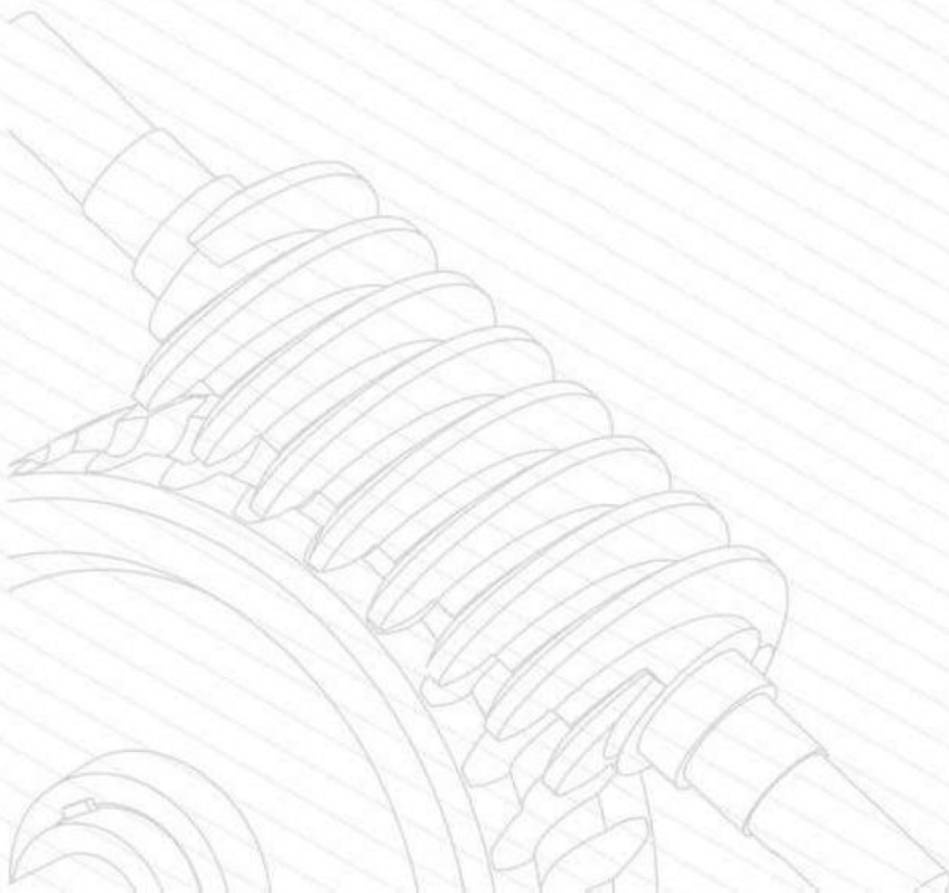


BONFEE

GEARS

In sync with technology

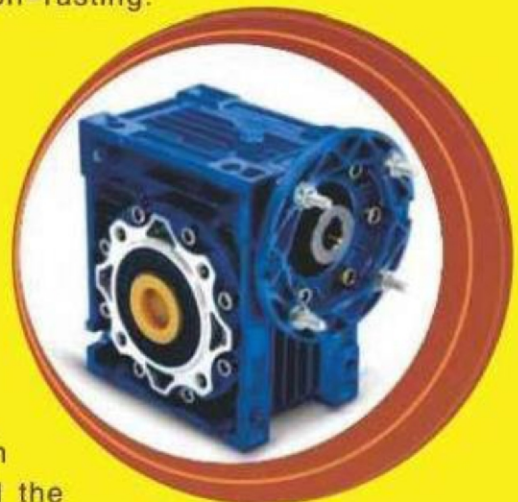


BONFEE

GEARS

BONFEE GEARS is pleased to offer "BFG" SERIES ALUMINIUM WORM SPEEDREDUCERS". BFG series speed reducers are a New-Generation of Worm Gear Speed Reducers manufactured with high quality material and advanced design in order to Guarantee the maximum reliability and life. Its main features are as follows:

1. Made of high quality aluminium alloy, light weight and non-rusting.
2. Large output torque
3. Run Steadily and low noise.
4. High radiating efficiency and high reliability.
5. Good looking appearance, small size, compact construction and durable service life.
6. Suitable for omnibearing installation.
7. Size Range from 25, 30, 40, 50, 63, 75, 90, 110, 130&150
8. Ratio Range from 7.5, 10, 15, 20, 25, 30, 40, 50, 60, 80&100
9. Model Size 025-090 are made of High quality Aluminium Alloy Die-cast which makes its light in weight and the design of the gearbox helps in better heat dissipation.
10. Model Size -110,130&150 are made of Cast Iron Castings with excellent paint finish quality.
11. To guarantee long life, ball bearings of reputed make are used.
12. The "UL" series speed reducers are supplied with synthetic oil grade ISO VG 320 upto size 90 which is virtually maintenance free and does not require oil change during their lifetime. For Sizes 110,130&150 mineral oil ISO VG 460 is used in general and synthetic oil is used on request.
13. The "UL" series speed reducers come with universal mounting options in all sizes.
14. Unique material techniques lengthen the service life of the speed reducers and contribute to the reduction of users' operation cost.





BFG



BFG (FOR SERVO MOTOR)



BFG



BFG VS



BFGW



BFGM . . . F



BFGM . . . VS



BFGM + BFGM

Product structural drawing



BGM Worm - Gear Reducer

Type mark

BFG L E 063 - F1 - A1 - 50 - B3

A=alloy casing hardened=surface worm

Shaft input S double-input shaft
without mark=single-input shaft

Double-geared transmission

Center distance

F1 equipped with short output flange, F2 equipped with long output flange,
no mark = without output flange.

Installation type

Ratio (i)

A1 equipped with single output shaft, no mark = without output shaft

BFG Worm - Gear Speed Reducers

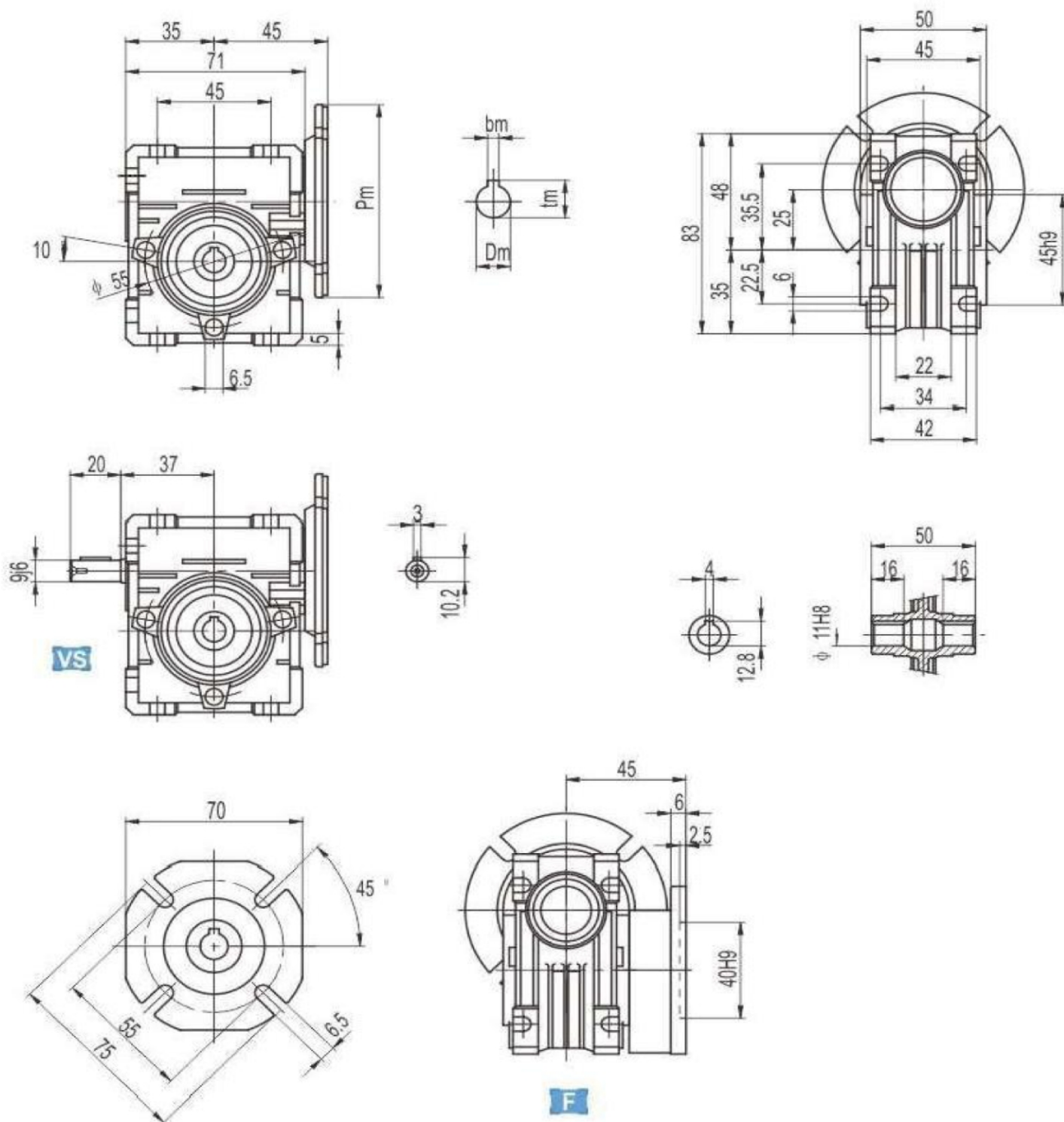
1/7.5-1/100



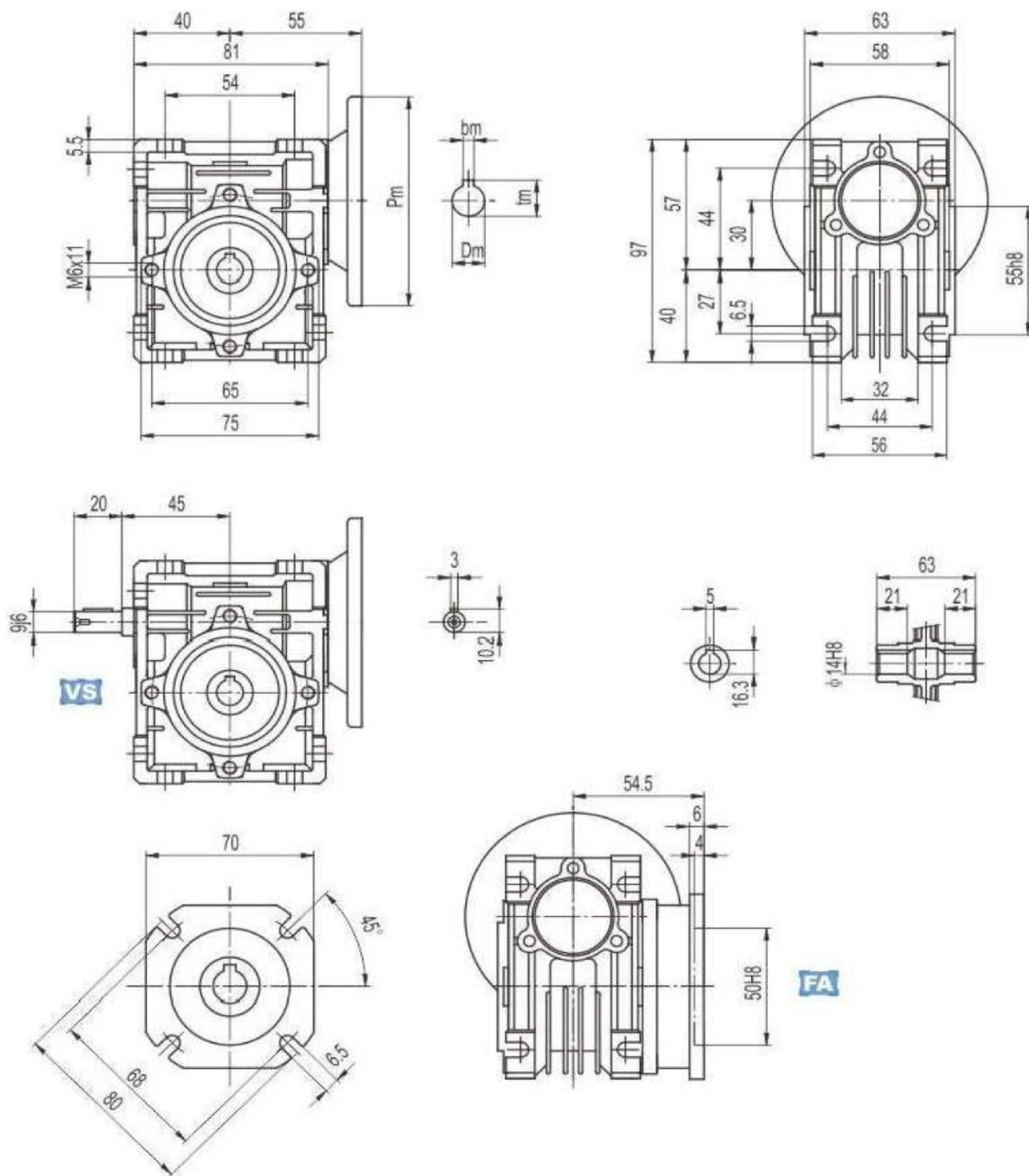
BFG (025-090)



Dimensions of gear box

BFG025


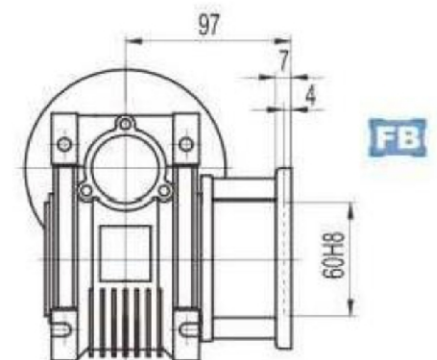
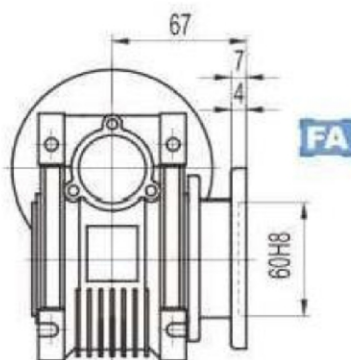
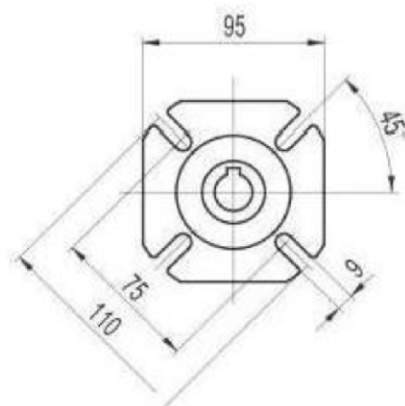
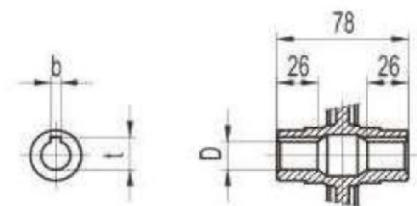
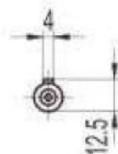
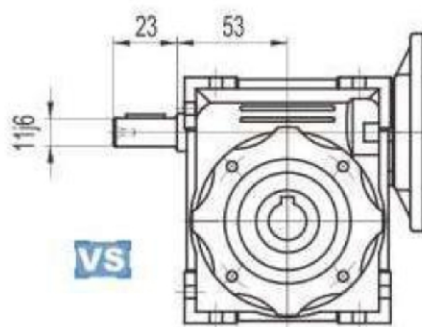
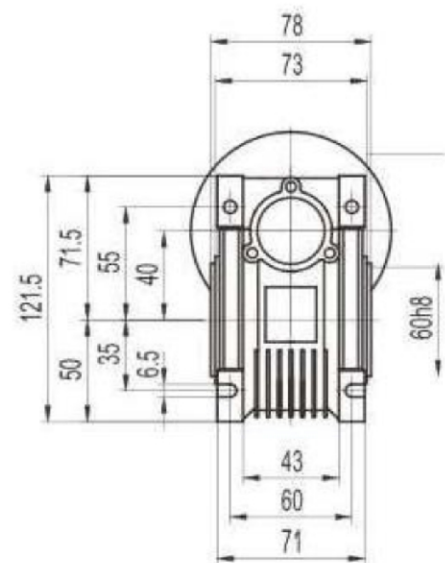
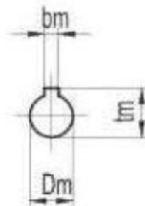
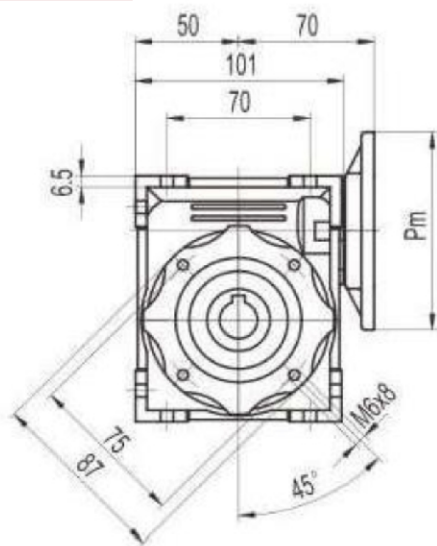
- * Weight without motor: 0.7kg
- * input size (Pm, Dm, bm, tm)

BFG030


* Weight without motor: 1.2kg

* input size (Pm, Dm, bm, tm)

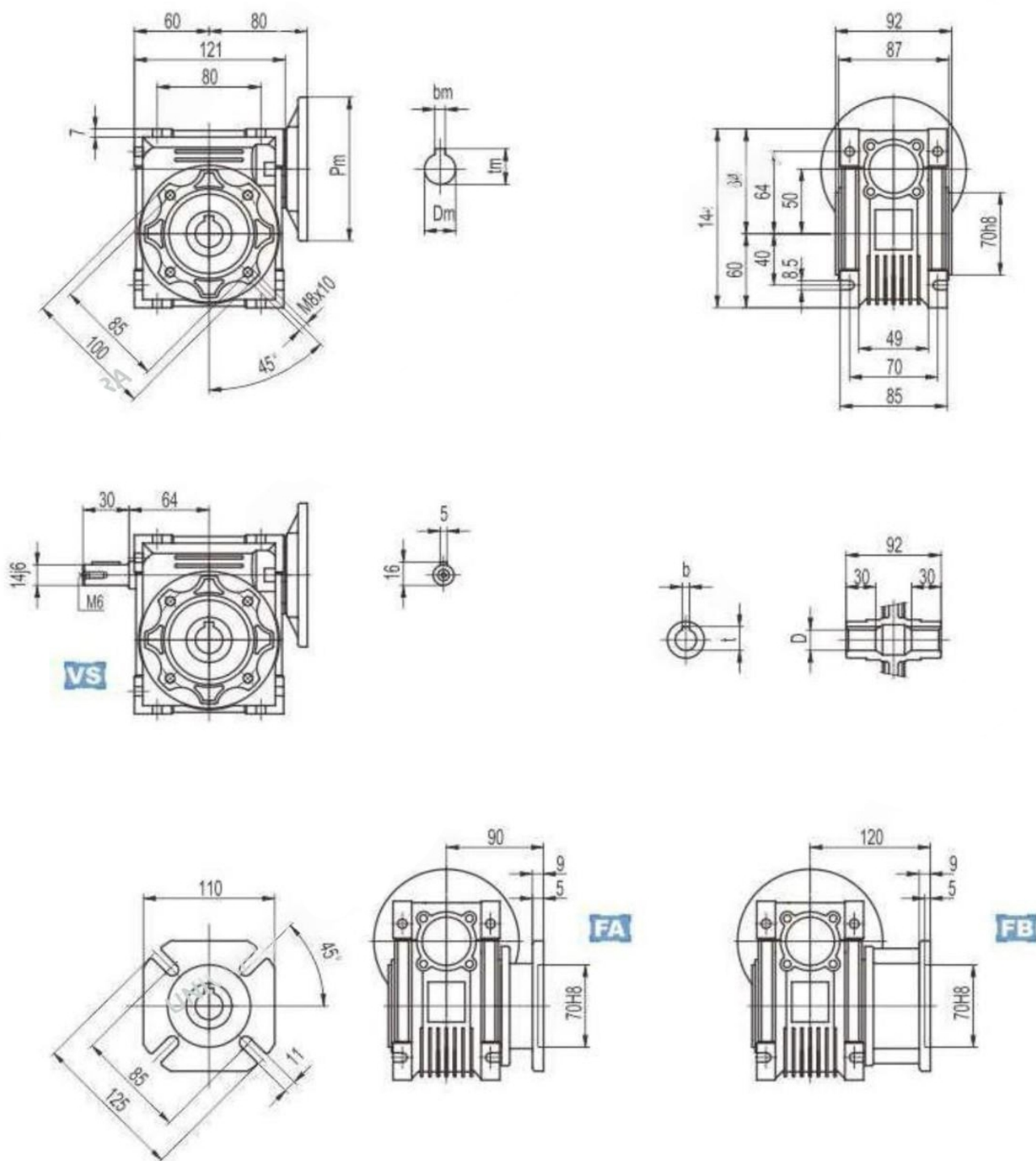
BFG040



Output		
D H8	b	t
18	6	20.8
(19)	(6)	(21.8)

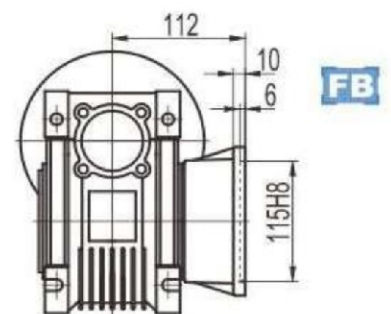
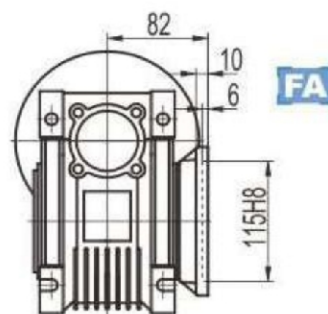
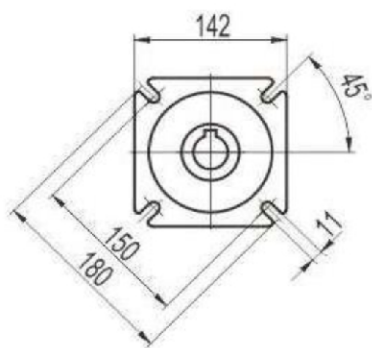
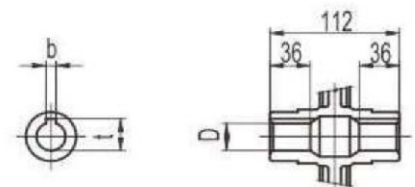
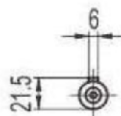
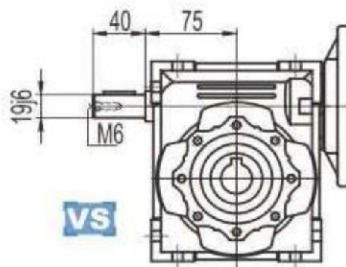
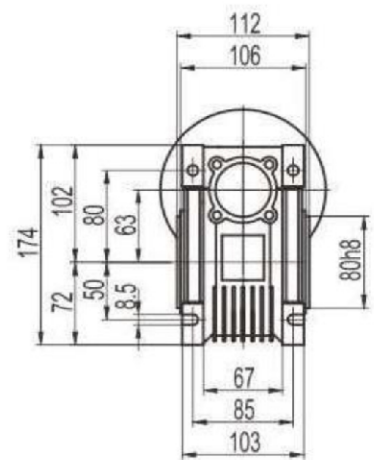
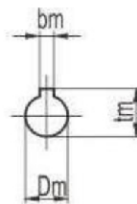
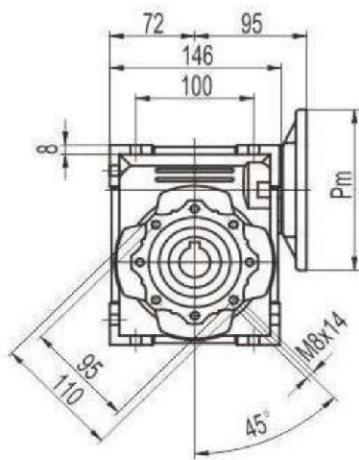
(..)Only on request
 * Weight without motor:2.3kg
 * input size (Pm, Dm, bm, tm)

BFG050



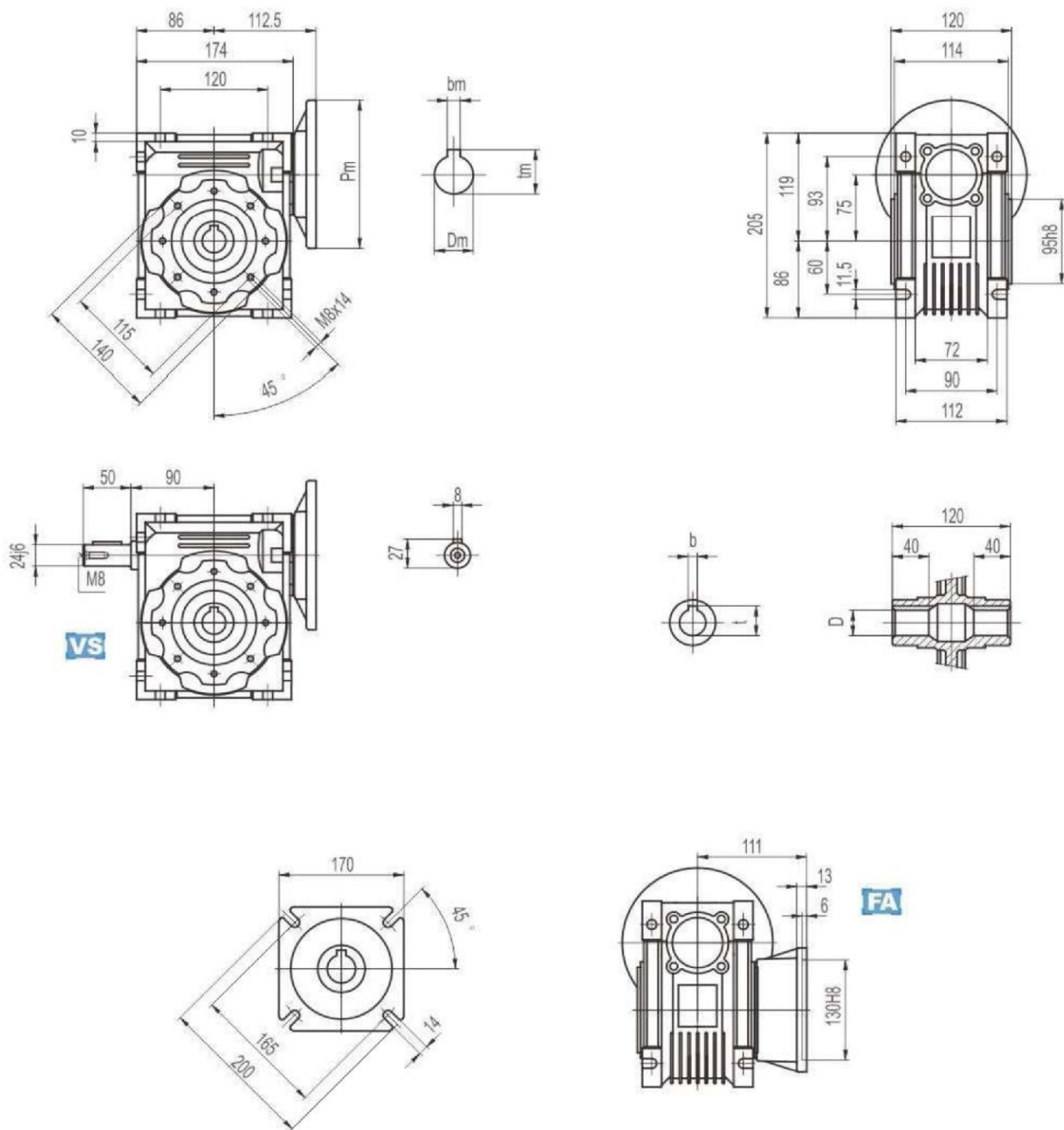
Output		
D H8	b	t
25 (24)	8 (8)	28.3 (27.3)

(..)Only on request
 * Weight without motor:3.5kg
 * input size (Pm, Dm, bm, tm)

BFG063


输出/Output		
D H8	b	t
25 (28)	8 (8)	28.3 (31.3)

(Pm, Dm, bm, tm)
 (..)Only on request
 * Weight without motor:6.2kg
 * input size (Pm, Dm, bm, tm)

BFG075


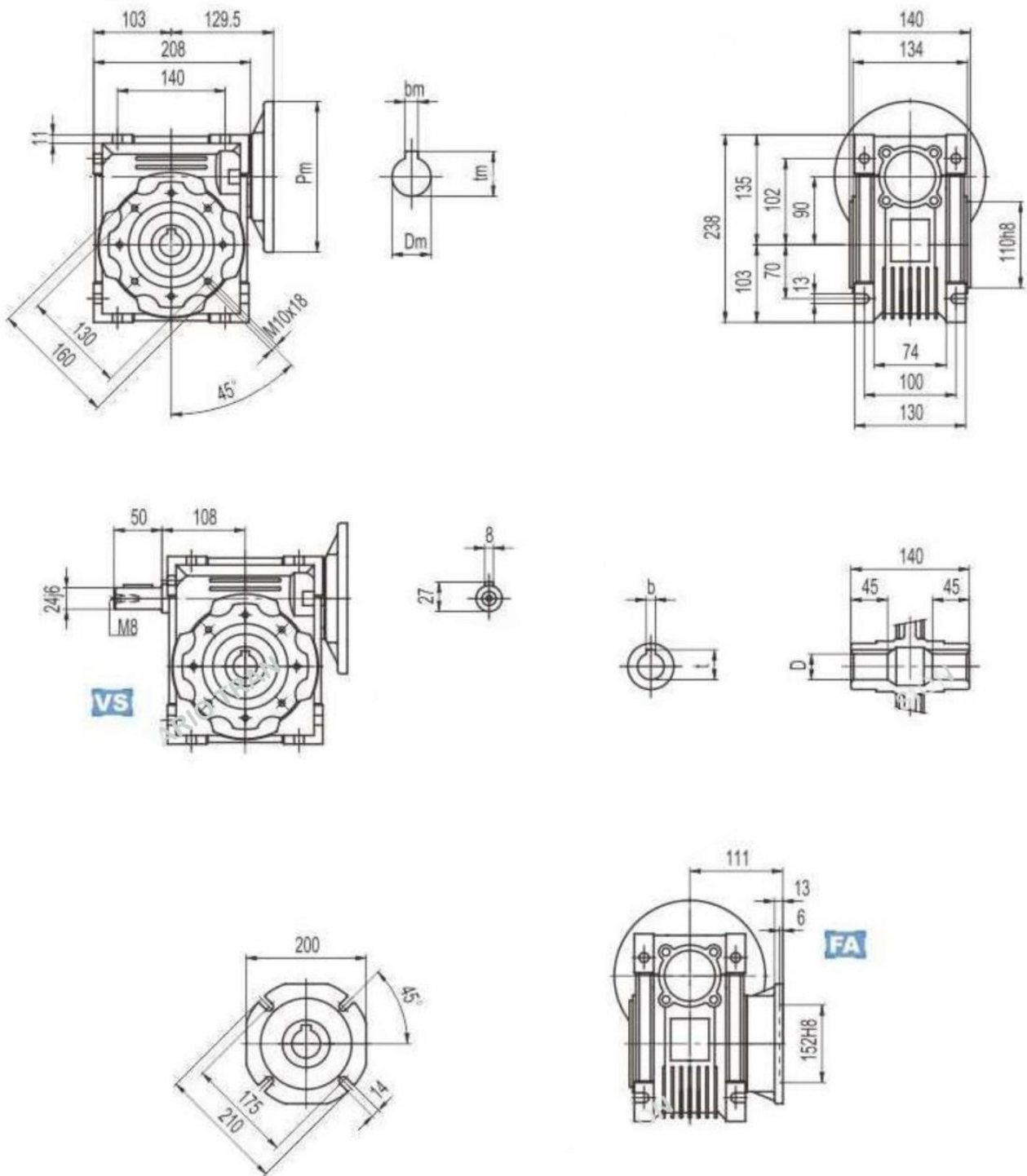
输出 /Output		
D H8	b	t
28 (35)	8 (10)	31.3 (38.3)

(Pm, Dm, bm, tm)

(..)Only on request

* Weight without motor:9kg

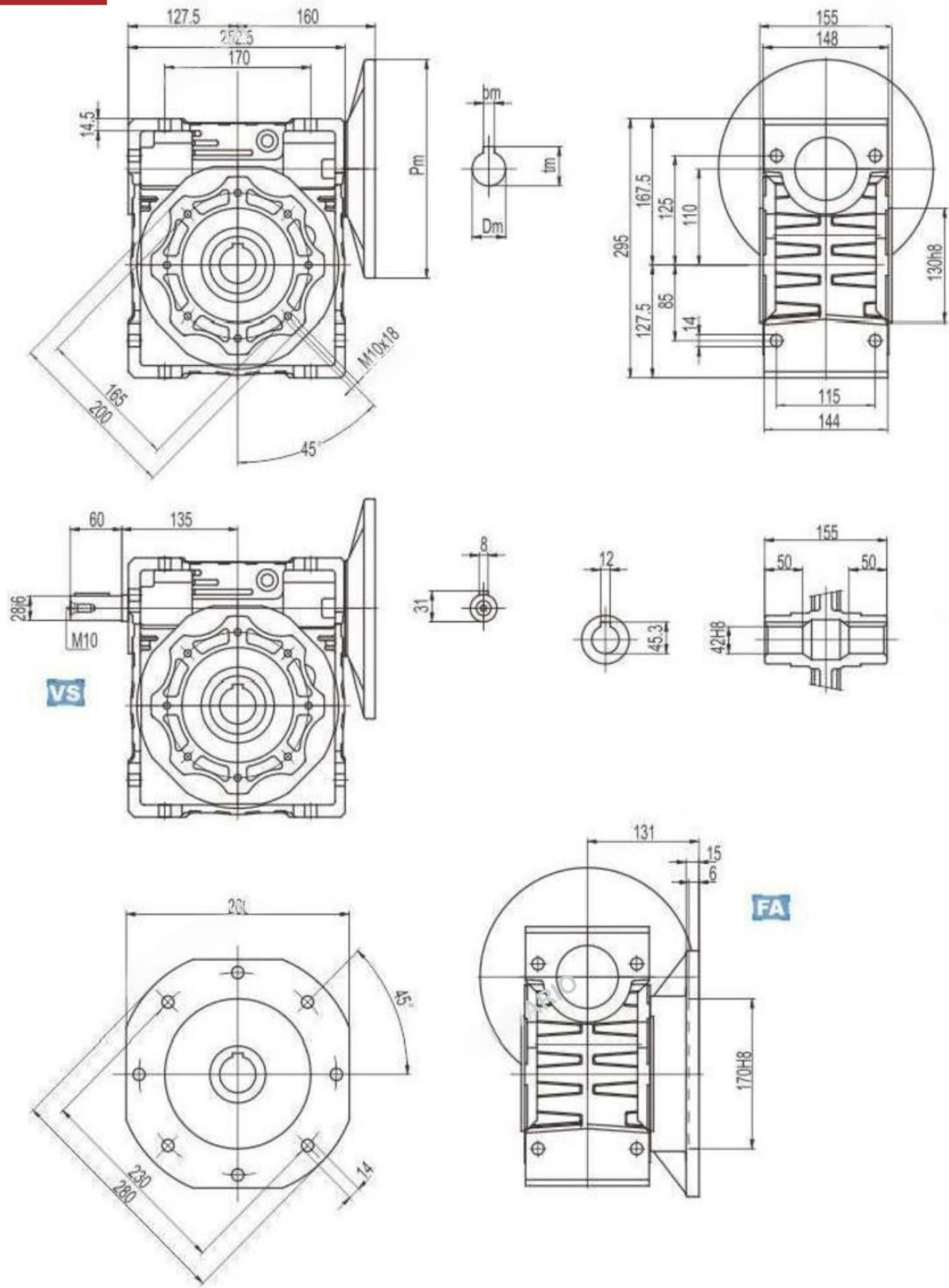
* input size (Pm, Dm, bm, tm)

BFG090


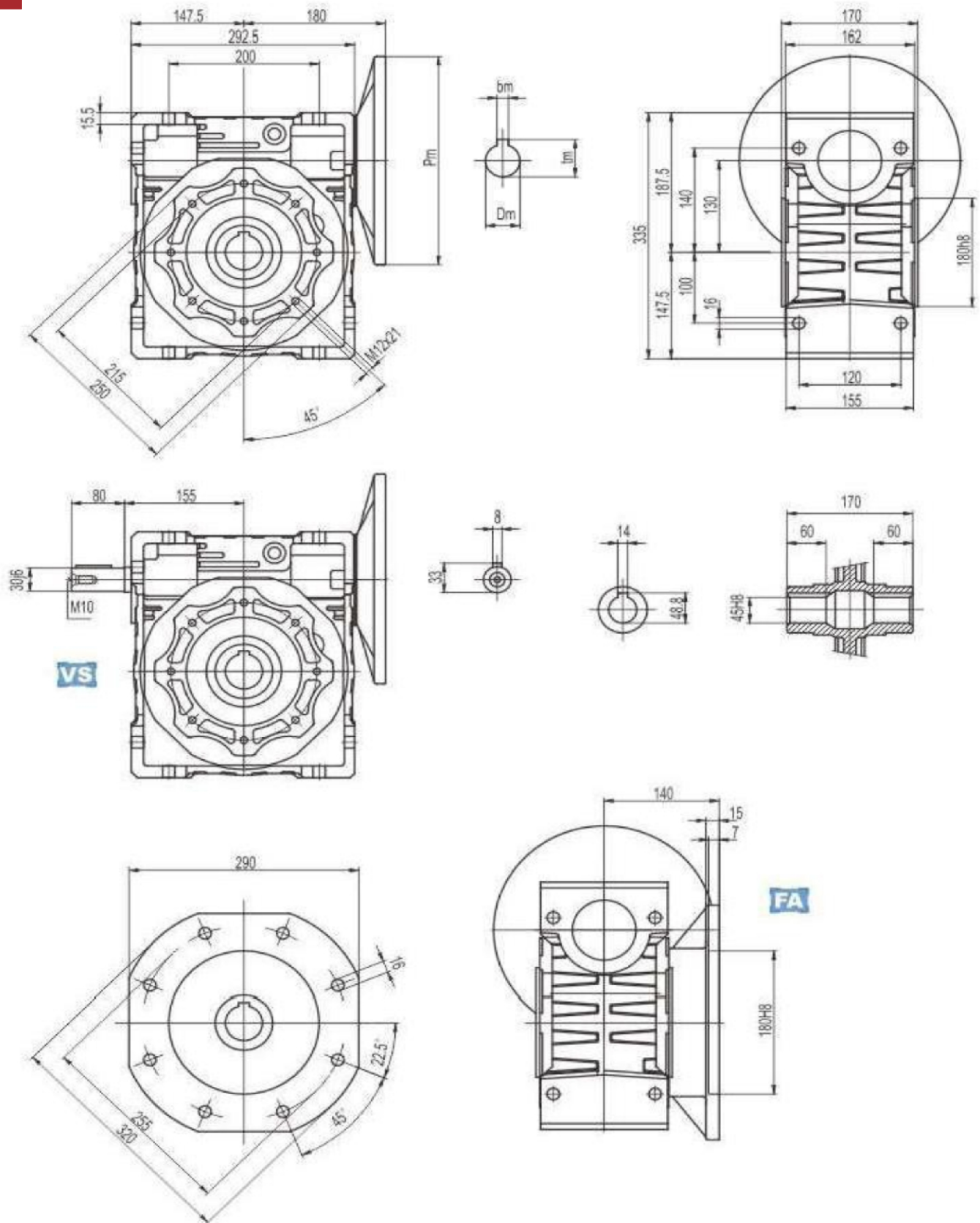
Output		
D H8	b	t
35 (38)	10 (10)	38.3 (41.3)

(..)Only on request
 * Weight without motor:13kg
 * input size (Pn, Dm, bm, tm)

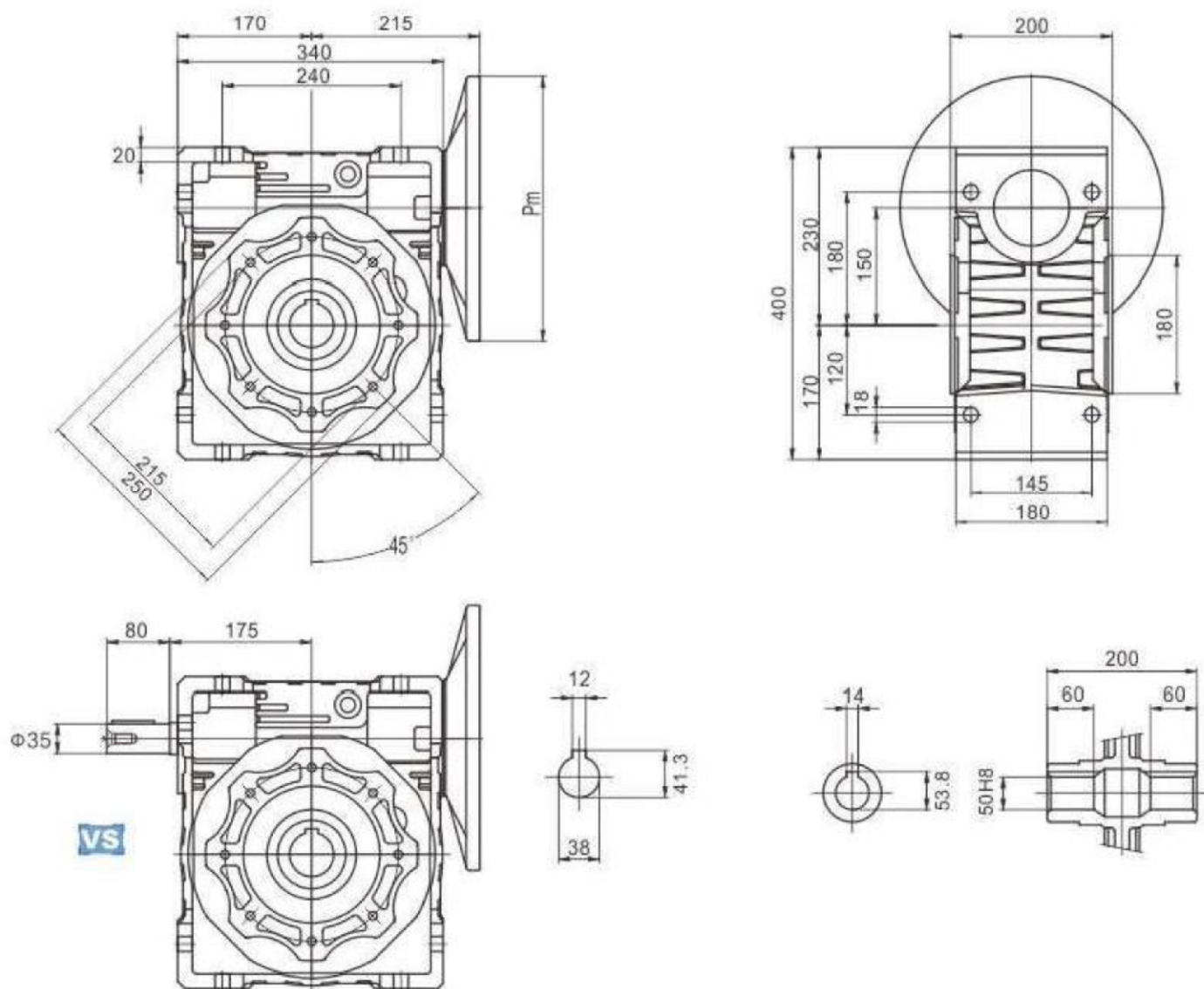
BFG110



* Weight without motor: 35kg
 * input size (Pm, Dm, bm, tm)

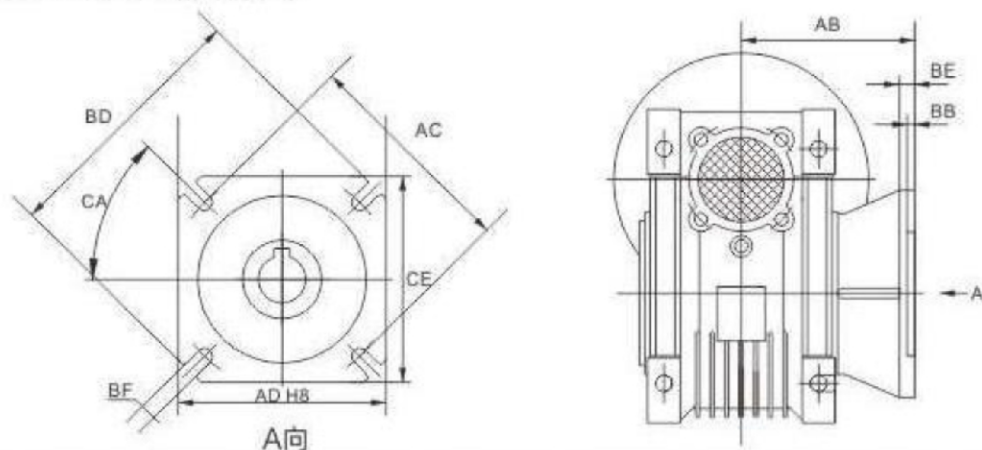
BFG130


* Weight without motor: 48kg
 * input size (Pm, Dm, bm, tm)

BFG150


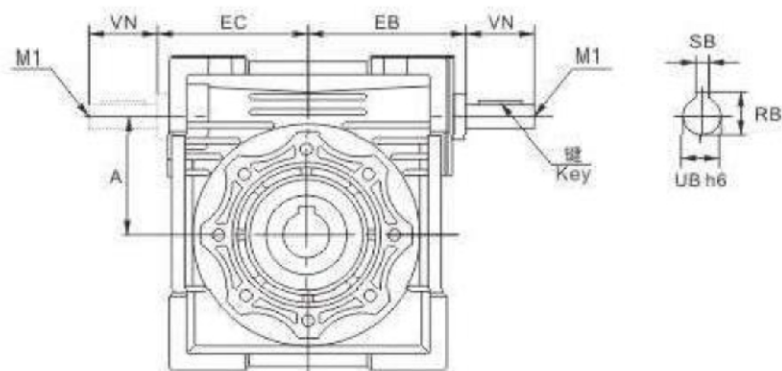
* Weight without motor: 87.8kg
 * input size (Pm, Dm, bm, tm)

Output Flange Mounting Dimensions



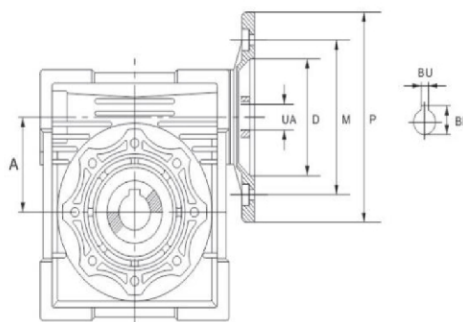
	25	30	40	50	63	75	90	110	130	150
AB	45	54.5	67	90	82	102	111	131	140	155
AC	55	68	80	85	150	165	175	230	255	255
AD	40	50	60	70	115	130	152	170	180	180
BB	3	4	4	5	6	6	6	6	6	7
BD	75	80	110	125	180	200	210	280	320	320
BE	6	6	7	9	10	13	13	15	15	15
BF	6.5(n.4)	6.5(n.4)	9(n.4)	11(n.4)	11(n.4)	14(n.4)	14(n.4)	Φ14(n.8)	Φ16(n.8)	Φ16(n.8)
CA	45°	45°	45°	45°	45°	45°	45°	45°	22.5°	22.5°
CE	70	70	95	110	142	170	200	260	290	290

BFG VS MOUNTING DIMENSIONS



	30	40	50	63	75	90	110	130	150
A	30	40	50	63	75	90	110	130	150
EB	50	61	74	90	105	125	142	162	195
EC	45	53	64	75	90	108	135	155	175
M1	—	—	M6	M6	M8	M8	M10	M10	M12
RB	10.2	12.5	16	21.5	27	27	31	33	33
SB	3	4	5	6	8	8	8	8	10
UB	9	11	14	19	24	24	28	30	35
VN	20	23	30	40	50	50	60	80	80
Input shaft flat key									
specification	3x3	4x4	5x5	6x6	8x7	8x7	8x7	8x7	10x8
length	15	20	25	35	45	45	55	70	70

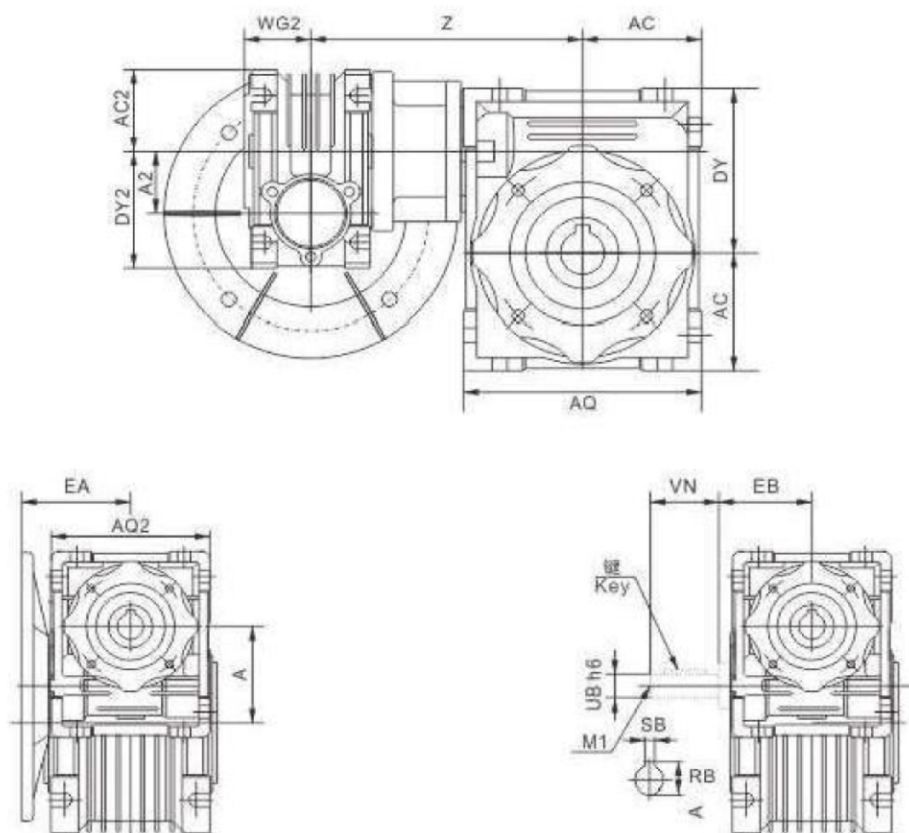
Single Step Worm Gear Reducer



CENTER DISTANCE A	MOTOR FLANGE						UA THE HOLE DIAMETER OF SHAFT										
	PAM	D	M	P	BU	BH	TRANSMISSION RATIO										
							7.5	10	15	20	25	30	40	50	60	80	100
25	56B14	50	65	80	3	10.4	9	9	9	9	9	9	9	9	9	9	—
30	63B5	95	115	140	4	12.8	11	11	11	11	11	11	11	11	11	11	—
	63B14	60	75	90													
	56B5	80	100	120	3	10.4	9	9	9	9	9	9	9	9	9	—	
	56B14	50	65	80													
40	71B5	110	130	160	5	16.3	14	14	14	14	14	14	14	14	14	14	—
	71B14	70	85	105													
	63B5	95	115	140	4	12.8	11	11	11	11	11	11	11	11	11	—	
	63B14	60	75	90													
	56B5	80	100	120	3	10.4	9	9	9	9	9	9	9	9	9	9	—
50	80B5	130	165	200	6	21.8	19	19	19	19	19	19	19	19	19	19	—
	80B14	80	100	120													
	71B5	110	130	160	5	16.3	14	14	14	14	14	14	14	14	14	—	
	71B14	70	85	105													
	63B5	95	115	140	4	12.8	11	11	11	11	11	11	11	11	11	11	—
63	90B5	130	165	200	8	27.3	24	24	24	24	24	24	24	24	24	24	24
	90B14	95	115	140													
	80B5	130	165	200	6	21.8	19	19	19	19	19	19	19	19	19	19	
	80B14	80	100	120													
	71B5	110	130	160	5	16.3	14	14	14	14	14	14	14	14	14	14	
	71B14	70	85	105													
75	100/112B5	180	215	250	8	31.3	28	28	28	28	28	28	28	28	28	28	28
	100/112B14	110	130	160													
	90B5	130	165	200	8	27.3	24	24	24	24	24	24	24	24	24	24	
	90B14	95	115	140													
	80B5	130	165	200	6	21.8	19	19	19	19	19	19	19	19	19	19	
	80B14	80	100	120													
90	100/112B5	180	215	250	8	31.3	28	28	28	28	28	28	28	28	28	28	28
	100/112B14	110	130	160													
	90B5	130	165	200	8	27.3	24	24	24	24	24	24	24	24	24	24	
	90B14	95	115	140													
	80B5	130	165	200	6	21.8	19	19	19	19	19	19	19	19	19	19	
	80B14	80	100	120													

Double Step Worm Gear Reducer

BFG (D) Mounting Dimensions



	25/30	25/40	30/40	30/50	30/63	40/75	40/90	50/110	63/130	63/150
A	30	40	40	50	63	75	90	110	130	150
A2	25	25	30	30	30	40	40	50	63	63
AC	40	50	50	60	72	86	103	127.5	147.5	170
AC2	35	35	40	40	40	50	50	60	72	72
AQ	80	100	100	120	144	172	206	252.5	292.5	340
AQ2	70	70	80	80	80	100	100	120	144	144
DY	57	71	71	84	102	119	135	167.5	187.5	230
DY2	48	48	57	57	57	71	71	84	102	102
EA	45	63	63	63	63	71	71	80	95	95
EB	-	-	50	50	50	61	61	74	90	90
M1	-	-	-	-	-	-	-	M6	M6	M6
RB	-	-	10.2	10.2	10.2	12.5	12.5	16	21.5	21.5
SB	-	-	3	3	3	4	4	5	6	6
UB	-	-	9	9	9	11	11	14	19	19
VN	-	-	20	20	20	23	23	30	40	40
WG2	22.5	22.5	29	29	29	36.5	36.5	43.5	53	53
Z	100	115	122	132	145	167.5	184.5	226	245	275
Input shaft flat key										
specification	-	-	3x3	3x3	3x3	4x4	4x4	5x5	6x6	6x6
length	-	-	15	15	15	20	20	25	35	35

PARAMETER SELCTIONS

MODEL CODE	OUTPUT SPEED r/min	OUTPUT TORQUE N.m	TRANSMISSION RATIO i	OUTPUT RADIAL FORCE kN	fs
0.06KW					
025	186.7	2.6	7.5	0.5	4.2
	140	3.4	10	0.55	3.5
	93.3	4.9	15	0.63	2.5
	70	6.1	20	0.69	2.0
	46.7	8.2	30	0.79	1.6
	35	10	40	0.87	1.3
	28	12	50	0.94	0.9
	23.3	14	60	1	0.7
030	186.7	2.6	7.5	0.68	6.9
	140	3.4	10	0.75	5.4
	93.3	4.7	15	0.86	3.8
	70	6.0	20	0.94	3.0
	56	7.0	25	1.02	3.0
	46.7	8.0	30	1.08	2.5
	35	9.7	40	1.19	1.9
	28	11	50	1.28	1.5
025	23.3	13	60	1.36	1.3
	17.5	14	80	1.5	0.9
0.09KW					
025	186.7	3.9	7.5	0.5	2.8
	140	5.1	10	0.55	2.4
	9.3	7.3	15	0.63	1.6
	70	9.2	20	0.69	1.3
	4637	12	30	0.79	1.1
	35	15	40	0.87	0.9
030	186.7	3.9	7.5	0.68	4.6
	140	5	10	0.75	3.6
	93.3	7.1	15	0.86	2.5
	70	9	20	0.94	2.0
	56	10	25	1.02	2.0
	46.7	12	30	1.08	1.7
	35	14	40	1.19	1.2
	28	17	50	1.28	1.0
030	23.3	19	60	1.36	0.9
	28	19	50	2.47	2
040	23.3	21	60	2.63	1.7
	17.5	26	80	2.89	1.3
	14	29	100	3.11	1
0.12KW					
030	186.7	5.2	7.5	0.68	3.4

MODEL CODE	OUTPUT SPEED n/m	OUTPUT TORQUE N.m	TRANSMISSION RATIO i	OUTPUT RADIAL FORCE kN	fs
0.12KW					
030	140	6.7	10	0.75	2.7
	93.3	9.5	15	0.86	1.9
	70	12	20	0.94	1.5
	56	14	25	1.02	1.5
	46.7	16	30	1.08	1.3
	35	17	40	1.19	0.9
	28	23	50	1.28	0.8
	46.7	17.2	30	2.08	2.6
040	35	21	40	2.29	1.9
	28	25	50	2.47	1.5
	23.3	28	60	2.63	1.3
	17.5	34	80	2.89	1
050	14	38	100	3.11	0.8
	23.3	29	60	3.61	2.3
	17.5	35	80	3.97	1.9
	14	40	100	4.28	1.4
0.18KW					
030	186.7	7.8	7.5	0.68	2.3
	140	10	10	0.75	1.8
	93.3	14	15	0.86	1.3
	70	18	20	0.94	1
	56	21	25	1.02	1
	46.7	24	30	1.08	0.8
040	70	19	20	1.82	2
	56	23	25	1.96	1.7
	46.7	26	30	2.08	1.7
	35	32	40	2.29	1.3
	28	38	50	2.47	1
	23.3	43	60	2.63	0.8
050	35	32	40	3.15	2.3
	28	39	50	3.39	1.9
	23.3	43	60	3.61	1.6
	17.5	52	80	3.97	1.2
	14	60	100	4.28	0.9
0.25KW					
040	186.7	11	7.5	1.31	3.6
	140	14	10	1.44	2.8
	93.3	21	15	1.65	1.9
	70	27	20	1.82	1.5

MODEL CODE	OUTPUT SPEED r/min	OUTPUT TORQUE N.m	TRANSMISSION RATIO i	OUTPUT RADIAL FORCE kN	fs
040	56	32	25	1.96	1.2
	46.7	36	30	2.08	1.3
	35	44	40	2.29	0.9
	28	37	50	2.47	0.8
050	70	26	20	2.5	2.7
	56	32	25	2.69	2.2
	46.7	37	30	2.86	2.3
	35	46	40	3.15	1.7
	28	54	50	3.39	1.4
	23.3	60	60	3.61	1.1
	17.5	72	80	3.97	0.9
063	28	56	50	4.44	2.4
	23.3	63	60	4.71	2
	17.5	78	80	5.19	1.6
	14	87	100	5.59	1.4
0.37kw					
040	186.7	16	7.5	1.31	2.4
	140	21	10	1.44	1.9
	93.3	31	15	1.65	1.3
	70	39	20	1.82	1
	56	47	25	1.96	0.8
	46.7	53	30	2.08	0.8
050	140	21	10	1.98	3.3
	93.3	31	15	2.27	2.4
	70	40	20	2.5	1.8
	56	48	25	2.69	1.5
	46.7	55	30	2.86	1.5
	35	68	40	3.15	1.1
	28	80	50	3.39	0.9
	23.3	89	60	3.61	0.8
063	35	70	40	4.12	2.1
	28	83	50	4.44	1.6
	23.3	94	60	4.71	1.4
	17.5	115	80	5.19	1.1
	14	129	100	5.59	0.9
0.55kw					
050	186.7	25	7.5	1.8	2.9
	140	32	10	1.98	2.2
	93.3	46	15	2.27	1.6
	70	59	20	2.5	1.2
	56	71	25	2.69	1
	46.7	81	30	2.86	1
	35	80	40	3.15	0.9

MODEL CODE	OUTPUT SPEED r/min	OUTPUT TORQUE N.m	TRANSMISSION RATIO i	OUTPUT RADIAL FORCE kN	fs
0.55KW					
063	70	60	20	3.27	2.2
	56	73	25	3.52	1.8
	46.7	83	30	3.74	1.9
	35	105	40	4.12	1.4
	28	124	50	4.44	1.1
	23.3	140	60	4.71	0.9
075	35	108	40	4.86	2.0
	28	129	50	5.24	1.6
	23.3	146	60	5.56	1.4
	17.5	180	80	6.13	1.1
	14	206	100	6.6	0.9
090	17.5	189	80	6.78	1.5
	14	221	100	7.3	1.2
0.75kw					
050	186.7	34	7.5	1.8	2.1
	140	44	10	1.98	1.6
	93.3	63	15	2.27	1.2
	70	81	20	2.5	0.9
063	93.3	63	15	2.97	2.2
	70	83	20	3.27	1.6
	56	100	25	3.52	1.3
	46.7	114	30	3.74	1.4
	35	143	40	4.12	1
075	56	102	25	4.16	2.0
	46.7	117	30	4.42	2.0
	35	147	40	4.86	1.5
	28	177	50	5.24	1.2
090	23.3	200	60	5.56	1.0
	28	184	50	5.79	1.8
	23.3	212	60	6.16	1.5
	17.5	258	80	6.78	1.1
063	14	302	100	7.3	0.9
1.1KW					
063	186.7	49	7.5	2.35	2.6
	140	65	10	2.59	2
	93.3	93	15	2.97	1.5

DOUBLE STEP REDUCER (FLANGE INPUT, INPUT SPEED IS 1400r/min (with 4 poles motor)

COMBINATION MODEL CODE	OUTPUT SPEED r/min	OUTPUT TORQUE N.m	GENERAL TRANSMISSION RATIO i	HIGH SPEED TRANS MISSION RATIO i	LOW SPEED TRANS MISSION RATIO i	OUTPUT RADIAL FORCE kN	fs
0.06kw							
25/30	14	25	100	10	10	1.62	1.3
	9.3	32	150	10	15	1.83	0.9
	7	41	200	10	20	1.83	0.7
	5.6	44	250	10	25	1.83	0.8
25/40	4.7	59	300	10	30	3.49	1.2
	3.5	71	400	10	40	3.49	0.9
	2.8	82	500	20	25	3.49	0.7
	2.3	101	600	20	30	3.49	0.6
	1.9	116	750	25	30	3.49	0.5
	1.6	143	900	30	30	3.49	0.5
	1.2	171	1200	30	40	3.49	0.4
	0.9	197	1500	50	30	3.49	0.3
	0.78	217	1800	60	30	3.49	0.3
	0.6	268	2400	60	40	3.49	0.2
	0.5	324	3000	60	50	3.49	0.2
	0.4	294	4000	50	80	3.49	0.1
	0.3	256	5000	50	100	3.49	0.1
	4.7	57	300	10	30	3.49	1.3
	3.5	70	400	10	40	3.49	0.9
	2.8	96	500	20	25	3.49	0.6
30/40	2.3	104	600	20	30	3.49	0.7
	1.9	121	750	25	30	3.49	0.6
	1.6	139	900	30	30	3.49	0.5
	1.2	166	1200	30	40	3.49	0.4
	0.9	196	1500	50	30	3.49	0.4
	0.78	218	1800	60	30	3.49	0.3
	0.58	261	2400	60	40	3.49	0.2
	1.4	300	3200	60	40	3.49	0.2
	0.4	279	4000	50	80	3.49	0.1
	0.28	338	5000	50	100	3.49	0.1
30/50	1.6	141	900	30	30	4.84	1
	1.2	169	1200	30	40	4.84	0.7
	0.93	199	1500	50	30	4.84	0.7
	0.78	222	1800	60	30	4.84	0.7
	0.6	266	2400	60	40	4.84	0.5
	0.5	307	3000	60	50	4.84	0.4
	0.35	288	4000	50	80	4.84	0.3
	0.29	311	4800	60	80	4.84	0.3
30/63	0.9	203	1500	30	50	6.27	1.1
	0.78	225	1800	30	60	6.27	0.9
	0.58	276	2400	60	40	6.27	0.8

COMBINATION MODEL CODE	OUTPUT SPEED r/min	OUTPUT TORQUE N.m	GENERAL TRANSMISSION RATIO i	HIGH SPEED TRANS MISSION RATIO i	LOW SPEED TRANS MISSION RATIO i	OUTPUT RADIAL FORCE kN	fs
0.06							
30/63	0.47	319	3000	60	50	6.27	0.7
	0.35	306	4000	50	80	6.27	0.6
	0.28	360	5000	50	100	6.27	0.4
	0.6	330	2400	60	40	7.38	1.1
40/75	0.47	377	3000	60	50	7.38	0.8
	0.35	355	4000	50	80	7.38	0.7
	0.28	419	5000	50	100	7.38	0.5
40/90	0.5	405	3000	60	50	8.18	1.4
	0.35	365	4000	50	80	8.18	1.3
	0.28	431	5000	50	100	8.18	1.0
0.09 kw							
25/30	14	37	100	10	10	1.62	0.8
	9.3	49	150	10	15	1.83	0.6
	7	62	200	10	20	1.83	0.5
	5.6	66	250	10	25	1.83	0.5
	4.7	75	300	10	30	1.83	0.4
	3.5	107	400	10	40	1.83	0.3
	2.8	115	500	20	25	1.83	0.2
	2.3	135	600	20	30	1.83	0.2
	1.9	151	750	25	30	1.83	0.2
	1.6	178	900	30	30	1.83	0.2
	1.2	212	1200	30	40	1.83	0.1
	0.9	247	1500	50	30	1.83	0.1
	0.78	304	1800	60	30	1.83	0.1
	0.58	340	2400	60	40	1.83	0.1
	0.47	405	3000	60	50	1.83	0.1
	4.7	88	300	10	30	3.49	0.8
30/40	3.5	107	400	10	40	4.84	1.2
	2.8	123	500	10	50	4.84	1.0
	2.3	159	600	20	30	4.84	0.9
	1.9	185	750	25	30	4.84	0.8
30/50	1.6	212	900	30	30	4.84	0.7
	1.6	200	900	15	60	6.27	1.0
	1.2	263	1200	30	40	6.27	0.9
30/63	0.93	305	1500	30	50	6.27	0.7
	0.9	359	1500	50	30	7.38	1.1
	0.78	404	1800	60	30	7.38	1.0
40/75	0.58	496	2400	60	40	7.38	0.7
	0.5	608	3000	60	50	8.18	0.9
	0.35	548	4000	50	80	8.18	0.8

COMBINATION MODEL CODE	OUTPUT SPEED r/min	OUTPUT TORQUE N.m	GENERAL TRANSMISSION RATIO i	HIGH SPEED TRANSMISSION RATIO i	LOW SPEED TRANSMISSION RATIO i	OUTPUT RADIAL FORCE kN	f _s
0.12kw							
30/50	4.7	118	300	10	30	4.84	1.2
	3.5	142	400	10	40	4.84	0.9
	2.8	164	500	10	50	4.84	0.7
30/63	2.8	171	500	10	50	6.27	1.3
	2.3	208	600	15	40	6.27	1.1
	1.9	241	750	15	50	6.27	0.9
40/75	1.6	324	900	30	30	7.38	1.2
	1.2	399	1200	30	40	7.38	0.9
40/90	0.78	546	1800	30	60	8.18	0.9
	0.58	695	2400	60	40	8.18	0.9
50/110	0.5	883	3000	60	50	10.32	1.2
	0.35	784	4000	50	80	10.32	1.0
	0.28	928	5000	50	100	10.32	0.8
0.18kw							
30/63	3.5	221	400	10	40	6.27	1.0
	2.8	257	500	10	50	6.27	0.8
40/75	2.3	362	600	20	30	7.38	1.1
	1.9	435	750	25	30	7.38	0.9
	1.6	487	900	30	30	7.38	0.8
40/90	1.2	639	1200	30	40	8.18	1.0
	0.93	735	1500	30	50	8.18	0.8
50/110	0.78	860	1800	60	30	10.32	1.5
	0.58	1113	2400	60	40	10.32	1.1
0.25kw							
30/63	3.5	159	400	10	40	6.27	1.4
	2.8	185	500	10	50	6.27	1.2
40/75	3.5	336	400	10	40	7.38	1.1
	2.8	384	500	10	50	7.38	0.8
40/90	2.3	511	600	15	40	8.18	1.2
	1.9	598	750	15	50	8.18	0.9
	1.6	667	900	15	60	8.18	0.8
50/110	1.2	943	1200	30	40	10.32	1.3
	0.93	1064	1500	50	30	10.32	1.2
	0.78	1195	1800	60	30	10.32	1.1
63/130	0.6	1624	2400	60	40	13.5	1.0
	0.47	1935	3000	60	50	13.5	0.8

COMBINATION MODEL CODE	OUTPUT SPEED r/min	OUTPUT TORQUE N.m	GENERAL TRANSMISSION RATIO i	HIGH SPEED TRANSMISSION RATIO i	LOW SPEED TRANSMISSION RATIO i	OUTPUT RADIAL FORCE kN	f _s
0.25kw							
63/130	0.35	2046	4000	50	80	13.5	0.6
	0.28	2430	5000	50	100	13.5	0.5
63/150	0.78	1199	1800	60	30	18	1.8
	0.6	1446	2400	60	40	18	1.8
	0.5	1713	3000	60	50	18	1.4
	0.4	2026	4000	50	80	18	0.9
	0.3	2251	5000	50	100	18	0.7
0.37kw							
40/75	4.7	405	300	10	30	7.38	1
	3.5	498	400	10	40	7.38	0.7
40/90	4.7	401	300	7.5	40	8.18	1.5
	3.5	523	400	10	40	8.18	1.2
	2.8	611	500	10	50	8.18	0.9
	2.3	757	600	15	40	8.18	0.8
50/110	1.9	949	750	25	30	10.32	1.3
	1.6	1079	900	30	30	10.32	1.2
	1.2	1396	1200	30	40	10.32	0.8
63/130	0.9	1674	1500	50	30	13.5	1.1
	0.78	1887	1800	60	30	13.5	0.9
63/150	0.78	1774	1800	60	30	18	1.2
	0.6	2141	2400	60	40	18	1.2
	0.5	2535	3000	60	50	18	0.9
0.55kw							
50/110	4.7	638	300	10	30	10.32	2.0
	3.5	826	400	10	40	10.32	1.4
	2.8	984	500	10	50	10.32	1.1
	2.3	1181	600	15	40	10.32	1.0
	1.9	1411	750	25	30	10.32	0.9
63/130	2.8	995	500	10	50	13.5	1.6
	1.9	1471	750	25	30	13.5	1.2
	1.2	2132	1200	30	40	13.5	0.8
63/150	0.78	2637	1800	60	30	18	0.8
	0.6	3182	2400	60	40	18	0.8

COMBINATION MODEL CODE	OUTPUT SPEED r/min	OUTPUT TORQUE N.m	GENERAL TRANSMISSION RATIO i	HIGH SPEED TRANSMISSION RATIO i	LOW SPEED TRANSMISSION RATIO i	OUTPUT RADIAL FORCE kN	fs
50/110	0.75KW						
	4.7	871	300	10	30	10.32	1.5
	3.5	1126	400	10	40	10.32	1.1
63/130	2.8	1357	500	10	50	13.5	1.1
	2.3	1631	600	15	40	13.5	1.0
	1.9	2005	750	25	30	13.5	0.9
	1.6	2283	900	30	30	13.5	0.8
63/150	2.8	1290	500	10	50	18	1.8
	2.3	1529	600	15	40	18	1.7
	1.9	1783	750	25	30	18	1.3
	1.6	2215	900	30	30	18	0.9
	1.2	2680	1200	30	40	18	1.0
63/130	1.1KW						
	4.7	1312	300	10	30	13.5	1.3
	3.5	1671	400	10	40	13.5	1
	2.8	1991	500	10	50	13.5	0.8
63/150	9.3	752	150	10	15	18	3.1
	7	966	200	10	20	18	2.4
	5.6	1175	250	10	25	18	1.7
	4.7	1364	300	10	30	18	1.7
	3.5	1619	400	10	40	18	1.6
	2.8	1893	500	10	50	18	1.2
	2.3	2242	600	15	40	18	1.2
	1.9	2616	750	25	30	18	0.9
63/130	1.5KW						
	4.7	1789	300	10	30	13.5	1
	3.5	2279	400	10	40	13.5	0.7
63/150	9.3	1026	150	10	15	18	2.3
	7	1317	200	10	20	18	1.8
	5.6	1602	350	10	25	18	1.3
	4.7	1860	300	10	30	18	1.3
	3.5	2208	400	10	0	18	1.2
	2.8	2582	500	10	50	18	0.9
	2.3	3057	600	15	40	18	0.9

Single Step Reducer (Shaft Extend Input,input speed is 1400r/min)

MODEL CODE	INPUT POWER KW	OUTPUT SPEED r/min	OUTPUT TORQUE N.m	TRANSMISSION RATIO i	OUTPUT RADICAL FORCE Kn	INPUT RADICAL FORCE Kn
30	0.4	186.7	18	7.5	0.68	0.68
	0.3	140	18	10	0.75	0.75
	0.2	93.3	18	15	0.86	0.86
	0.2	70	18	20	0.94	0.94
	0.2	56	21	25	1.02	1.02
	0.2	46.7	20	30	1.08	1.08
	0.1	35	18	40	1.19	1.19
	0.1	28	17	50	1.28	1.28
	0.1	23.3	16	60	1.36	1.36
	0.1	17.5	13	80	1.5	1.5
40	0.9	186.7	40	7.5	1.31	0.29
	0.7	140	40	10	1.44	0.33
	0.5	93.3	40	15	1.65	0.33
	0.4	70	39	20	1.82	0.35
	0.3	56	38	25	1.96	0.35
	0.3	46.7	45	30	2.08	0.35
	0.2	35	41	40	2.29	0.35
	0.2	28	39	50	2.47	0.35
	0.2	23.3	36	60	2.63	0.35
	0.1	17.5	33	80	2.89	0.35
50	0.1	14	29	100	3.11	0.35
	1.6	186.7	71	7.5	1.8	0.4
	1.2	140	72	10	1.98	0.49
	0.9	93.3	74	15	2.27	0.49
	0.7	70	73	20	2.5	0.49
	0.5	56	70	25	2.69	0.49
	0.6	46.7	84	30	2.86	0.49
	0.4	35	76	40	3.15	0.49
	0.3	28	73	50	3.39	0.49
	0.3	23.3	68	60	3.61	0.49
63	0.2	17.5	65	80	3.97	0.49
	0.2	14	55	100	4.28	0.49
	2.8	186.7	128	7.5	2.35	0.5
	2.2	140	130	10	2.59	0.57
	1.6	93.3	140	15	2.97	0.61
	1.2	70	135	20	3.27	0.66
	1.0	56	130	25	3.52	0.70
	1.1	46.7	160	30	3.74	0.70
	0.8	35	145	40	4.12	0.70
	0.6	28	135	50	4.44	0.70
63	0.5	23.3	130	60	4.71	0.70

MODEL CODE	INPUT POWER KW	OUTPUT SPEED r/min	OUTPUT TORQUE N.m	TRANSMISSION RATIO i	OUTPUT RADICAL FORCE Kn	INPUT RADICAL FORCE Kn
63	0.4	17.5	122	80	5.19	0.70
	0.3	14	118	100	5.59	0.70
75	4.1	186.7	185	7.5	2.78	0.7
	3.2	140	195	10	3.06	0.83
	2.3	93.3	200	15	3.5	0.85
	1.9	70	210	20	3.86	0.98
	1.5	56	200	25	4.16	0.98
	1.5	46.7	230	30	4.42	0.98
	1.1	35	220	40	4.86	0.98
	0.9	28	210	50	5.24	0.98
	0.8	23.3	200	60	5.56	0.98
	0.6	17.5	190	80	6.13	0.98
90	0.5	14	180	100	6.6	0.98
	6.3	186.7	290	7.5	3.08	0.9
	5.1	140	310	10	3.39	1.08
	4.1	93.3	360	15	3.88	1.25
	3.1	70	355	20	4.27	1.27
	2.4	56	340	25	4.6	1.27
	2.6	46.7	410	30	4.89	1.27
	1.8	35	360	40	5.38	1.27
	1.4	28	340	50	5.79	1.27
	1.1	23.3	320	60	6.16	1.27
110	0.8	17.5	285	80	6.78	1.27
	0.7	14	270	100	7.3	1.27
	12	186.7	552	7.5	3.89	1.2
	9.8	140	598	10	4.28	1.46
	7.5	93.3	656	15	4.90	1.60
	5.6	70	644	20	5.39	1.70
	4.7	56	679	25	5.81	1.70
	4.5	46.7	725	30	6.18	1.70
	3.3	35	702	40	6.8	1.70
	2.6	28	660	50	7.32	1.70
130	2.1	23.3	616	60	7.78	1.70
	1.4	17.5	515	80	8.57	1.70
	1.1	14	483	100	9.23	1.70
	16.1	186.7	750	7.5	5.09	1.5
	13.5	140	820	10	5.6	1.84
	10.3	93.3	920	15	6.41	2.07
	7.8	70	910	20	7.06	2.1
	6.5	56	930	25	7.6	2.1

MODEL CODE	INPUT POWER KW	OUTPUT SPEED r/min	OUTPUT TORQUE N.m	TRANSMISSION RATIO i	OUTPUT RADICAL FORCE Kn	INPUT RADICAL FORCE Kn
130	6.4	46.7	1040	30	8.08	2.10
	4.9	35	1050	40	8.89	2.10
	3.8	28	980	50	9.58	2.10
	3.1	23.3	900	60	10.18	2.10
	2.3	17.5	840	80	11.21	2.10
	1.7	14	740	100	12.07	2.10
150	25.8	186.7	1200	7.5	6.96	1.95
	20.2	140	1240	10	7.66	2.26
	13.9	93.3	1250	15	8.77	2.28
	11.1	70	1300	20	9.65	2.67
	8.4	56	1200	25	10.40	2.80
	7.1	46.7	1200	30	11.05	2.80
	7.3	35	1550	40	12.16	2.80
	5.4	28	1400	50	13.10	2.80
	4.2	23.3	1260	60	13.92	2.80
	3.1	17.5	1150	80	15.32	2.80
	2.3	14	1000	100	16.50	2.80

Double Step Reducer (Shaft Extend Input,input speed is 1400r/min)

MOD EL CODE	INPU T POW ER KW	OUTP UT SPEED r/min	OUTP UT TORQ UE N.m	TRANSMISS ION RATIO i	OUTP UT RADIC AL FORCE Kn	INPUT RADIC AL FORCE Kn	MOD EL CODE	INPU T POW ER KW	OUTP UT SPEED r/min	OUTP UT TORQ UE N.m	TRANSMISS ION RATIO i	OUTP UT RADIC AL FORCE Kn	INPUT RADIC AL FORCE Kn
30/40	0.1	4.7	73	300	3.49	0.21	40/75	0.2	2.3	390	600	7.38	0.35
	0.1	3.5	65	400	3.49	0.21		0.2	1.9	390	750	7.38	0.35
	0.08	2.8	61	500	3.49	0.21		0.14	1.6	390	900	7.38	0.35
	0.06	2.3	73	600	3.49	0.21		0.11	1.2	360	1200	7.38	0.35
	0.04	1.9	73	750	3.49	0.21		0.1	0.93	390	1500	7.38	0.35
	0.03	0.6	73	900	3.49	0.21		0.1	0.78	390	1800	7.38	0.35
	0.02	1.2	65	1200	3.49	0.21		0.1	0.58	360	2400	7.38	0.35
	0.02	0.9	73	1500	3.49	0.21		0.1	0.47	320	3000	7.38	0.35
	0.02	0.78	73	1800	3.49	0.21		0.08	0.35	250	4000	7.38	0.35
	0.01	0.58	65	2400	3.49	0.21		0.06	0.28	230	5000	7.38	0.35
	0.01	0.4	65	3200	3.49	0.21		0.6	4.7	610	300	8.18	0.35
	0.01	0.35	33	4000	3.49	0.21		0.43	3.5	610	400	8.18	0.35
	0.01	0.28	29	5000	3.49	0.21		0.34	2.8	560	500	8.18	0.35
30/50	0.15	4.7	145	300	4.84	0.21	50/110	0.3	2.3	610	600	8.18	0.35
	0.1	3.5	124	400	4.84	0.21		0.23	1.9	560	750	8.18	0.35
	0.1	2.8	120	500	4.84	0.21		0.2	1.6	505	900	8.18	0.35
	0.1	2.3	145	600	4.84	0.21		0.2	1.2	610	1200	8.18	0.35
	0.1	1.9	145	750	4.84	0.21		0.14	0.93	560	1500	8.18	0.35
	0.1	1.6	145	900	4.84	0.21		0.11	0.78	505	1800	8.18	0.35
	0.08	1.2	124	1200	4.84	0.21		0.11	0.58	610	2400	8.18	0.35
	0.06	0.93	145	1500	4.84	0.21		0.1	0.47	560	3000	8.18	0.35
	0.04	0.78	145	1800	4.84	0.21		0.1	0.35	460	4000	8.18	0.35
	0.03	0.6	124	2400	4.84	0.21		0.1	0.28	410	5000	8.18	0.35
	0.02	0.5	120	3000	4.84	0.21		1.1	4.7	1265	300	10.32	0.49
	0.02	0.35	82	4000	4.84	0.21		0.8	3.5	1185	400	10.32	0.49
	0.02	0.29	82	4800	4.84	0.21		0.61	2.8	1100	500	10.32	0.49
	0.24	4.7	230	300	6.27	0.21		0.6	2.3	1185	600	10.32	0.49
30/63	0.2	3.5	230	400	6.27	0.21	63/130	0.5	1.9	1265	750	10.32	0.49
	0.2	2.8	216	500	6.27	0.21		0.43	1.6	1265	900	10.32	0.49
	0.13	2.3	230	600	6.27	0.21		0.31	1.2	1186	1200	10.32	0.49
	0.11	1.9	216	750	6.27	0.21		0.3	0.93	1265	1500	10.32	0.49
	0.1	1.6	198	900	6.27	0.21		0.3	0.78	1265	1800	10.32	0.49
	0.1	1.2	230	1200	6.27	0.21		0.2	0.58	1185	2400	10.32	0.49
	0.1	0.93	216	1500	6.27	0.21		0.15	0.47	1100	3000	10.32	0.49
	0.1	0.78	198	1800	6.27	0.21		0.13	0.35	819	4000	10.32	0.49
	0.1	0.58	230	2400	6.27	0.21		0.1	0.28	746	5000	10.32	0.49
	0.08	0.47	216	3000	6.27	0.21		1.5	4.7	1760	300	13.5	0.7
	0.06	0.35	172	4000	6.27	0.21		1.1	3.5	1650	400	13.5	0.7
	0.04	0.28	150	500	6.27	0.21		0.9	2.8	1550	500	13.5	0.7
	0.4	4.7	390	300	7.38	0.35		0.8	2.3	1650	600	13.5	0.7
	0.3	3.5	360	400	7.38	0.35		0.7	1.9	1760	750	13.5	0.7
40/75	0.21	2.8	320	500	7.38	0.35							

MODEL CODE	INPUT POWER KW	OUTPUT SPEED r/min	OUTPUT TORQUE N.m	TRANSMISSION RATIO i	OUTPUT RADICAL FORCE Kn	INPUT RADICAL FORCE Kn
63/130	0.6	1.6	1760	900	13.5	0.7
	0.4	1.2	1650	1200	13.5	0.7
	0.4	0.93	1760	1500	13.5	0.7
	0.3	0.78	1760	1800	13.5	0.7
	0.3	0.58	1650	2400	13.5	0.7
	0.2	0.47	1550	3000	13.5	0.7
	0.1	0.35	1220	4000	13.5	0.7
	0.1	0.28	1100	5000	13.5	0.7
63/150	3.4	9.3	2340	150	18	0.7
	2.7	7	2340	200	18	0.7
	1.9	4.6	2050	250	18	0.7
	1.9	4.7	2340	300	18	0.7
	1.8	3.5	2670	400	18	0.7
	1.4	2.8	2330	500	18	0.7
	1.3	2.3	2670	600	18	0.7
	1.0	1.9	2330	750	18	0.7
	0.7	1.6	2100	900	18	0.7
	0.7	1.2	2670	1200	18	0.7
	0.4	0.78	2100	1800	18	0.7
	0.5	0.6	2670	2400	18	0.7
	0.3	0.5	2330	3000	18	0.7
	0.2	0.4	1880	4000	18	0.7
	0.2	0.3	1650	5000	18	0.7



AGENT