ELEGANT
WORM DRIVES

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SUPPLIER, EXPORTER AND ALSO SERVICES PROVIDER OF INDUSTRIAL GEARBOXES, WORM GEARBOXES,

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WORM DRIVES

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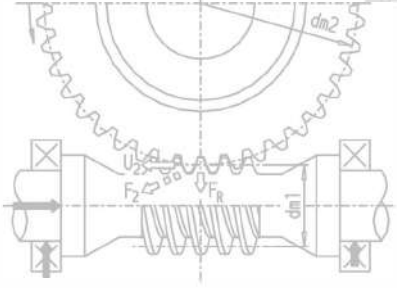

BRIEF INTRODUCTION

Founded in 2021 with a passion of Service support to Gear industry with new and innovative ideas. With our ISO 9001-2015 certified well-developed infrastructure, latest modern testing facilities and experienced team of professionals, we are servicing the several indus- trial sectors for many Transmission related issues.

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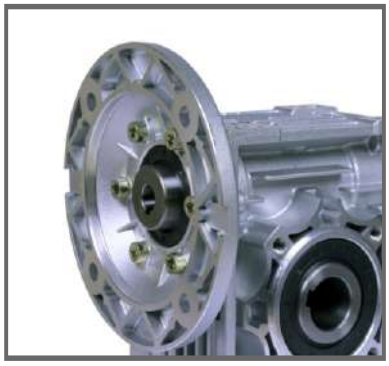

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PRODUCT PICTURES

WORM

EW

EW

F (A)
EW (F)

EW DIS

WORM

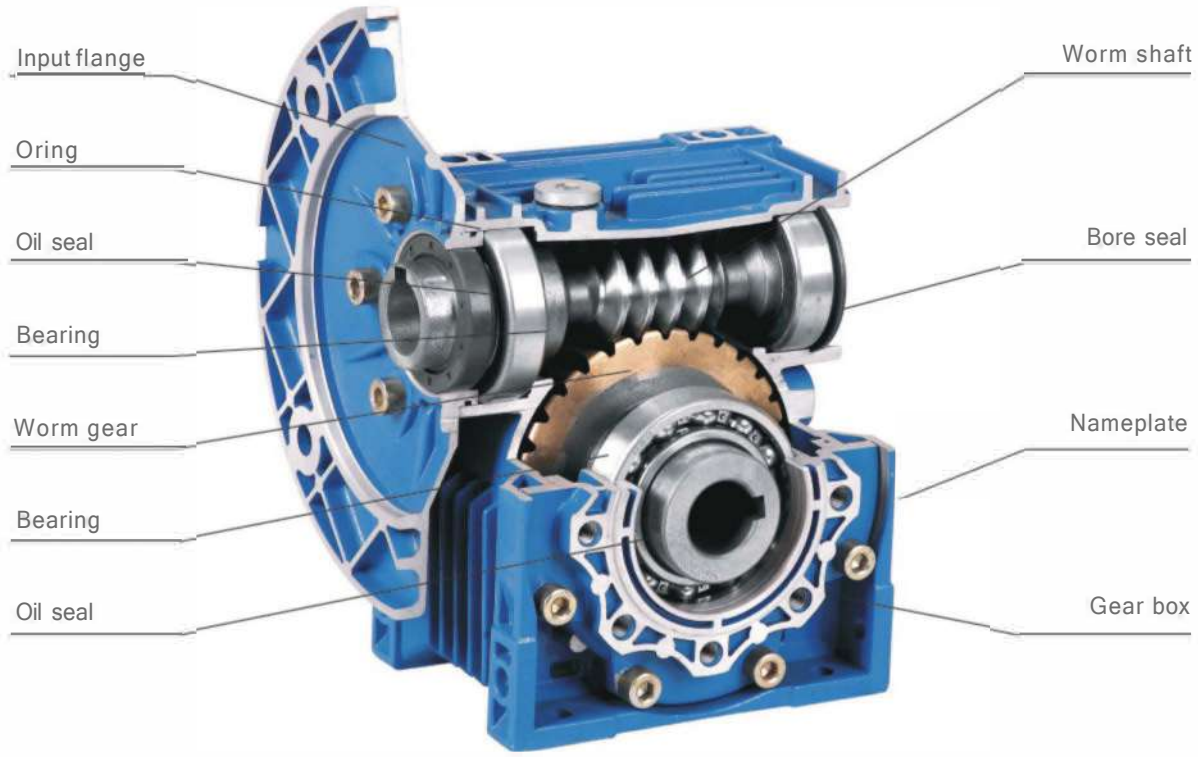
EW SI

EW F

EW

EW + EW

PRODUCT STRUCTURE & MODEL INSTRUCTIONS

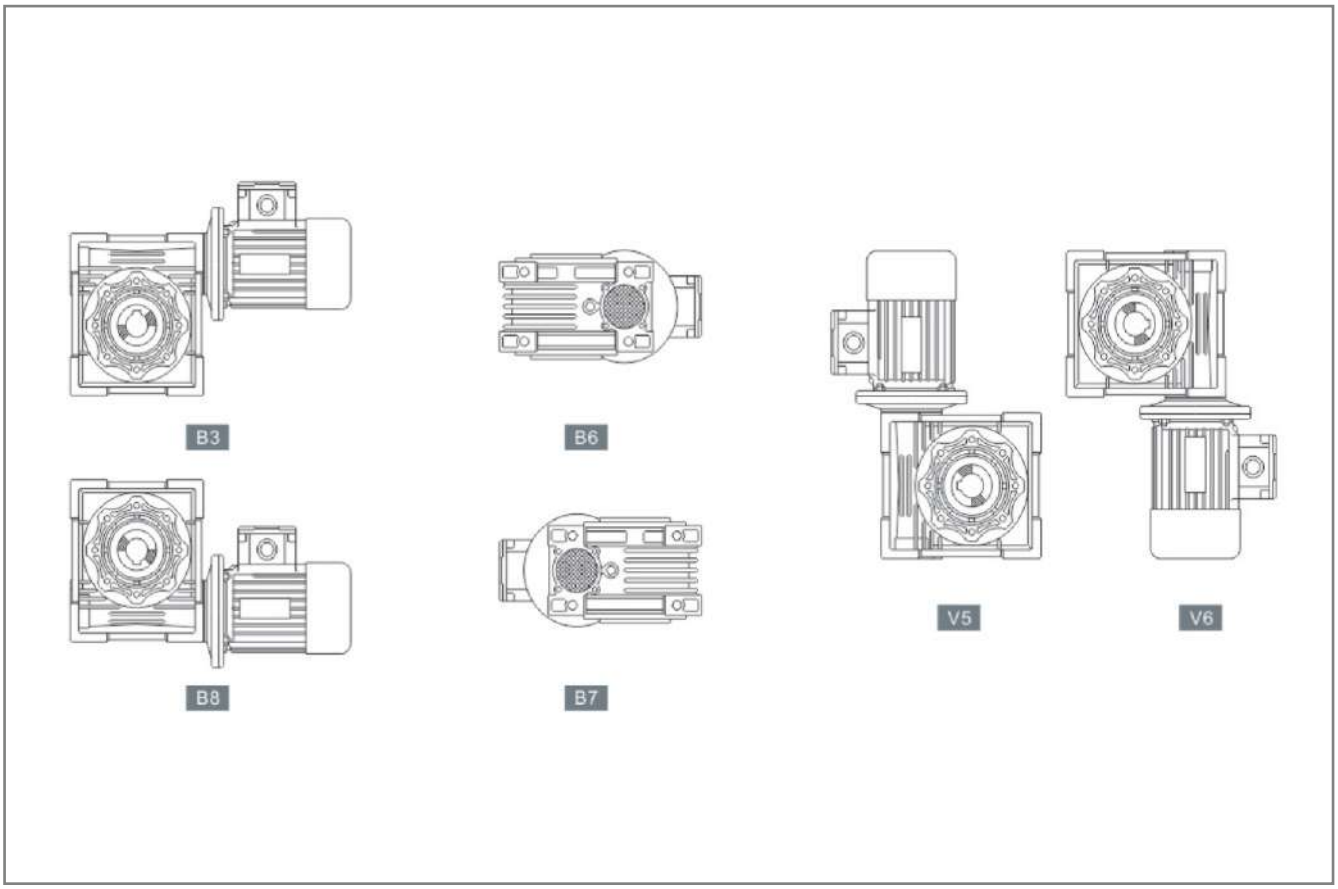


Model Instruction

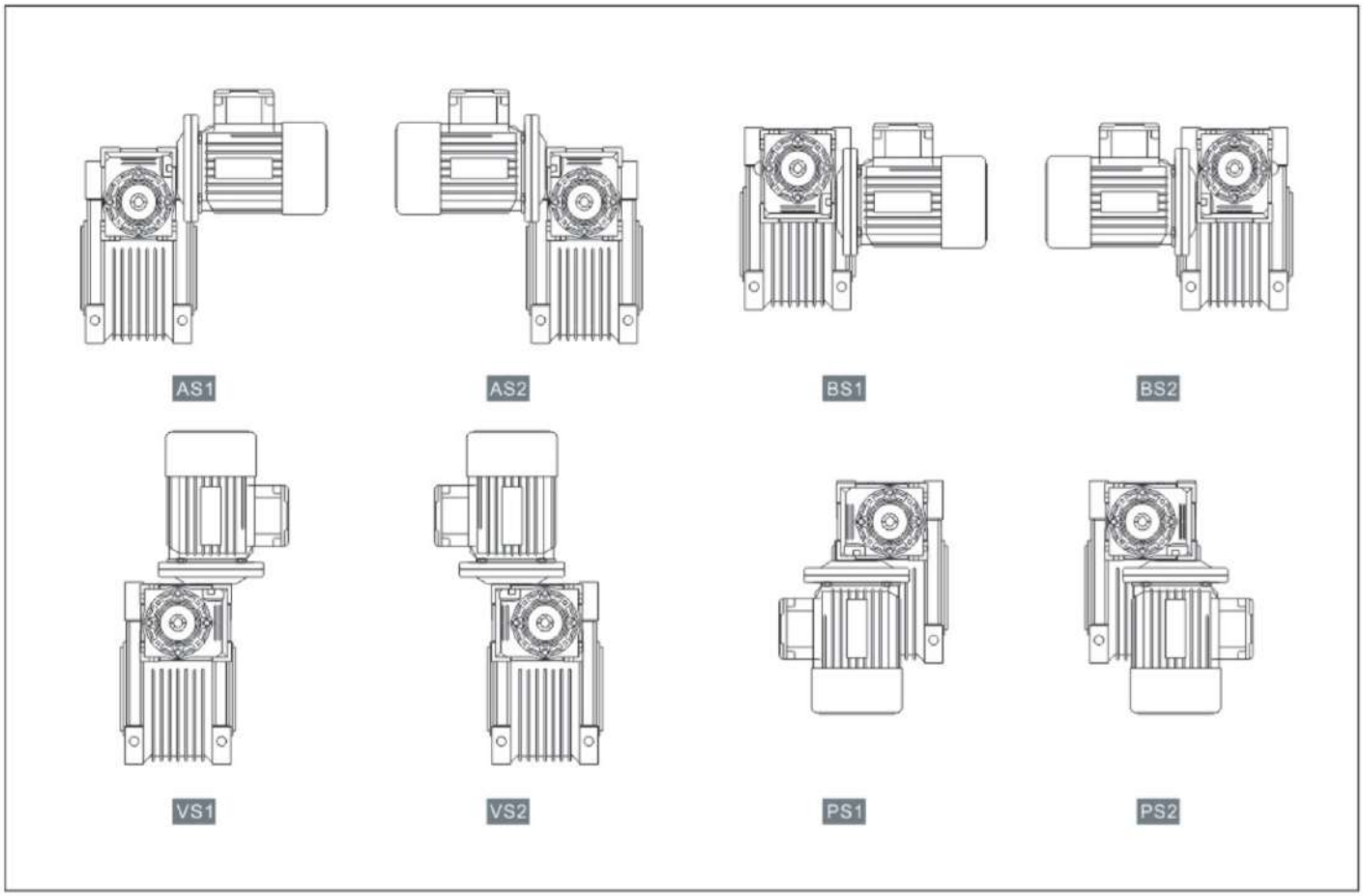
EW Model

EW	Worm Reducer		
EWS	Worm Reducer (With solid input shaft)		
063	Center Distance		
30	Reduction Ratio		
		F	Output flange
SO	Single output shaft	DOS	Double output shaft Motor
PAM	Electrical motor connection	80B5	Mounting Frame B5/B14
0.75KW	Electric motor power	B3	Mounting position

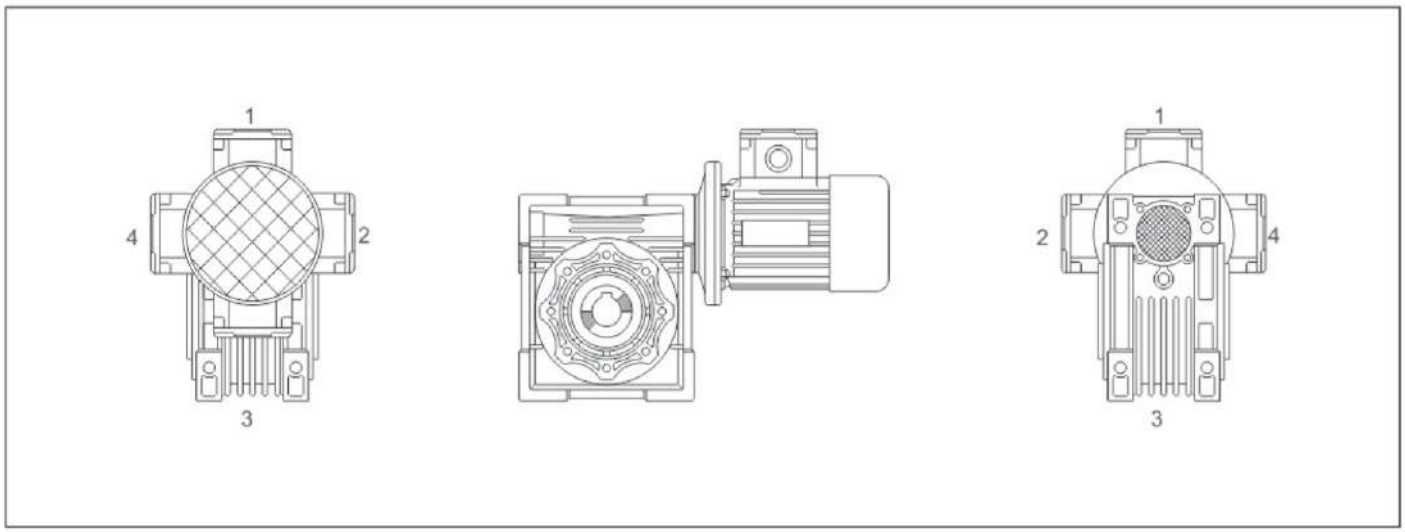
MOUNTING POSITIONS



DOUBLE STEP WORM MOUNTING POSITIONS

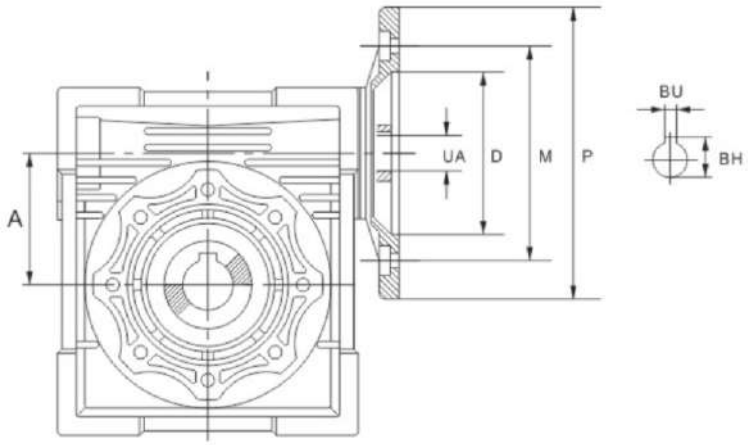


POSITIONS OF TERMINAL BOX



DIMENSIONS

Single Step Worm Gear Reducer

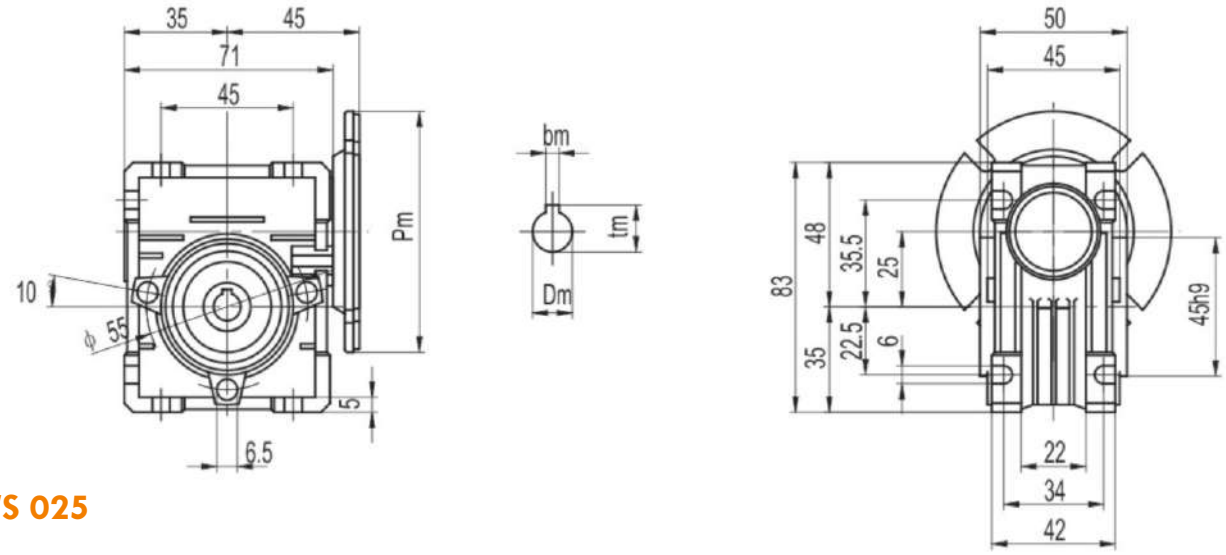


Motor Input Flange

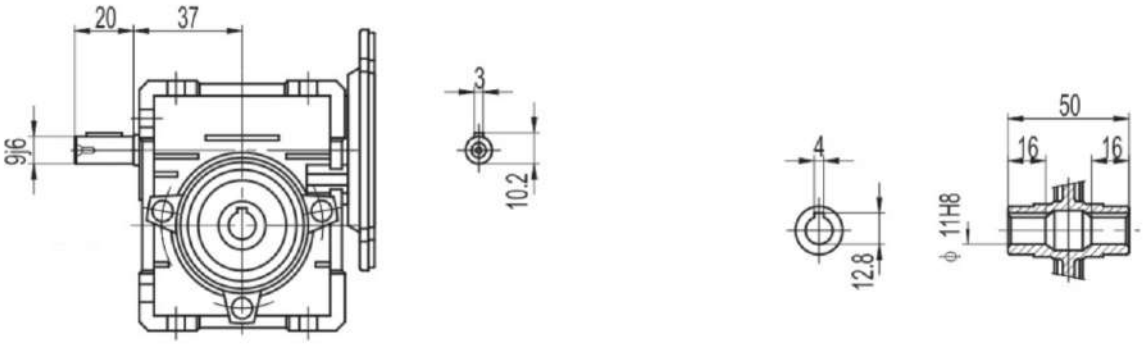
Center Distance A	Motor Flange						UA The Hole Diameter of Shaft										
	PAM IEC	D	M	P	BU	BH	Transmission Ratio										
							7.5	10	15	20	25	30	40	50	60	80	100
25	56B14	50	65	80	3	10.4	9	9	9	9	9	9	9	9	9	9	9
30	63B5	95	115	140	4	12.8	11	11	11	11	11	11	11	11	11	11	11
	63B14	60	75	90													
	56B5	80	100	120	3	10.4	9	9	9	9	9	9	9	9	9	9	9
	56B14	50	65	80													
40	71B5	110	130	160	5	16.3	14	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	11	11
	63B14	60	75	90													
	56B5	80	100	120	3	10.4	9	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	19
	80B14	80	100	120													
	71B5	110	130	160	5	16.3	14	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	11	11
63	90B5	130	165	200	8	27.9	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	19
	80B14	80	100	120													
	71B5	110	130	160	5	16.3	14	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	24
	90B14	95	115	140													
	80B5	130	165	200	6	21.8	19	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	24
	90B14	95	115	140													
	80B5	130	165	200	6	21.8	19	19	19	19	19	19	19	19	19	19	19
	80B14	80	100	120													
110	132B5	230	265	300	10	41.1	38	38	38	38	38	38	38	38	38	38	38
	100/112B5	180	215	250	8	31.3	28	28	28	28	28	28	28	28	28	28	28
	90B5	130	165	200	8	27.3	24	24	24	24	24	24	24	24	24	24	24
130	132B5	230	265	300	10	41.1	38	38	38	38	38	38	38	38	38	38	38
	100/112B5	180	215	250	8	31.3	28	28	28	28	28	28	28	28	28	28	28
150	160B5	250	300	350	12	45.3	42	42	42	42	42	42	42	42	42	42	42
	132B5	230	265	300	10	41.3	38	38	38	38	38	38	38	38	38	38	38
	100/112B5	180	215	250	8	31.3	28	28	28	28	28	28	28	28	28	28	28

DIMENSIONS OF GEAR BOX

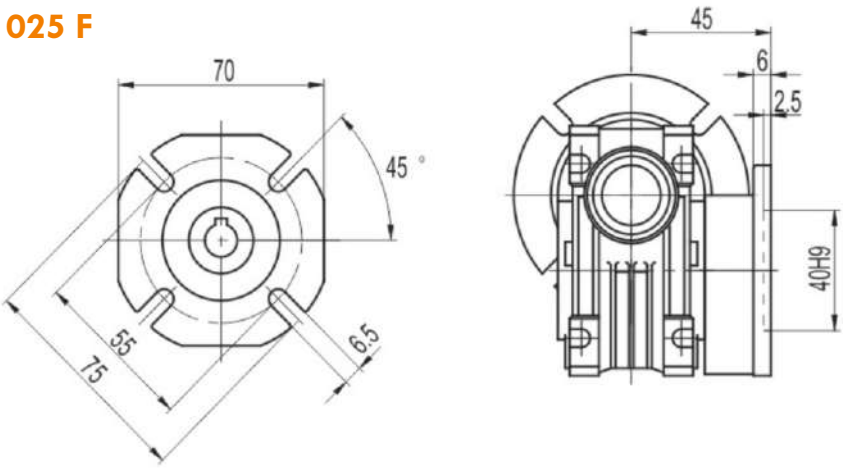
EW 025



EWS 025

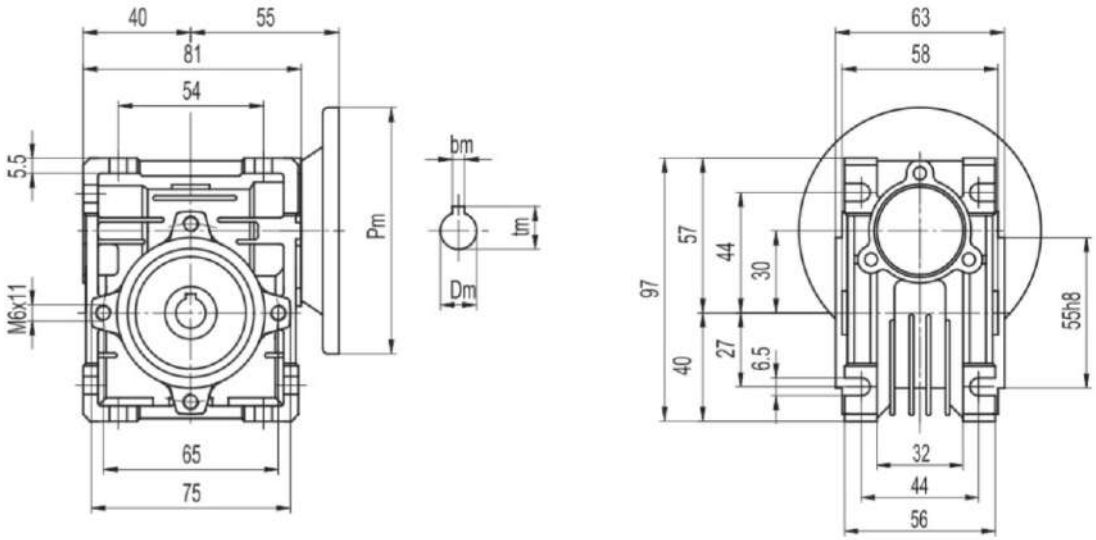


EW 025 F

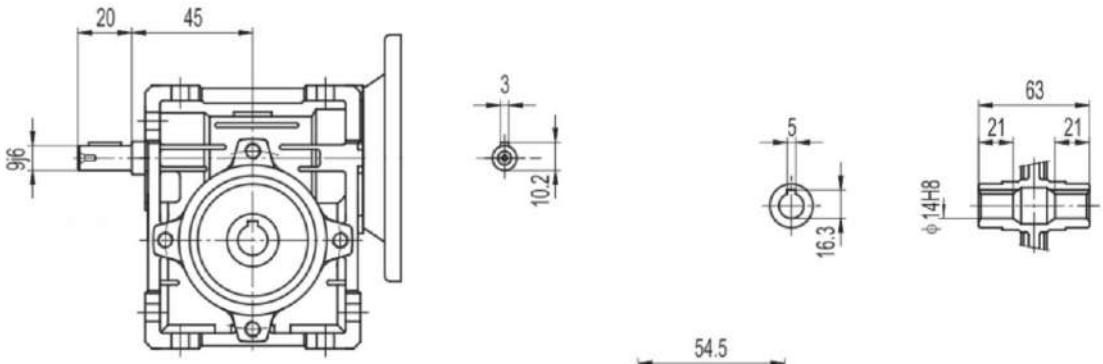


* Weight without motor : 0.7 kg.
* input size (Pm, Dm, bm, tm)

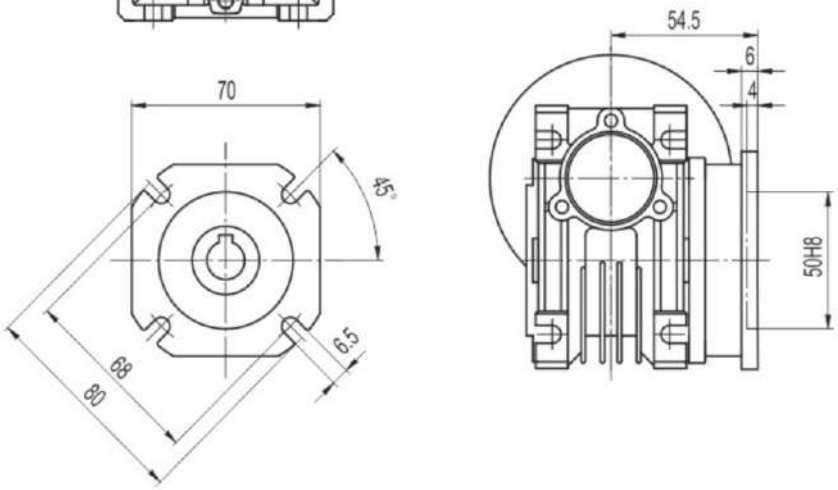
EW 030



EWS 030

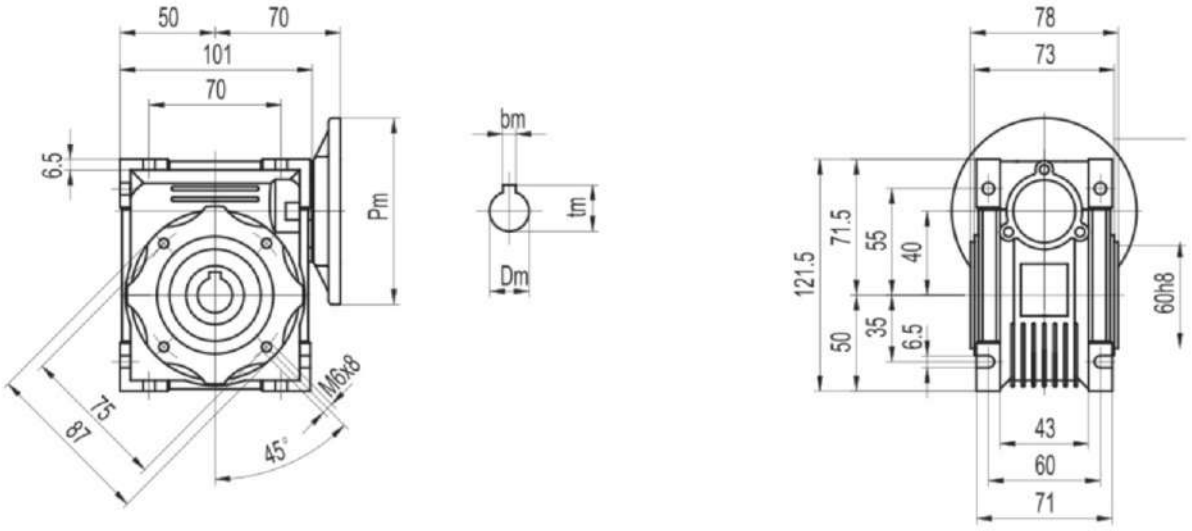


EW 30 F

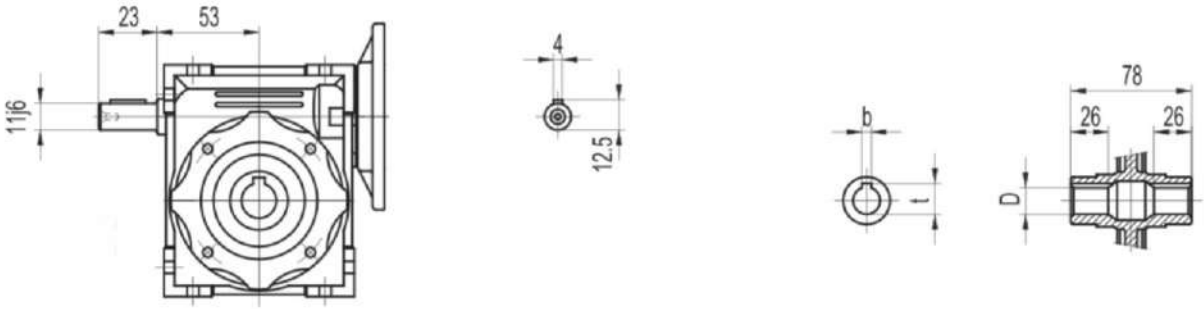


* Weight without motor : 1.2 kg.
* input size (Pm, Dm, bm, tm)

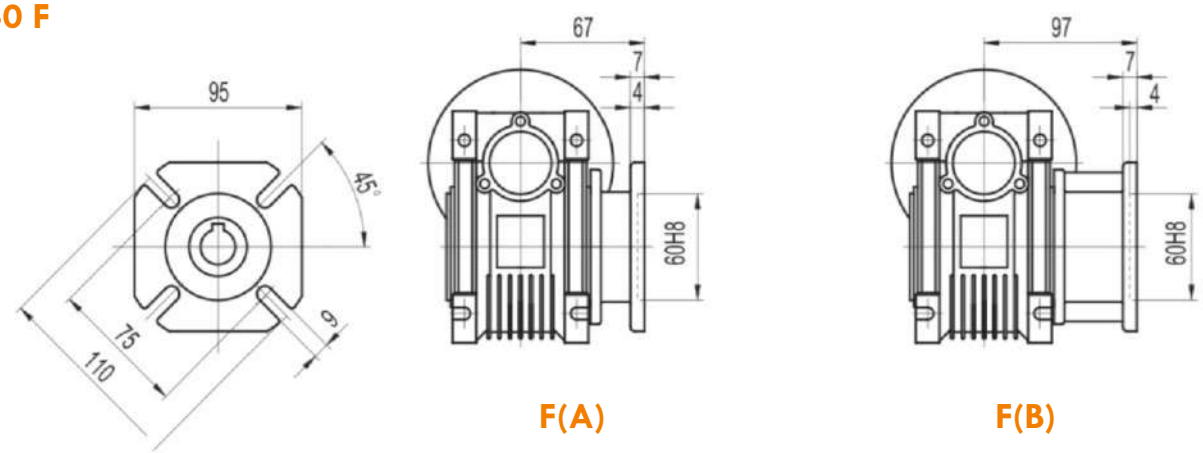
EW 040



EWS 040



EW 040 F



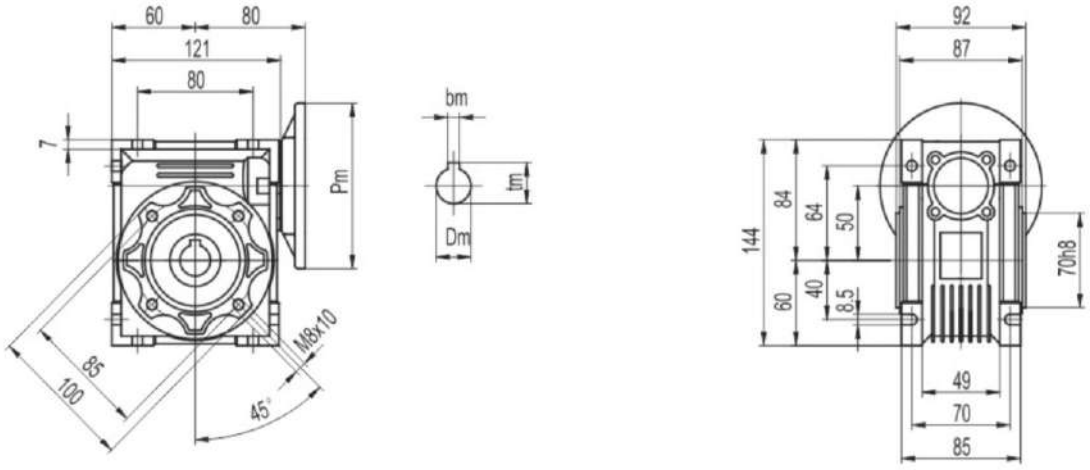
F(A)

F(B)

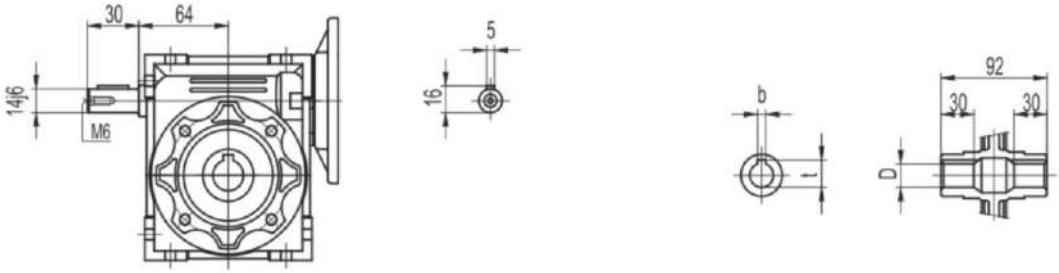
Output		
D H8	b	t
18 (19)	6 (6)	20.8 (21.8)

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

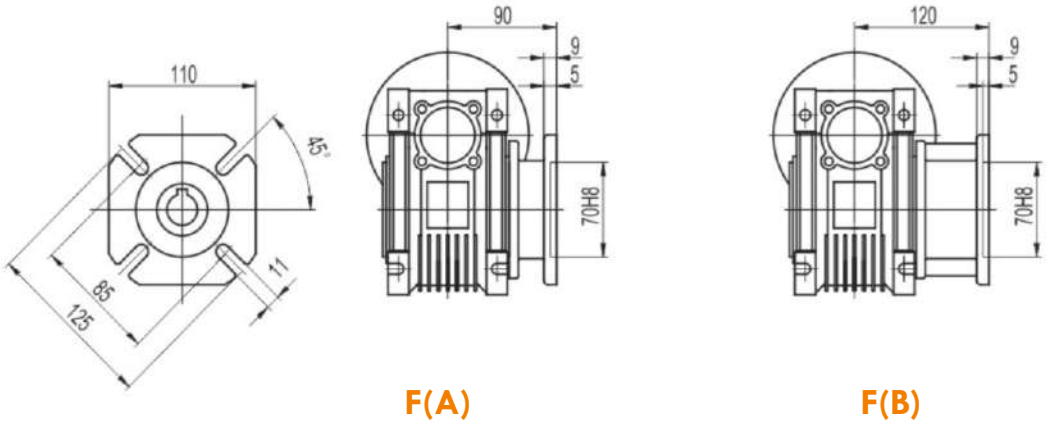
EW 050



EWS 050



EW 050 F

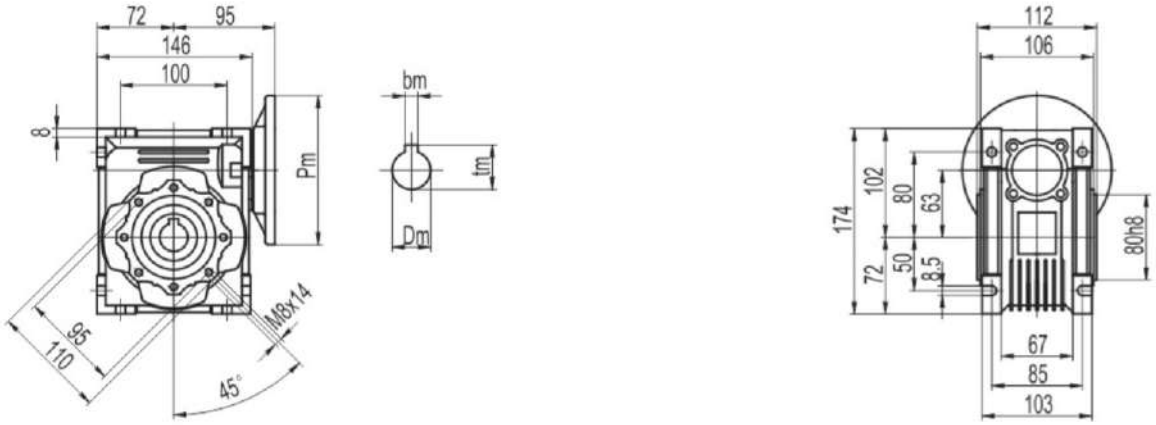


F(A) F(B)

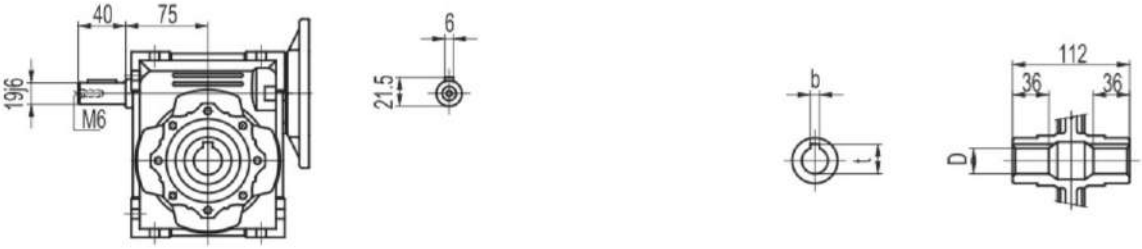
Output		
D H8	b	t
25 (24)	8 (8)	28.3 (27.3)

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

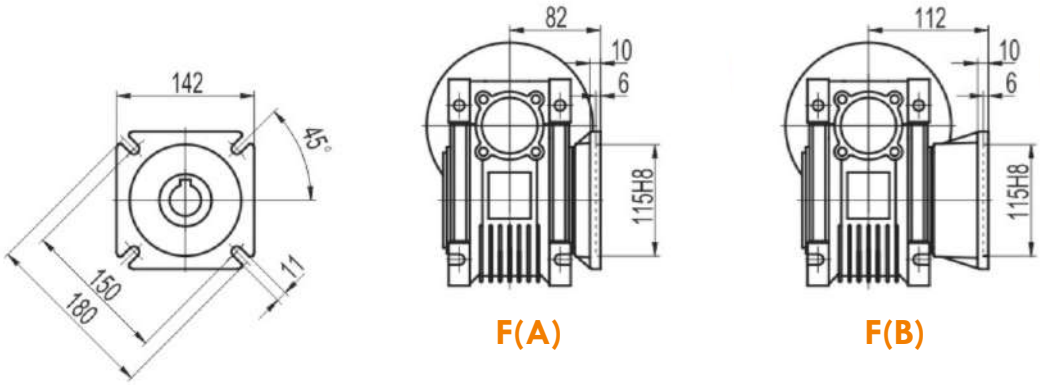
EW 063



EWS 063



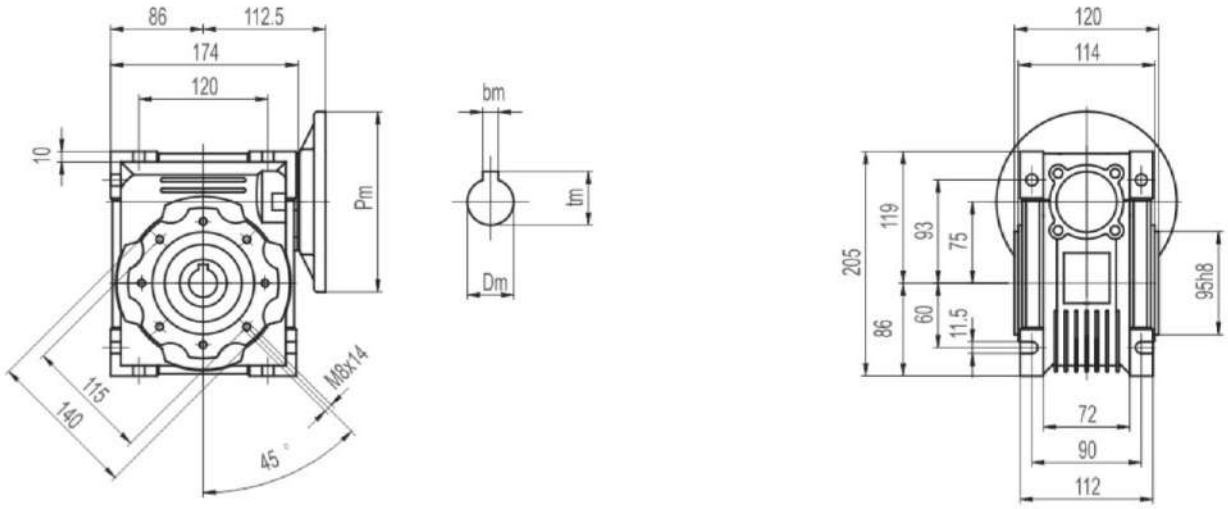
EW 063 F



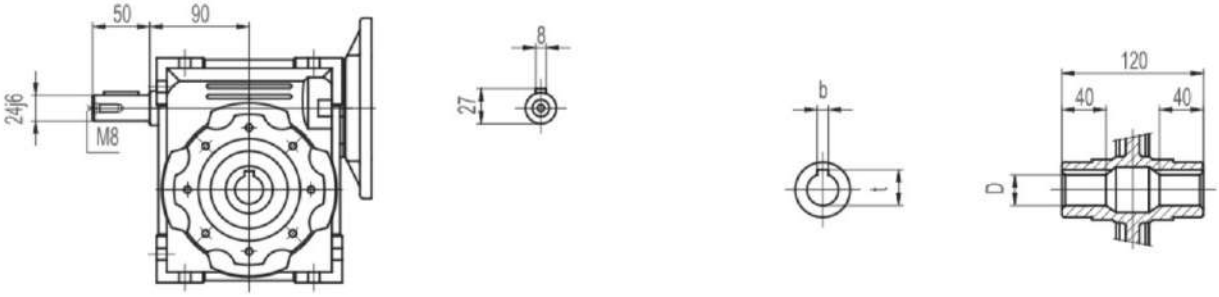
Output		
D H8	b	t
25 (28)	8 (8)	28.3 (31.3)

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

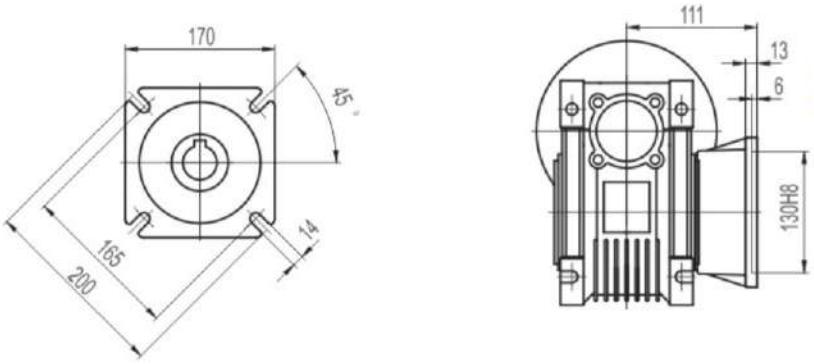
EW 075



EWS 075



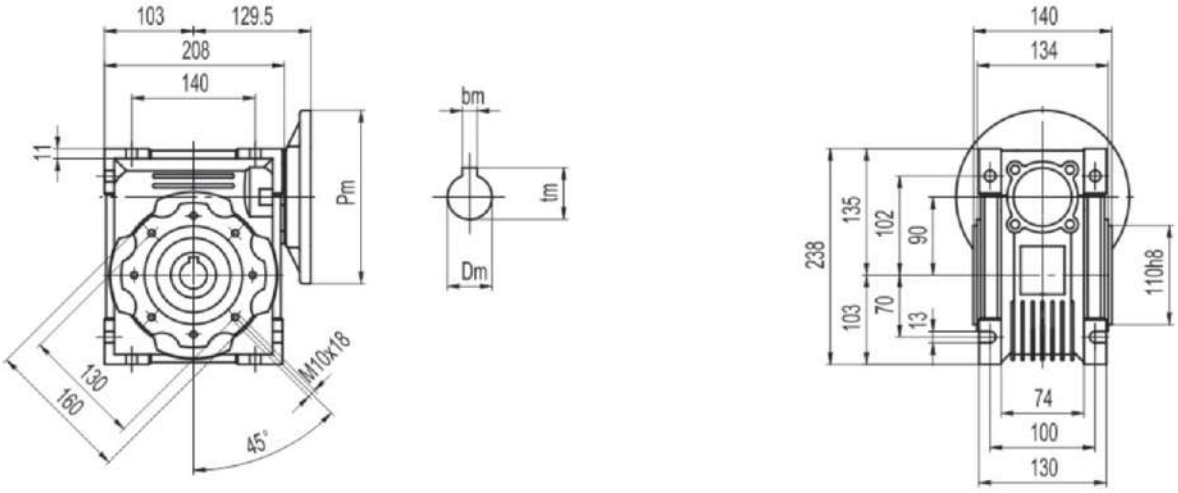
EW 075 F



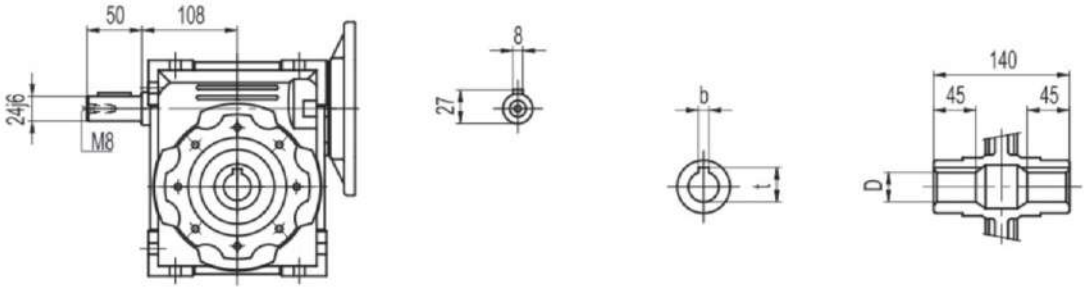
Output		
D H8	b	t
28 (35)	8 (10)	31.3 (38.3)

(..) only on request
* Weight without motor : 9 kg.
* input size (Pm, Dm, bm, tm)

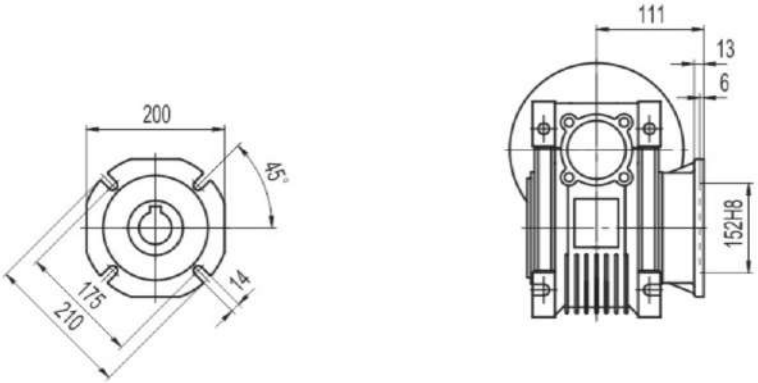
EW 090



EWS 090



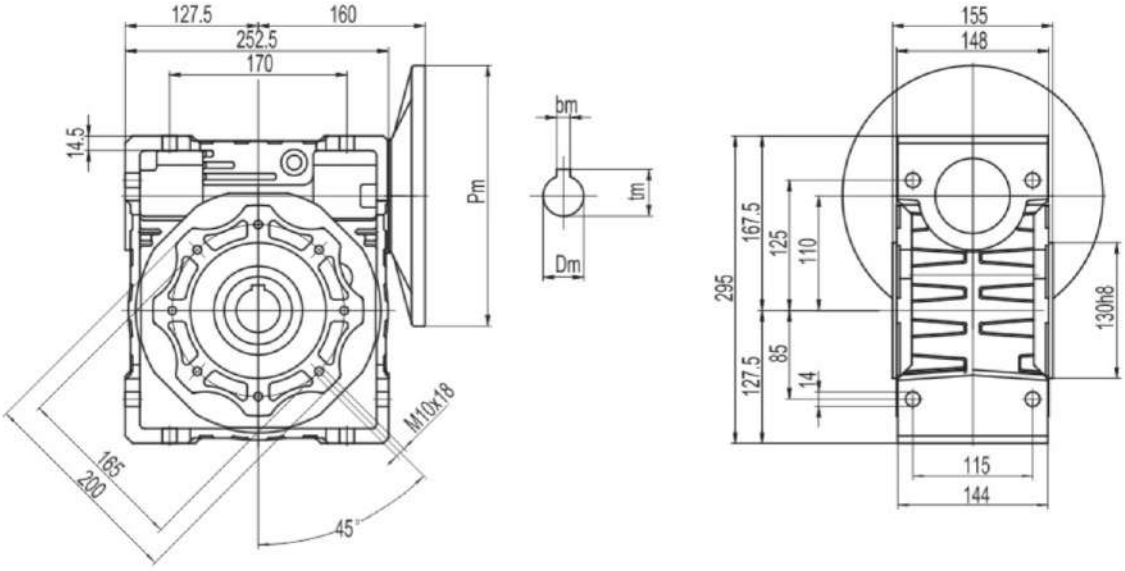
EW 090 F



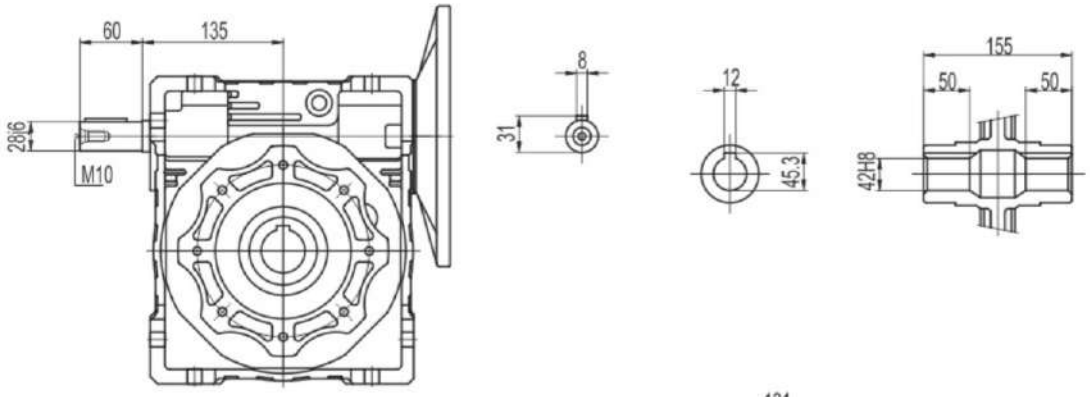
Output		
D H8	b	t
35 (38)	10 (10)	38.3 (41.3)

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

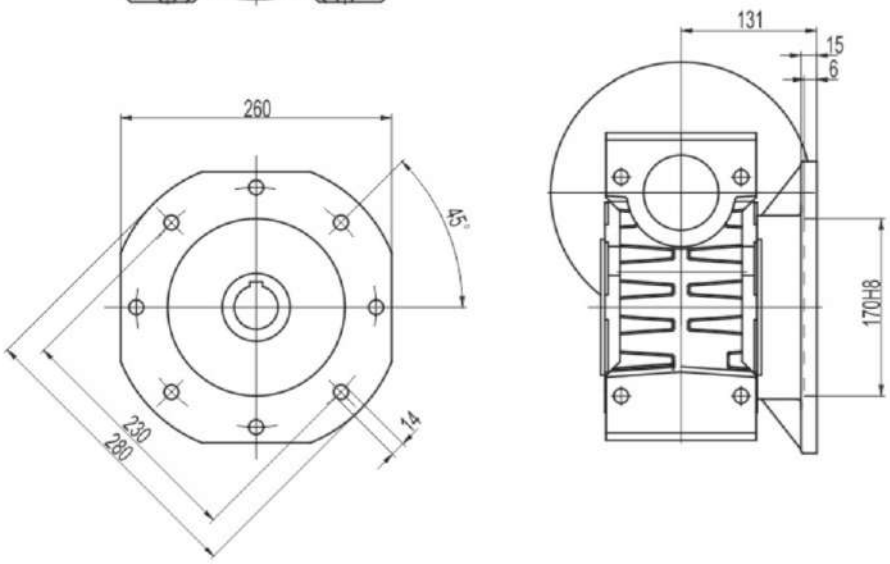
EW 110



EWS 110

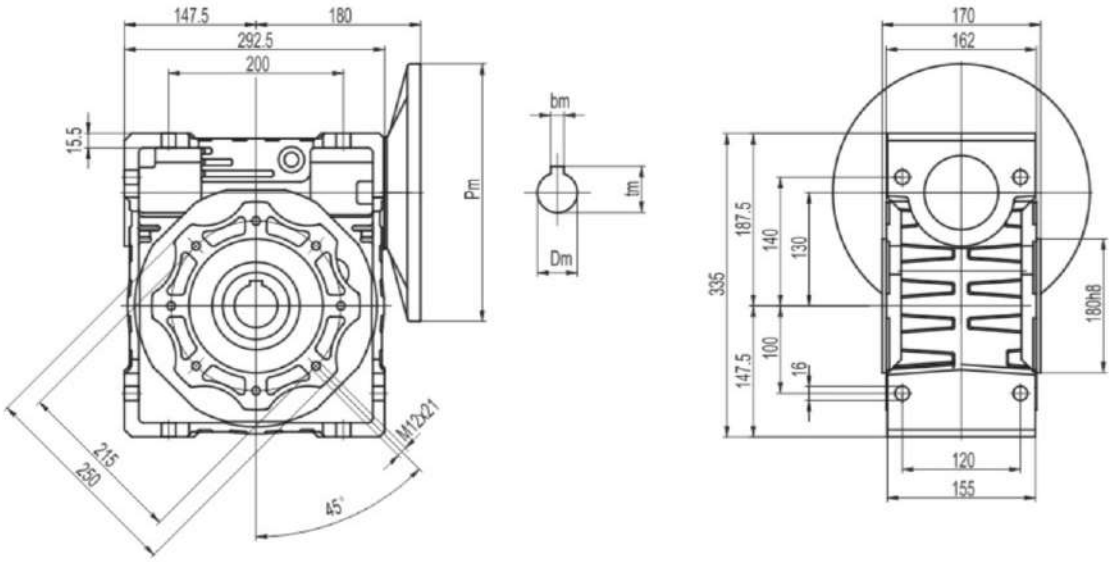


EW 110 F

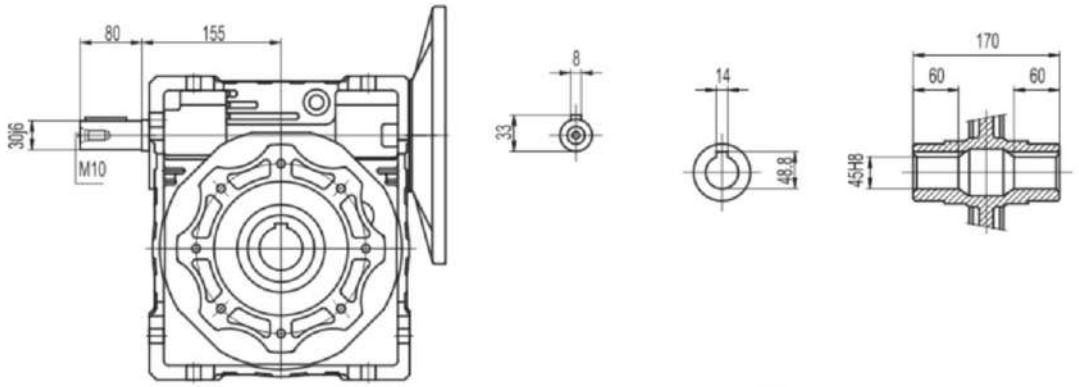


* Weight without motor : 35 kg.
* input size (Pm, Dm, bm, tm)

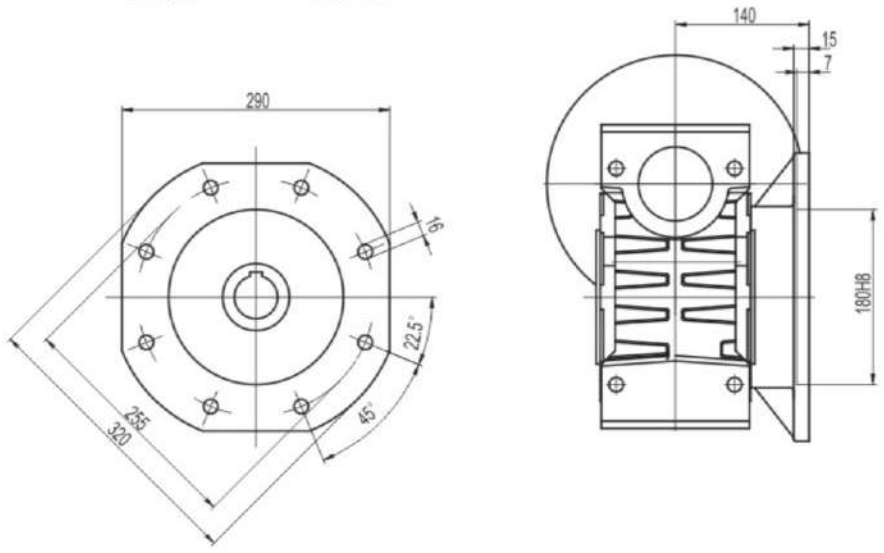
EW 130



EWS 130

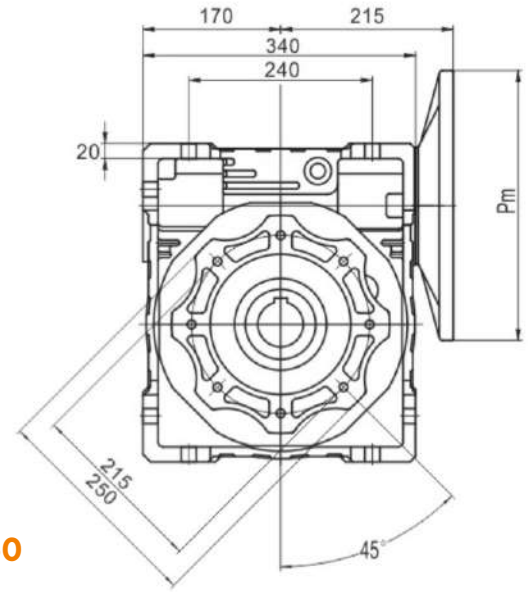


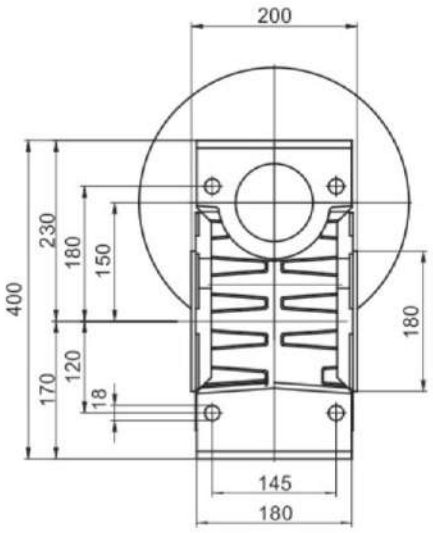
EW 130 F



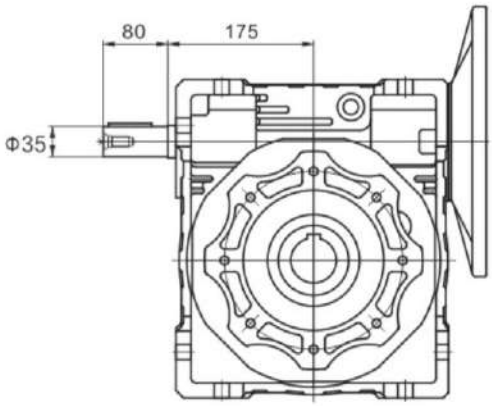
* Weight without motor : 48 kg.
* input size (Pm, Dm, bm, tm)

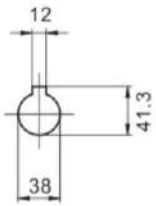
EW 150

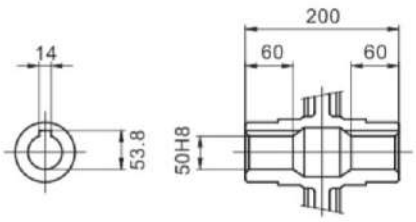




EWS 150

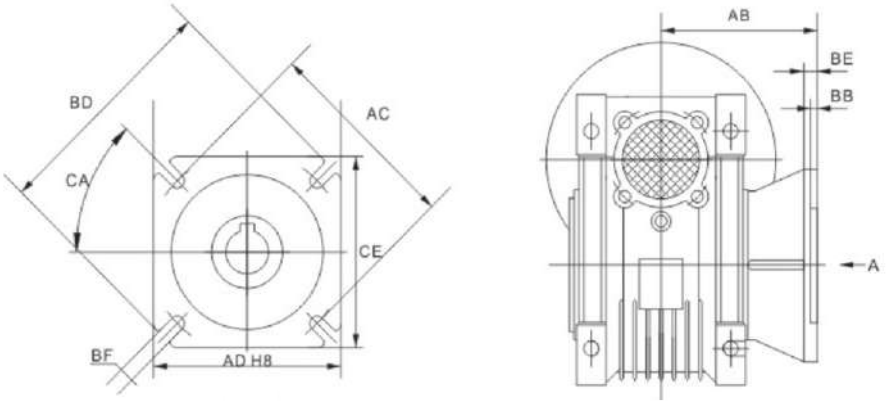






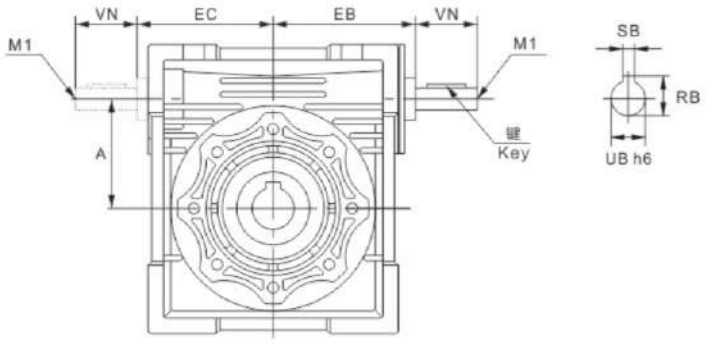
* Weight without motor : 87.8 kg.
* input size (Pm, Dm, bm, tm)

Output Flange Mounting Dimensions



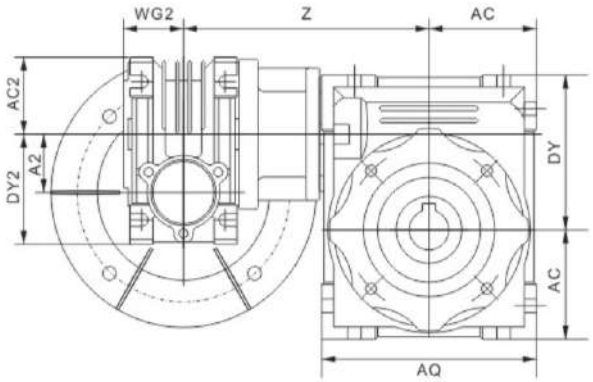
	25	30	40	50	50	75	90	110	130	150
AB	45	54.5	67	90	90	102	111	131	140	155
AC	55	68	80	85	85	165	175	230	255	255
AD	40	50	60	70	70	130	152	170	180	180
BB	3	4	4	5	5	6	6	6	6	7
BD	75	80	110	125	125	200	210	280	320	320
BE	6	6	7	g	g	13	13	15	15	15
BF	6.5(n.4)	6.5(n.4)	9(n.4)	11(n.4)	11(n.4)	14(n.4)	14(n.4)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

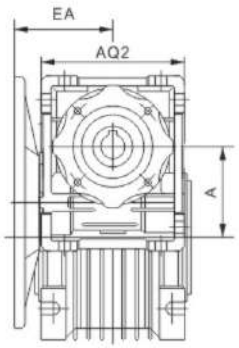
DIS Mounting Dimensions

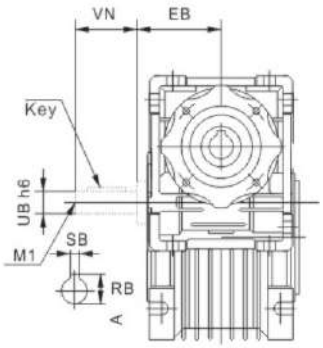


	30	40	50	63	75	90	110	130	150
A	30	40	50	63	75	90	110	130	150
EB	50	61	74	90	105	125	142	162	195
EC	45	53	64	75	90	108	135	155	175
M1	–	-	M6	M6	M8	M8	M10	M10	M12
RB	10.2	12.5	16	21.5	27	27	31	33	33
SB	3	4	5	6	8	8	8	8	10
UB	9	11	14	19	24	24	28	30	35
VN	20°	23	30	40	50	50	60	80	80
	3X3	4X4	5X5	6X6	8X7	8X7	8X7	8X7	10X8
	15	20	25	35	45	45	55	70	70

Double Step Worm Gear Reducer
EW + EW Mounting Dimensions

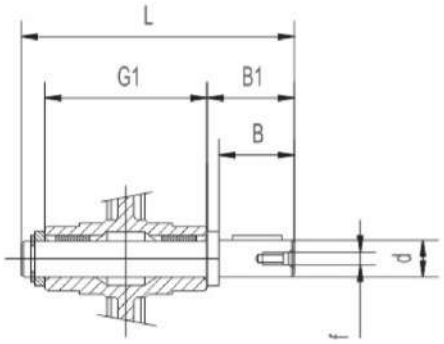




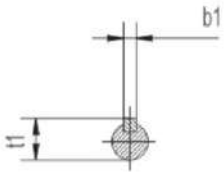


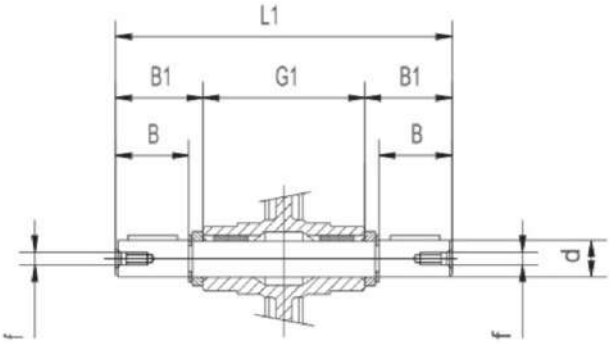
	25/30	25/40	30/40	30/50	30/63	40/75	40/90	50/110	63/130	63/150
A	30	40	40	50	63	75	90	110	130	150
A2	25	25	30	30	30	40	40	50	63	63
AC	40	50	50	60	72	86	103	127.5	147.5	170
AC2	35	35	40	40	40	50	50	60	72	72
AQ	80	100	100	120	144	172	206	252.5	292.5	340
AQ2	70	70	80	80	80	100	100	120	144	144
DY	57	71	71	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	M8	M6
RB	-	-	10.2	10.2	10.2	12.5	12.5	16	21.5	21.5
SB	-	-	3	3	3	4	4	5	5	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	225	245	275
	-	-	3x3	3x3	3x3	4x4	4x4	5x5	6X6	6X6
	-	-	15	15	15	20	20	25	35	35

Accessories
SO (A) / SO (B) Single & Double Output Shaft



SO (A)

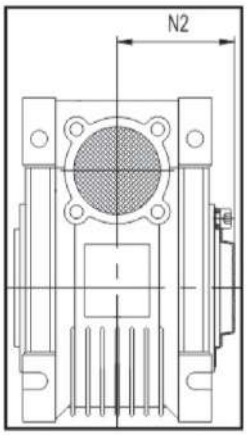




SO (B)

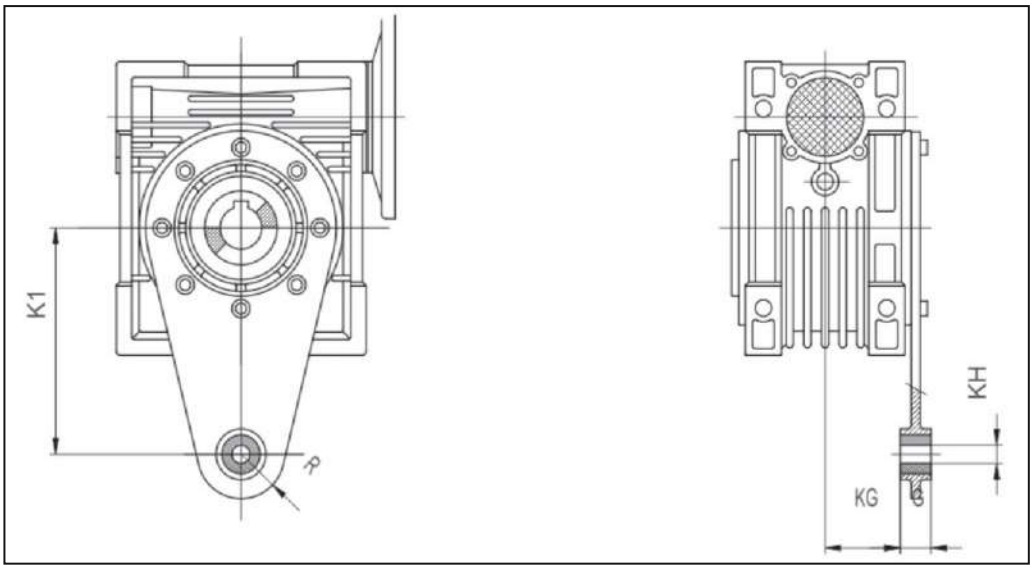
	d	B	B1	G1	L	L1	f	b1	t1
025	11g6 (9)	23 (25)	25.5 (30)	50	81 (85.5)	101	–	4(3)	12.5 (10.2)
030	14g6	30	32.5	63	102	128	M6	5	16
040	18h6	40	43	78	128	164	M6	6	20.5
050	25h6	50	53.5	92	153	199	M10	8	28
063	25h6	50	53.5	112	173	219	M10	8	28
075	28h6	60	63.5	120	192	248	M10	8	31
090	35h6	80	84.5	140	234	309	M12	10	38
110	42h6	80	84.5	155	249	324	M16	12	45
130	45h6	80	85	170	265	340	M16	14	48.5
150	50h6	82	87	200	297	374	M16	14	53.5

Protection Cover



	N2
030	42
040	50
050	58
063	69
075	74
090	86
110	94
130	102
150	117

TORQUE ARM



	K1	G	KG	KH	R
025	70	14	17.5	8	15
030	85	14	24	8	15
040	100	14	31.5	10	18
050	100	14	38.5	10	18
063	150	14	49	10	18
075	200	25	47.5	20	30
090	200	25	57.5	20	30
110	250	30	62	25	35
130	250	30	69	25	35
150	250	30	84	25	35

METHOD FOR MODEL SELECTION WITH EXAMPLE

Please understand the following at first in order to select the model of EW speed reducer properly:

- Loading condition.
- Speed scope or ratio in application.
- Working condition and environment.
- Installation space.

Define working condition Coefficient K1 and revise coefficient K2.

- Ensure machinery load types A, B, C according to table 1.
- Get the working condition coefficient K1 from diagram 1 according to turning time (hour/day) and start frequency (time/hour).
- Inspect working condition and select coefficient K2 from table 2.

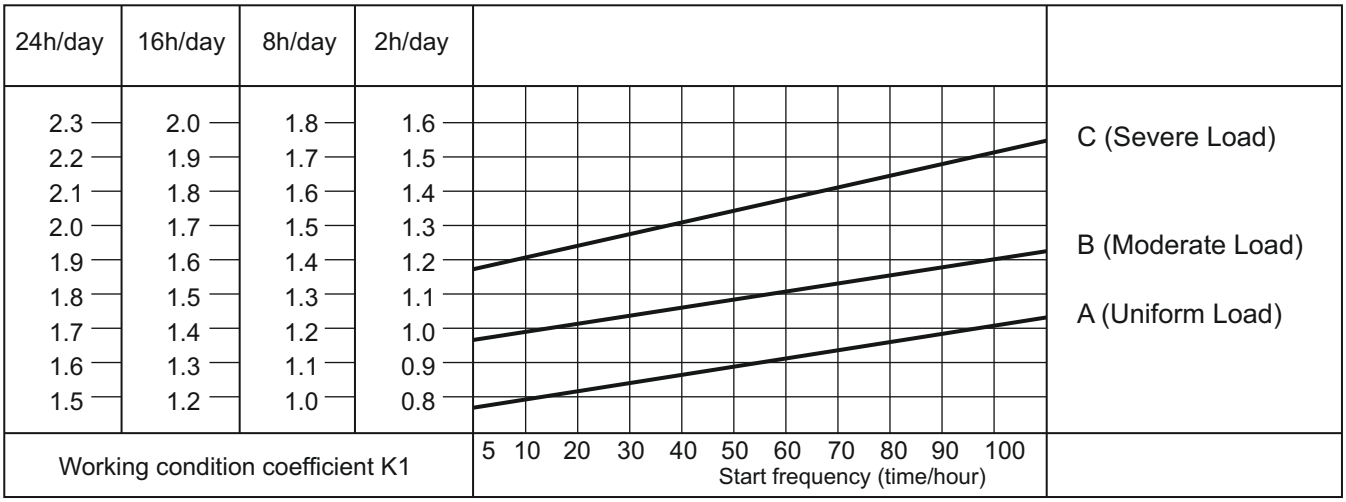
Table 1
Machinery Load classification selection

Using situation	Example	Load type
Uniform load	Convey band (uniform conveying)	A(Uniform load)
Moderate Load	Speed changed conveying	B(Moderate load)
Severe Load	Compressor, pulverizer, etc	C(Severe load)

Table 2
Working condition coefficient K2

Ambient temperature	Working condition coefficient K2
-10°C-30°C	1
30°C~40°C	1.1-1.2

Diagram 1 working Condition coefficient K1



- At first it is better to make sure the value input machinery load T (torque) and then you can get the output torque through T multiply with work situation coefficient K1 and work situation revise coefficient K2.
The required model can be gained by the above and connecting ratio or output speed.

- You can also select the reducer as following : calculate output torque according to known input power and then select the reducer in accordance with output torque and rotatation speed.

- Our standard reducers have right-hand helical teeth, deciding the rotating direction of input shaft and output shaft according to the right-hand criterion.

Examples For Selecting The Model

Ex1 : Common convey band (uniform load)

Torque: 19 Nm	Turning time: hours/day	
Speed: About 55r/min	Start frequency: 10 times/hour	
Ratio: 25	Environment temperature: indoor 25°C	Connect with motor directly

- Load classification: Uniform load, choose A, Select load classification according to table1.
- As per cross point of 10 times/hour frequency on line A in diagram 1, get coefficient K1 value is 1 that turning time is 8 hours/day.
- Get the coefficient K2 according to table 2.
- So the torque value is 19 Nm

Choose model : EW030-i 25

Input power is 0.18kW, output speed is 56r/min, output torque is 21 Nm

Check computation

You can get the actual output torque through the nominal output torque 21 Nm multiply with the coefficient fs 1, so the actual output torque is 21 Nm>19 Nm The selected model is suitable for use.

Ex2 : Convey band (moderate load)

Torque: 65 Nm	Turning time: 16 hours/day	
Speed: About 21r/min	Start frequency: 100 times/hour	
Ratio: 60	Environment temperature: indoor 35°	Connect with motor directly

- As per load classification table 1: moderate load, choose B.
- As per cross point of 100 times/hours frequency on line B in diagram 1, get coefficient K1 value is 1.68 that turning time is 16 hours/day.
- Get the coefficient K2 1.15 according to table 2.
- So the torque value is 65 Nm You can select the model that torque value most close to 123 Nm.

Choose model : EW 063-i 60

Input power is 0.55kW, output speed is 23.3r/min, output torque is 140 Nm.

Check computation

You can get the actual output torque through the nominal output torque 140 Nm multiply with the coefficient fs 0.9, so the actual output torque is 126 Nm>123 Nm. The selected model is suitable for use.

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

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	20	0.94	3.0
	56	7	25	1.02	3.0
	46.7	8	30	1.08	2.5
	35	9.7	40	1.19	1.9
	28	11	50	1.28	1.5
	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
	93.3	7.3	15	0.63	1.6
	70	9.2	20	0.69	1.3
	46.37	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
	23.3	19	60	1.36	0.9
040	28	19	50	2.47	2.0
	23.3	21	60	2.63	1.7
	17.5	26	80	2.89	1.3
	14	29	100	3.11	1.0
030	**0.12kw**				
	186.7	5.2	7.5	0.68	3.4

Model code	Output speed r/min	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	19	40	1.19	0.9
	28	23	50	1.28	0.8
040	46.7	17.2	30	2.08	2.6
	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	1.0
	14	38	100	3.11	0.8
050	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	1.0
	56	21	25	1.02	1.0
	46.7	24	30	1.08	0.8
040	70	19	20	1.82	2.0
	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	1.0
	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
	0.25kw				
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	2.0
	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	1.0
	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	1.0
	46.7	81	30	2.86	1.0
	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	1.0
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
	23.3	200	60	5.56	1.0
090	28	184	50	5.79	1.8
	23.3	212	60	6.16	1.5
	17.5	258	80	6.78	1.1
	14	302	100	7.3	0.9
	1.1kw				
063	186.7	49	7.5	2.35	2.6
	140	65	10	2.59	2.0
	93.3	93	15	2.97	1.5

Model code	Output speed r/min	Output torque N.m	Transmission ratio i	Output radial force kN	fs
	1.1kw				
063	70	122	20	3.27	1.1
	56	146	25	3.52	0.9
	46.7	167	30	3.74	1.0
	35	165	40	3.59	0.9
075	93.3	95	15	3.5	2.1
	70	123	20	3.86	1.7
	56	150	25	4.16	1.3
	46.7	171	30	4.42	1.3
	35	216	40	4.86	1.0
	28	264	50	4.6	0.9
	23.3	223	60	4.89	0.8
090	35	225	40	5.38	1.6
	28	270	50	5.79	1.3
	23.3	311	60	6.16	1.0
	17.5	328	80	6.17	0.9
110	28	281	50	7.32	2.3
	23.3	324	60	7.78	1.9
	17.5	402	80	8.57	1.3
	14	473	100	9.23	1.0
	1.5kw				
063	186.7	67	7.5	2.35	1.9
	140	89	10	2.59	1.5
	93.3	127	15	2.97	1.3
	70	166	20	3.27	1.0
075	140	90	10	3.06	2.2
	93.3	130	15	3.5	1.5
	70	168	20	3.86	1.3
	56	205	25	4.16	1.0
	46.7	233	30	4.42	1.0
090	70	171	20	4.27	2.1
	56	210	25	4.6	1.6
	46.7	239	30	4.89	1.7
	35	307	40	5.38	1.2
	28	368	50	5.79	0.9
	23.3	424	60	6.16	0.8
110	35	319	40	6.8	2.2
	28	384	50	7.32	1.7
	23.3	442	60	7.78	1.4
	17.5	548	80	8.57	0.9
	2.2kw				
075	186.7	100	7.5	2.78	1.8
	140	132	10	3.06	1.5
	93.3	191	15	3.5	1.0
	70	240	20	3.38	0.9
	46.7	269	30	3.89	0.8
090	186.7	101	7.5	3.08	2.9

Model code	Output speed r/min	Output torque N.m	Transmission ratio i	Output radial force kN	fs
	2.2kw				
090	140	134	10	3.39	2.3
	93.3	194	15	3.88	1.9
	70	252	20	4.27	1.4
	56	308	25	4.6	1.1
	46.7	351	30	4.89	1.2
	35	433	40	4.9	1.0
	28	393	50	5.28	0.9
110	70	255	20	5.39	2.5
	56	315	25	5.81	2.2
	46.7	356	30	6.18	2.0
	35	468	40	6.8	1.5
	28	563	50	7.32	1.2
	23.3	648	60	7.78	1.0
130	35	468	40	8.89	2.2
	28	563	50	9.58	1.7
	23.3	648	60	10.18	1.4
	17.5	816	80	11.21	1.0
	14	869	100	10.62	0.8
150	28	570	50	13.1	2.5
	23.3	657	60	13.92	1.9
	17.5	816	80	15.32	1.4
	14	960	100	16.5	1.0
	3kw				
075	186.7	136	7.5	2.78	1.4
	140	180	10	3.06	1.1
	93.3	261	15	3.5	0.8
090	186.7	138	7.5	3.08	2.1
	140	182	10	3.39	1.7
	93.3	264	15	3.88	1.4
	70	244	20	4.27	1.0
	56	420	25	4.6	0.8
	46.7	479	30	4.89	0.9
110	93.3	264	15	4.9	2.5
	70	348	20	5.39	1.9
	56	430	25	5.81	1.6
	46.7	485	30	6.18	1.5
	35	638	40	6.8	1.1
	28	767	50	7.32	0.9
130	56	429	25	7.6	2.2
	46.7	491	30	8.08	2.1
	35	638	40	8.89	1.6
	28	767	50	9.58	1.3
	23.3	884	60	10.18	1.0
	17.5	1113	80	11.21	0.8

Model code	Output speed r/min	Output torque N.m	Transmission ratio i	Output radial force kN	fs
	3kw				
150	28	777	50	13.1	1.8
	23.3	896	60	13.92	1.4
	17.5	1113	80	15.32	1.0
	14	1310	100	16.5	0.8
	4kw				
075	186.7	182	7.5	2.44	1.0
	140	240	10	3.06	0.8
090	186.7	184	7.5	3.08	1.6
	140	243	10	3.39	1.3
	93.3	352	15	3.88	1.0
	70	458	20	4.27	0.8
110	140	242	10	4.28	2.5
	93.3	352	15	4.9	1.9
	70	464	20	5.39	1.4
	56	573	25	5.81	1.2
	46.7	647	30	6.18	1.1
130	56	573	25	7.6	1.6
	46.7	655	30	8.08	1.6
	35	851	40	8.89	1.2
	28	1023	50	9.58	1.0
	23.3	1179	60	10.18	0.8
150	28	1036	50	13.1	1.4
	23.3	1195	60	13.92	1.1
	17.5	1484	80	15.32	0.8
	5.5kw				
110	186.7	253	7.5	3.89	2.2
	140	334	10	4.28	1.8
	93.3	484	15	4.9	1.4
	70	638	20	5.39	1.0
	56	711	25	5.15	0.9
130	140	333	10	5.6	2.5
	93.3	490	15	6.41	1.9
	70	645	20	7.06	1.4
	56	788	25	7.6	1.2
	46.7	900	30	8.08	1.2
	35	1171	40	8.89	0.9
	28	1103	50	8.51	0.8
150	70	645	20	9.65	2.0
	56	788	25	10.4	1.5
	46.7	934	30	11.05	1.3
	35	1171	40	12.16	1.3
	28	1426	50	13.1	1.0
	23.3	1643	60	13.92	0.8

Model code	Output speed r/min	Output torque N.m	Transmission ratio i	Output radial force kN	fs
	7.5kw				
110	186.7	345	7.5	3.89	1.6
	140	455	10	4.28	1.3
	93.3	660	15	4.9	1.0
130	186.7	349	7.5	5.09	2.1
	140	455	10	5.6	1.8
	93.3	668	15	6.41	1.4
	70	880	20	7.06	1.0
	56	1074	25	7.6	0.9
	46.7	1228	30	8.08	0.8
	35	1596	40	8.89	0.7
150	70	880	20	9.65	1.5
	56	1074	25	10.4	1.1
	46.7	1274	30	11.05	0.9
	35	1596	40	12.16	1.0
	11kw				
150	186.7	512	7.5	6.96	2.3
	140	675	10	7.66	1.8
	93.3	990	15	8.77	1.3
	70	1291	20	9.65	1.0
	56	1576	25	10.4	0.8
	15kw				
150	186.7	698	7.5	6.9	1.7
	140	921	10	7.66	1.3
	93.3	1351	15	8.77	0.9
	70	1760	20	9.65	0.7

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 Transmission ratio i	Low speed Transmission 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
	7.0	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	356	5000	50	100	3.49	0.1
30/40	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
	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	80	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	1.0
	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 Transmission ratio i	Low speed Transmission ratio i	Output radial force kN	fs
	0.06kw						
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
40/75	0.6	330	2400	60	40	7.38	1.1
	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
	0.09kw						
25/30	14	37	100	10	10	1.62	0.8
	9.3	49	150	10	15	1.83	0.6
	7.0	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
30/40	4.7	88	300	10	30	3.49	0.8
30/50	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
	1.6	212	900	30	30	4.84	0.7
30/63	1.6	200	900	15	60	6.27	1.0
	1.2	263	1200	30	40	6.27	0.9
	0.93	305	1500	30	50	6.27	0.7
40/75	0.9	359	1500	50	30	7.38	1.1
	0.78	404	1800	60	30	7.38	1
	0.58	496	2400	60	40	7.38	0.7
40/90	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	fs
	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	fs
	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	1.0
	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
	0.75kw						
50/110	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
	1.1kw						
63/130	4.7	1312	300	10	30	13.5	1.3
	3.5	1671	400	10	40	13.5	1.0
	2.8	1991	500	10	50	13.5	0.8
63/150	9.3	752	150	10	15	18	3.1
	7.0	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
	1.5kw						
63/130	4.7	1789	300	10	30	13.5	1.0
	3.5	2279	400	10	40	13.5	0.7
63/150	9.3	1026	150	10	15	18	2.3
	7.0	1317	200	10	20	18	1.8
	5.6	1602	250	10	25	18	1.3
	4.7	1860	300	10	30	18	1.3
	3.5	2208	400	10	40	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 radial force kN	Input radial force kN
30	0.4	186.7	18	7.5	0.68	0.15
	0.3	140	18	10	0.75	0.16
	0.2	93.3	18	15	0.86	0.16
	0.2	70	18	20	0.94	0.19
	0.2	56	21	25	1.02	0.21
	0.2	46.7	20	30	1.08	0.21
	0.1	35	18	40	1.19	0.21
	0.1	28	17	50	1.28	0.21
	0.1	23.3	16	60	1.36	0.21
	0.1	17.5	13	80	1.5	0.21
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
	0.1	14	29	100	3.11	0.35
50	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
	0.2	17.5	65	80	3.97	0.49
	0.2	14	55	100	4.28	0.49
63	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
	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 radial force kN	Input radial 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	0.70
	3.2	140	195	10	3.06	0.83
	2.3	93.3	200	15	3.50	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
	0.5	14	180	100	6.60	0.98
90	6.3	186.7	290	7.5	3.08	0.90
	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	4.60	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
	0.8	17.5	285	80	6.78	1.27
	0.7	14	270	100	7.30	1.27
110	12	186.7	552	7.5	3.89	1.20
	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	6.80	1.70
	2.6	28	660	50	7.32	1.70
	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
130	16.1	186.7	750	7.5	5.09	1.50
	13.5	140	820	10	5.60	1.84
	10.3	93.3	920	15	6.41	2.07
	7.8	70	910	20	7.06	2.10
	6.5	56	930	25	7.60	2.10

Model code	Input power kW	Output speed r/min	Output torque N.m	Transmission ratio i	Output radial force kN	Input radial 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)

Model code	Input power kW	Output speed r/min	Output torque N.m	Transmission ratio i	Output radial force kN	Input radial force kN
30/40	0.1	4.7	73	300	3.49	0.21
	0.1	3.5	65	400	3.49	0.21
	0.08	2.8	61	500	3.49	0.21
	0.06	2.3	73	600	3.49	0.21
	0.04	1.9	73	750	3.49	0.21
	0.03	0.6	73	900	3.49	0.21
	0.02	1.2	65	1200	3.49	0.21
	0.02	0.9	73	1500	3.49	0.21
	0.02	0.78	73	1800	3.49	0.21
	0.01	0.58	65	2400	3.49	0.21
	0.01	0.4	65	3200	3.49	0.21
	0.01	0.35	33	4000	3.49	0.21
	0.01	0.28	29	5000	3.49	0.21
30/50	0.15	4.7	145	300	4.84	0.21
	0.1	3.5	124	400	4.84	0.21
	0.1	2.8	120	500	4.84	0.21
	0.1	2.3	145	600	4.84	0.21
	0.1	1.9	145	750	4.84	0.21
	0.1	1.6	145	900	4.84	0.21
	0.08	1.2	124	1200	4.84	0.21
	0.06	0.93	145	1500	4.84	0.21
	0.04	0.78	145	1800	4.84	0.21
	0.03	0.6	124	2400	4.84	0.21
	0.02	0.5	120	3000	4.84	0.21
	0.02	0.35	82	4000	4.84	0.21
	0.02	0.29	82	4800	4.84	0.21
30/63	0.24	4.7	230	300	6.27	0.21
	0.2	3.5	230	400	6.27	0.21
	0.2	2.8	216	500	6.27	0.21
	0.13	2.3	230	600	6.27	0.21
	0.11	1.9	216	750	6.27	0.21
	0.1	1.6	198	900	6.27	0.21
	0.1	1.2	230	1200	6.27	0.21
	0.1	0.93	216	1500	6.27	0.21
	0.1	0.78	198	1800	6.27	0.21
	0.1	0.58	230	2400	6.27	0.21
	0.08	0.47	216	3000	6.27	0.21
	0.06	0.35	172	4000	6.27	0.21
	0.04	0.28	150	500	6.27	0.21
40/75	0.4	4.7	390	300	7.38	0.35
	0.3	3.5	360	400	7.38	0.35
	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 radial force kN	Input radial force kN
40/75	0.2	2.3	390	600	7.38	0.35
	0.2	1.9	390	750	7.38	0.35
	0.14	1.6	390	900	7.38	0.35
	0.11	1.2	360	1200	7.38	0.35
	0.1	0.93	390	1500	7.38	0.35
	0.1	0.78	390	1800	7.38	0.35
	0.1	0.58	360	2400	7.38	0.35
	0.1	0.47	320	3000	7.38	0.35
	0.08	0.35	250	4000	7.38	0.35
	0.06	0.28	230	5000	7.38	0.35
40/90	0.6	4.7	610	300	8.18	0.35
	0.43	3.5	610	400	8.18	0.35
	0.34	2.8	560	500	8.18	0.35
	0.3	2.3	610	600	8.18	0.35
	0.23	1.9	560	750	8.18	0.35
	0.2	1.6	505	900	8.18	0.35
	0.2	1.2	610	1200	8.18	0.35
	0.14	0.93	560	1500	8.18	0.35
	0.11	0.78	505	1800	8.18	0.35
	0.11	0.58	610	2400	8.18	0.35
	0.1	0.47	560	3000	8.18	0.35
	0.1	0.35	460	4000	8.18	0.35
	0.1	0.28	410	5000	8.18	0.35
50/110	1.1	4.7	1265	300	10.32	0.49
	0.8	3.5	1185	400	10.32	0.49
	0.61	2.8	1100	500	10.32	0.49
	0.6	2.3	1185	600	10.32	0.49
	0.5	1.9	1265	750	10.32	0.49
	0.43	1.6	1265	900	10.32	0.49
	0.31	1.2	1186	1200	10.32	0.49
	0.3	0.93	1265	1500	10.32	0.49
	0.3	0.78	1265	1800	10.32	0.49
	0.2	0.58	1185	2400	10.32	0.49
	0.15	0.47	1100	3000	10.32	0.49
	0.13	0.35	819	4000	10.32	0.49
	0.1	0.28	746	5000	10.32	0.49
63/130	1.5	4.7	1760	300	13.5	0.7
	1.1	3.5	1650	400	13.5	0.7
	0.9	2.8	1550	500	13.5	0.7
	0.8	2.3	1650	600	13.5	0.7
	0.7	1.9	1760	750	13.5	0.7

Model code	Input power kW	Output speed r/min	Output torque N.m	Transmission ratio i	Output radial force kN	Input radial 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	7.0	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

Single Step Worm Gear Reducer :

6.1.1 The reducer which model is 25~90 made of Aluminum alloy die-casting box, good looking in appearance, compact in structure, rust proofing on surface and small volume to save mounting space.
6.1.2 The reducer model of 110~150 is made of cast iron which casted with Aluminum mould. It's good looking and solid, and can be used through the setting of multi-azimuth.
6.1.3 Good radiating characteristic leads safe and reliability and high efficiency for using.
6.1.4 The strong capacity of loading ensure stable transmission, make less vibration and noise.
6.1.5 Varies of connecting structure for power input and torque output meet different requirements, the design of box outline and the set of foot hole with good versality is apt to many kinds of mounting.

Double Step Worm Gear Reducer :

6.2.1 It is combined by two single step reducers and has all the virtues of them. And you can get bigger ratio with it.
6.2.2 The models of 25/30, 25/40, 30/40, 30/50, 30/63, 40/75, 40/90, 50/110, 63/130, 63/150 are in common use. You can choose 25, 30, 40, 50, 63, 75, 90,110, 130, 150 as combination units to combine according to the fact of your special needs.

Notes For Installation :

6.3.1 The base-plate must be plane and stoutness, and the base-bolts must be screwed down and shockproof.
6.3.2 The connecting shafts of prime mover, reducer and operation device must be coaxial after installation.
6.3.3 The diameter tolerance zone of input and output shaft is h6, the holes of fittings (such as couplings, belt-pulley,sprocket wheel and so on) must properly mate the shaft, which prevents bearing from breakage because of over-tight mate or avoid effecting normal power transmission because of over-loose mate.
6.3.4 Drives such as sprocket wheel and gear must be fitted close to bearing in order to reduce bending stress of hanging shaft.
6.3.5 While assembling motor to the reducer, it is necessary to add butters to the worm shaft input hole and key way, so as to avoid tightly assembling and rusting when it is used for a long time.
6.3.6 Supporting unit is required when reducers directly match with motors whose weight is bigger than normal.

Operating Notes :

6.4.1 Before using, please check carefully whether the reducer mode, center distance size, ratio, input connecting method, output shaft structure, input and output shaft direction and revolving direction are

according to requirement. It is better that the input speed of worm shaft shouldn't exceed 2000 RPM, the general range is 600-1800 RPM.

6.4.2 The load should be added step by step when using the machine. Never run it with full load.

6.4.3 The reducer which model is among 25-90 has the oil add hole only. It has been full of synthetic lubrication oil ISO VG320 User doesn't need to think about oil adding, after about 10000 hours continual running, please change new lubrication oil.

6.4.4 The reducer model of 110-150 has oil add hole, oil out hole and oil gauge. Mineral lubrication oil ISO VG460 has been filled in enough, before using, user must pull out the rubber ring of vent plug. After the first 500 hours running, clean the interior box and change new oil in it. Then change the oil once per 5000 hours.

6.4.5 The permitted temperature of the oil in reducer is 95°C. If up to this value, it must be stopped and checked.

6.4.6 When the ambient temperature is 5°C upper or lower than the normal level stated in the table, please contact us.

LUBRICANT

Lubricant oil selection table

Reducer size	25~90	110-150	
Type of lubrication oil	Synthetic lubrication oil	Mineral lubrication oil	
Ambient temperature	-25~+50	-5~+40	-15~+25
ISO VG	ISO VG 320	ISO VG 460	ISO VG 220
AGIP	TELIUM VSF320	BLASIA 460	BLASIA 220
SHELL	TIVELA S320	TIVELA S460	TIVELA S220
ESSO	S220	SPARTAN Ep460	SPARTAN Ep220
MOBIL	GLYGOYLE He320	MOBIL GEAR 630xP	MOBIL GEAR 630xP
CASTROL	ALPHA SYN Pg320	ALPHA MAX 460	ALPHA MAX 200
BP	ENERGOL SG-XP320	ENERGOL GR-XP460	ENERGOL GR-XP220

(L) Adding Capacity of lubrication oil

Type / Installation	25	30	40	50	63	75	90	110	130	150
B3	0.02	0.01	0.08	0.15	0.3	0.55	1	3	4.5	7
B6 B7								2.5	3.5	5.4
B8								2.2	3.3	5.1
V5								3	4.5	7
V6								2.2	3.3	5.1

MALFUNCTION ANALYSIS

Fault Descripiton	Reasons	Solutions
Overheating	Improper connection among prime mover. reducer and the operation device	Adjust to proper position
	Overloading	Adjust to proper load
	Over friction of oil seals	Drop lubricant at oil seal
	Lubricant oil overmuch or shortage	Adjust to proper oil quantity as lubricant capacity table
	Much impurity in oil or inferior oil	Refill proper oil
Vibration	Prime mover, reducer and the operation device mount badly	Find out the bad place, tighten it
	Tooth surface of worm gear sets worn-out or damaged	Replace worm gear sets(we will cooperate with you when necessary)
	Bearing worn-out	Replace Bearing
	Balt loose	Tighten Screw
Noise	Improper connection among prime mover. reducer and the operation device	Adjust to proper position
	Bearing damaged or too large clearance	Replace Bearing
	Worm gear sets mesh badly	Mend tooth surface or replace worm gear sets (please contact to us)
	Lubricant oil shortage	Fill in adequate oil as lubricant capacity table
Oil leakage	Oil seal lip worn-out	Replace oil seal
	Shaft of oil seal area worn-out	Replace input or output shaft with worm gear
	Oil screw plug loose	Tighten oil screw plug
Tooth surface of worm gear sets abrade extra-quickly	Oilgauge damaged	Replace oil gauge
	Overload	Adjust to proper loading
	Lubricant oil not according with requirement	Replace proper lubricant oil
	Lubricant oil shortage	Fill adequate oil as indication
	Not replacing lubricant oil in time according to requirement, oil deteriorates	Replacing oil in time according to requirement
	Overheating while running	1. Deal with it as "Overheating" 2. Adopting proper measures to make environment temperature fall

ELEGANT
WORM DRIVES

Address: Gat No. 127, MQJP+HRC, opp. SM Mart, Ganesh Nagar, Talwade, Pimpri-Chinchwad, Maharashtra 411062

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