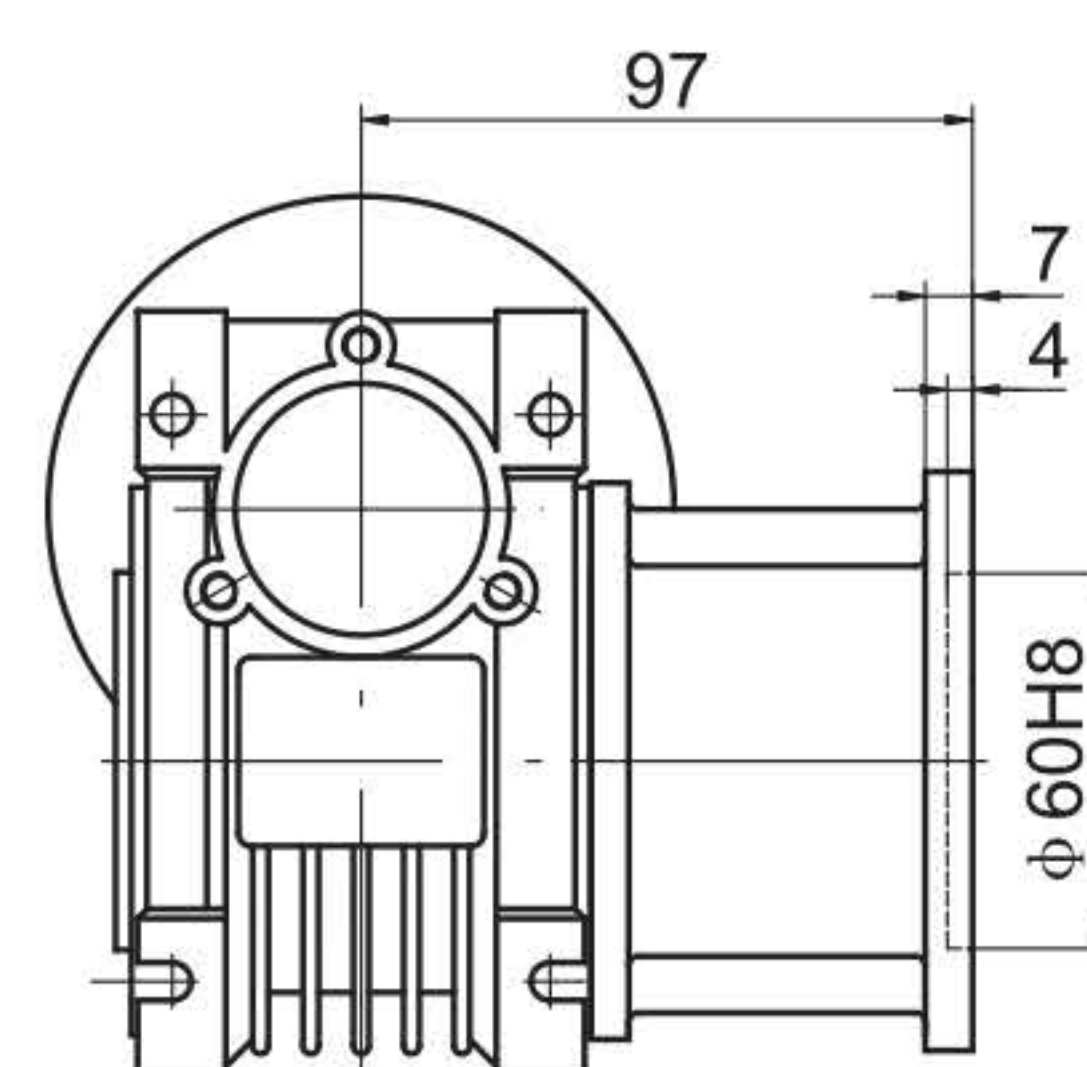
# RV40



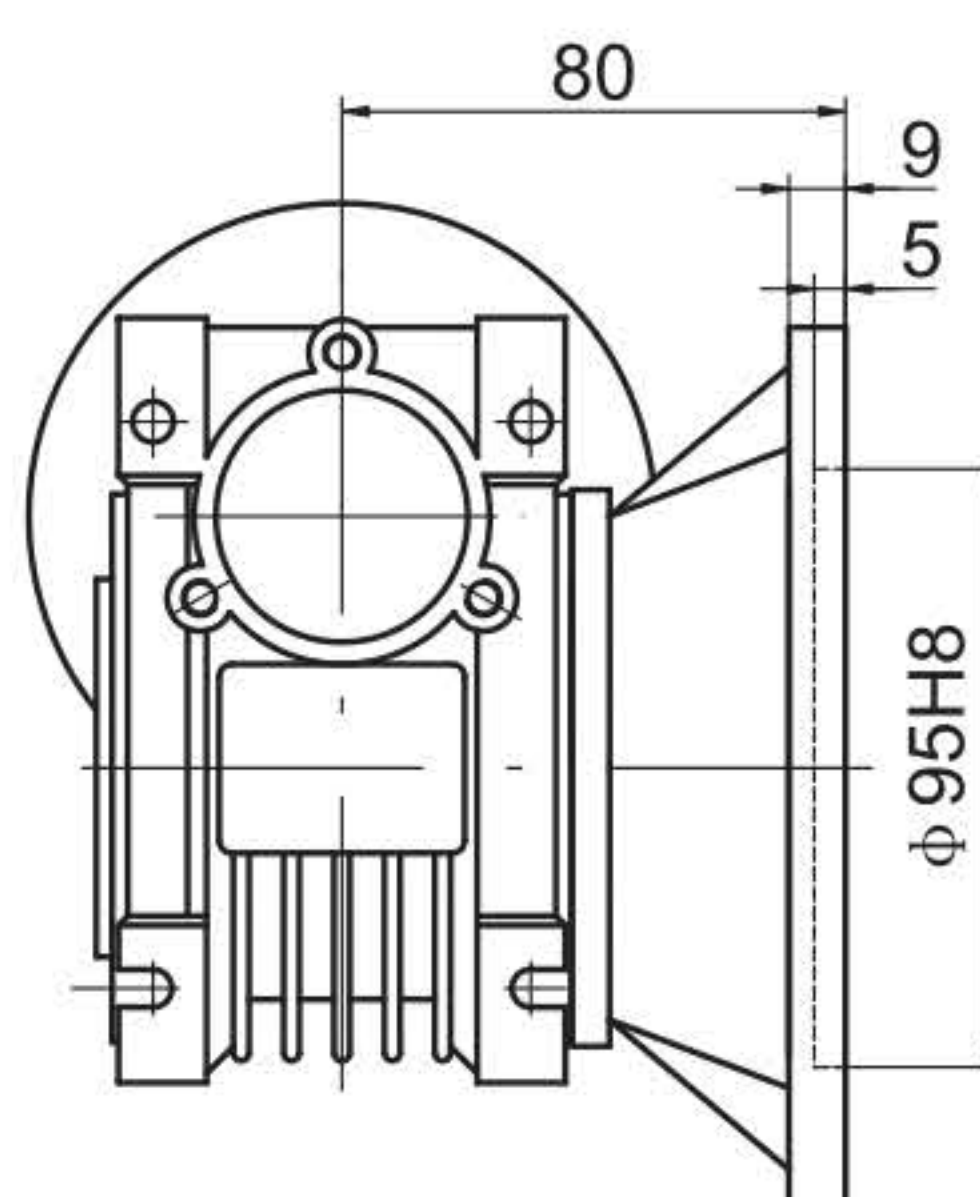
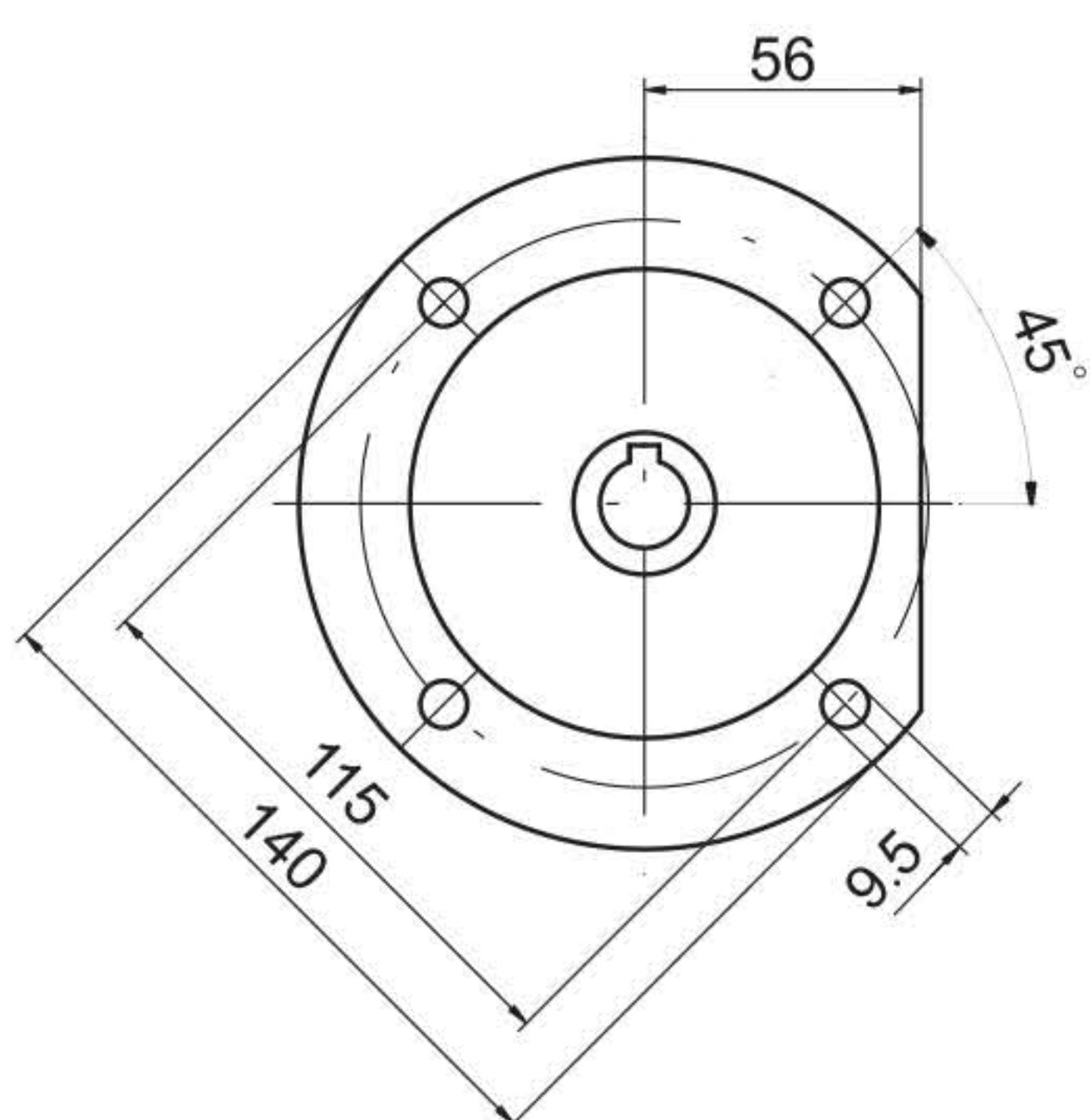
YZ



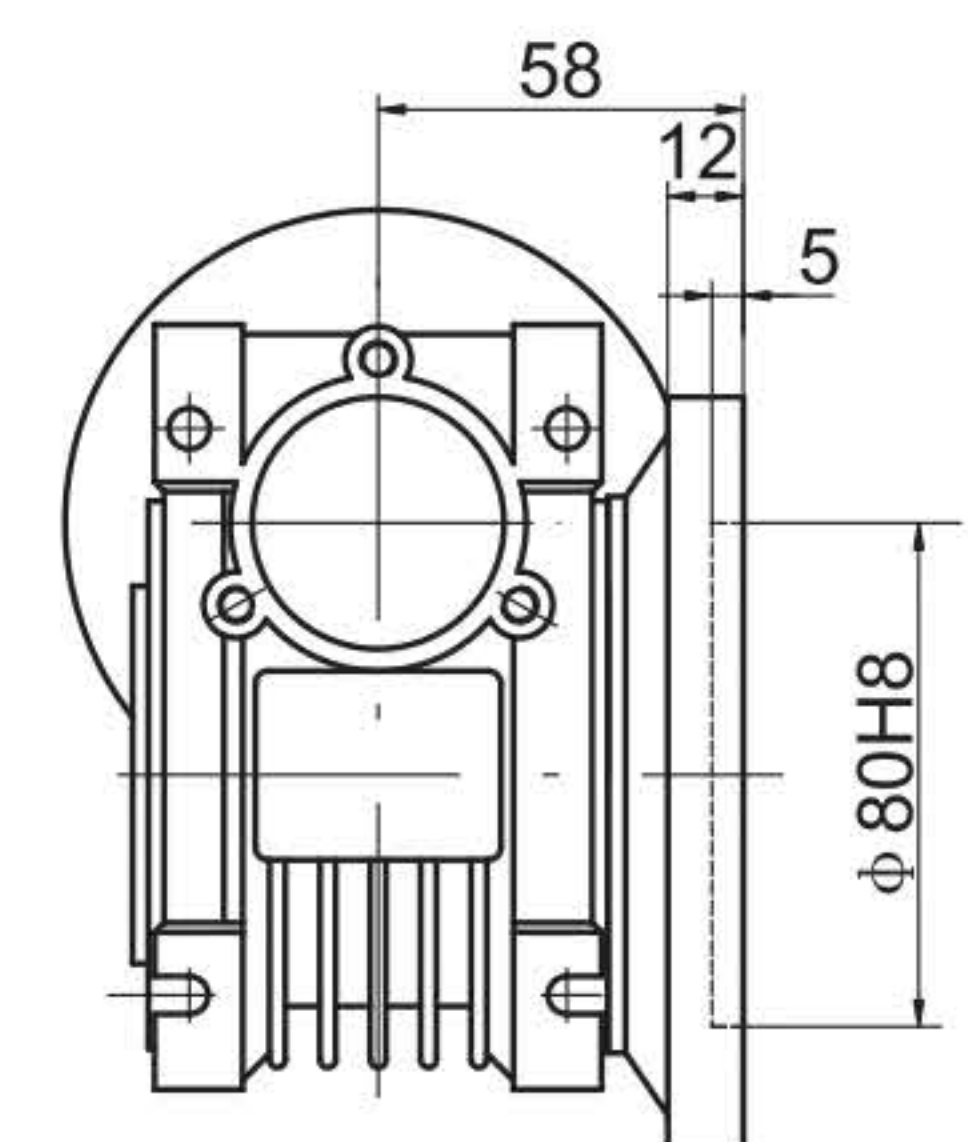
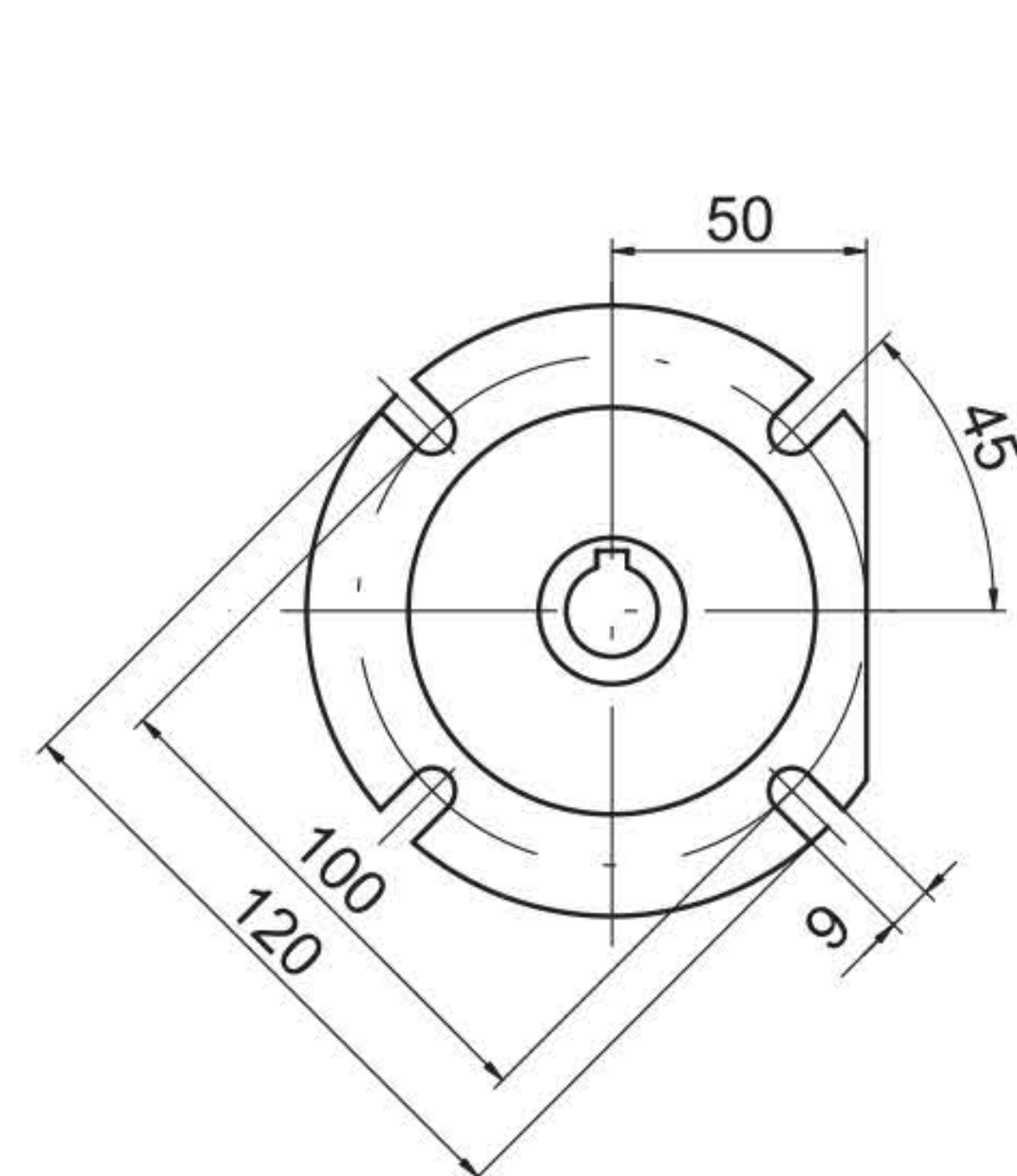
F



FL



FC

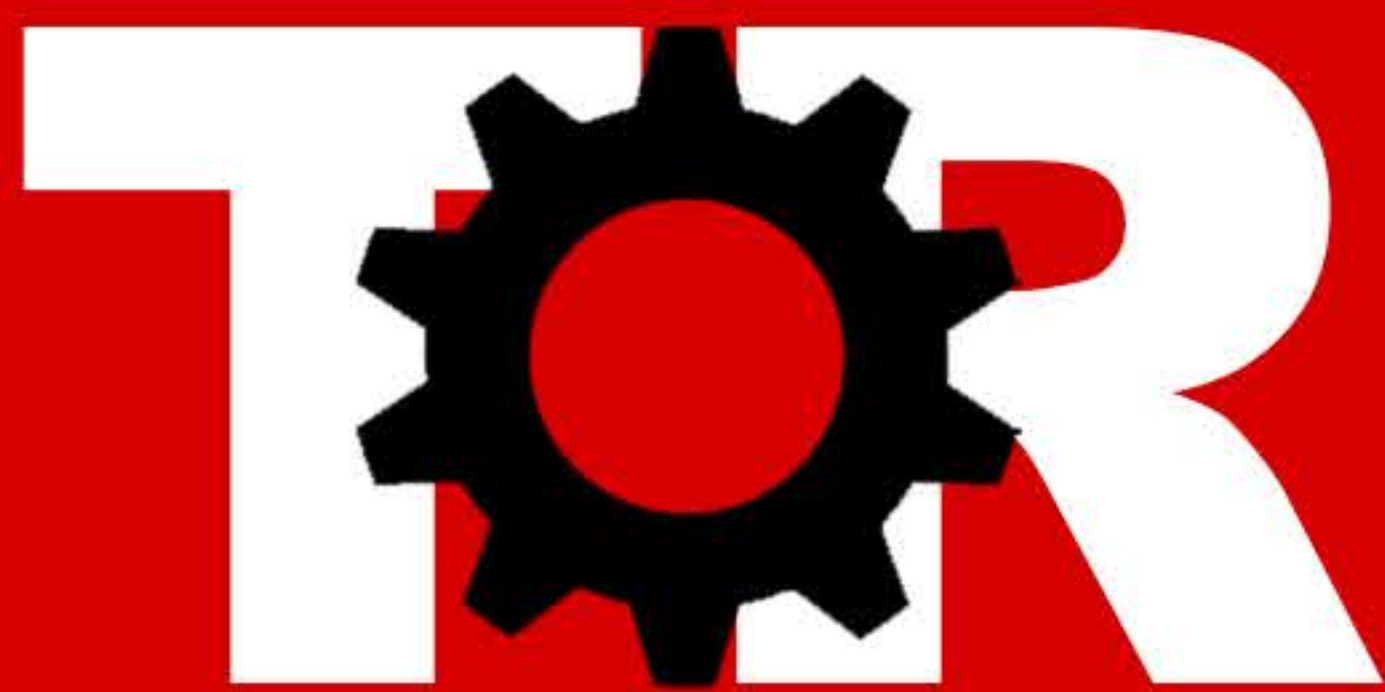


FD

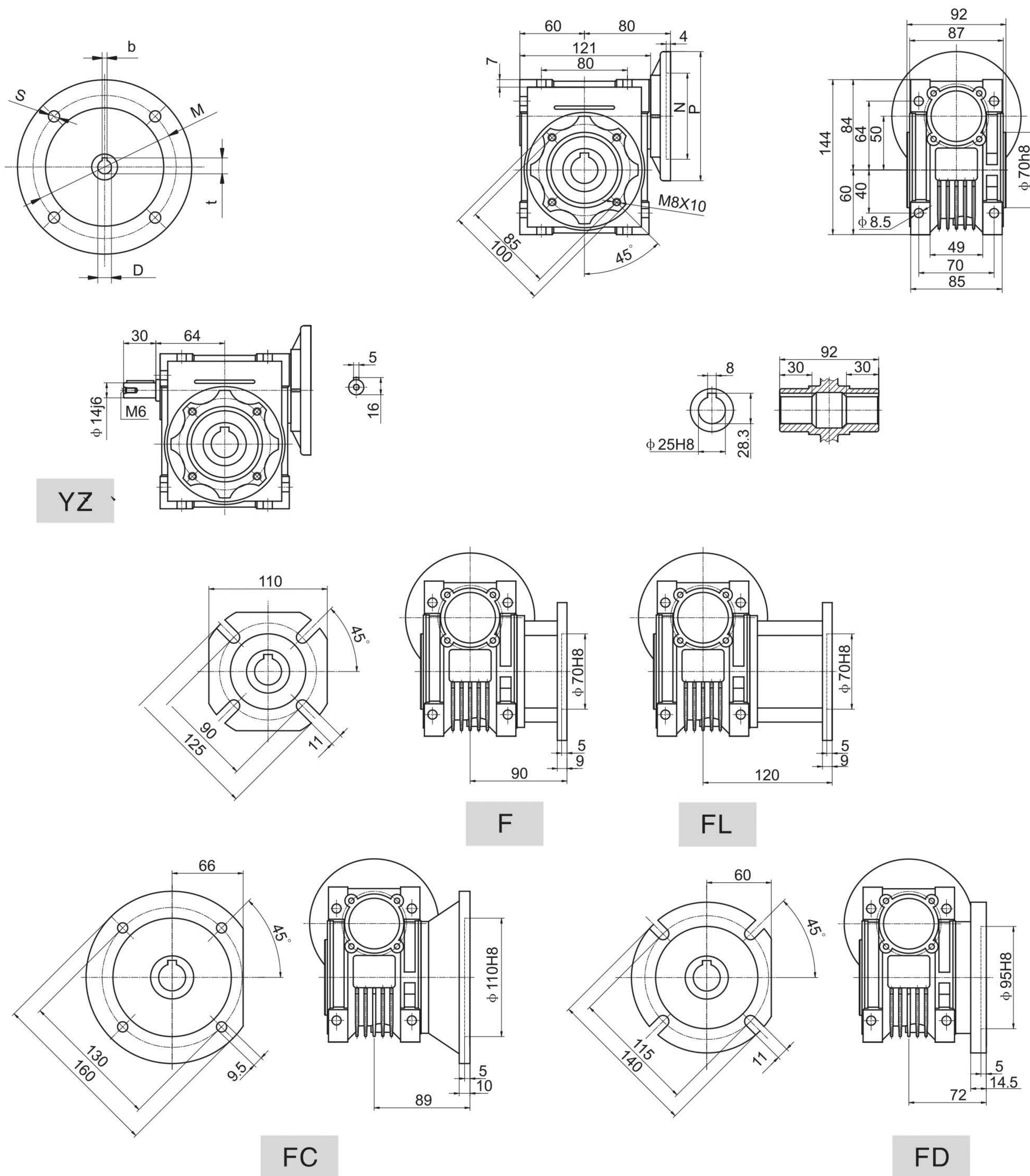
IEC	DE8	b	t	P	M	N	S	T
56B5	9	3	10.4	80	65	50	5.5	3
63B5	11	4	12.8	140	115	95	9	3.5
63B14	11	4	12.8	90	75	60	5.5	3
71B5	14	5	16.3	160	130	110	9	4
71B14	14	5	16.3	105	85	70	7	3

Weight without motor ≈ 2.2kg





# RV50

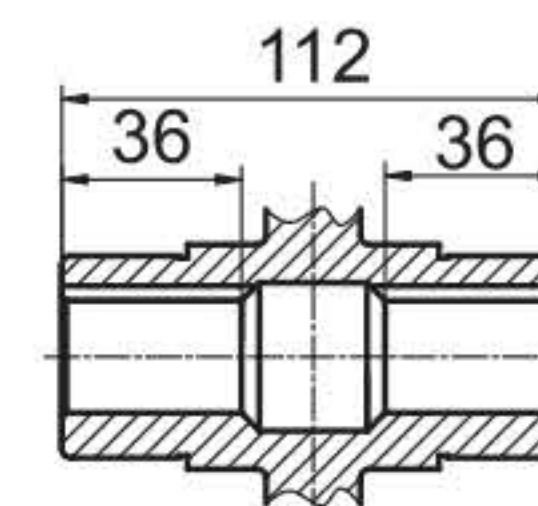
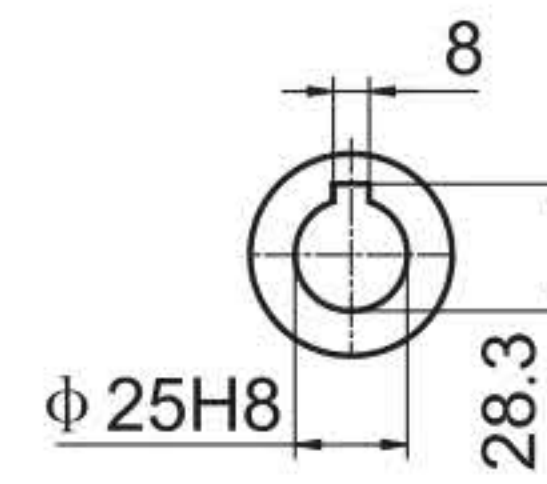
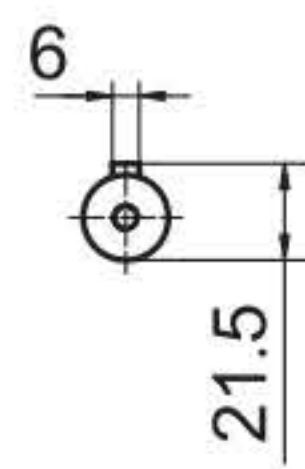
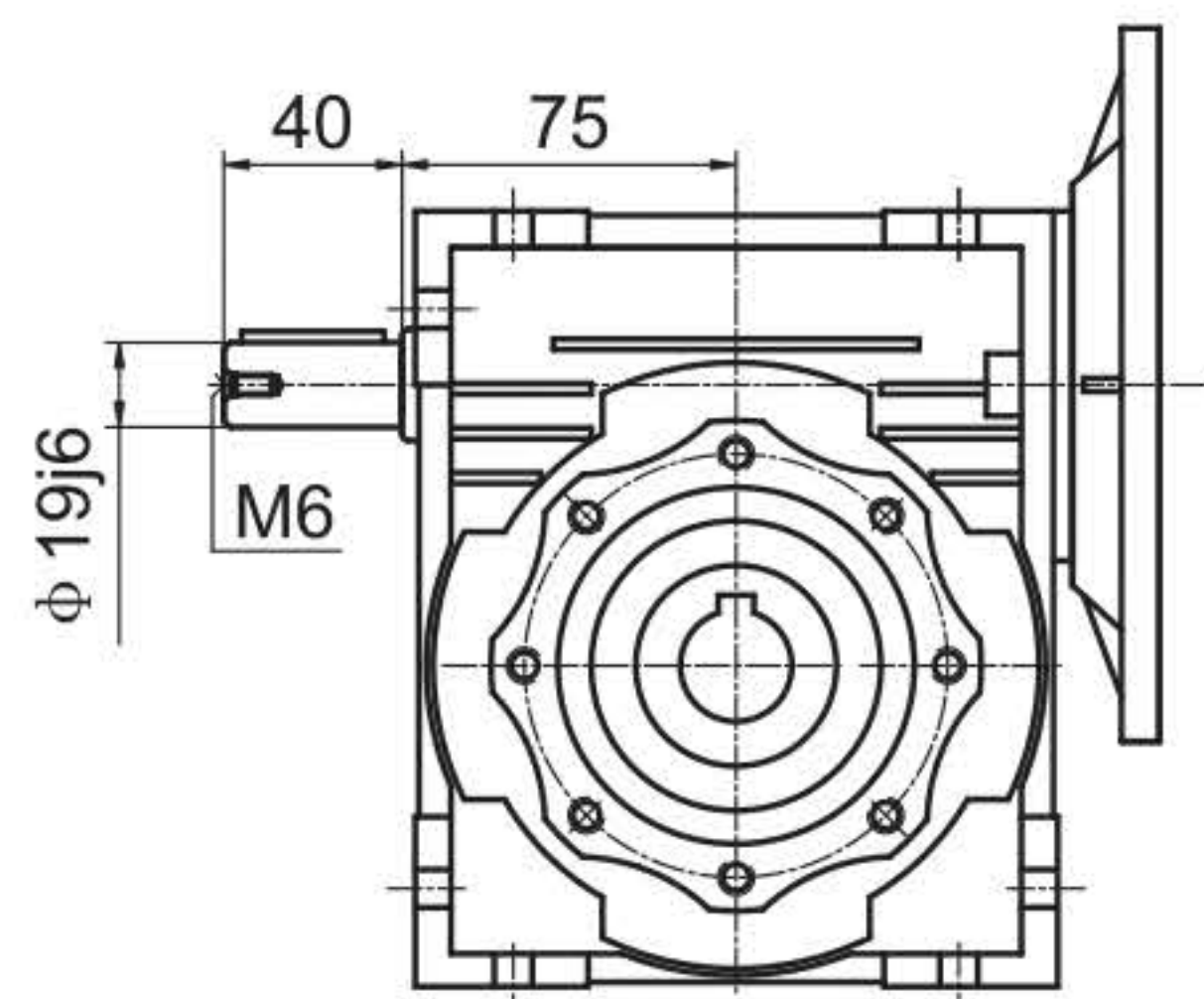
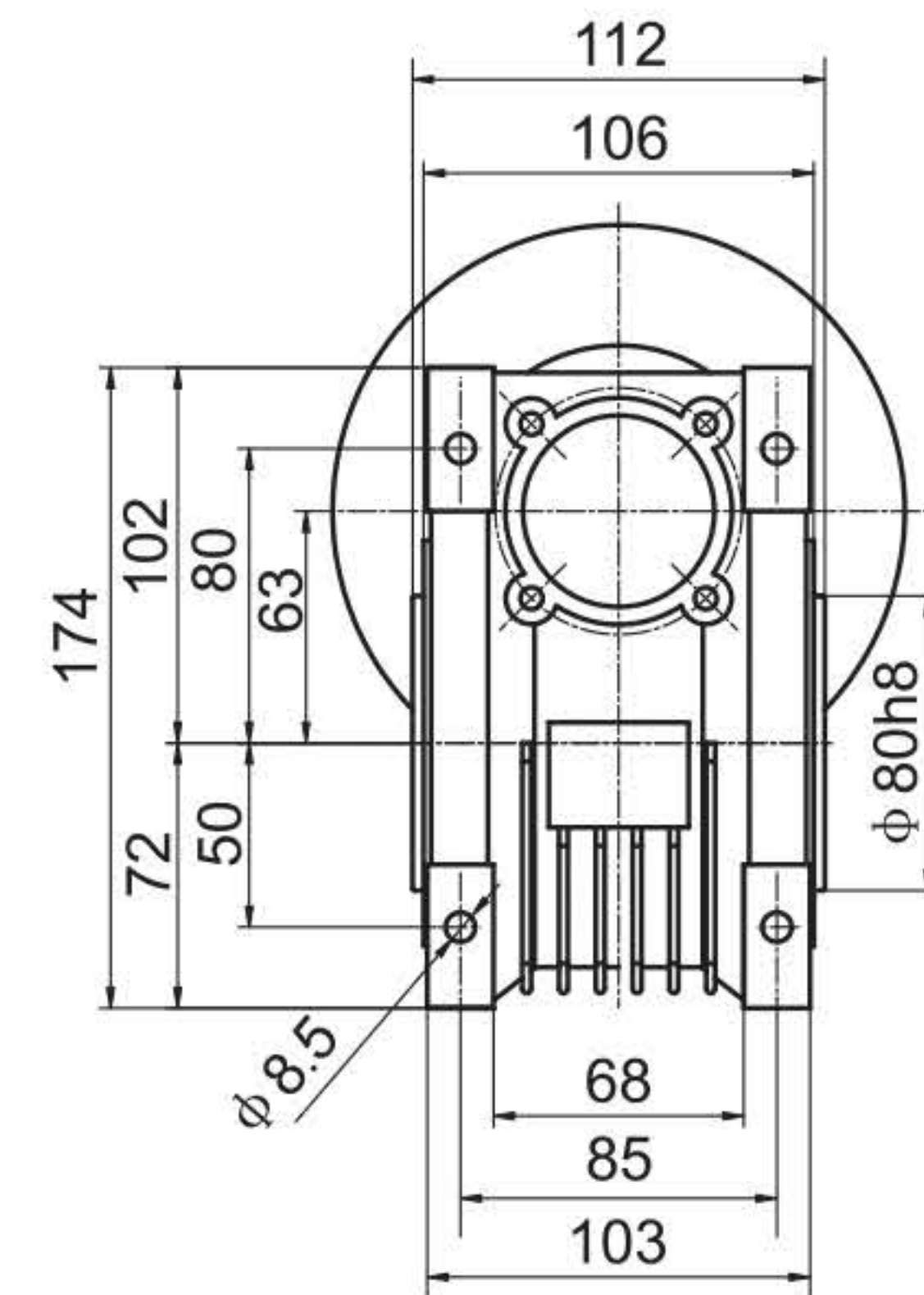
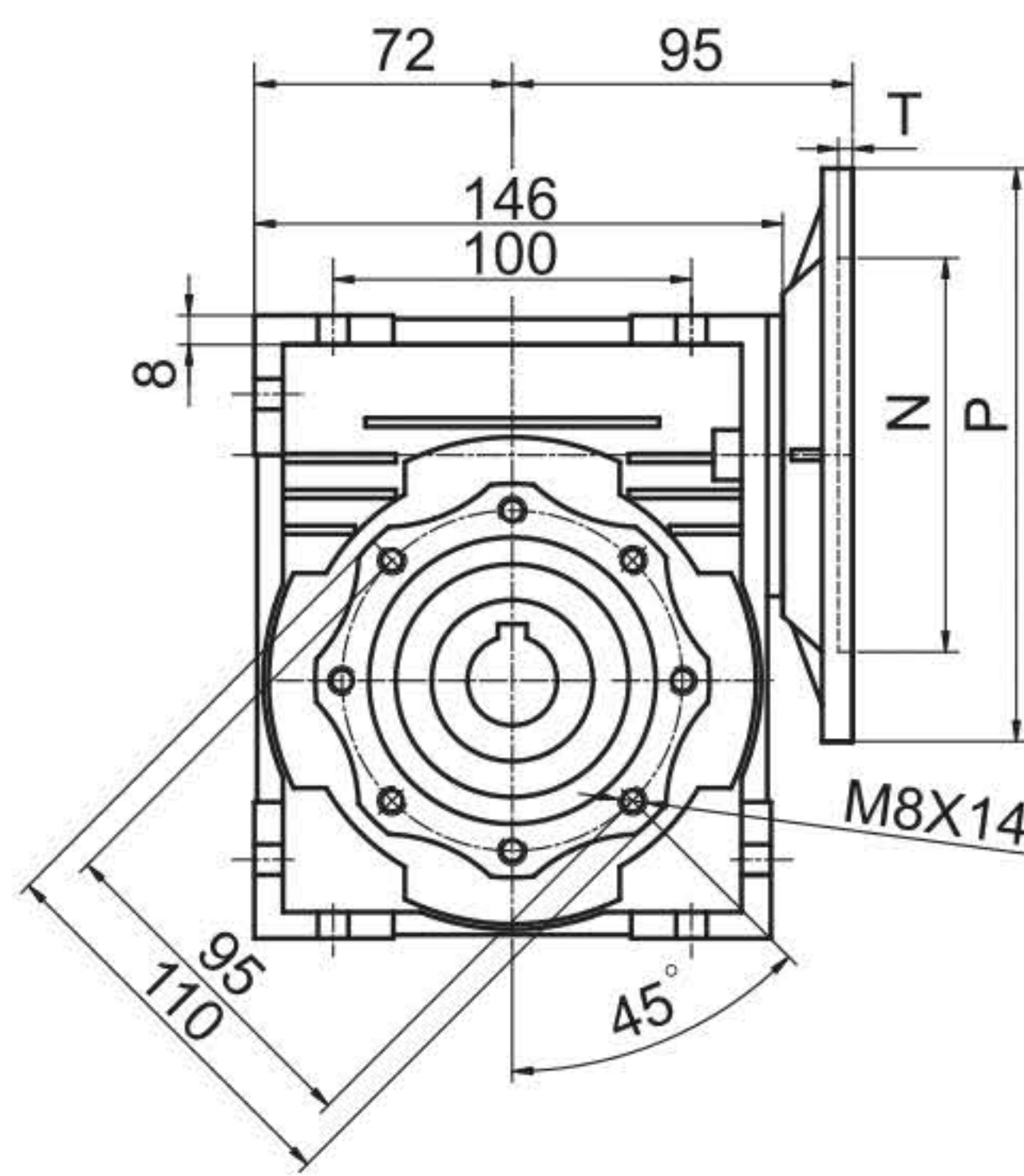
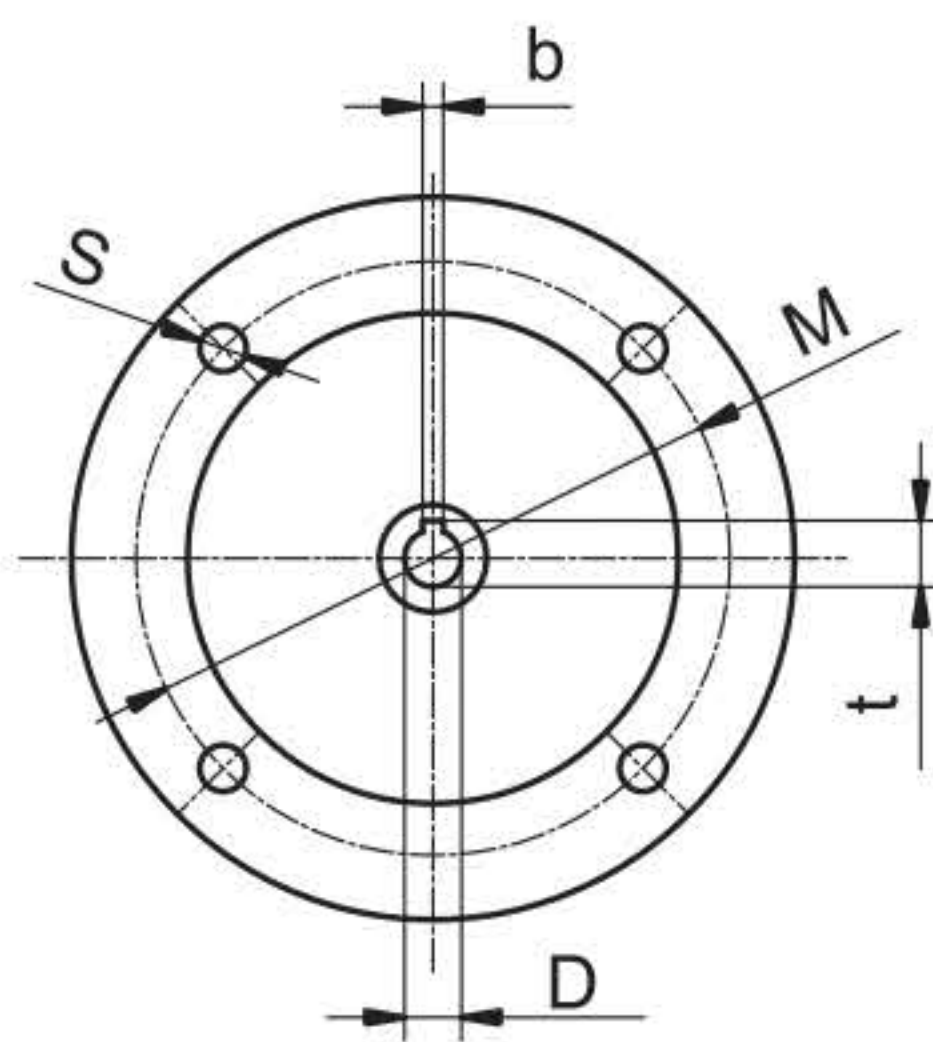


IEC	DE8	b	t	P	M	N	S	T
63B14	11	4	12.8	90	75	60	5.5	3
63B5	11	4	12.8	140	115	95	9	3.5
71B5	14	5	16.3	160	130	110	9	4
71B14	14	5	16.3	105	85	70	7	3
80B5	19	6	21.8	200	165	130	11	4
80B14	19	6	21.8	120	100	80	7	3.5

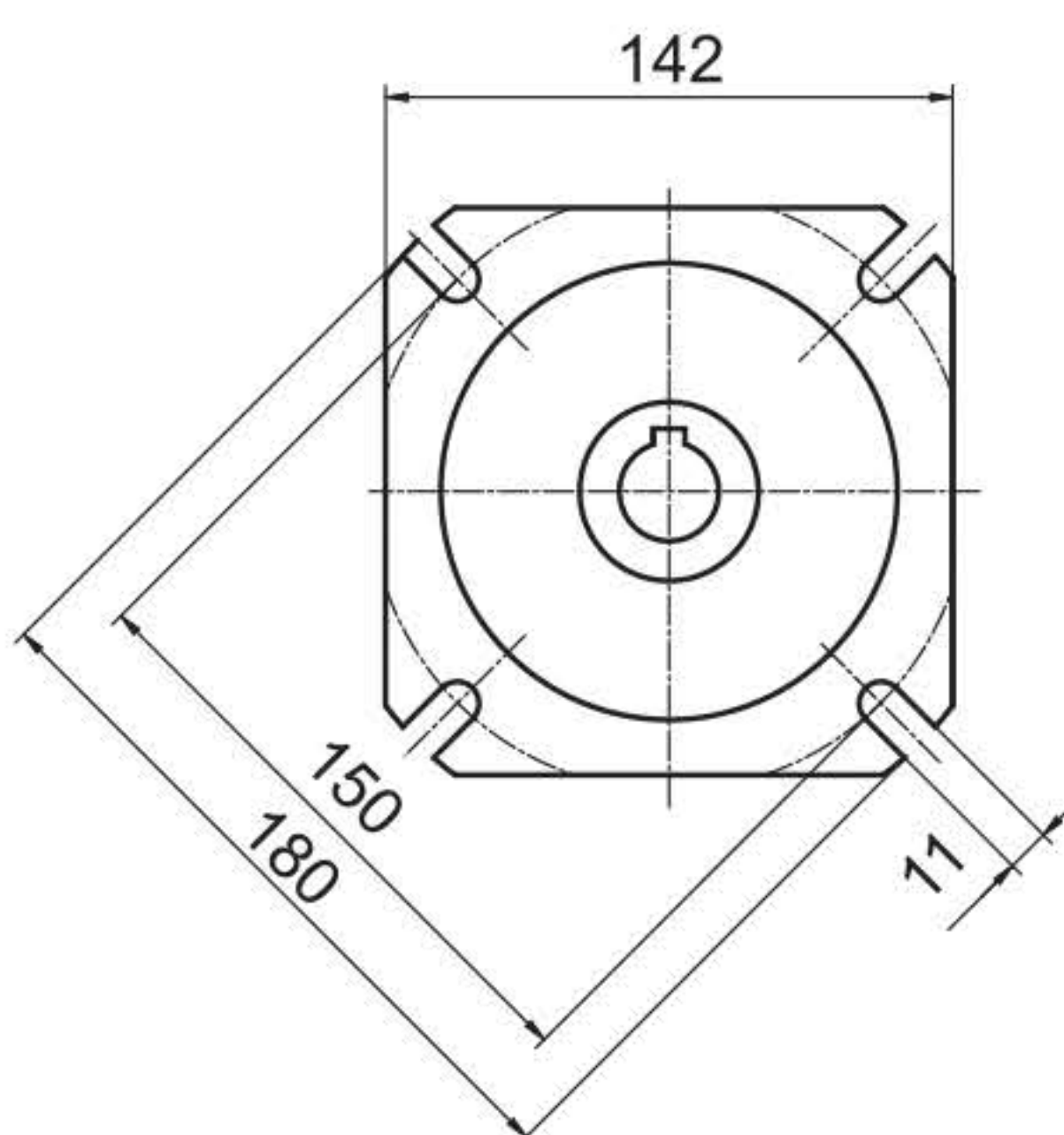
Weight without motor ≈ 3.8kg



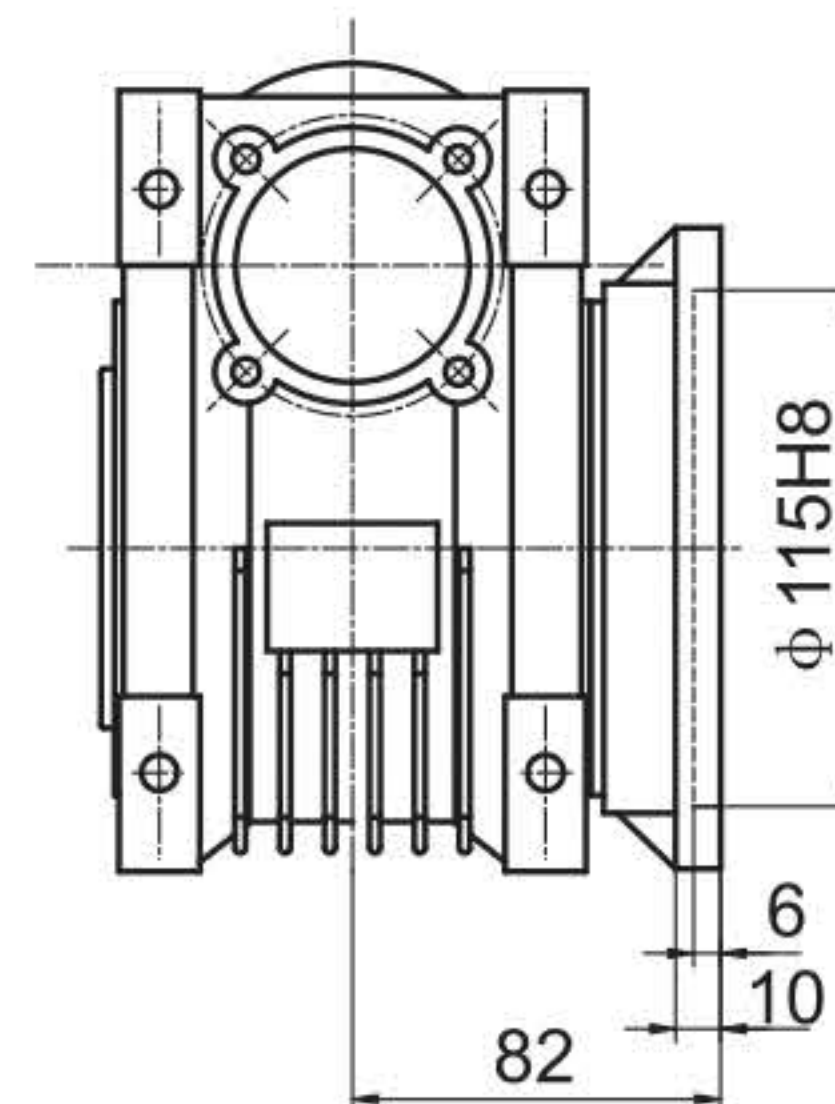
# RV63



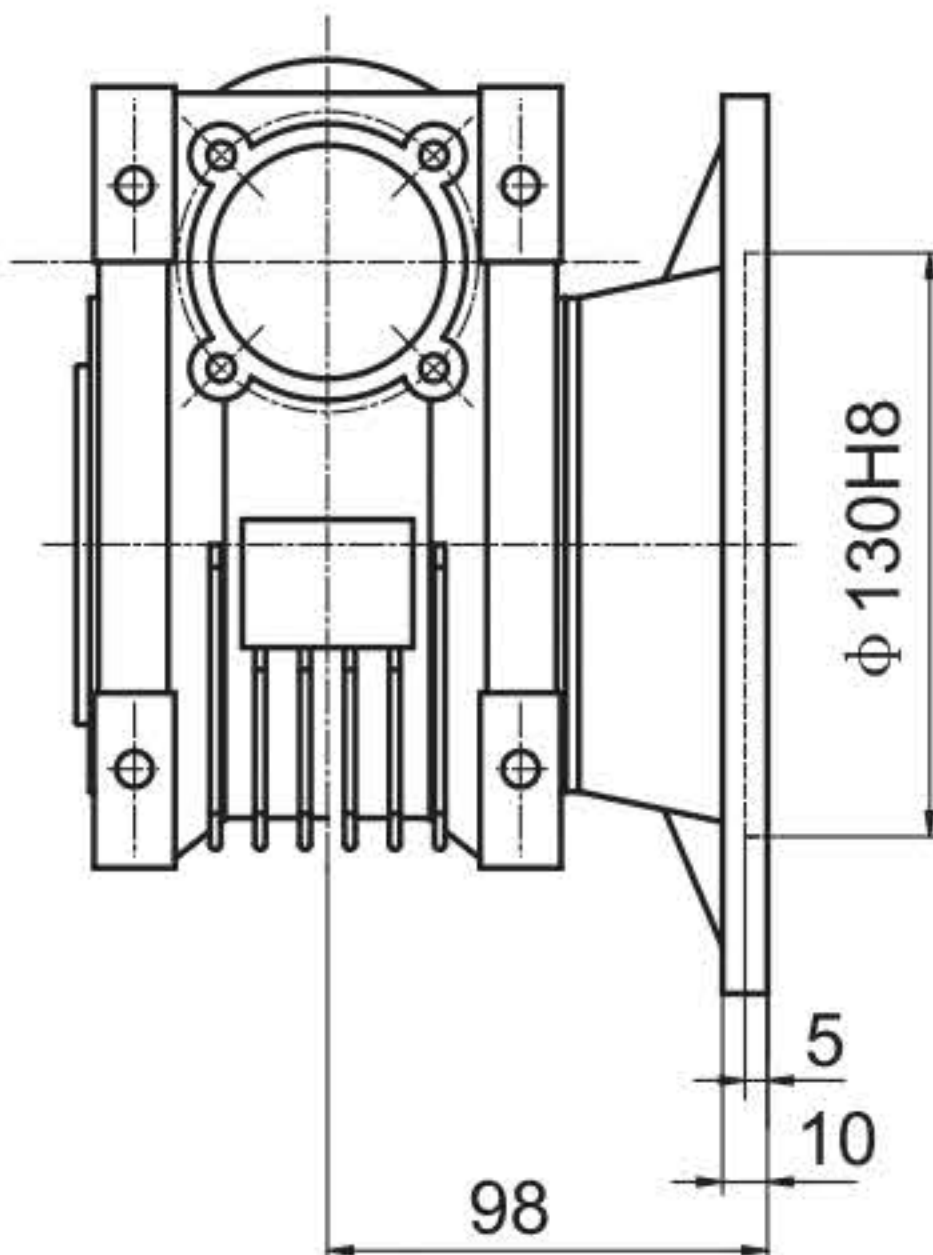
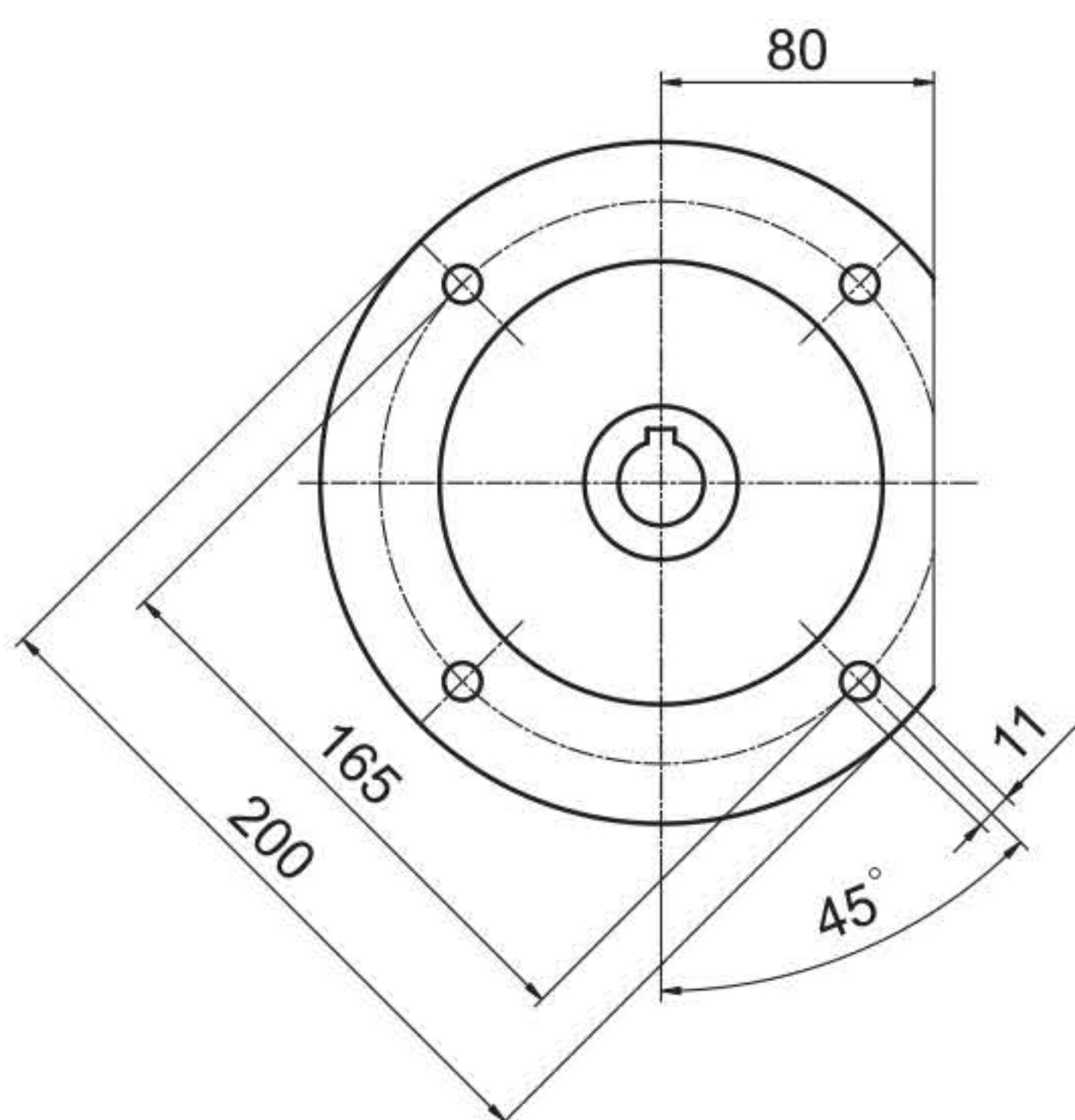
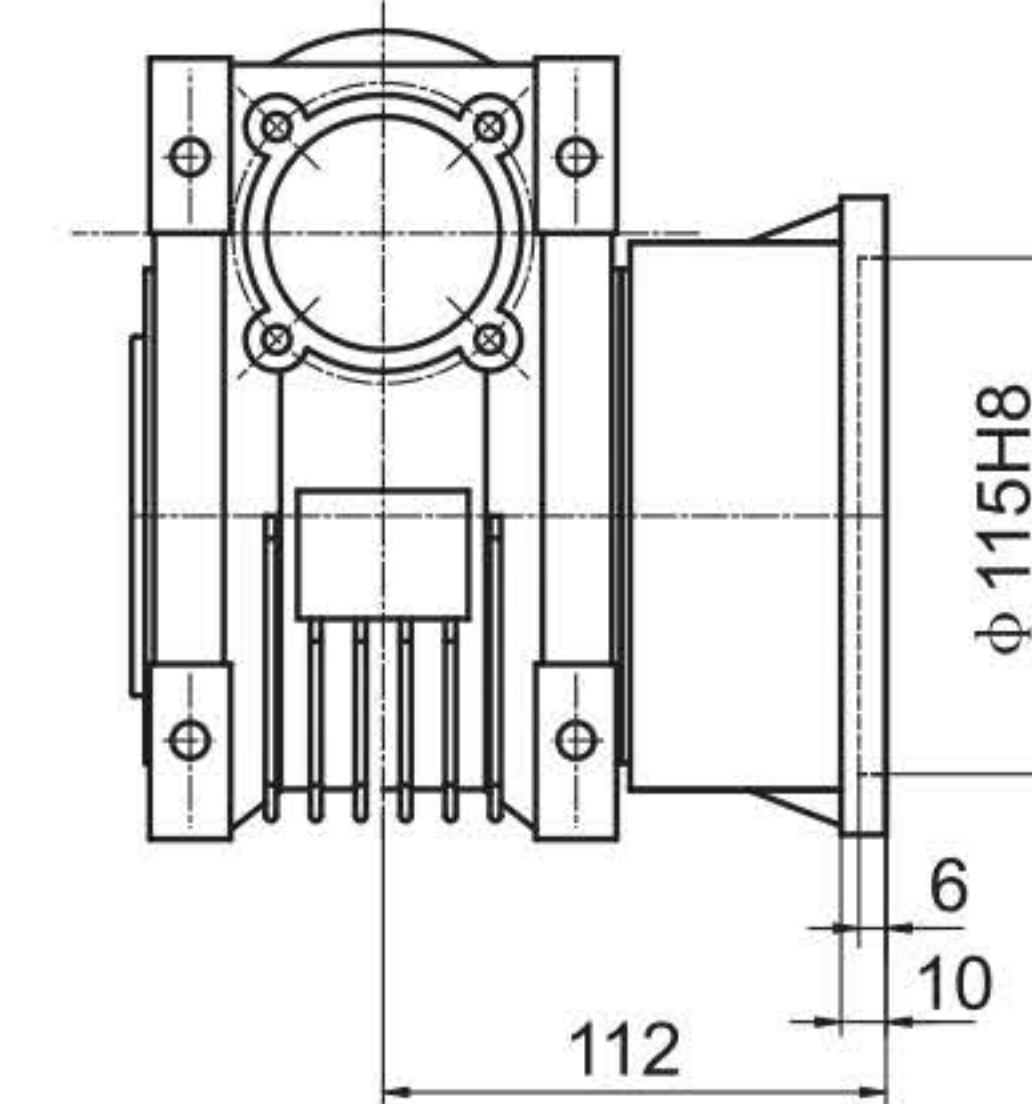
YZ



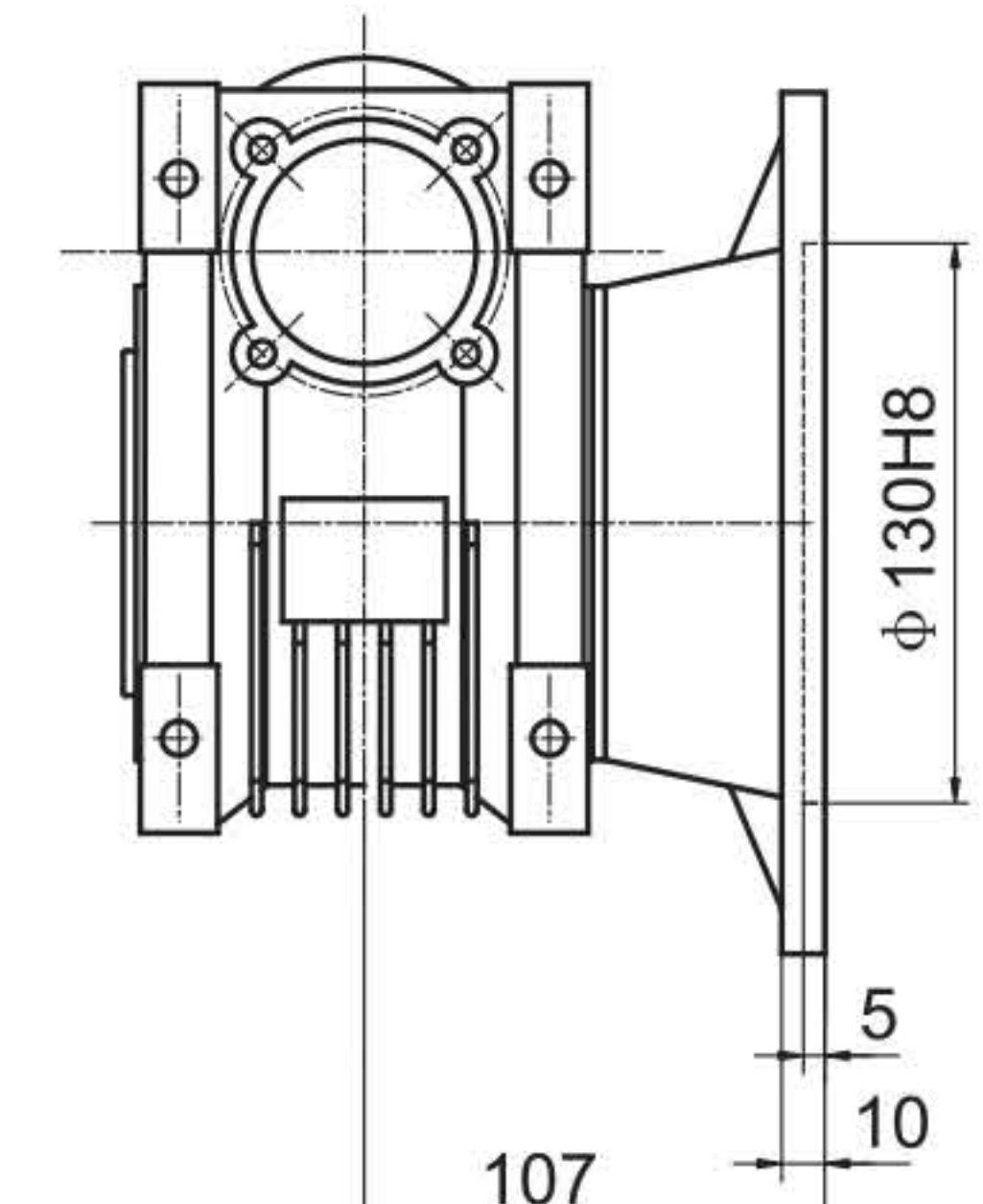
F



FL



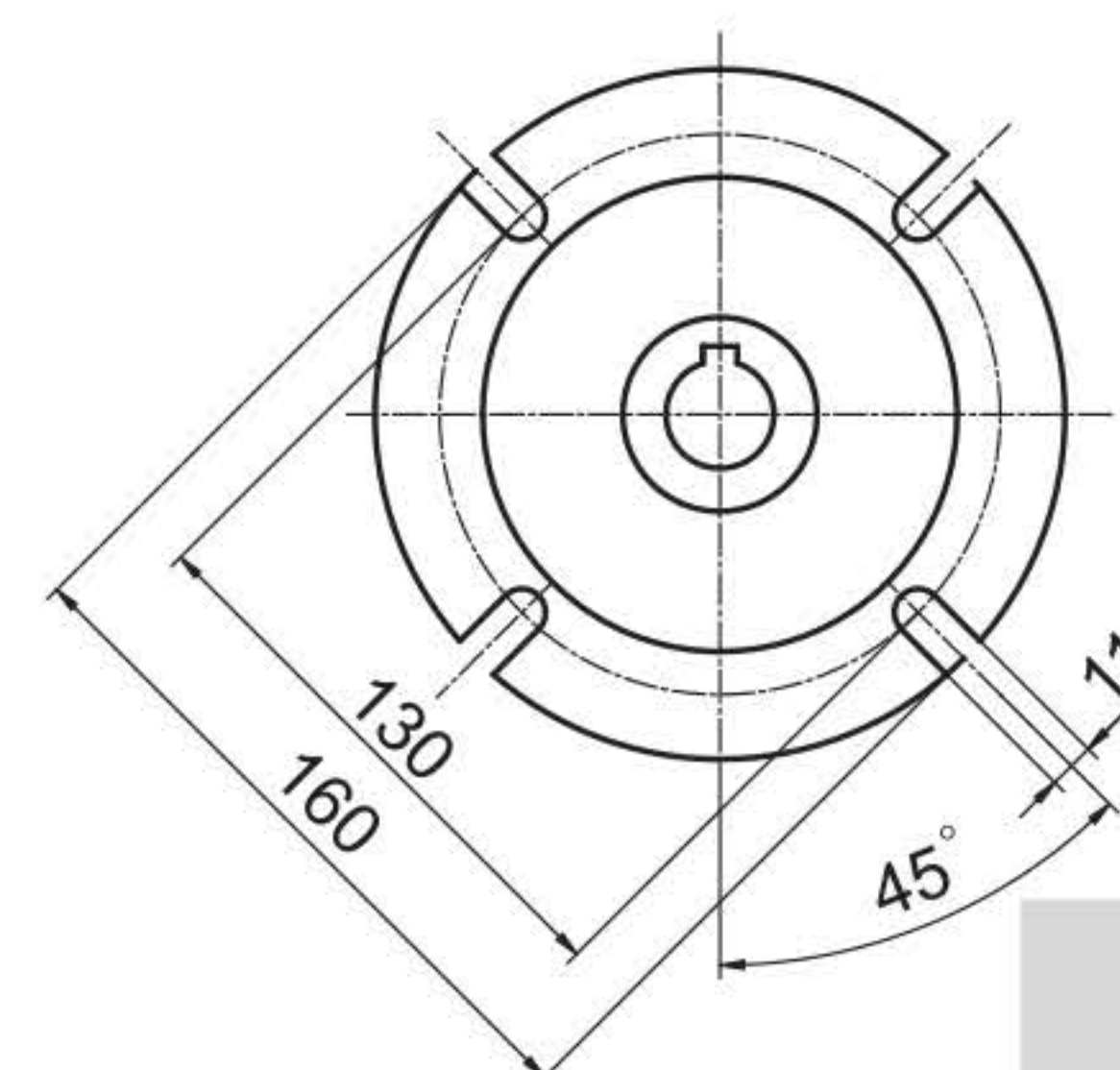
FC



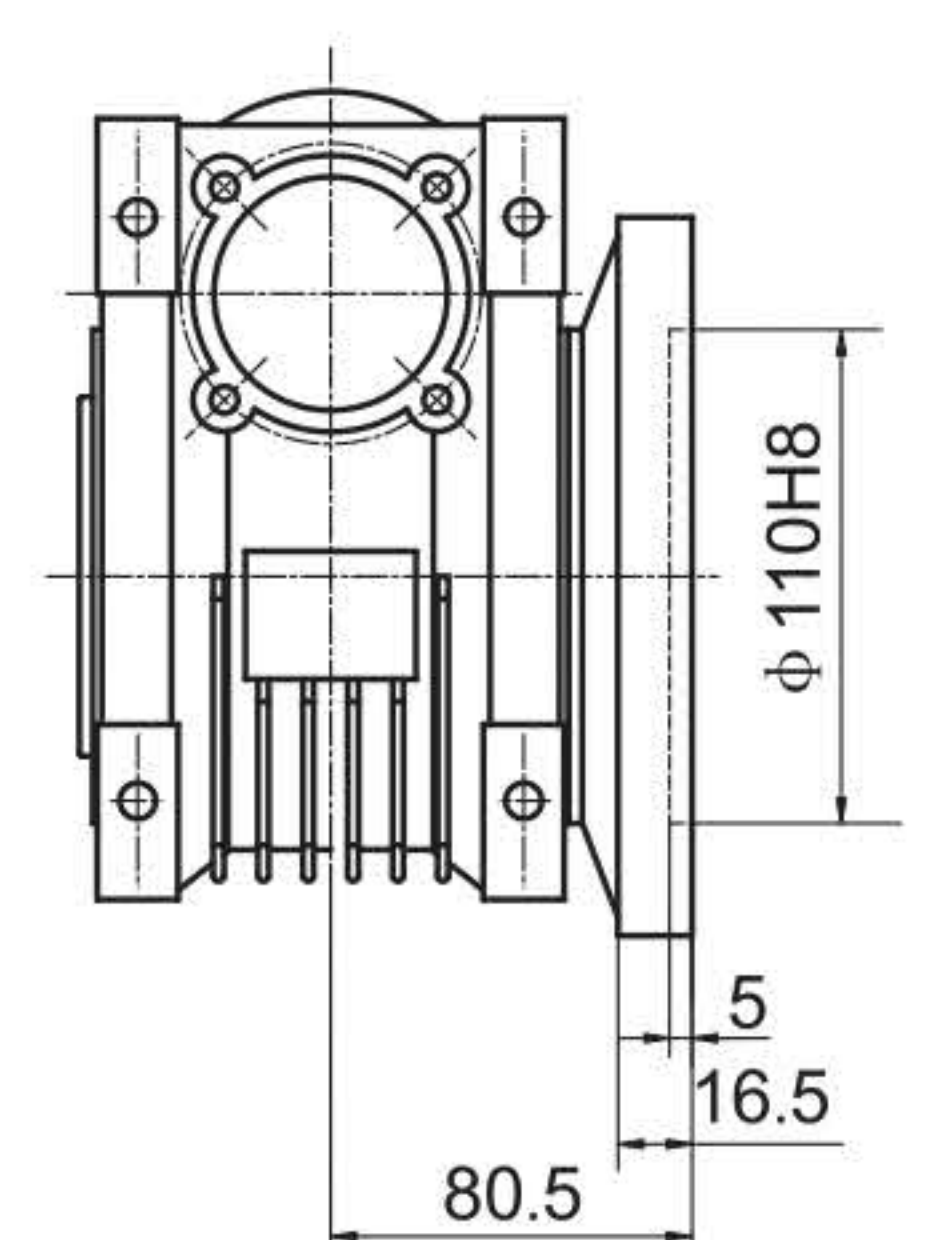
FD

Weight without motor ≈ 6.2kg

IEC	DE8	b	t	P	M	N	S	T
71B5	14	5	16.3	160	130	110	9	4
71B14	14	5	16.3	105	85	70	7	3
80B5	19	6	21.8	200	165	130	11	4
80B14	19	6	21.8	120	100	80	7	3.5
90B5	24	8	27.3	200	165	130	11	4
90B14	24	8	27.3	140	115	95	9	3.5

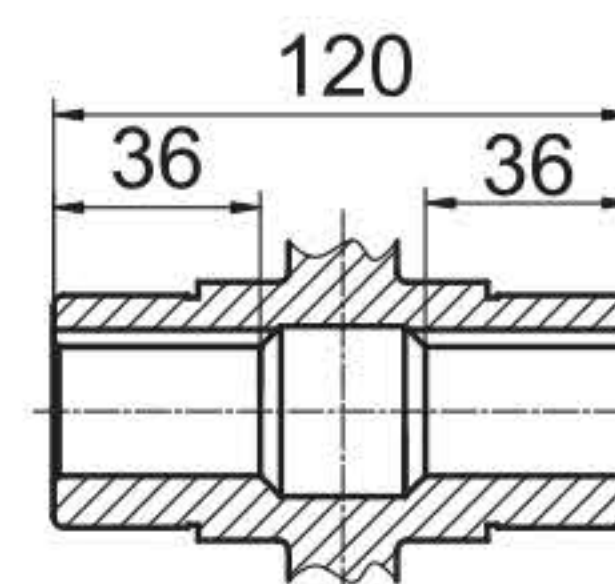
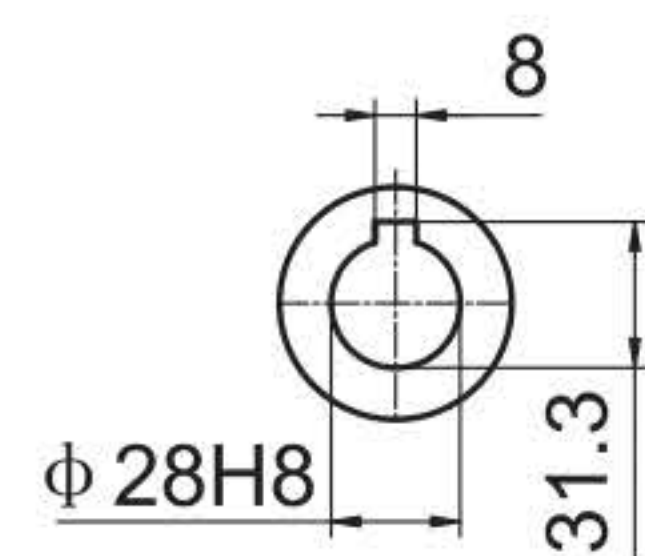
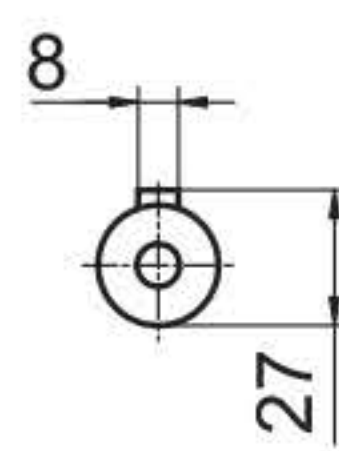
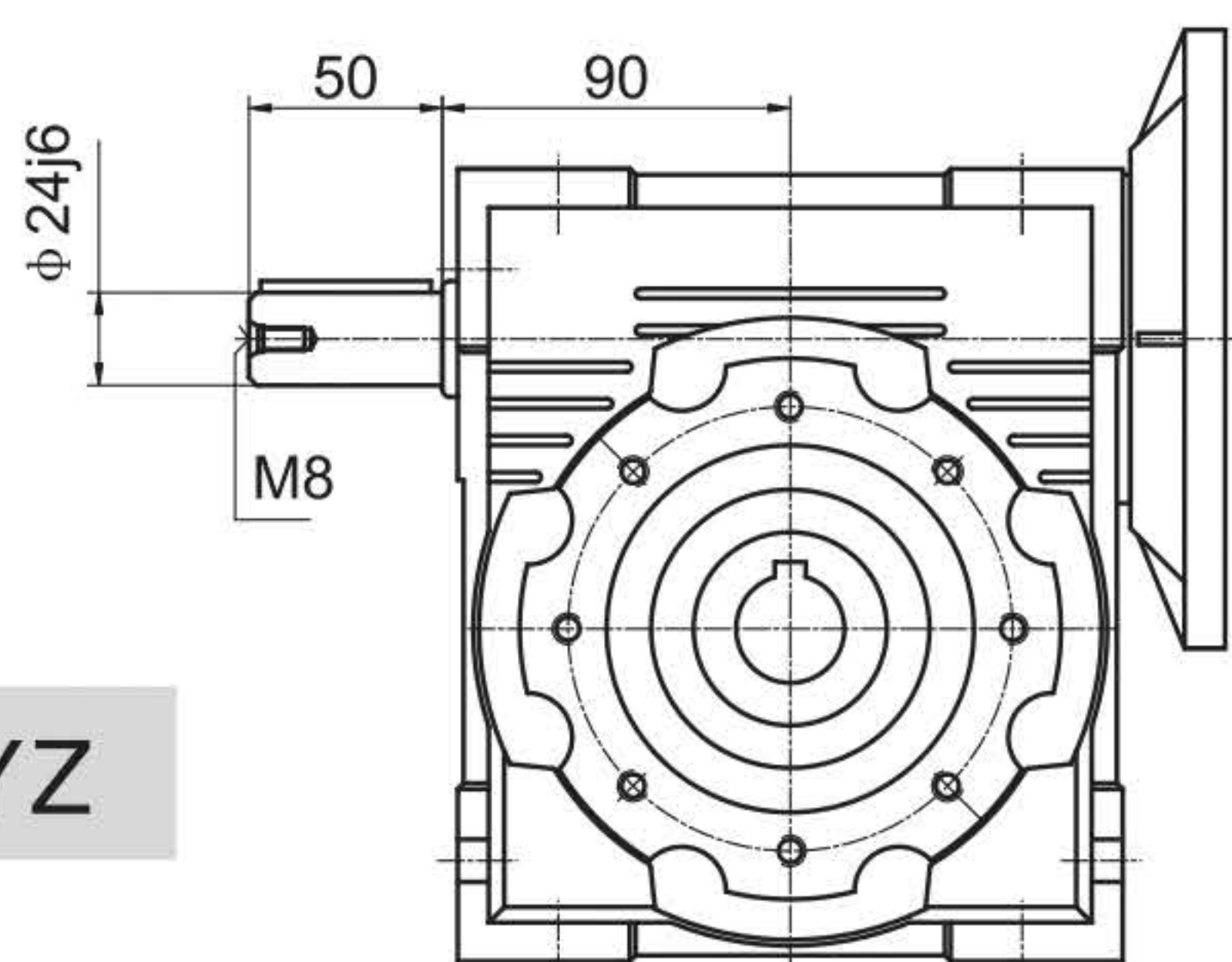
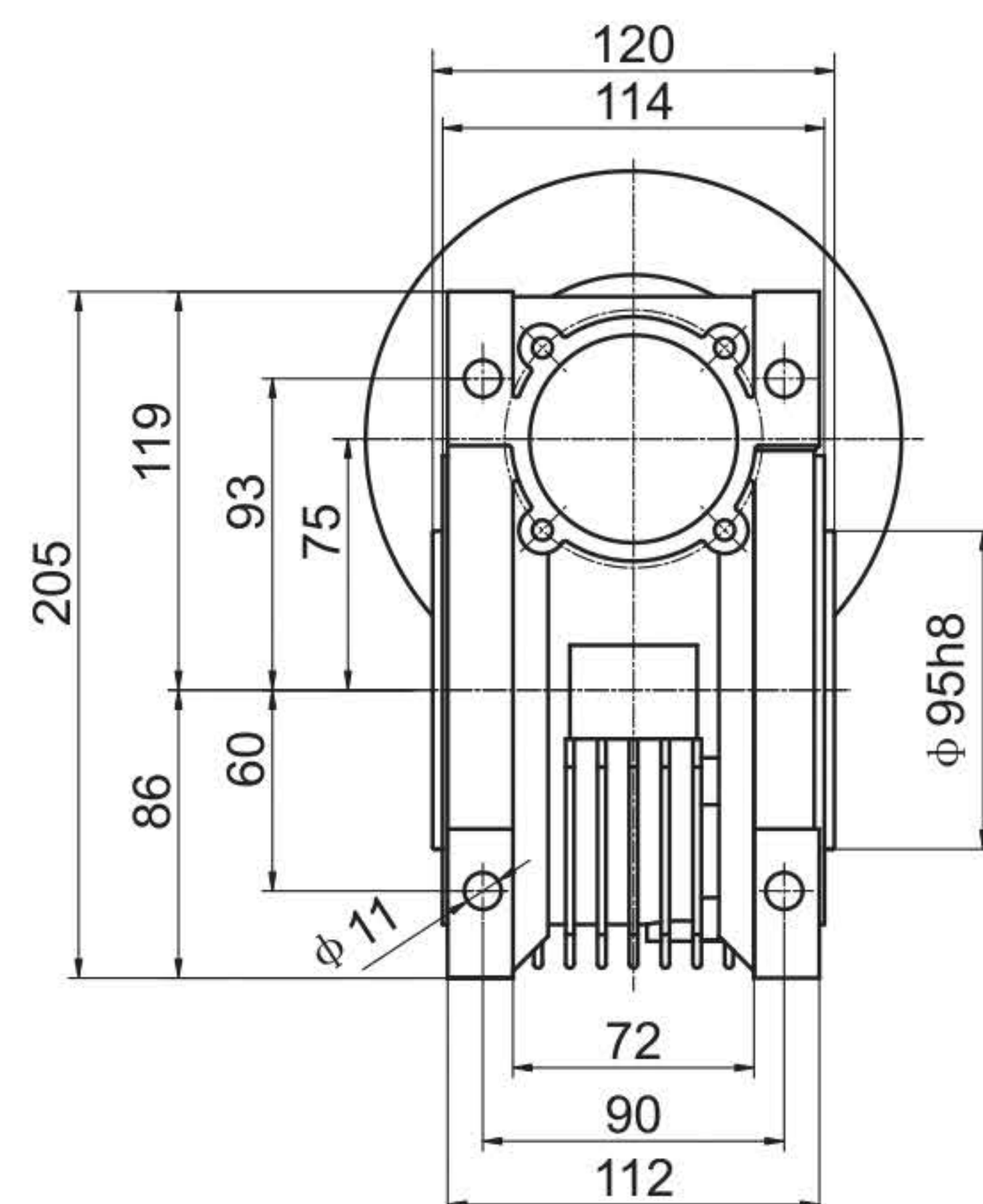
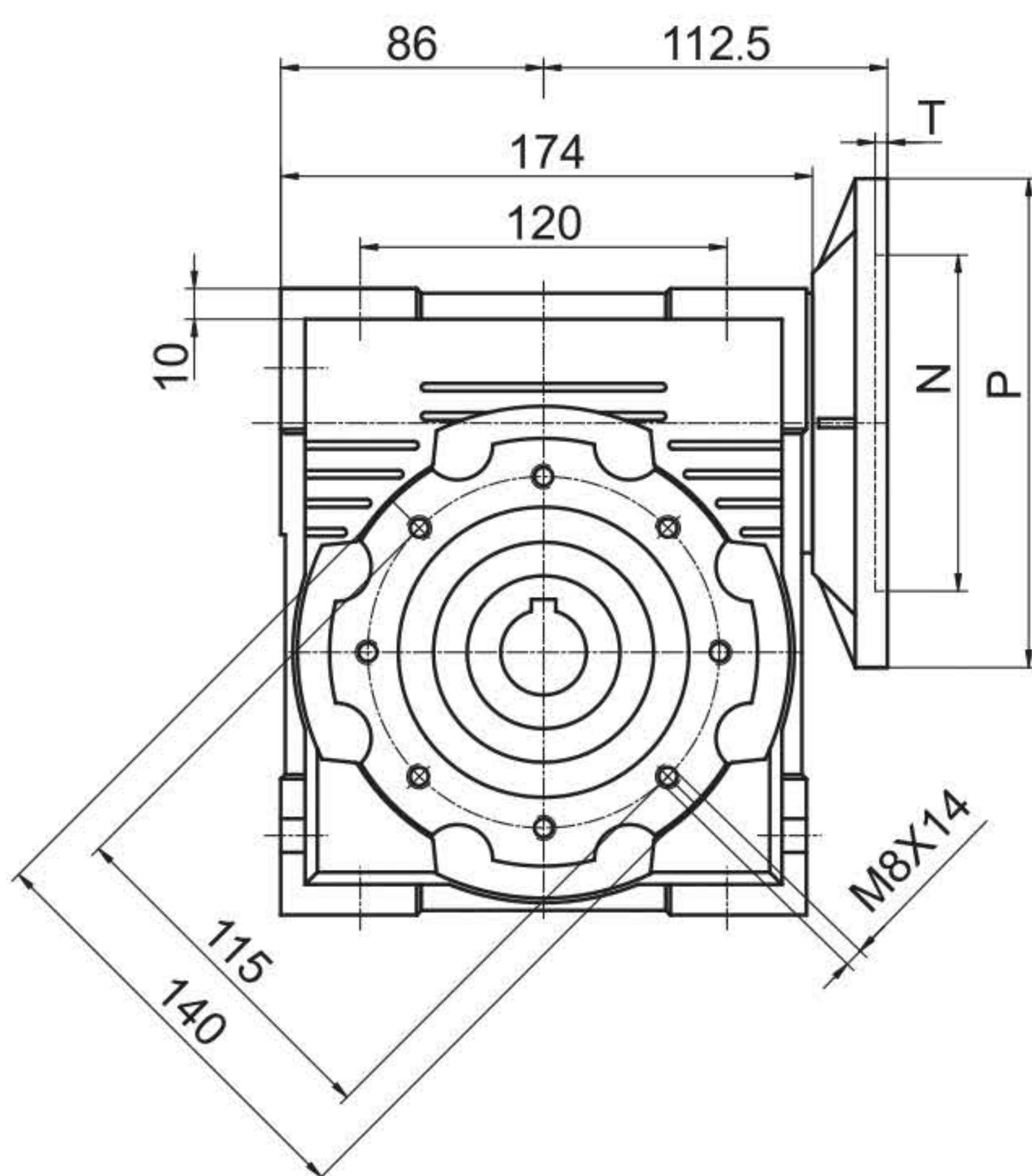
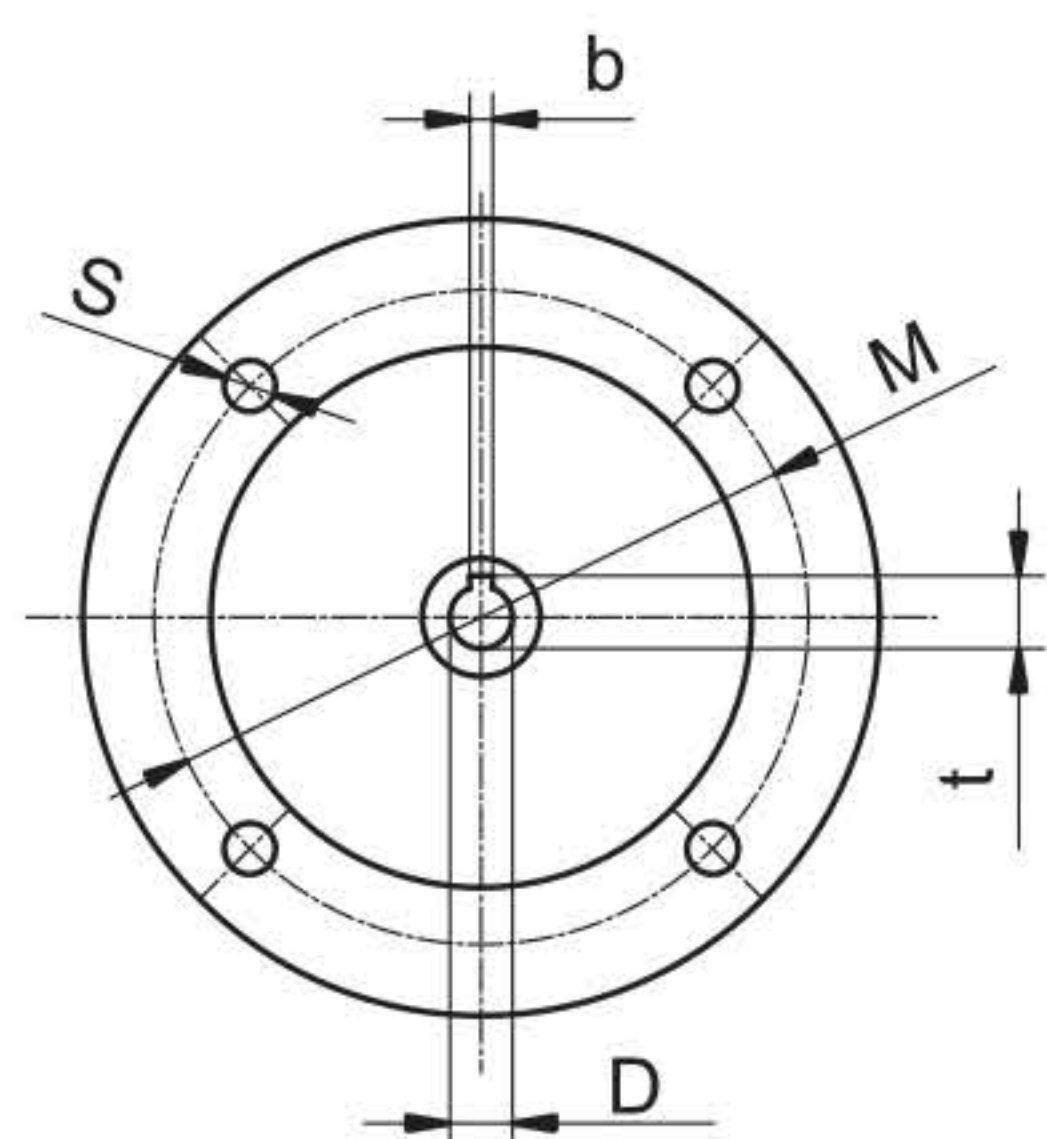


FE

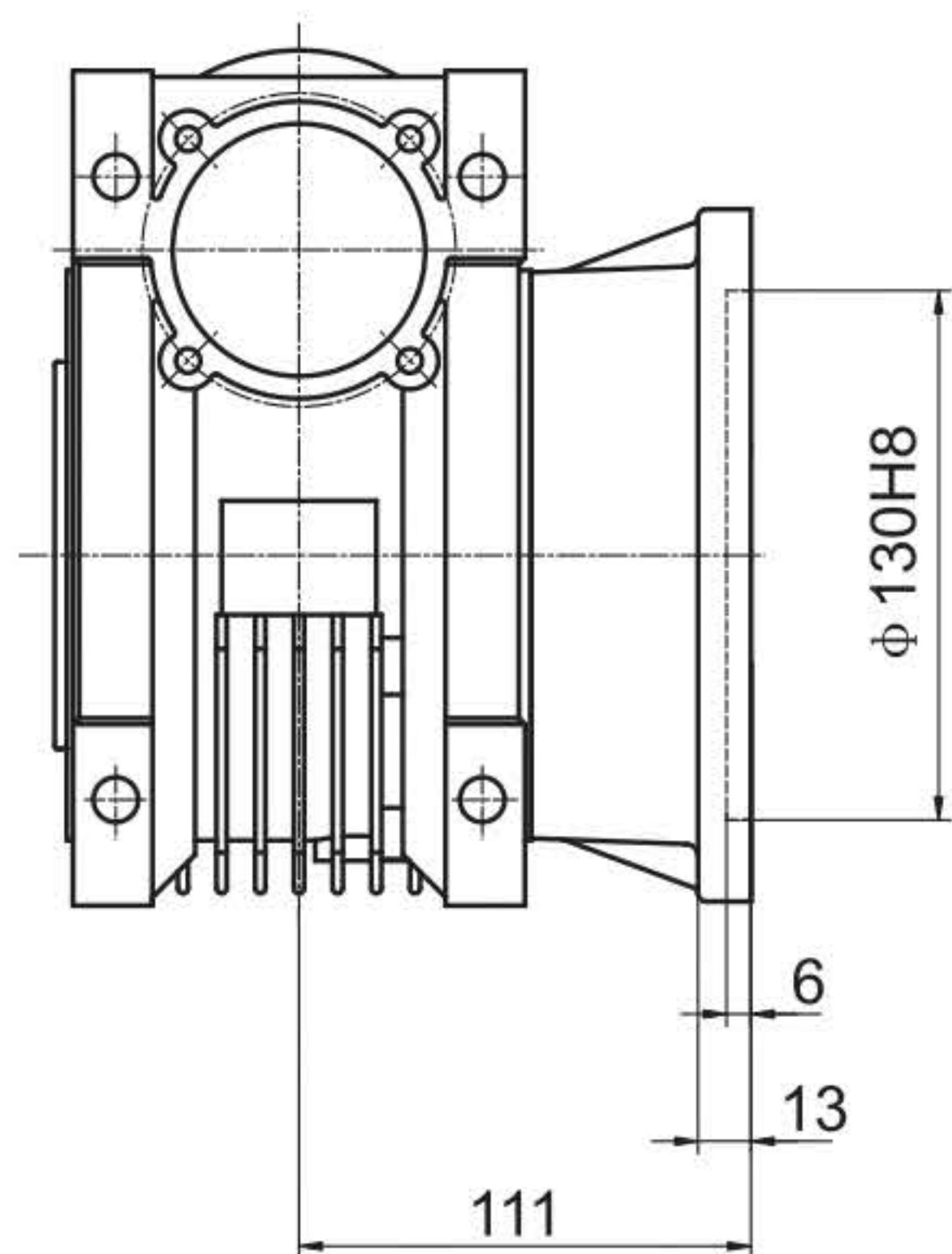
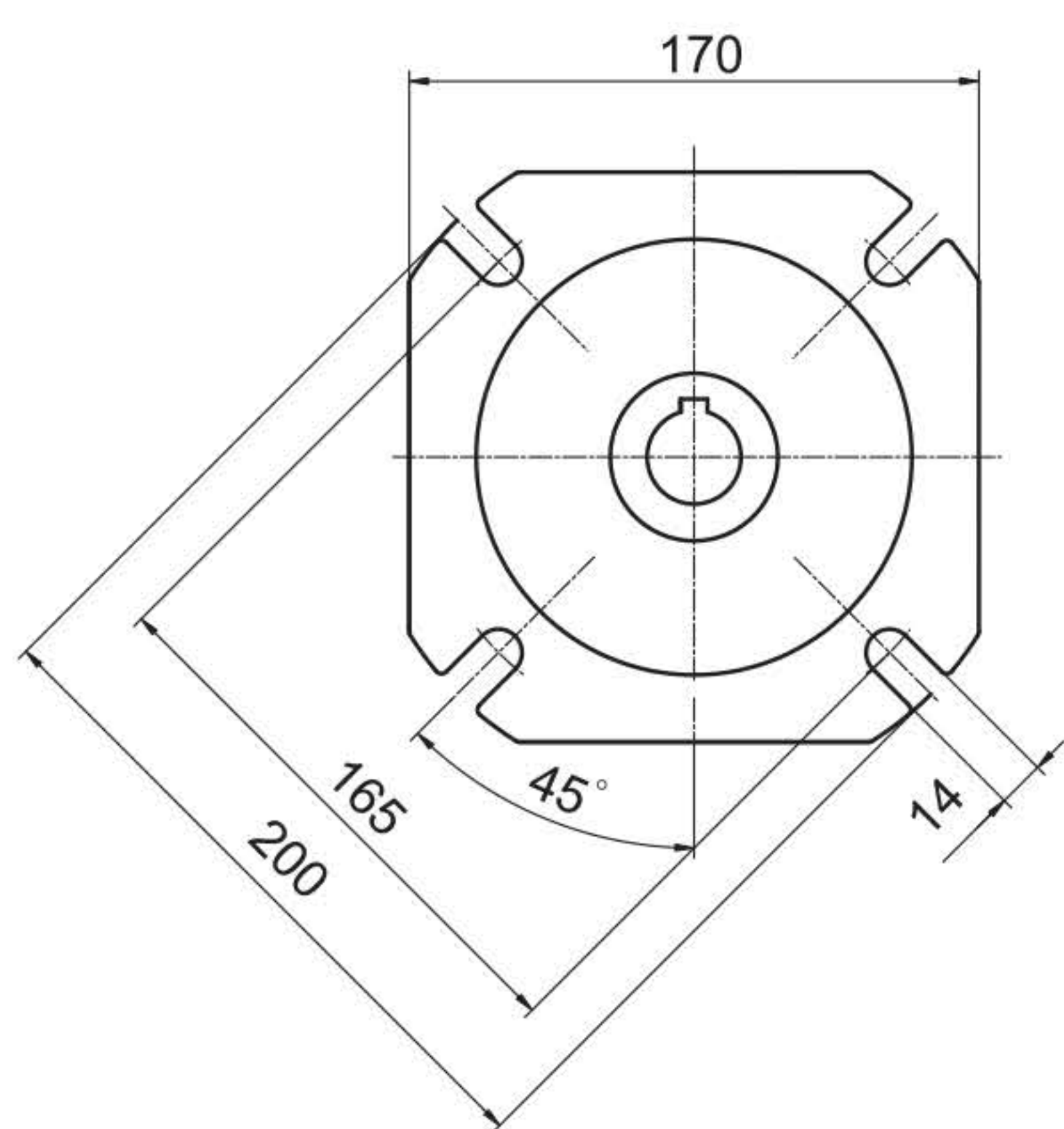




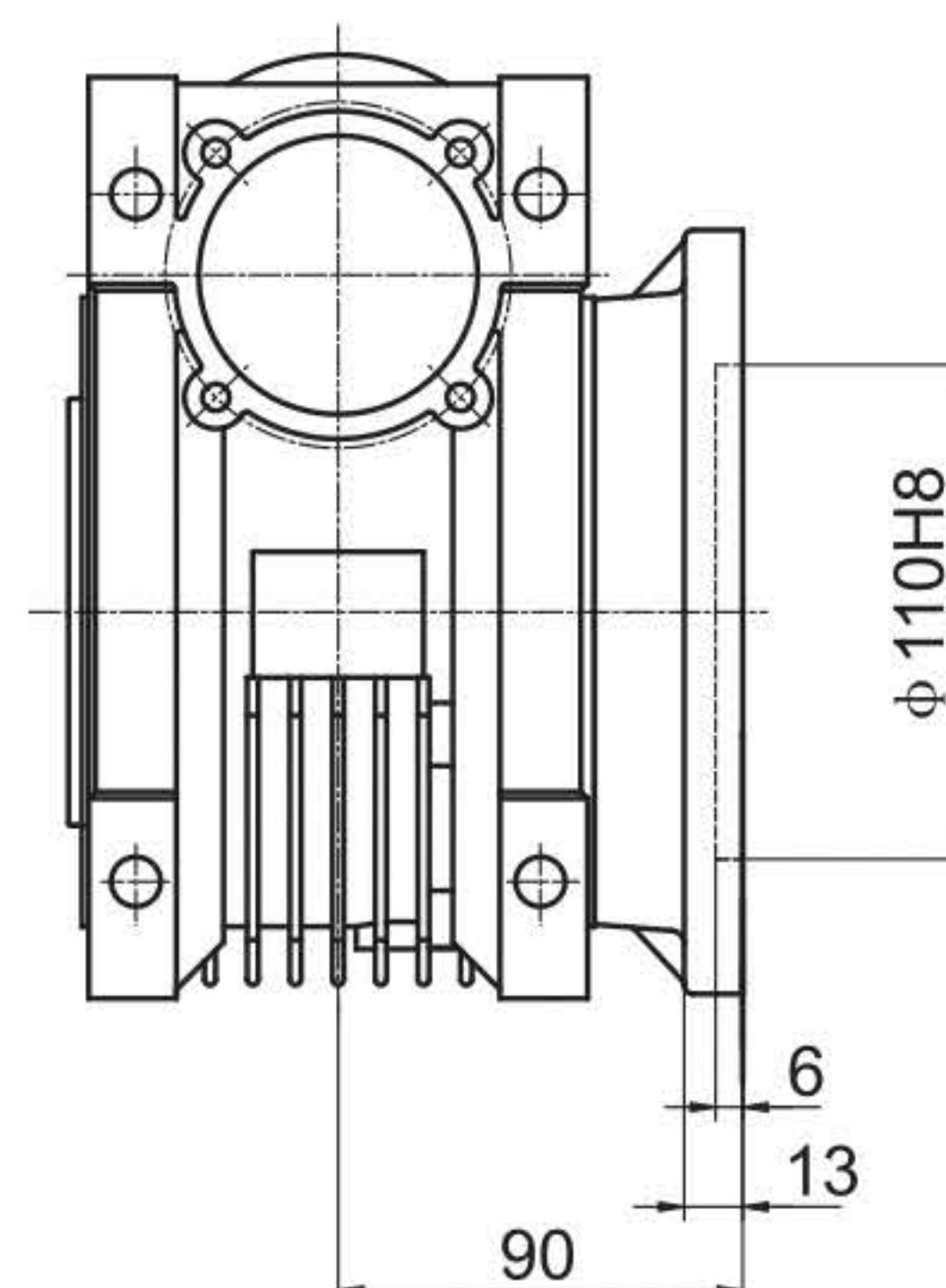
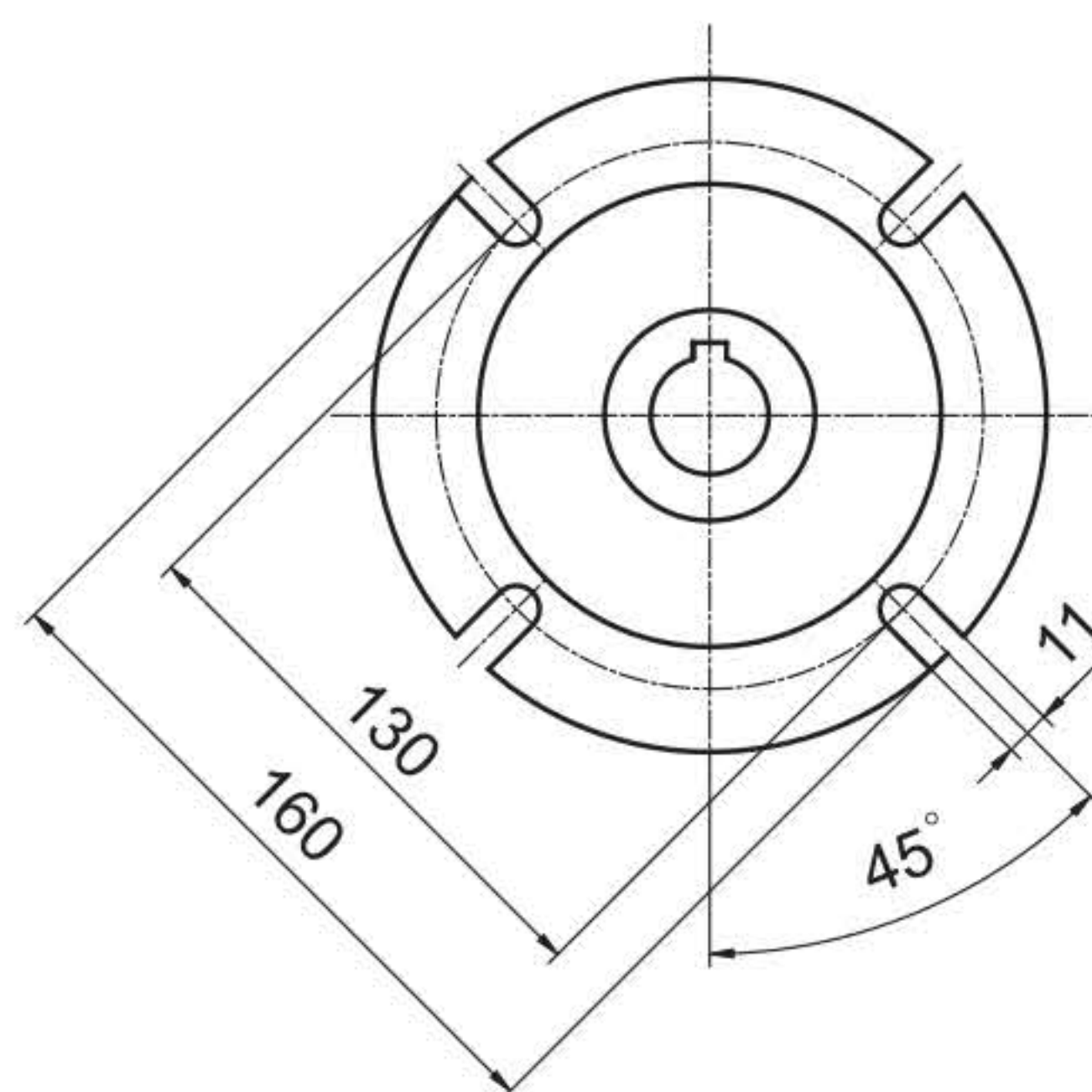
RV75



YZ



F



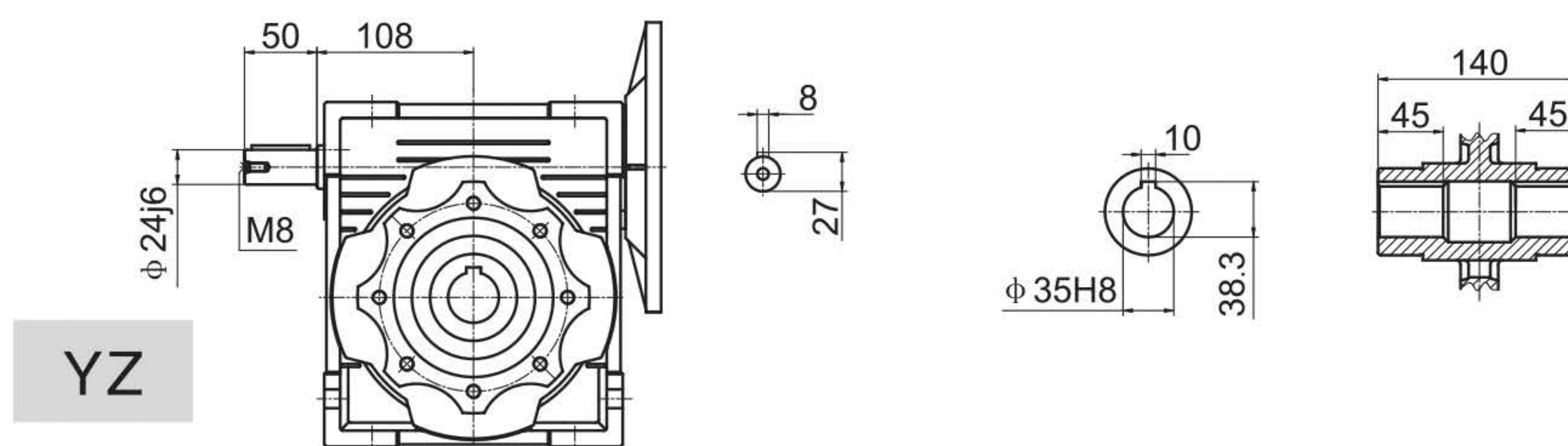
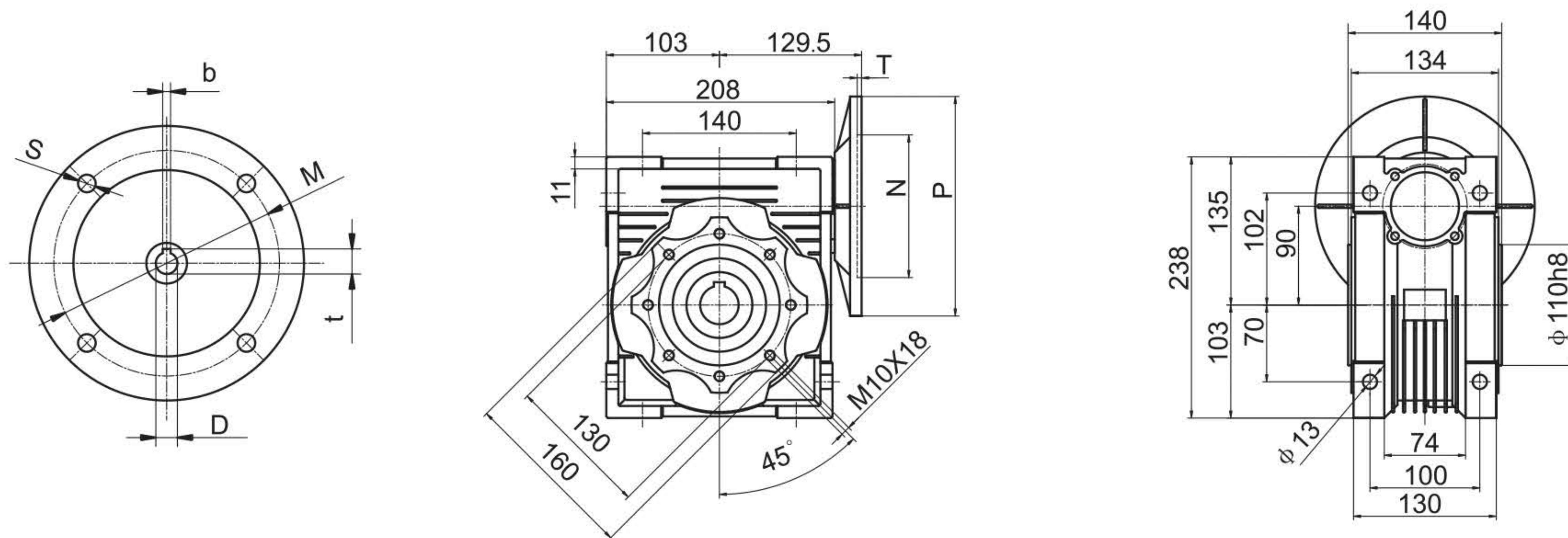
FB

IEC	DE8	b	t	P	M	N	S	T
80B5	19	6	21.8	200	165	130	11	4
80B14	19	6	21.8	120	100	80	6.5	3.5
90B5	24	8	27.3	200	165	130	11	4
90B14	24	8	27.3	140	115	95	9	3.5
100/112B5	28	8	31.3	250	215	180	13.5	4
100/112B14	28	8	31.3	160	130	110	9	4.5

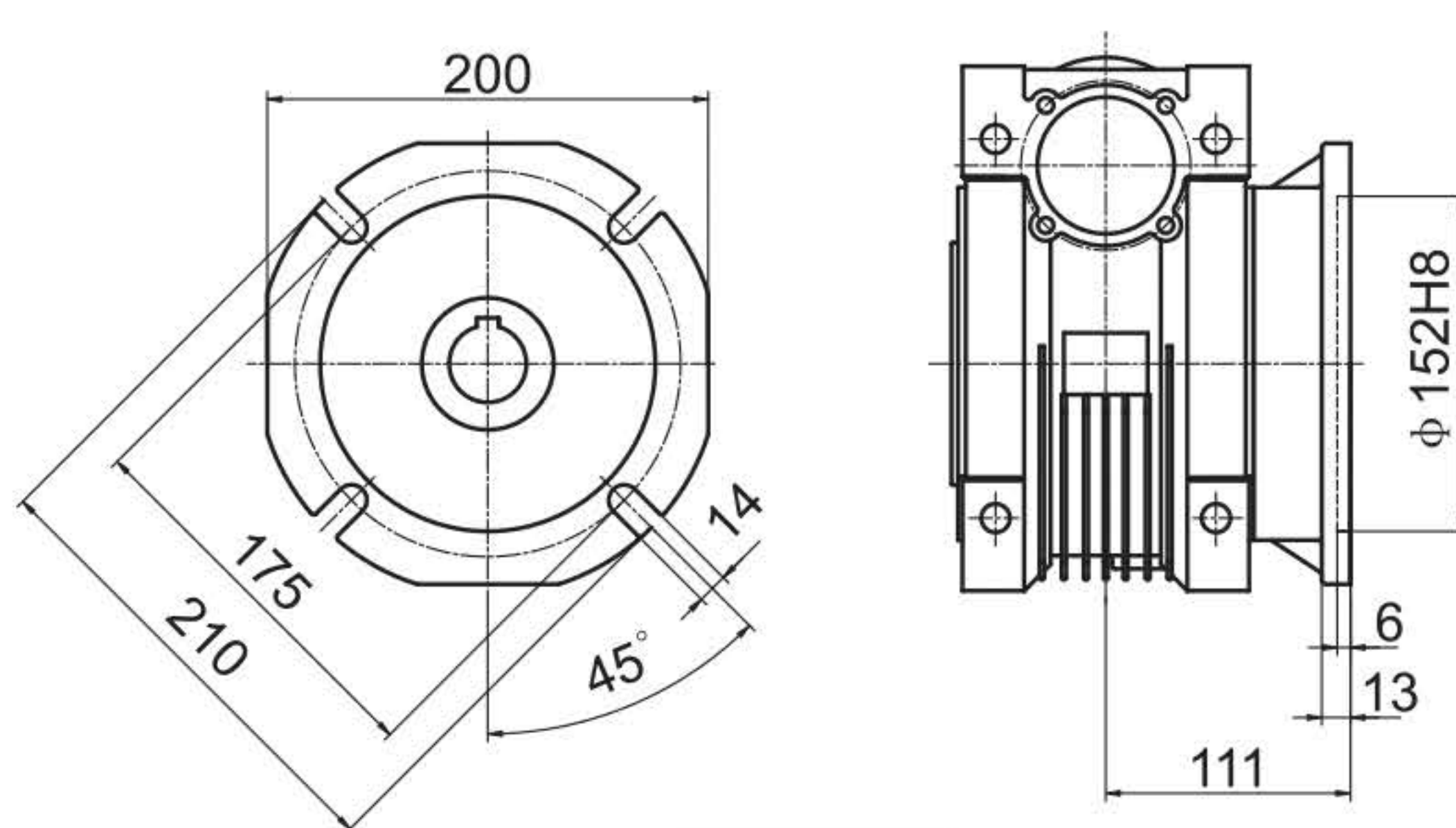
Weight without motor ≈ 9kg



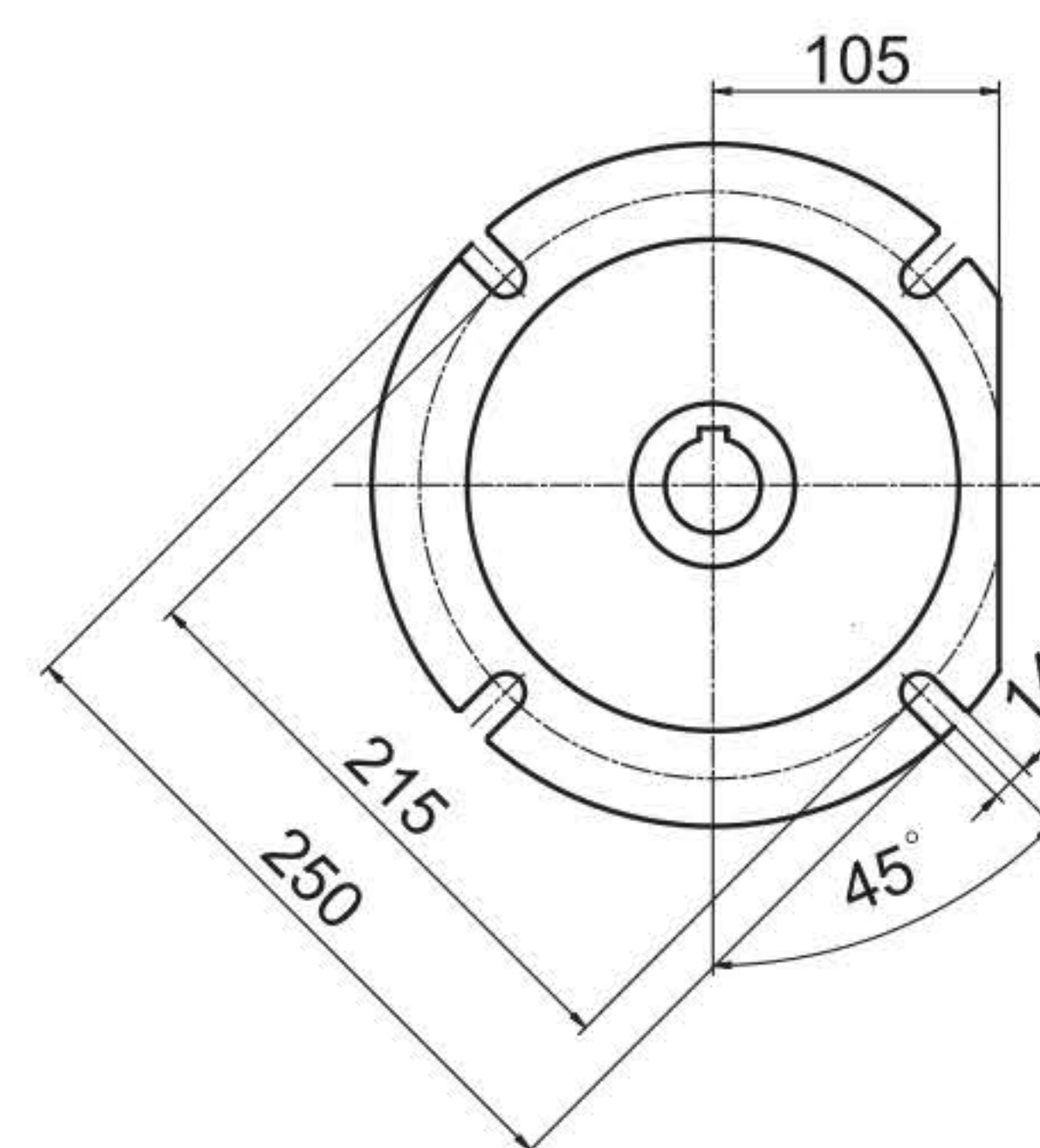
## RV90



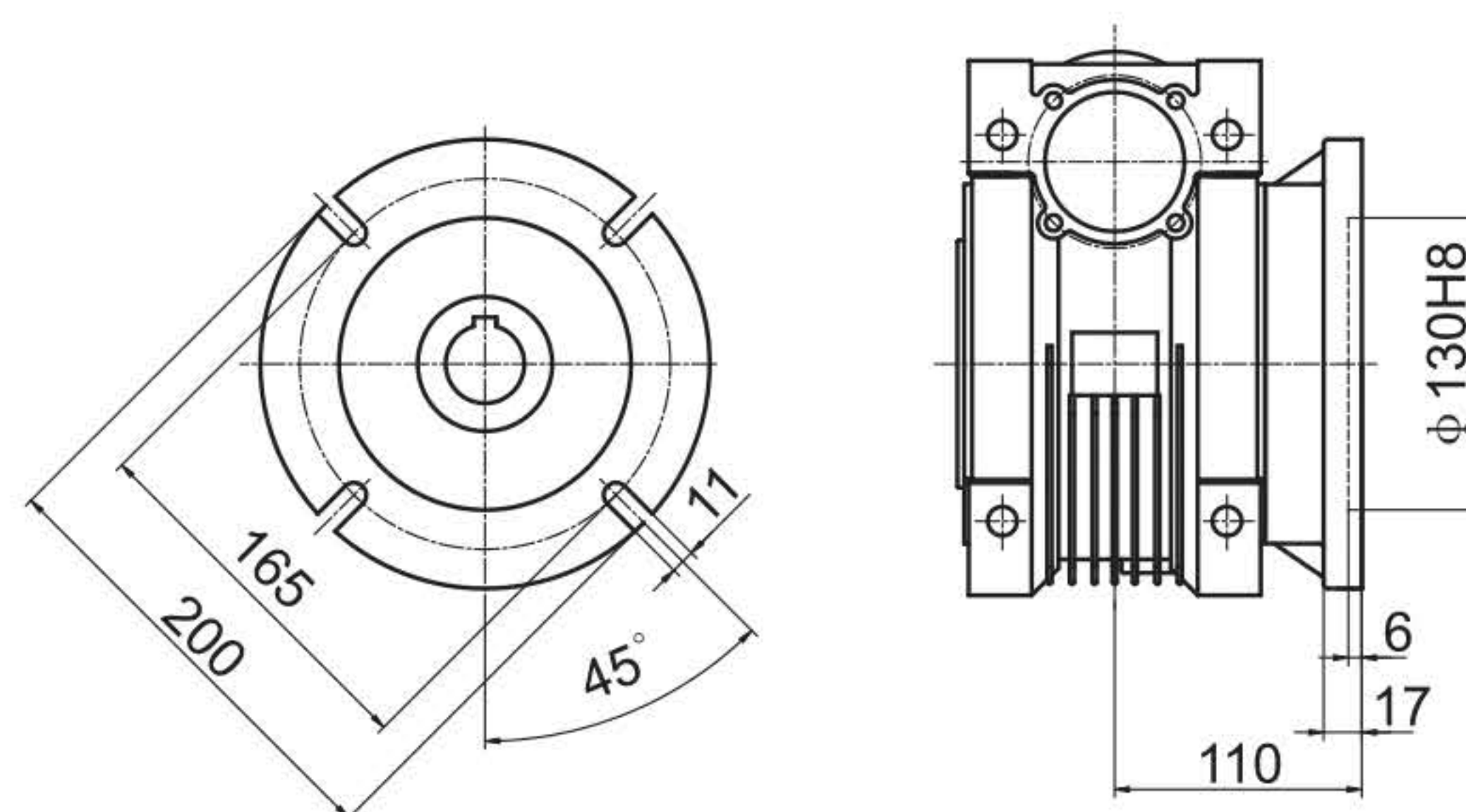
YZ



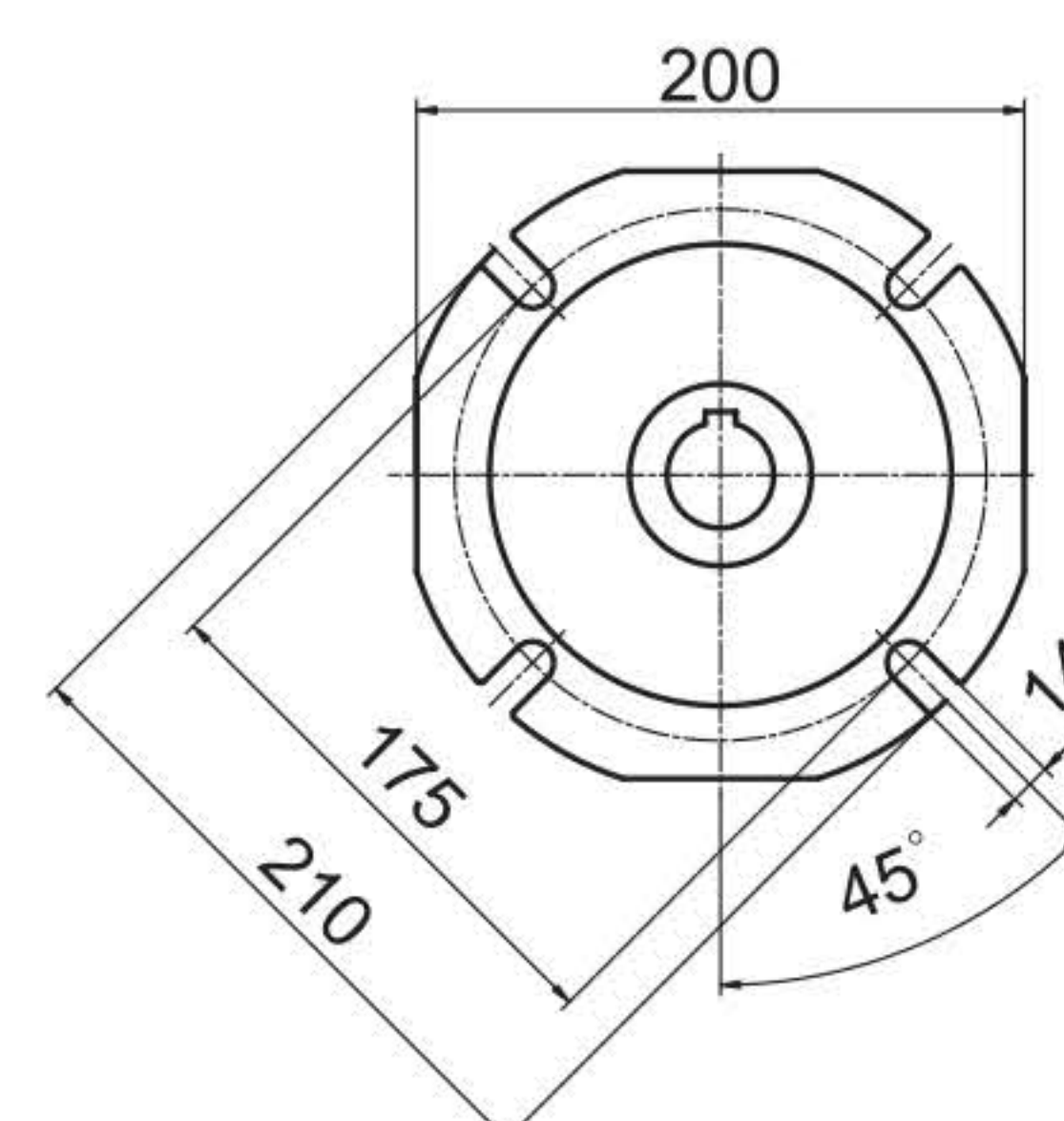
F



FB



FC



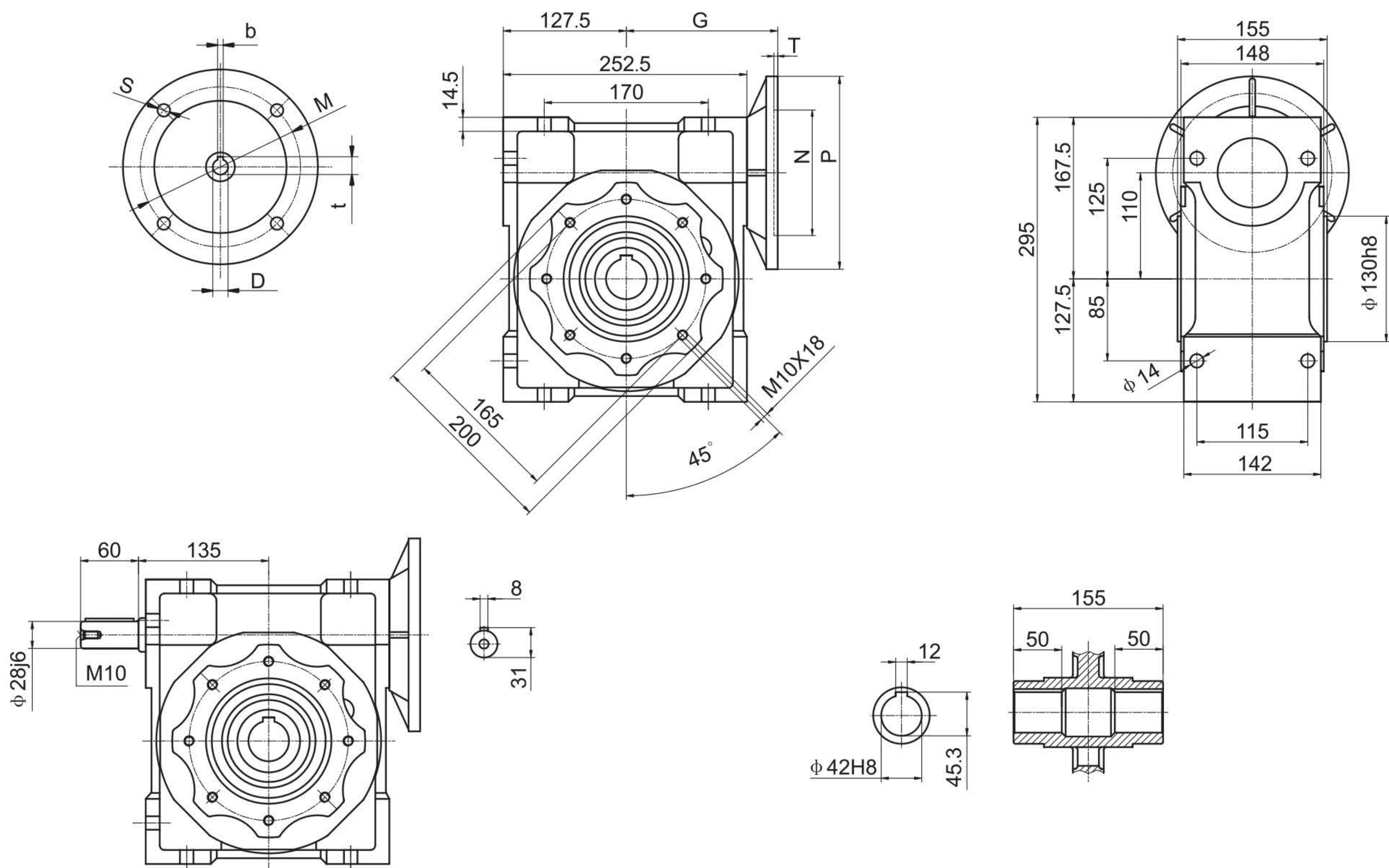
FD

IEC	DE8	b	t	P	M	N	S	T
80B5	19	6	21.8	200	165	130	11	4
80B14	19	6	21.8	120	100	80	6.5	3.5
90B5	24	8	27.3	200	165	130	11	4
90B14	24	8	27.3	140	115	95	9	3.5
100/112B5	28	8	31.3	250	215	180	13.5	4
100/112B14	28	8	31.3	160	130	110	9	4.5

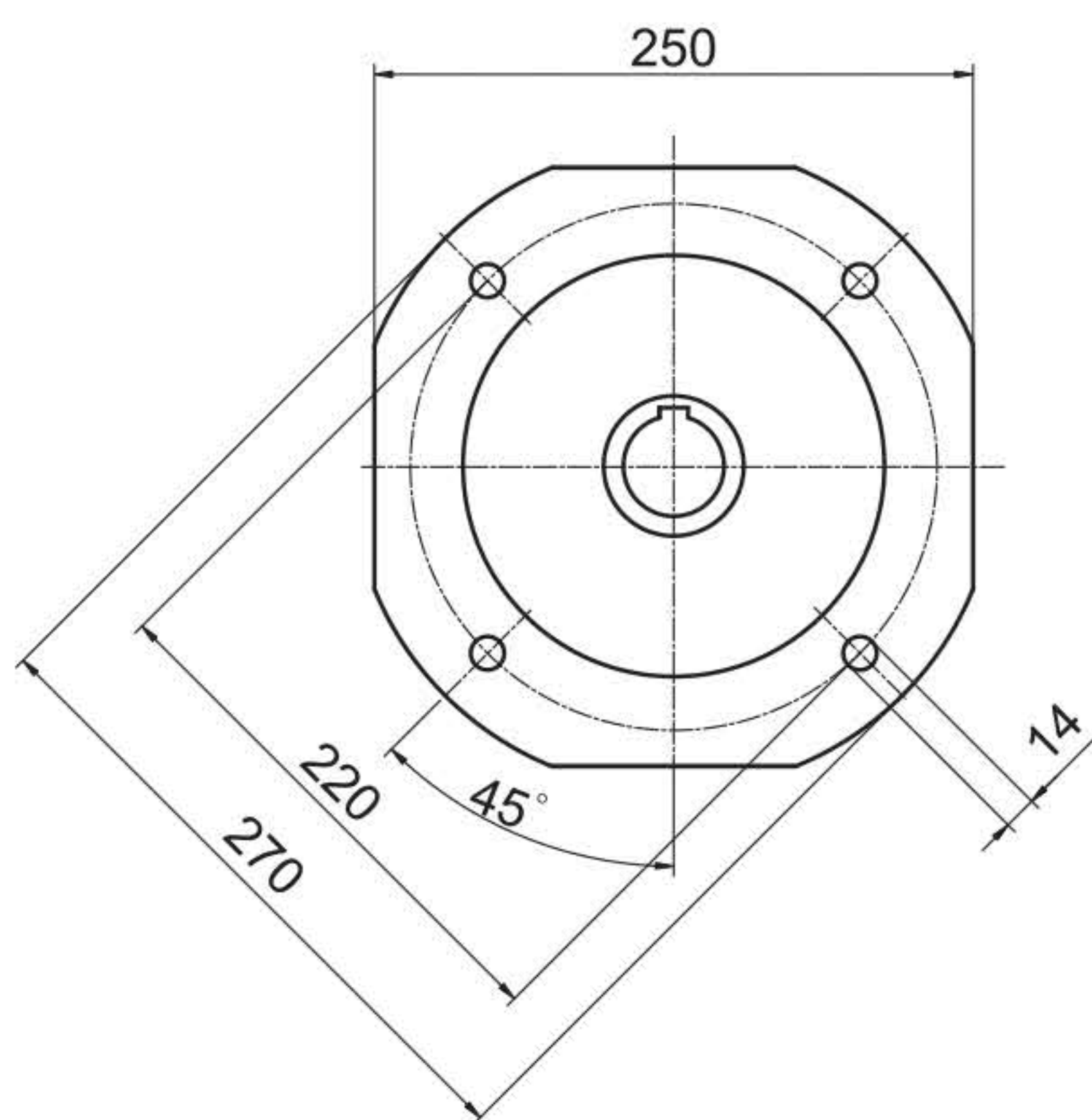
Weight without motor  $\approx 12\text{kg}$



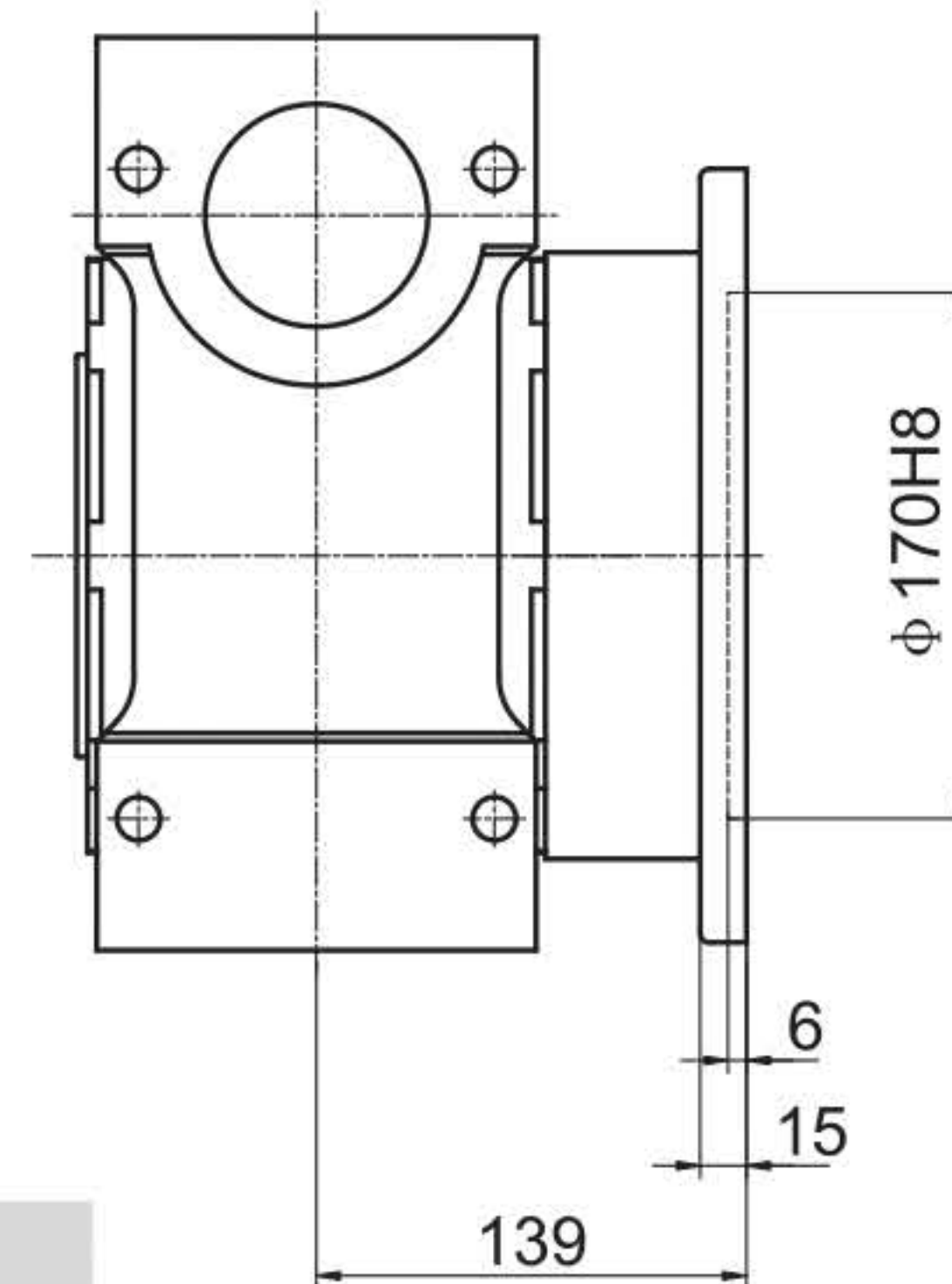
## RV110



## YZ

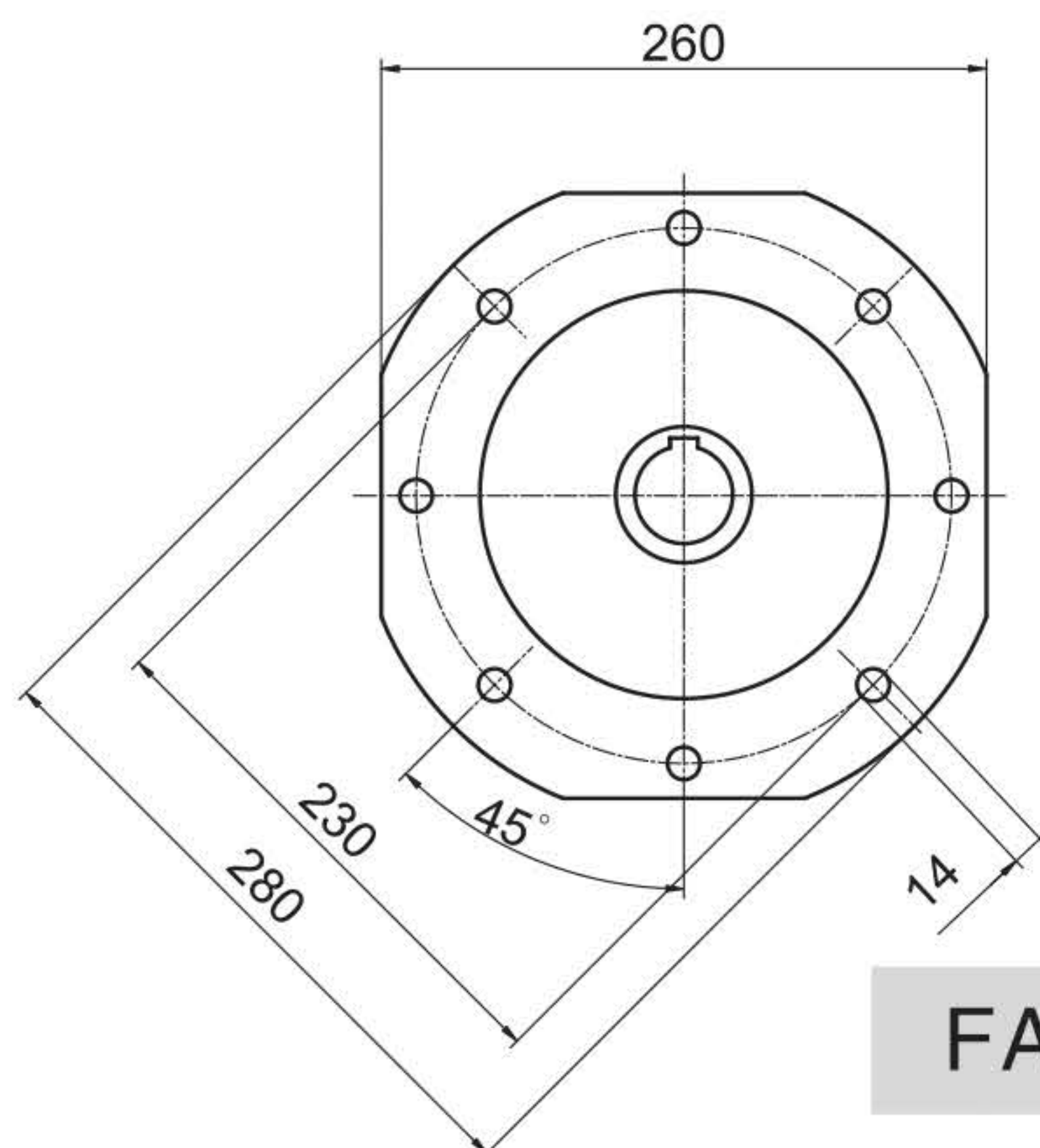


## F

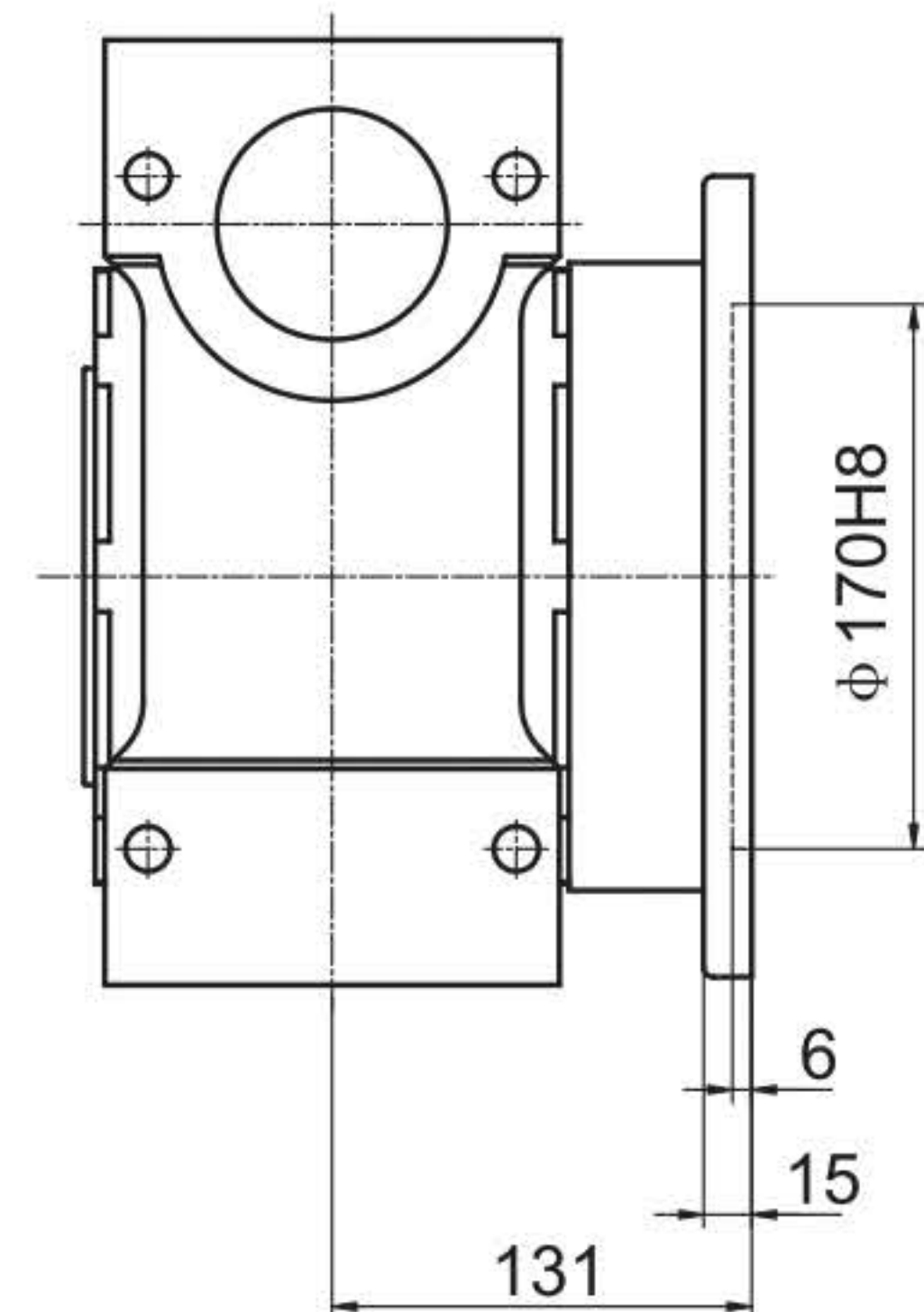


Weight without motor ≈ 38kg

IEC	DE8	b	t	P	M	N	S	T	G
90B5	24	8	27.3	200	165	130	11	4	157
90B14	24	8	27.3	140	115	95	9	3.5	157
100/112B5	28	8	31.3	250	215	180	13.5	4	155
100/112B14	28	8	31.3	160	130	110	9	4.5	155
132B5	38	10	41.3	300	265	230	13.5	4.5	159

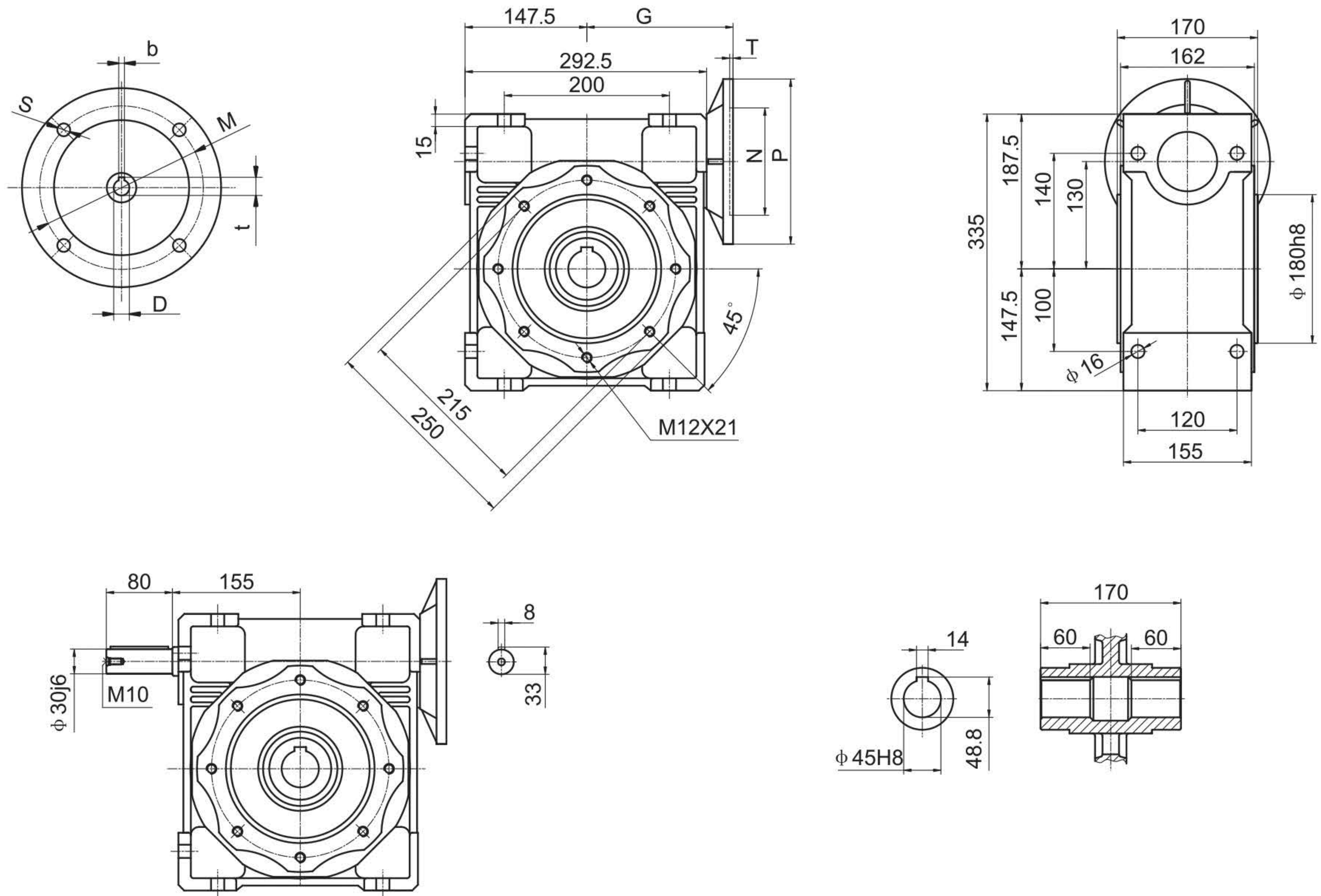


## FA

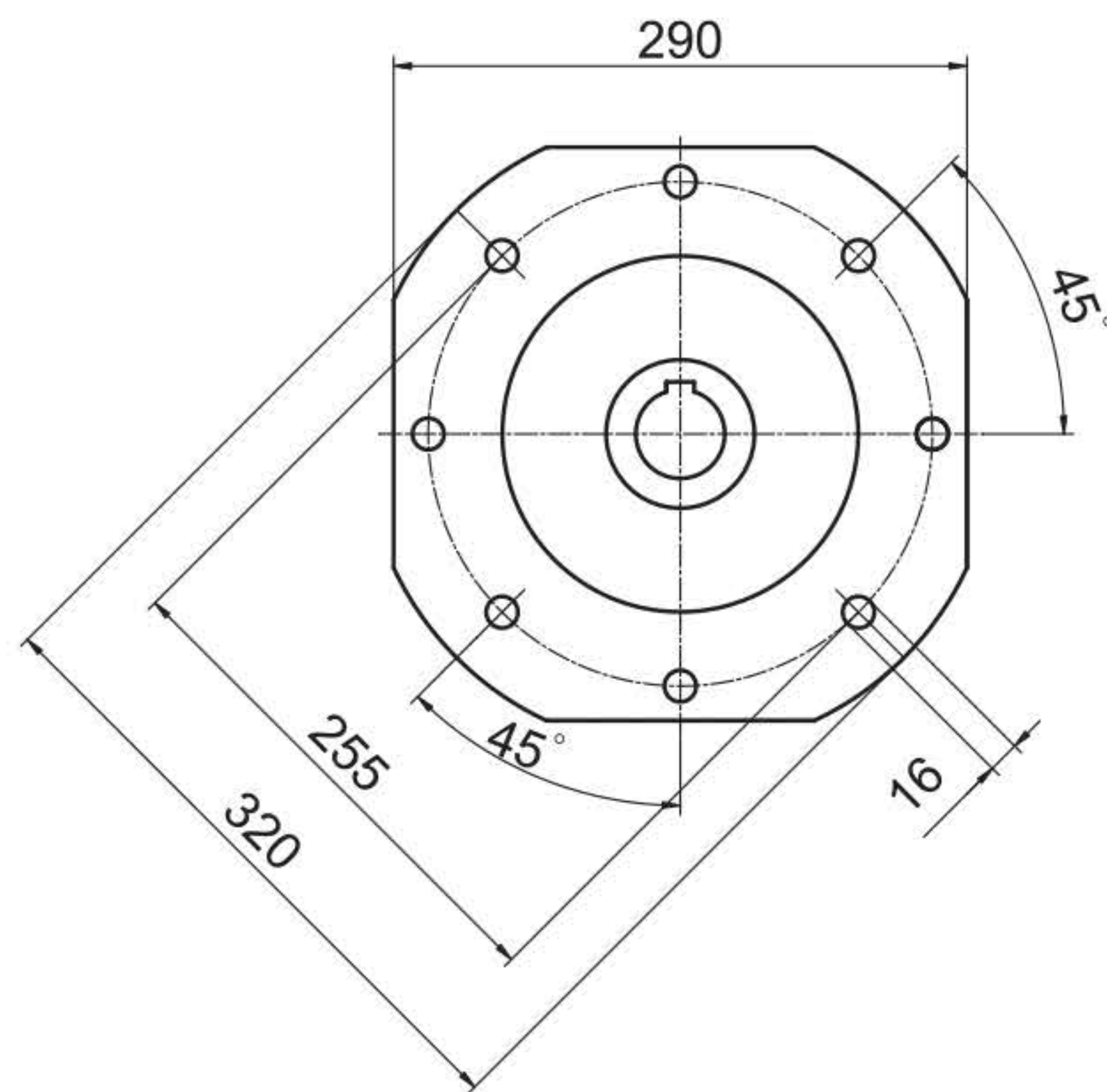




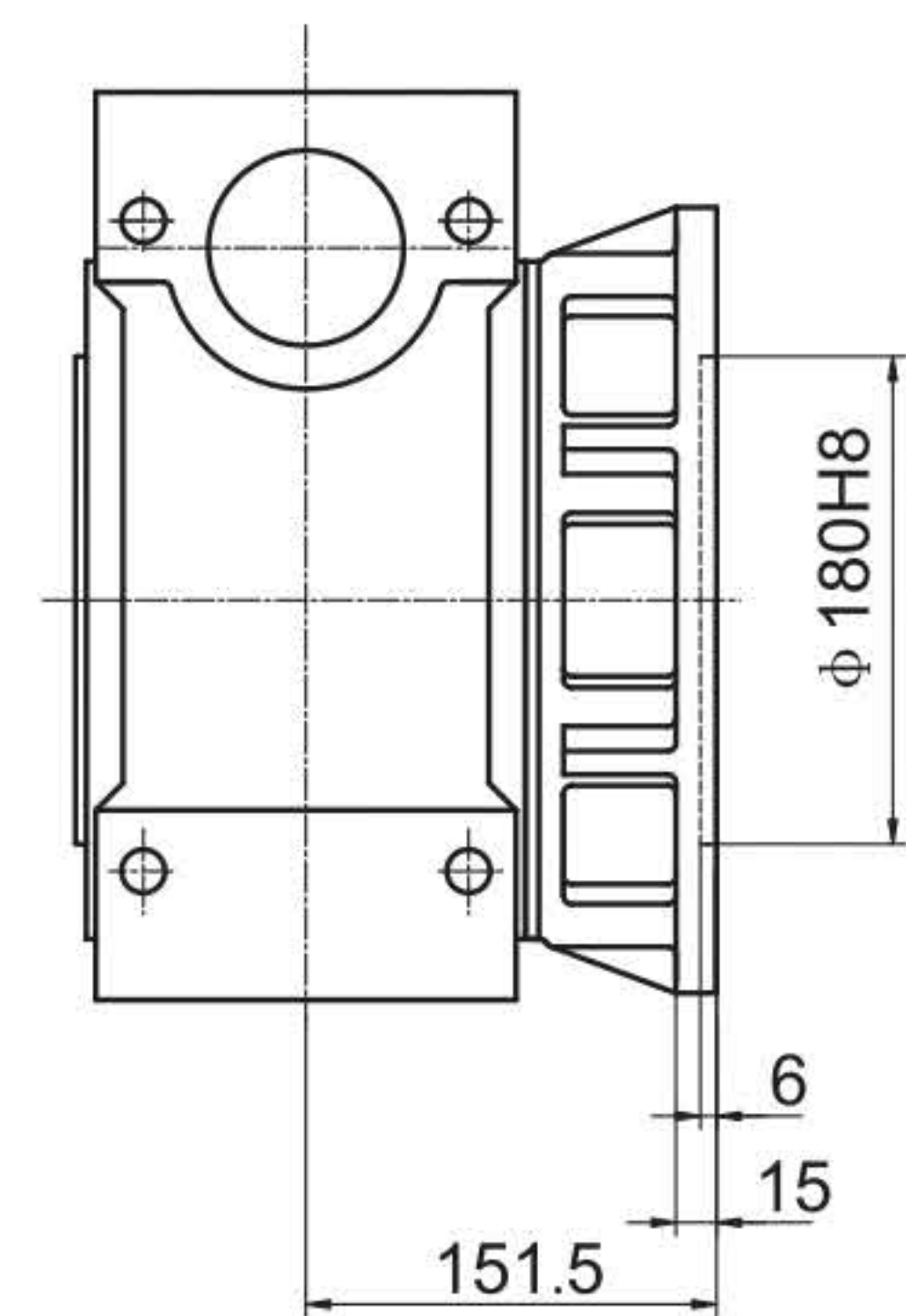
## RV130



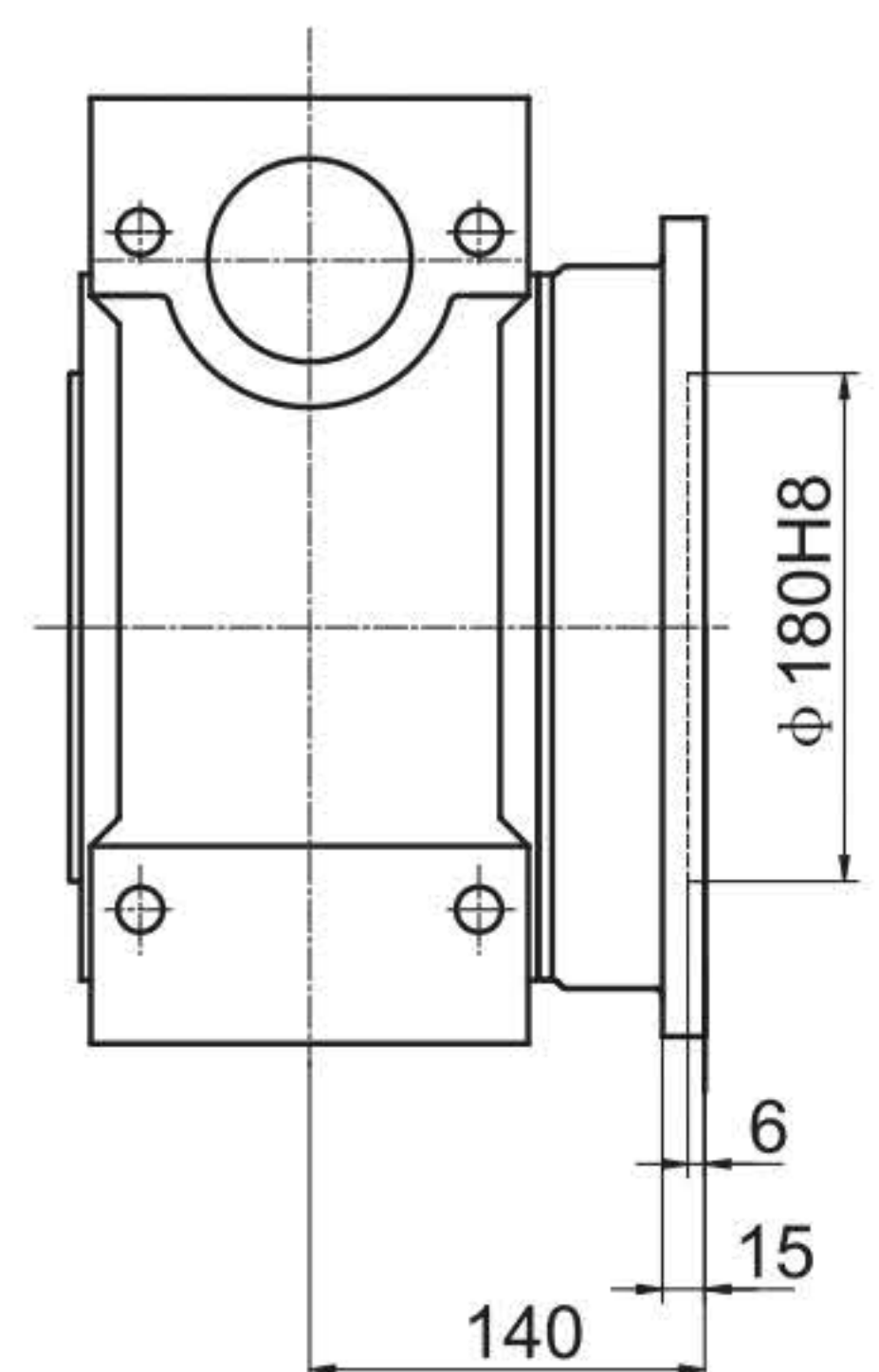
## YZ



## F



## FA

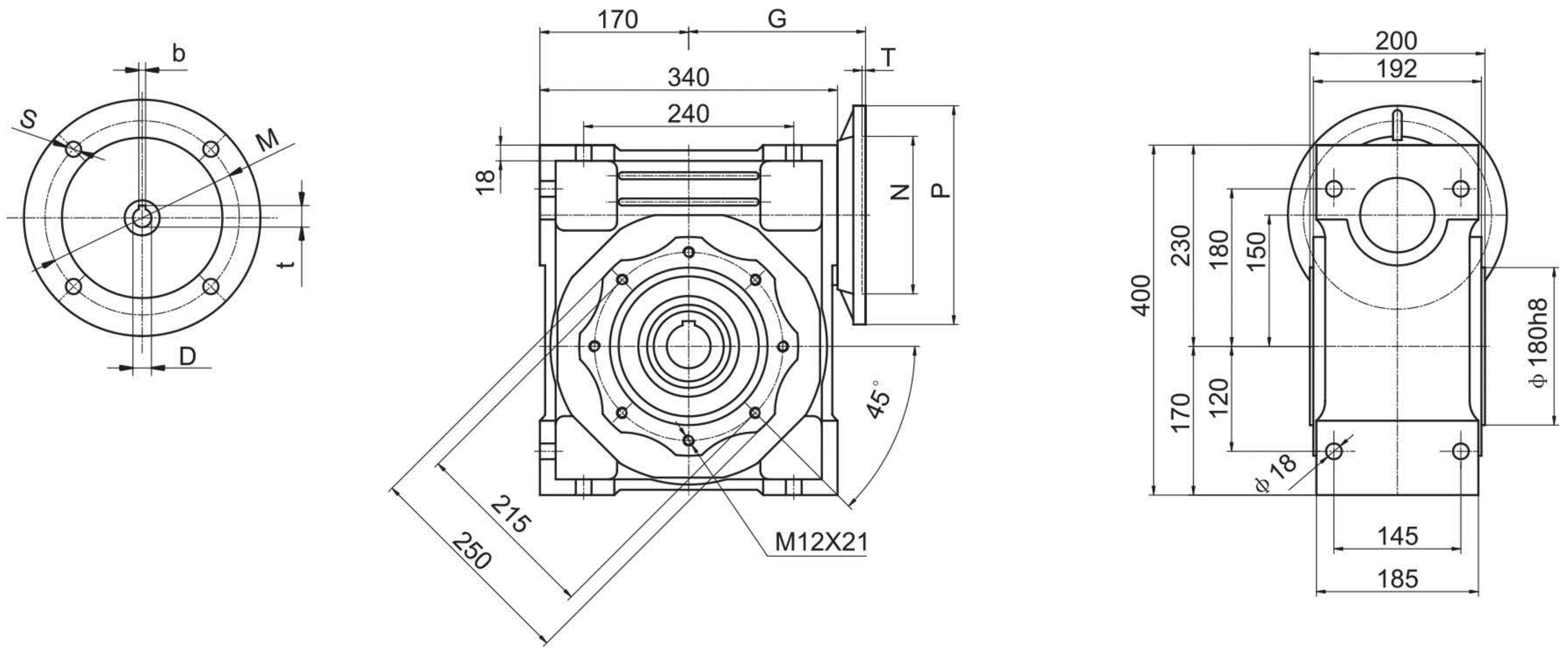


Weight without motor  $\approx 55\text{kg}$

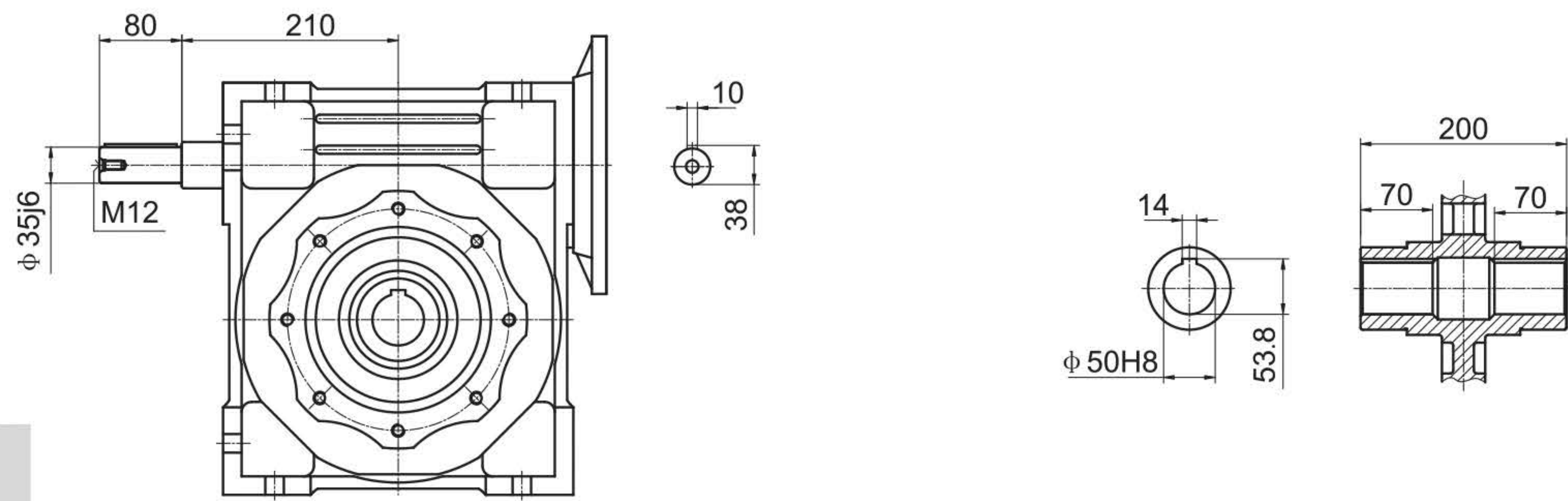
IEC	DE8	b	t	P	M	N	S	T	G
90B5	24	8	27.3	200	165	130	11	4	177
90B14	24	8	27.3	140	115	95	9	3.5	177
100/112B5	28	8	31.3	250	215	180	13.5	4	175
100/112B14	28	8	31.3	160	130	110	9	4.5	175
132B5	38	10	41.3	300	265	230	13.5	4.5	179



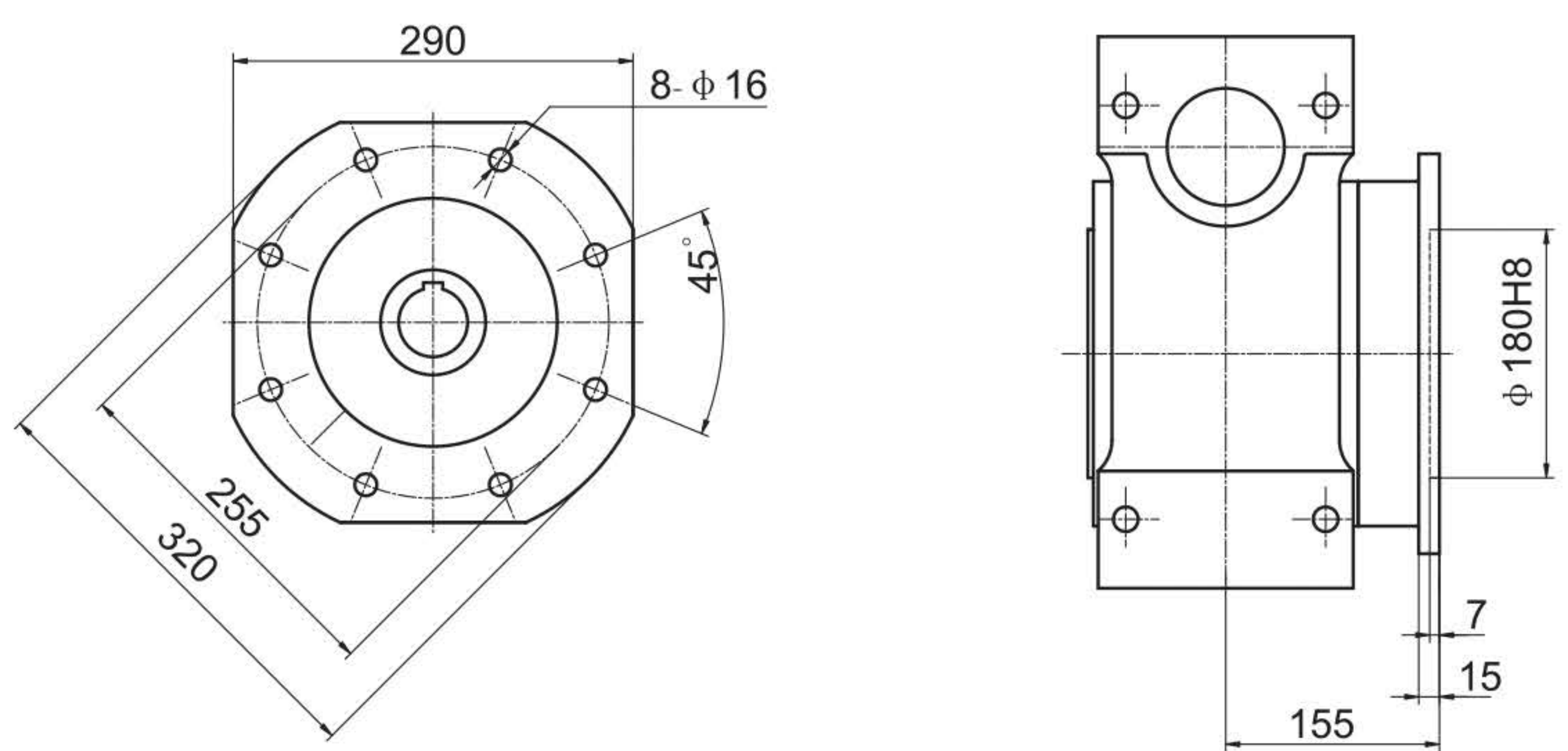
## RV150



YZ



F

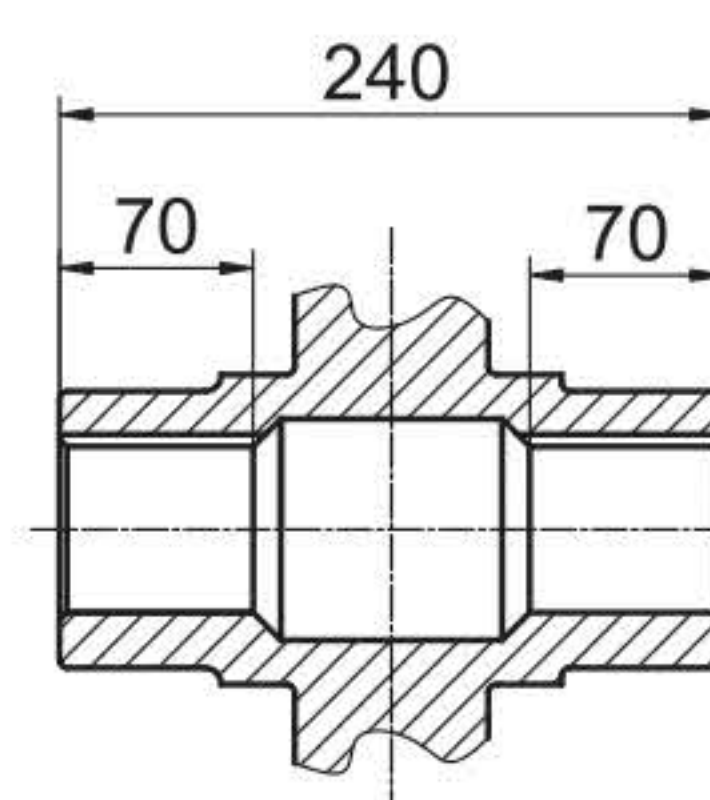
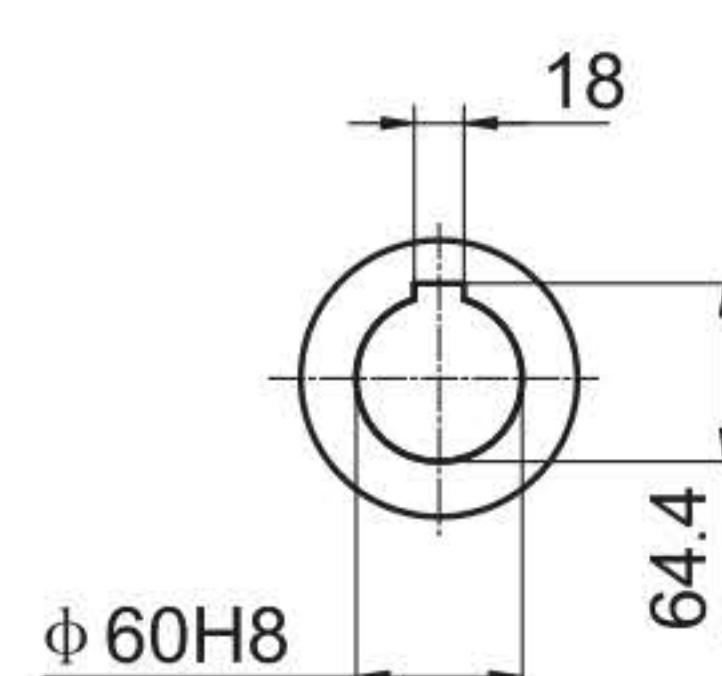
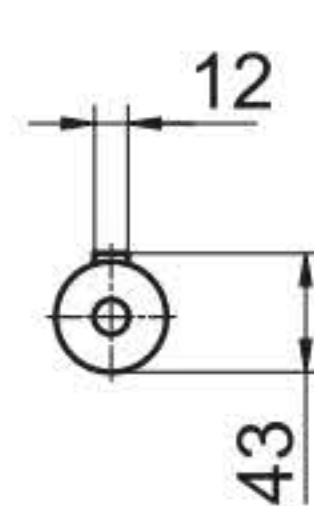

Weight without motor  $\approx 105\text{kg}$ 

IEC	DE8	b	t	P	M	N	S	T	G
100/112B5	28	8	31.3	250	215	180	13.5	4	202
132B5	38	10	41.3	300	265	230	13.5	4.5	202
160B5	42	12	45.3	350	300	250	18	6	212



Technical drawing of a mechanical part, likely a bearing housing, showing dimensions in millimeters. The drawing includes a front view and a side view. Key dimensions include:

- Overall width: 240 mm
- Mounting hole diameter: 232 mm
- Overall height: 472 mm
- Mounting flange height: 265 mm
- Distance from mounting flange to bearing housing center: 213 mm
- Bearing housing height: 185 mm
- Distance from mounting flange to bearing housing bottom: 155 mm
- Distance from mounting flange to bearing housing top: 207 mm
- Bearing housing width: 175 mm
- Bearing housing depth: 220 mm
- Note:  $\varnothing 22$  (indicating a hole diameter of 22 mm)



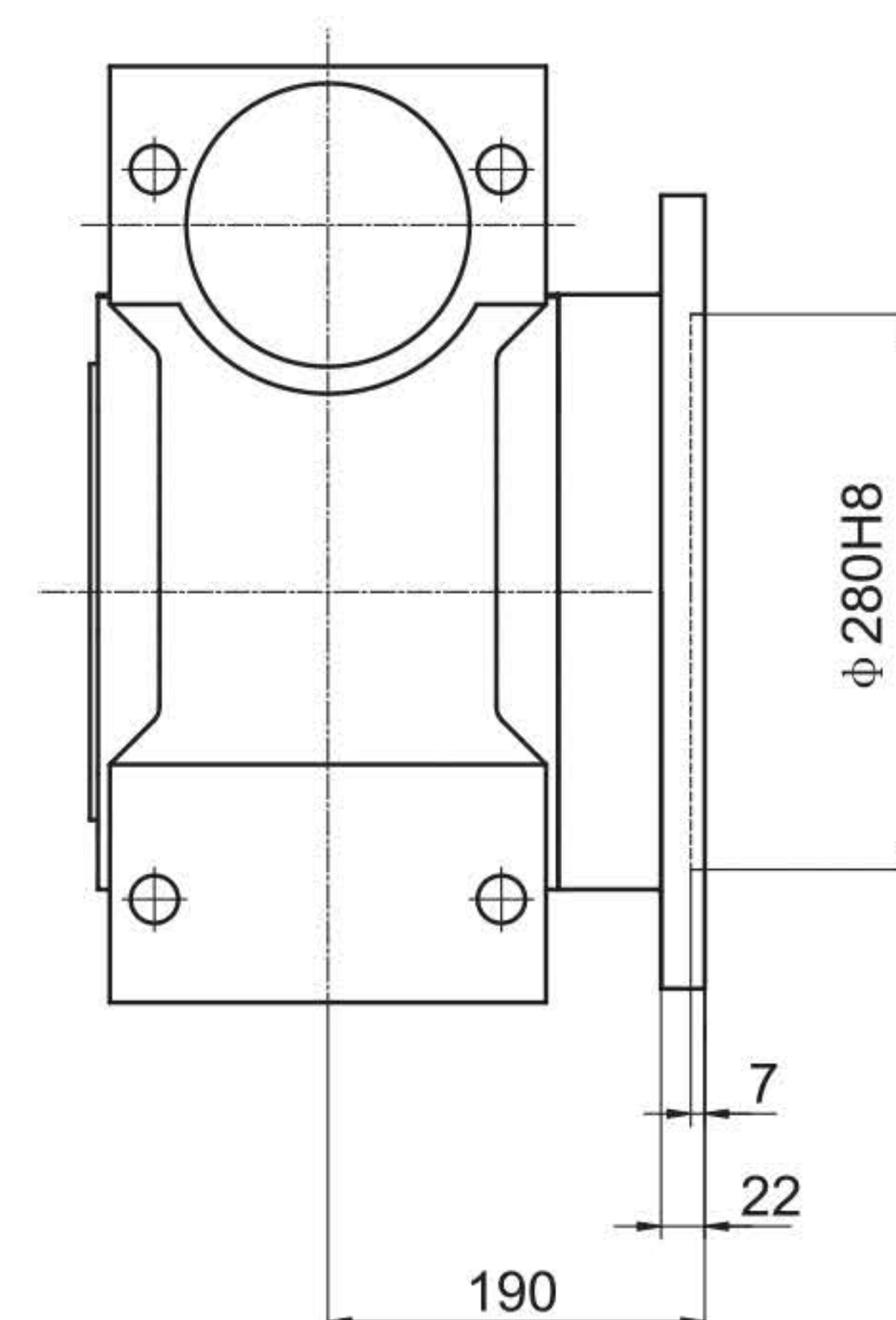
Technical drawing of a circular mechanical part, likely a flange or end plate, showing dimensions and a table.

Dimensions:

- Overall diameter: 390
- Inner diameter: 350
- Outer diameter of the flange: 400
- Flange thickness: 45°
- Number of holes: 8
- Hole diameter:  $\phi 22$

Table:

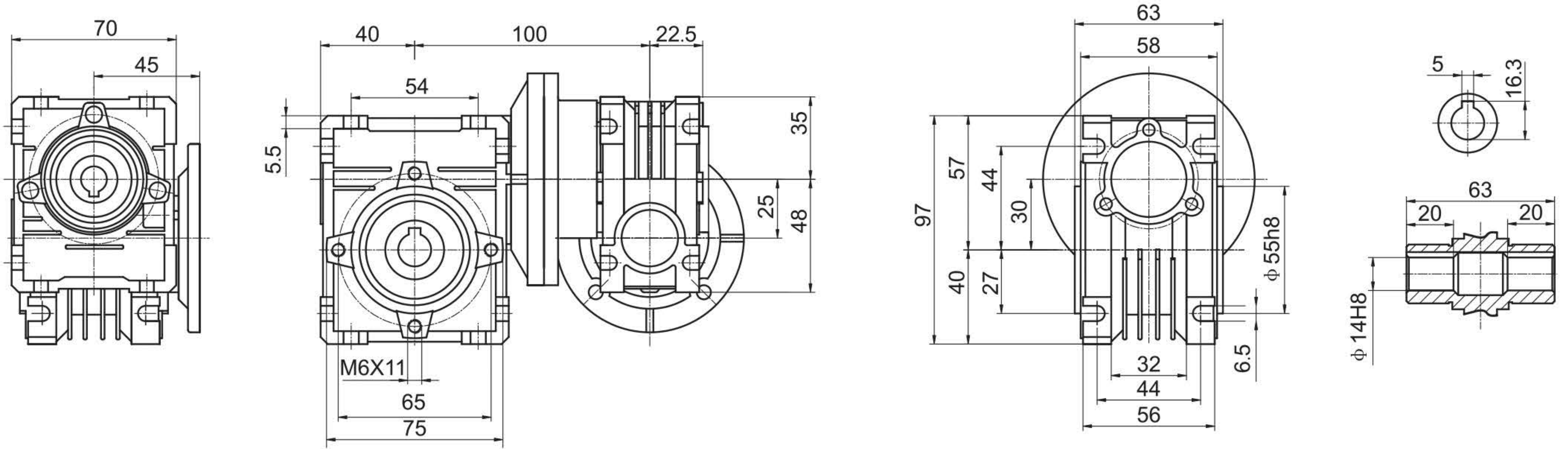
T	G



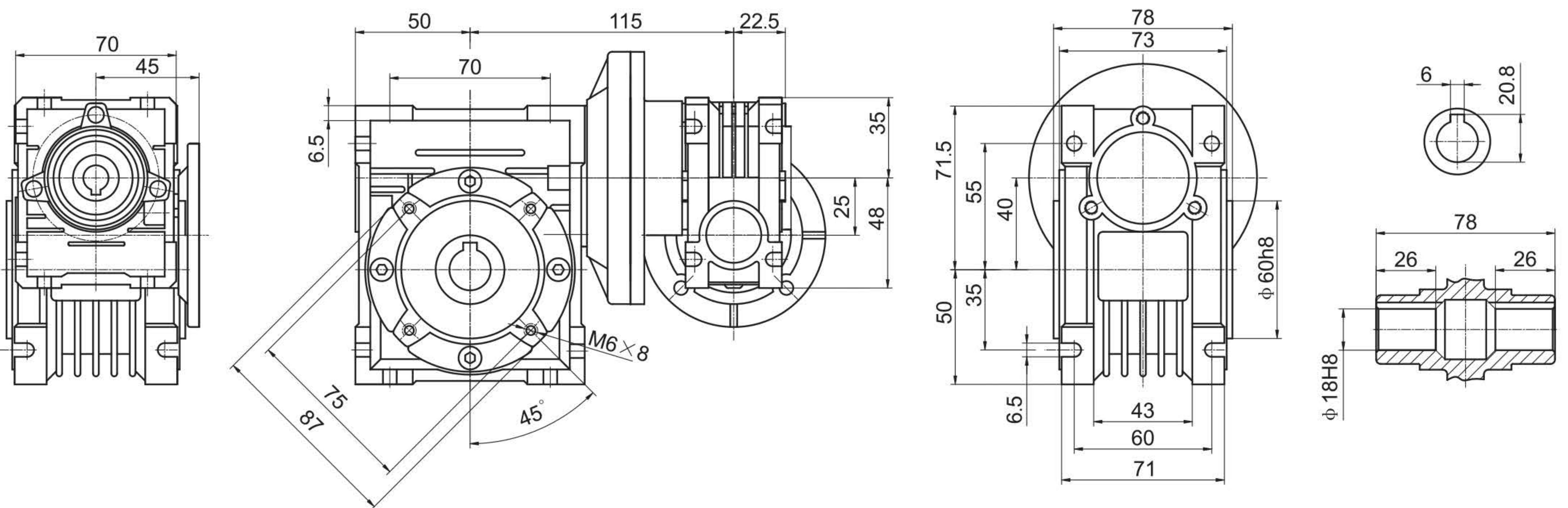
F



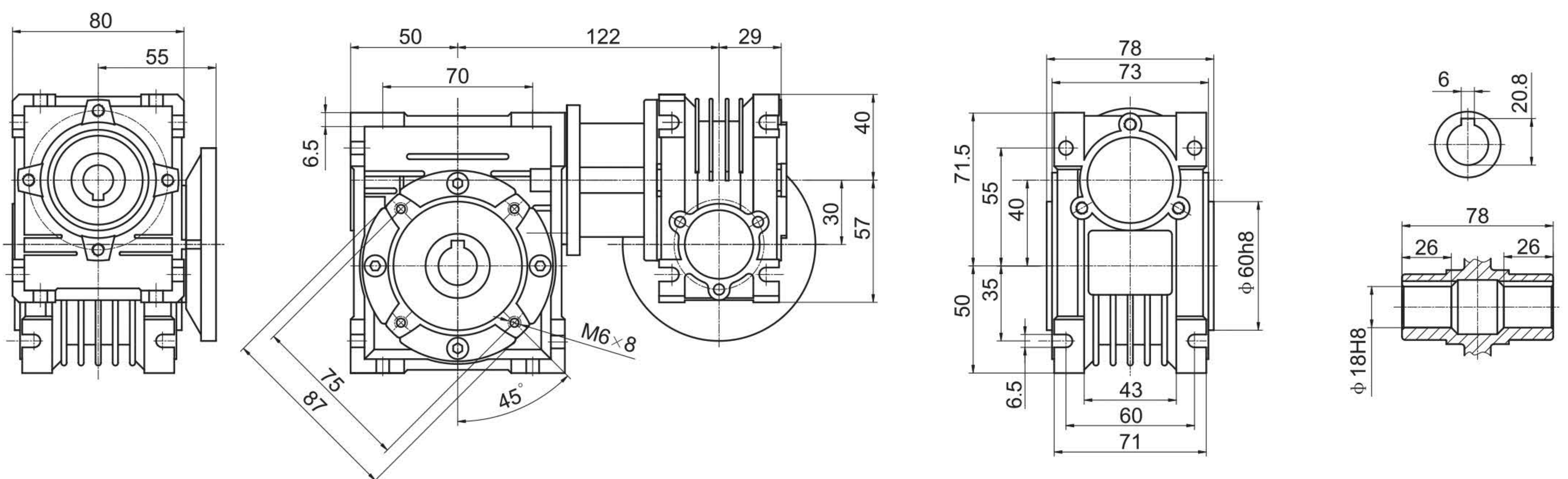
## RV25/30



## RV25/40

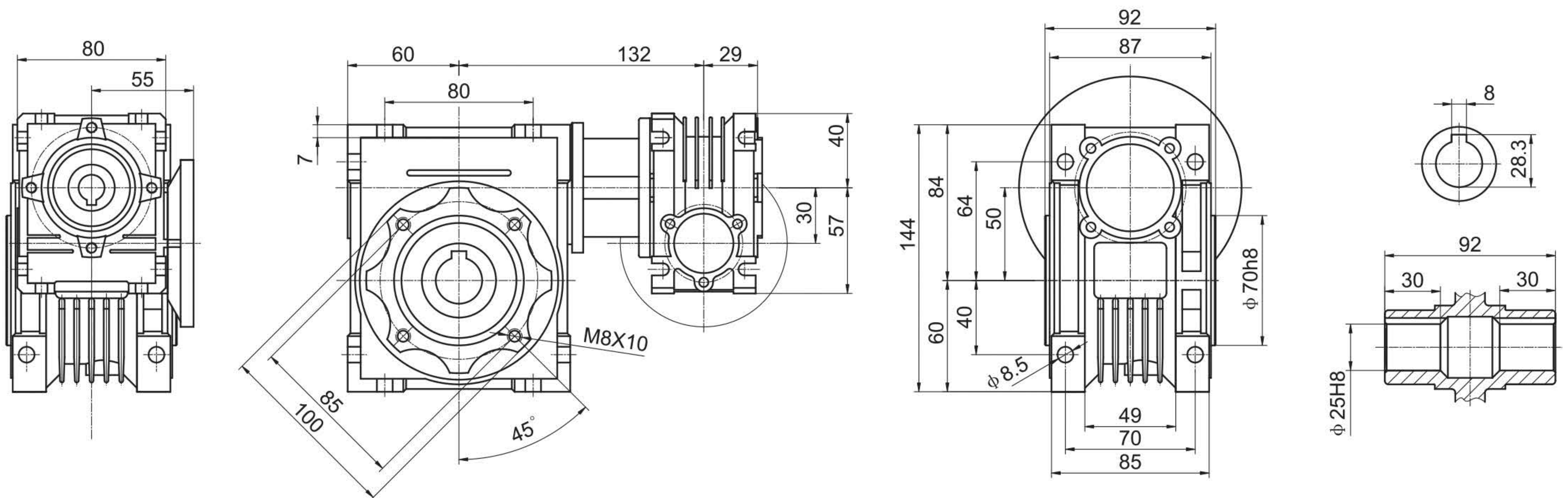


## RV30/40

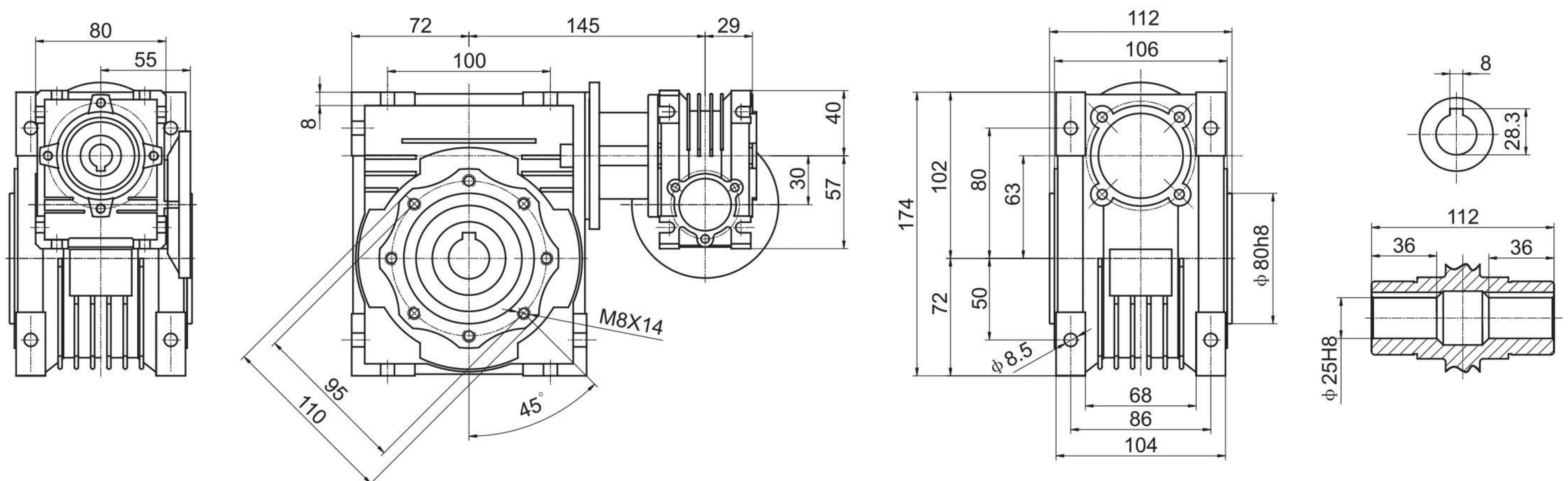




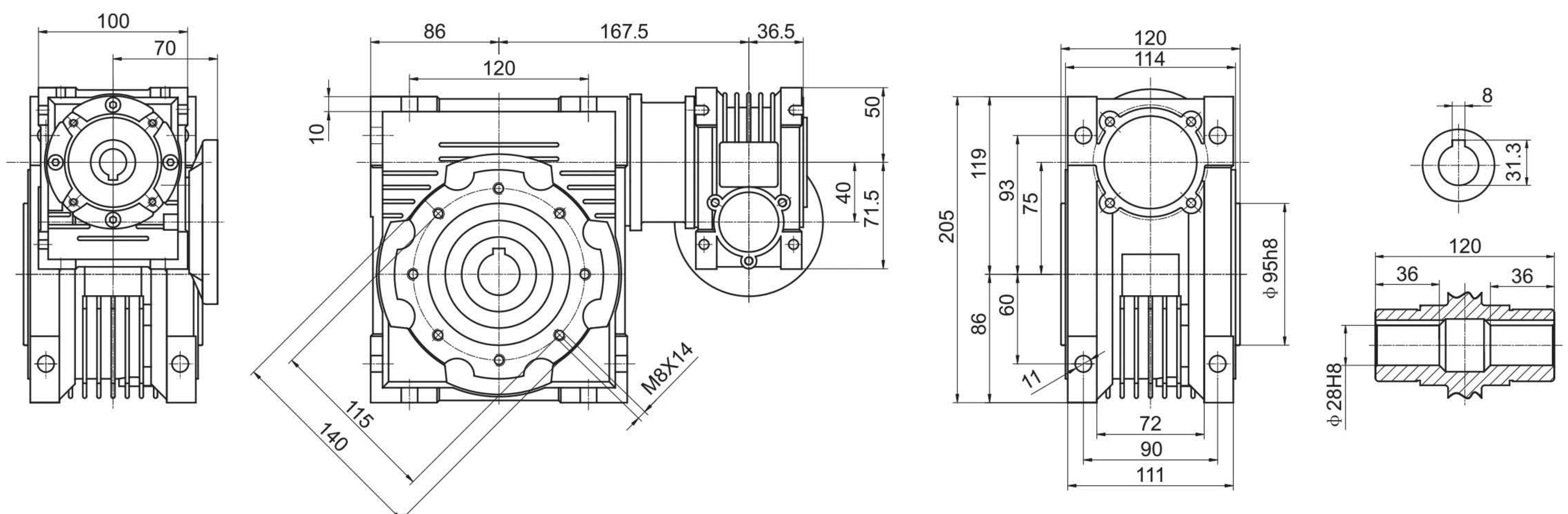
## RV30/50



## RV30/63

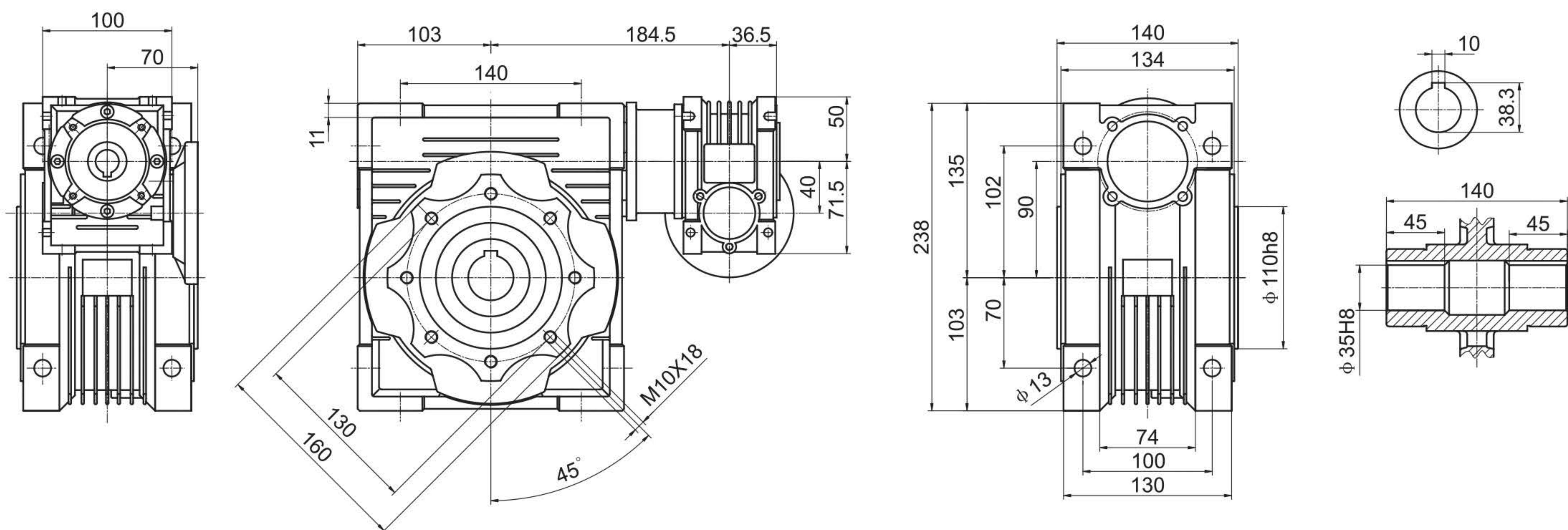


## RV40/75

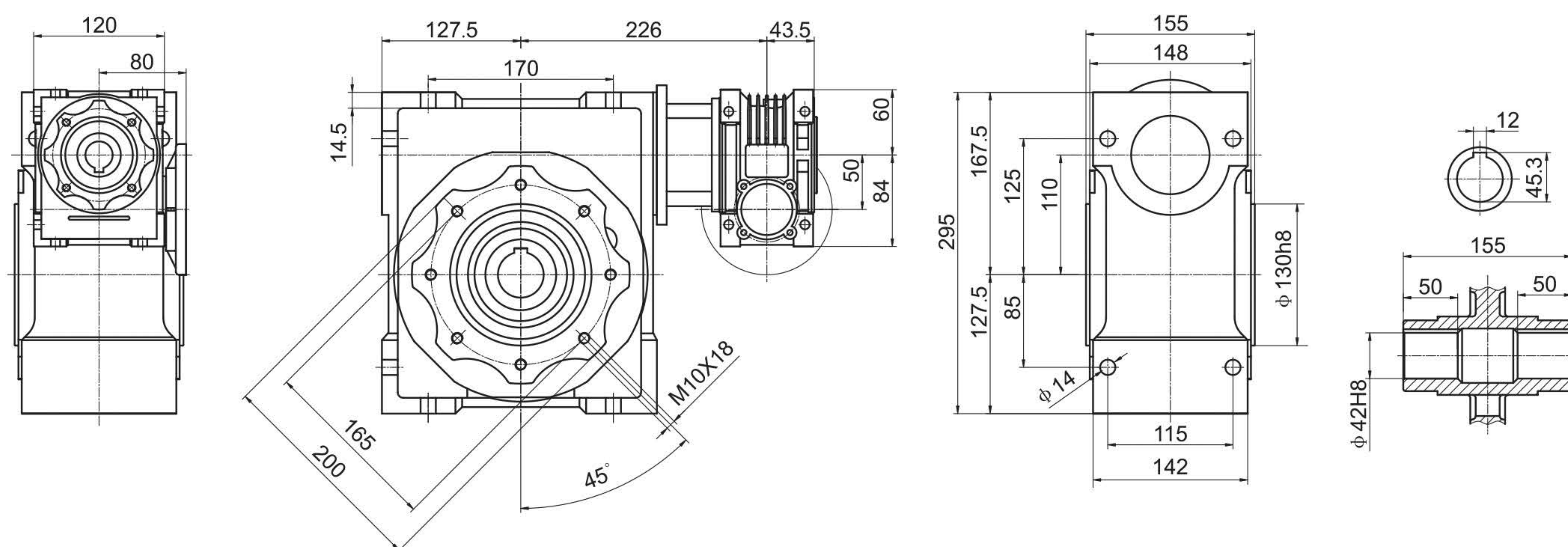




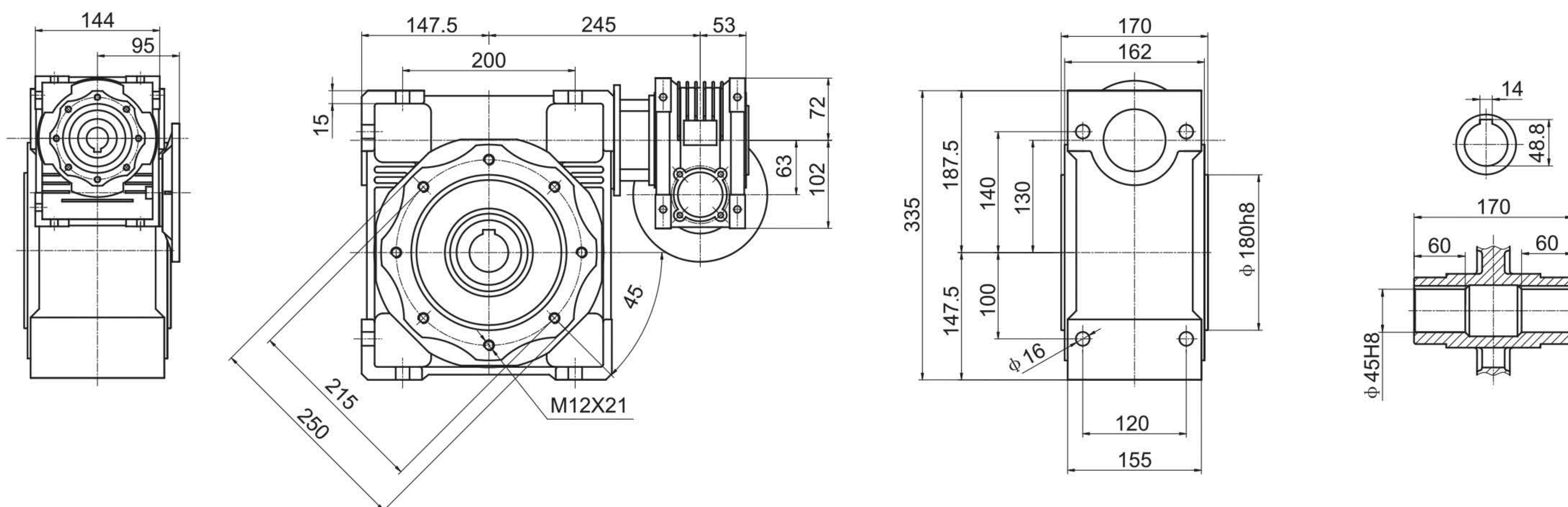
## RV40/90



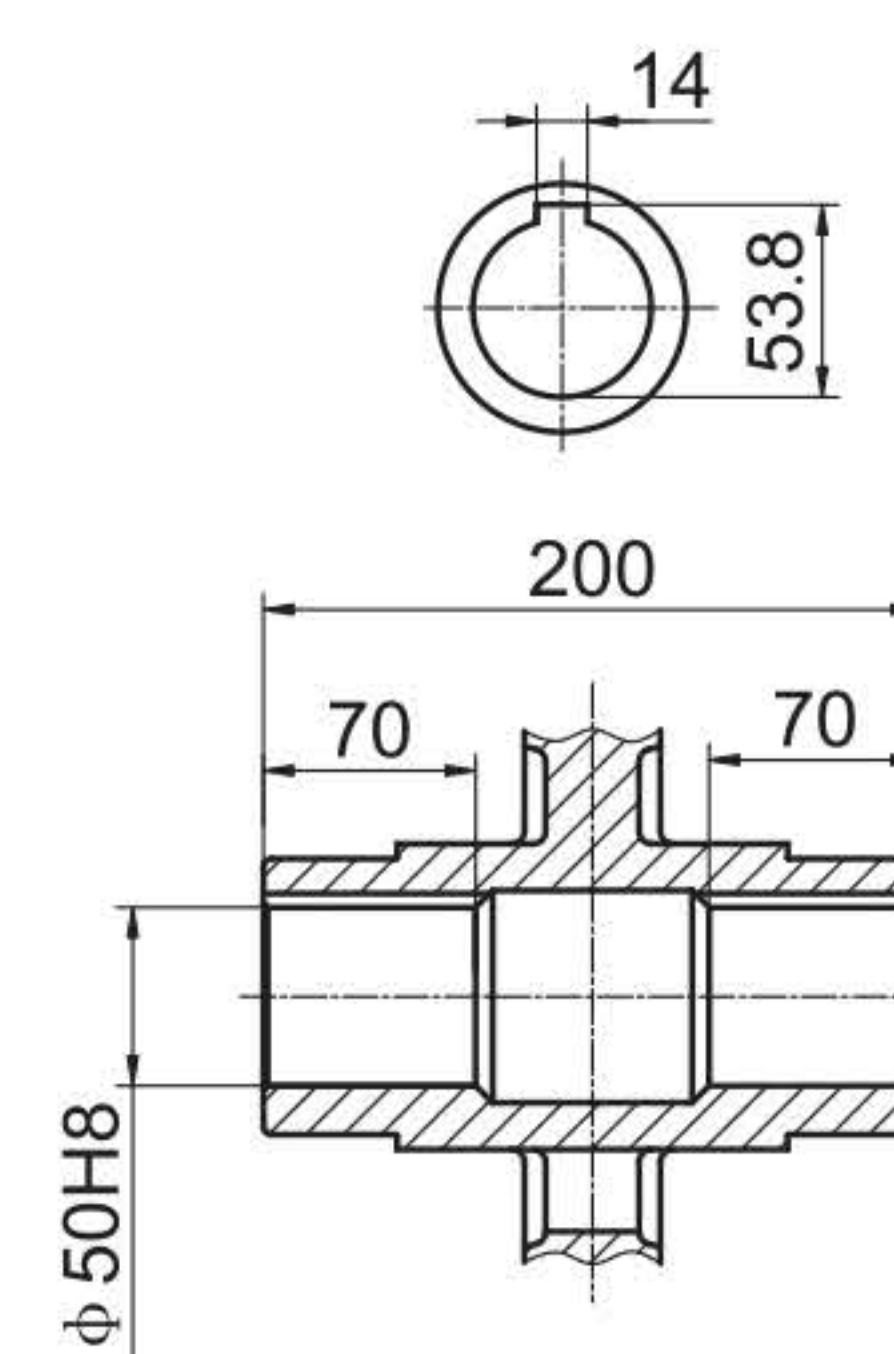
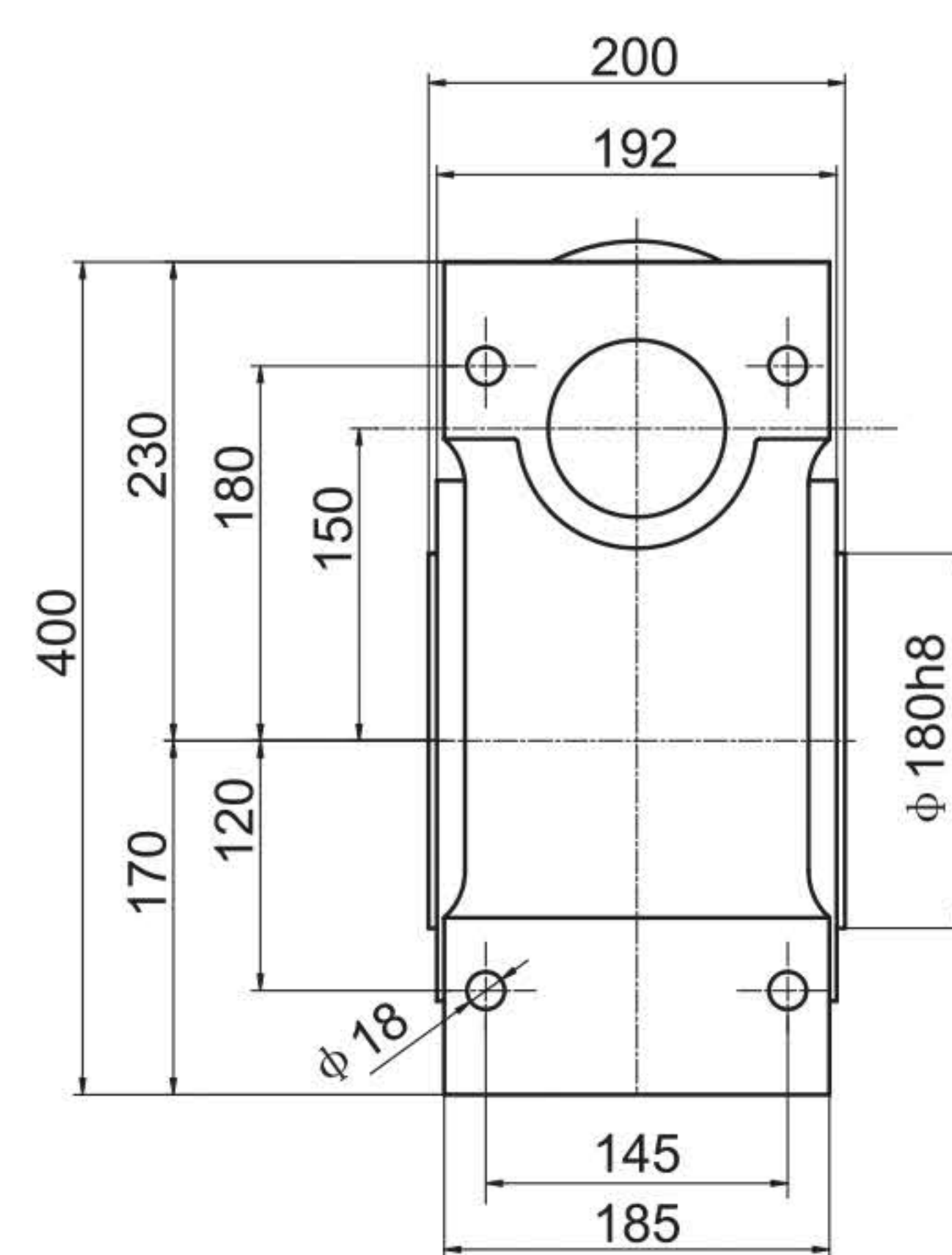
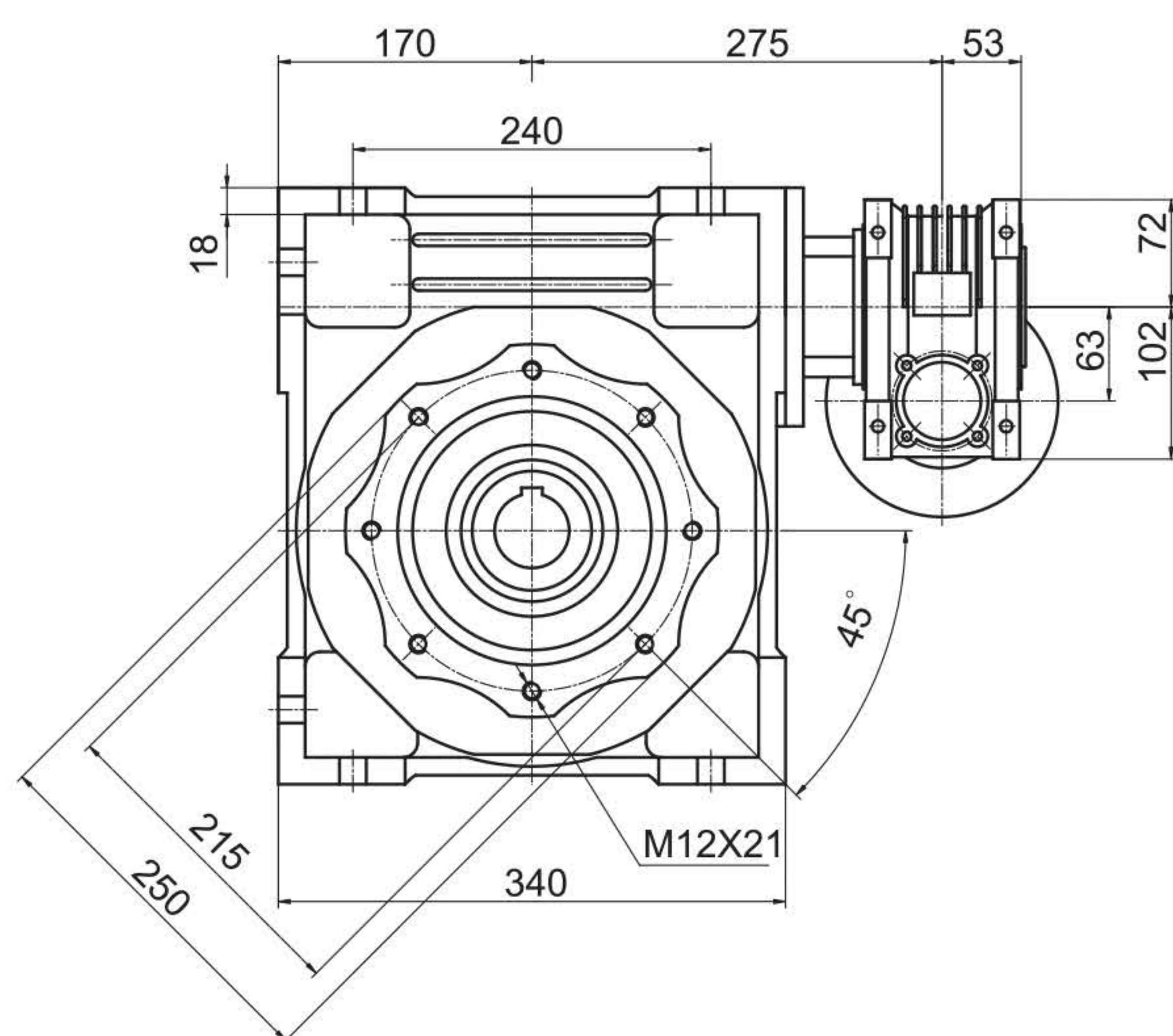
## RV50/110



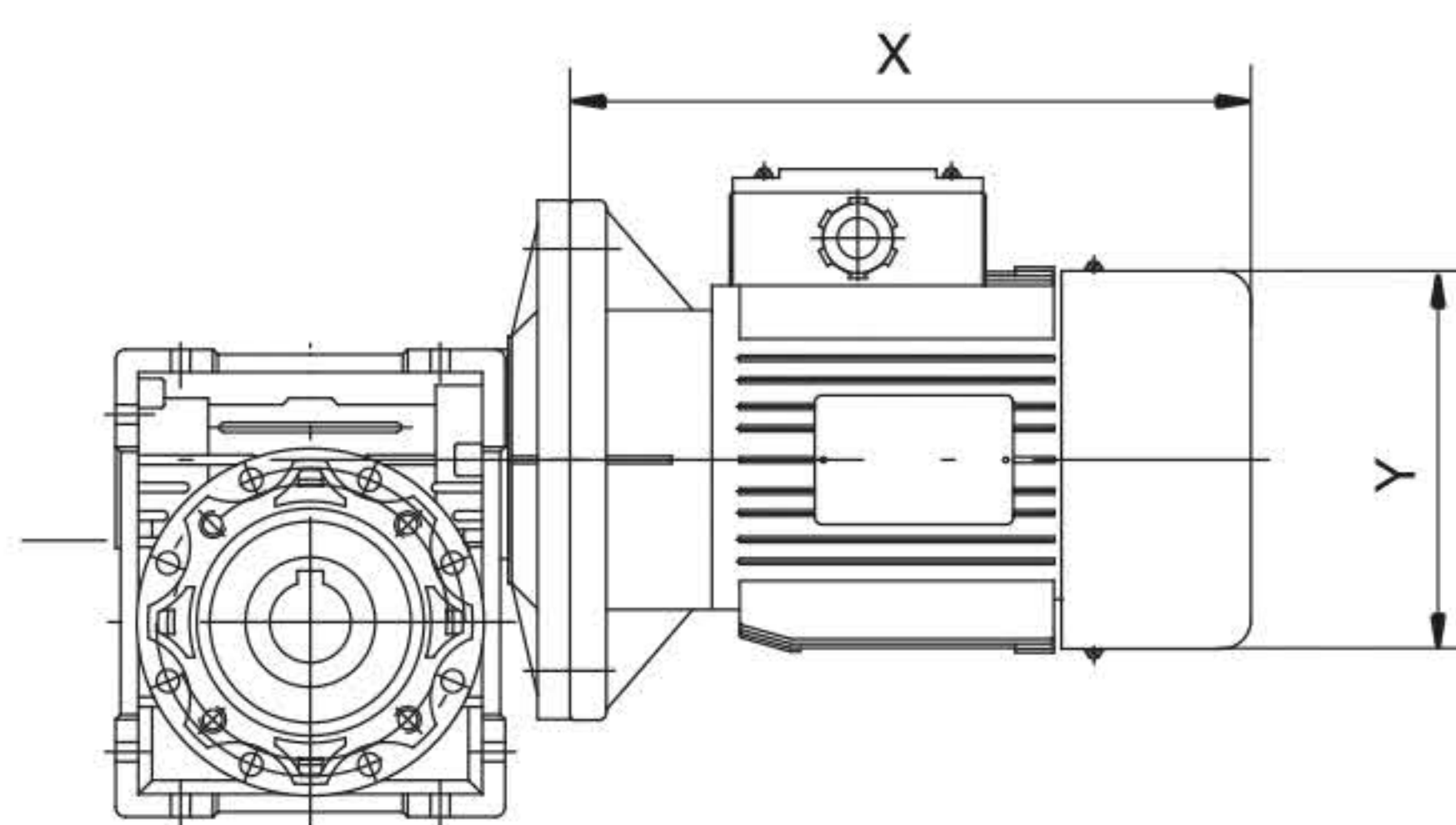
## RV63/130









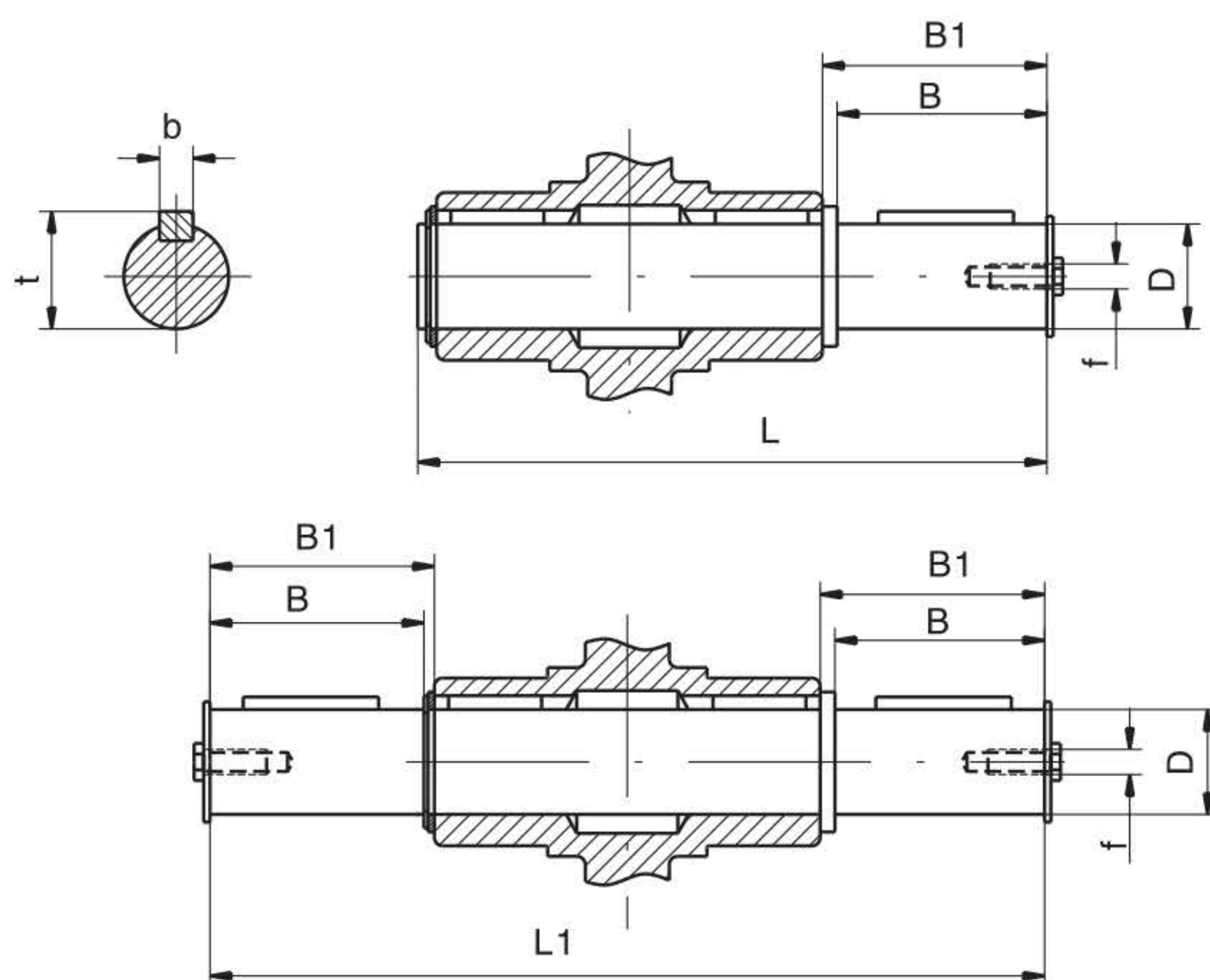


Overall dimensions for electric motor

	56		63		71		80		90		100		112	132		160		180	
( kw )	0.06	0.09	0.12	0.18	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3	4	5.5	7.5	11	15	18.5	22
X	175		200		240		245		270	295	315		340	390	430	520	565	580	615
Y	120		130		140		160		175		195		225	275		320		360	

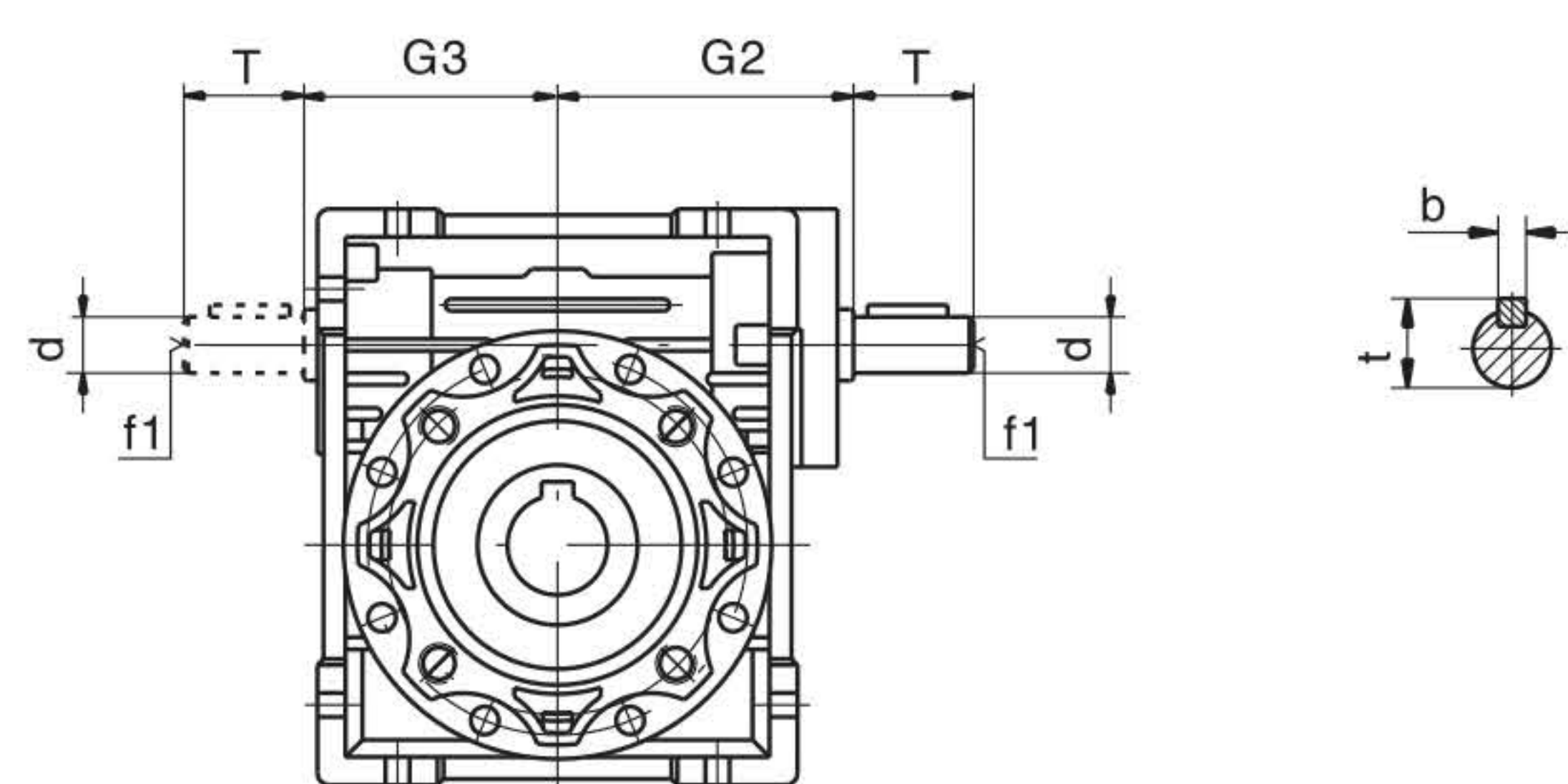
Dimensions of single/double output shaft

Type	D(h6)	B	B1	L	L1	f	b	t
25	11	23	25.5	81	101	—	4	12.5
30	14	30	32.5	102	128	M6	5	16
40	18	40	43	128	164	M6	6	20.5
50	25	50	53.5	153	199	M10	8	28
63	25	50	53.5	173	219	M10	8	28
75	28	60	63.5	192	247	M10	8	31
90	35	80	84	234	308	M12	10	38
110	42	80	84.5	249	324	M16	12	45
130	45	80	85	265	340	M16	14	48.5
150	50	102	110	324	420	M20	14	53.5
185	60	112	120	374	480	M20	18	64



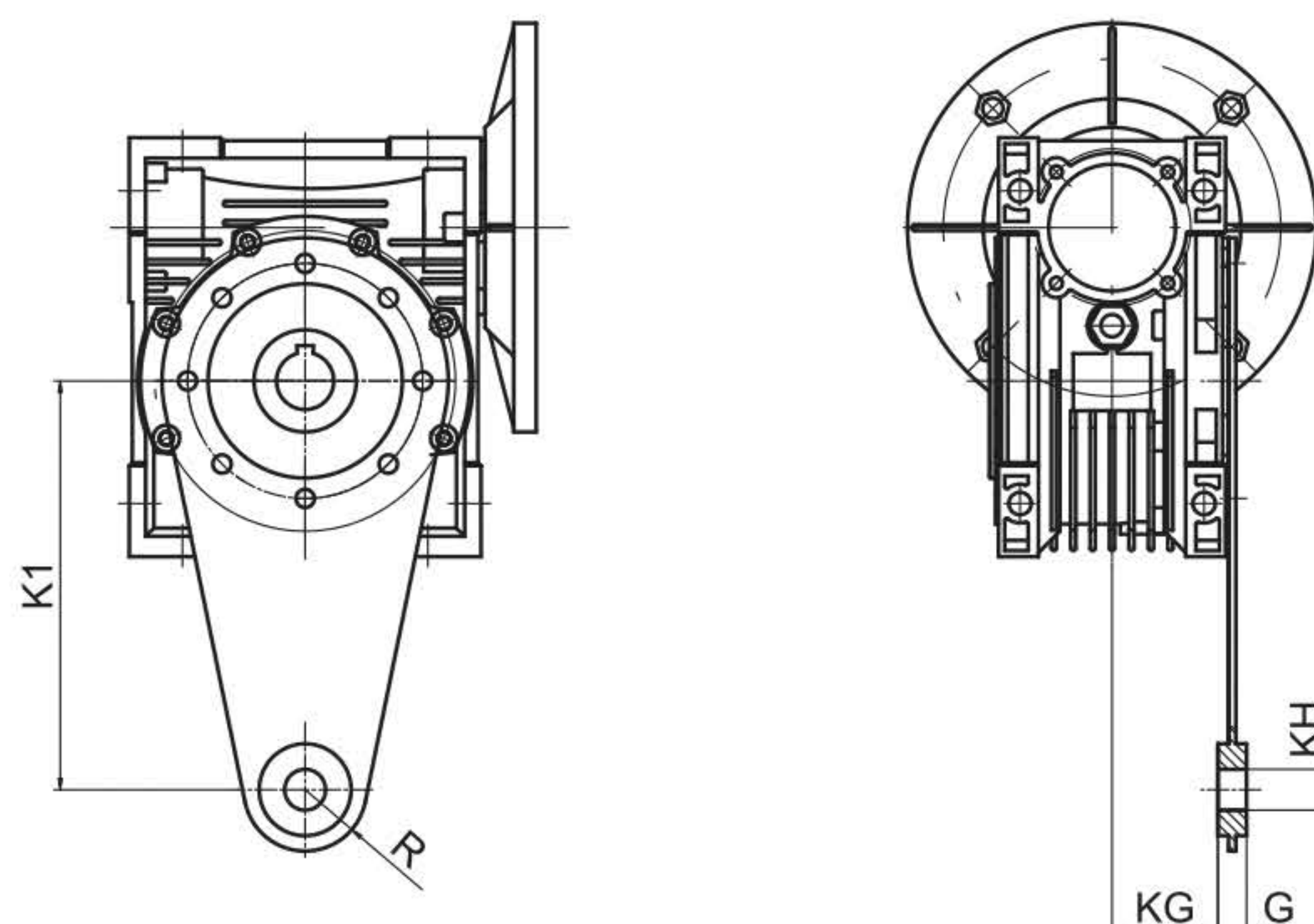
Dimensions of extension worm shafts

Type	G3	G2	T	d(j6)	b	t	f1
25	38	42	18	9	3	10.2	—
30	45	51	20	9	3	10.2	—
40	53	60	23	11	4	12.5	M6
50	64	74	30	14	5	16	M6
63	75	90	40	19	6	21.5	M6
75	90	105	50	24	8	27	M8
90	108	125	50	24	8	27	M8
110	135	142	60	28	8	31	M10
130	155	162	80	30	8	33	M10
150	210	195	80	35	10	38	M12
185	240	240	80	40	12	43	M16



Dimensions of torque arms

Type	K1	R	KH	G	KG
25	70	15	8	14	17.5
30	85	15	8	14	24
40	100	18	10	14	31.5
50	100	18	10	14	38.5
63	150	18	10	14	49
75	200	30	20	25	47.5
90	200	30	20	25	57.5
110	250	35	25	30	62
130	250	35	25	30	69
150	250	35	25	30	84





### The technical data of unit which is consisted of Worm microreducer and Variator (basic type)

By table 1 can find technical data of unit which is consisted of Worm microreducer and Variator (basic type)

### The overall and mounting demensions table of unit

By chart 11 and table 12, can find overall and mounting demensions of unit

By shart 5 and table 8, can find demensions of fingle/double output shaft

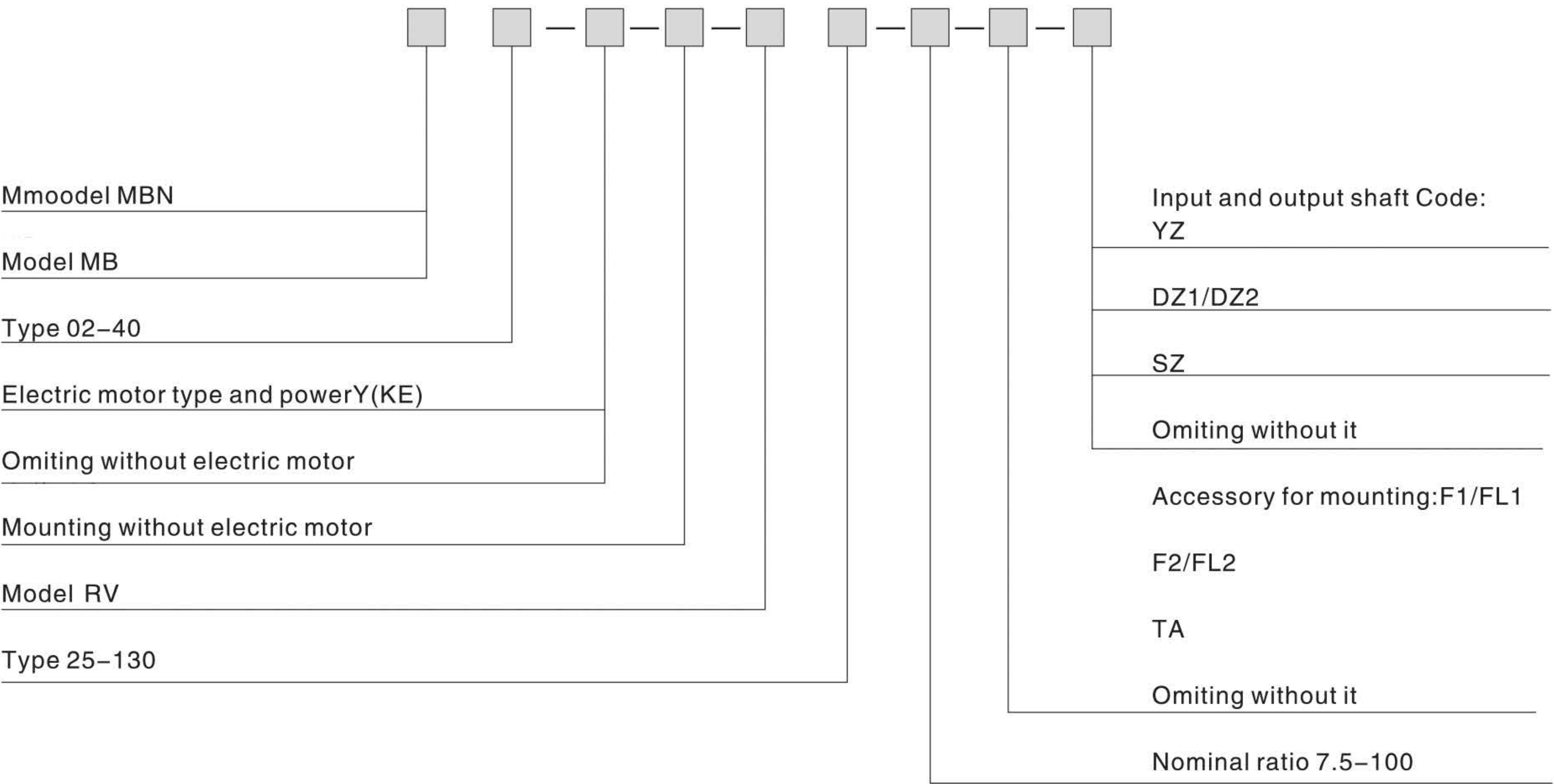
By chart 6 and table 9, can find demensions of extebtion shaft

By chart 7 and table 10, can find demensions of torque arms

### Structure mounting position code of unit

By chart13, can find overall structure mounting position

### Model designation



### Example of sign

MBN02-Y0.18-S1-NMRV40-7.5-F2-DZ  
Means:mbn02 variator equippde with electric motor:0.18KW in series Yand NBRV40,Output flang:single output shaft:DZ Mounting position:S1