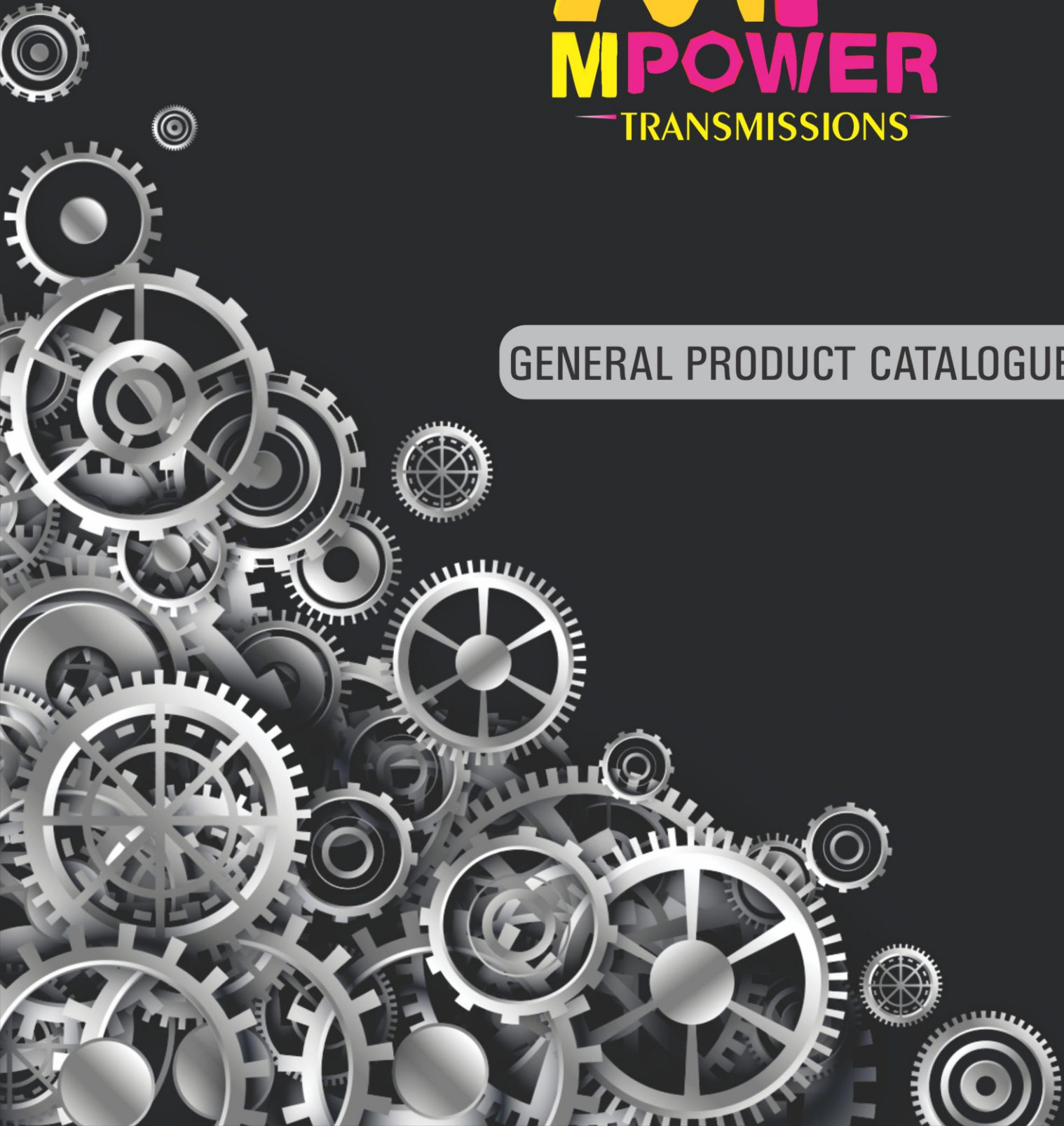




GENERAL PRODUCT CATALOGUE





ML SERIES GENERAL CATALOGUE



Mpower ML SERIES

Aluminium Casing Gearboxes are manufactured with high quality material in order to guarantee the maximum reliability and strength for long life of the gearbox. Worm shaft are made of steel which are case hardened to 58-60 HRC and profile ground. The thread grinding in the gear ratios that the module value permits is carried out with ZI- profile. This improves the contact between the toothed surface and therefore performance of the gearbox. This also reduces operating noise of the gearbox. The worm wheel has a G20 cast iron hub onto which a casting in AS 1 bronze RIM is fitted.

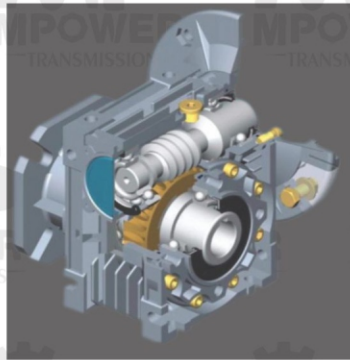
This series Gearbox Housing & flanges are made out to aluminium alloy up to sizes 90 and from size 110 & above cast iron are used. This series gearbox comes with universal mounting options in all sizes.

This series Gearbox are filled with synthetic oil grade ISO VG 320 up to sizes 90 which is virtually maintenance free and does not require oil change during their lifetime. From size 110 & above mineral oil is used in general and synthetic oil on request.

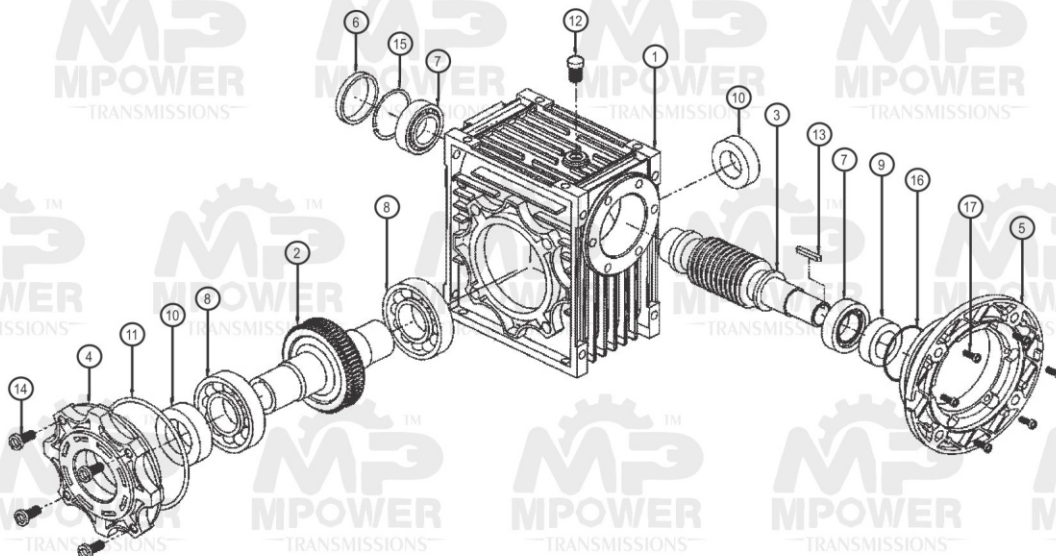
This series gearbox from box 63 & above are mounted with 2 taper roller bearings on the worm shafts improving the mechanical resistance to the axial thrust generated by the worm wheel.

GEARBOX INTERNAL STRUCTURE

No.	Parts
1.	Frame
2.	Worm Wheel
3.	Worm Shaft
4.	Output Shaft Cover
5.	Flange
6.	Seal Cover
7.	Bearing
8.	Bearing
9.	Oil Seal



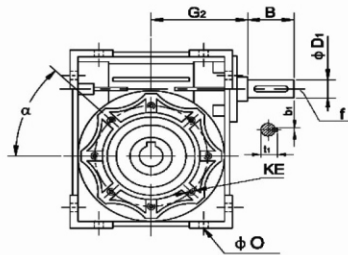
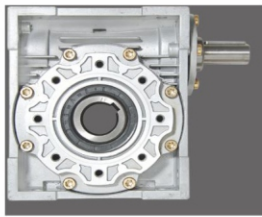
No.	Parts
10.	Oil Seal
11.	Oring
12.	Oil Plug
13.	Key
14.	Intl. Key Screw
15.	Snap Ring
16.	Oring
17.	Intl. Hex Screw



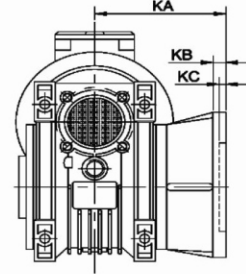
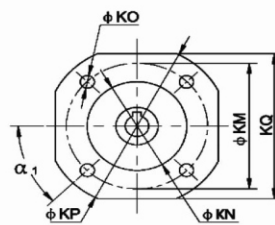


ML SERIES INSTALLATION DIMENSIONS

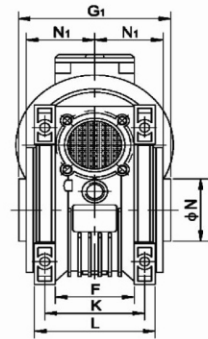
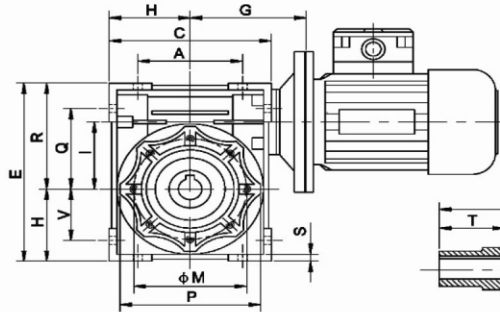
ML



OUTPUT FLANGE



MLM



Size	A	B	C	D (H7)	D ₁ (J6)	E	F	G	G ₁	G ₂	H	I	L	M	N (h8)	N ₁	O	P	Q	R
30	54	20	80	14	9	97	32	55	63	51	40	30	56	65	55	29	6.5	75	44	57
40	70	23	100	18 (19)	11	121.5	43	70	78	60	50	40	71	75	60	36.5	6.5	87	55	71.5
50	80	30	120	25 (24)	14	144	49	80	92	74	60	50	85	85	70	43.5	8.5	100	64	84
63	100	40	144	25 (28)	19	174	67	95	112	90	72	63	103	95	80	53	8.5	110	80	102
75	120	50	172	28 (35)	24	205	72	112.5	120	105	86	75	112	115	95	57	11	140	93	119
90	140	50	208	35 (38)	24	238	74	129.5	140	125	103	90	130	130	110	67	13	160	102	135
110	170	60	252.5	42	28	295	-	160	155	142	127.5	110	144	165	130	74	14	200	125	167.5
130	200	80	292.5	45	30	335	-	180	170	162	147.5	130	155	215	180	81	16	250	140	187.5
150	240	80	340	50	35	400	-	210	200	192	170	150	185	215	180	96	18	250	180	230

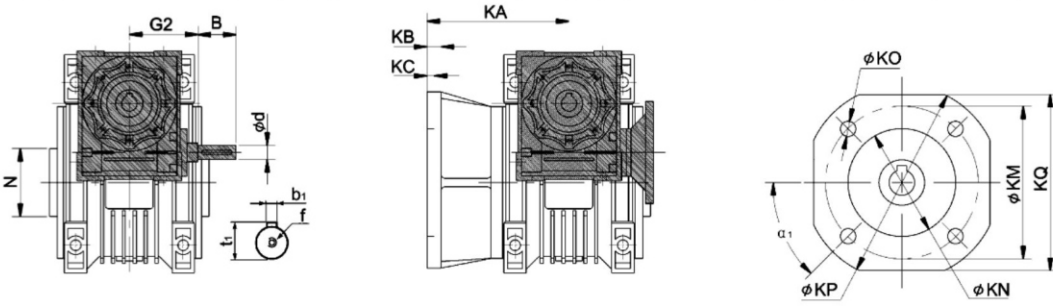
Size	S	T	V	KA			KB			KC			KE	α	α ₁	KM			KN (H8)			KO			KP			KQ			b	b ₁	f	t	t ₁	kg	
				F	FB	FL	F	FB	FL	F	FB	FL				F	FB	FL	F	FB	FL	F	FB	FL	F	FB	FL	F	FB	FL							
30	5.5	21	27	44	54.5	-	-	6	-	4	-	-	M6X11 (n,4)	0°	45°	68	-	-	50	-	-	6.5 (n,4)	-	-	80	-	70	-	-	5	3	-	16.3	10.2	1.2		
40	6.5	26	35	60	67	76.5	97	7	9	7	4	5	4	M6X8 (n,4)	45°	45°	87	115	87	60	95	60	9 (n,4)	9.5 (n,4)	9 (n,4)	110	140	110	95	-	6(6)	4	-	20.8 (21.8)	12.5	2.3	
50	7	30	40	70	90	87.5	120	9	10	9	5	5	5	M8X10 (n,4)	45°	45°	90	130	90	70	110	70	11 (n,4)	9.5 (n,4)	11 (n,4)	125	160	125	110	-	110	8(8)	5	M6	28.3 (27.3)	16.0	3.5
63	8	36	50	85	82	99	112	10	11	10	6	5	6	M8X14 (n,4)	45°	45°	150	165	150	115	130	115	11 (n,4)	11 (n,4)	11 (n,4)	180	200	180	142	-	142	8(8)	6	M6	28.3 (31.3)	21.5	6.2
75	10	40	60	90	111	-	-	13	-	6	-	-	-	M8X14 (n,4)	45°	45°	165	-	-	130	-	-	14 (n,4)	-	-	200	-	170	-	-	8(10)	8	M8	31.3 (38.3)	27.0	9	
90	11	45	70	100	111	-	-	13	-	6	-	-	-	M10X18 (n,4)	45°	45°	175	-	-	152	-	-	14 (n,4)	-	-	210	-	200	-	-	10(10)	8	M12	38.3 (41.3)	27.0	13	
110	14	50	85	115	131	-	-	15	-	6	-	-	-	M10X18 (n,4)	45°	45°	230	-	-	170	-	-	14 (n,4)	-	-	280	-	260	-	-	12	8	M10	45.3	31.0	35	
130	15	60	100	120	140	-	-	15	-	6	-	-	-	M12X21 (n,4)	45°	22.5°	255	-	-	180	-	-	16 (n,4)	-	-	320	-	290	-	-	14	8	M10	48.8	33.0	48	
150	18	72.5	120	145	155	-	-	15	-	6	-	-	-	M12X21 (n,4)	45°	22.5°	255	-	-	180	-	-	16 (n,4)	-	-	320	-	290	-	-	14	10	M12	53.8	38.0	84	

ML - Code for Aluminium Casing Reducer, M - With Motor Mounting Flange, Size - Centre Distance

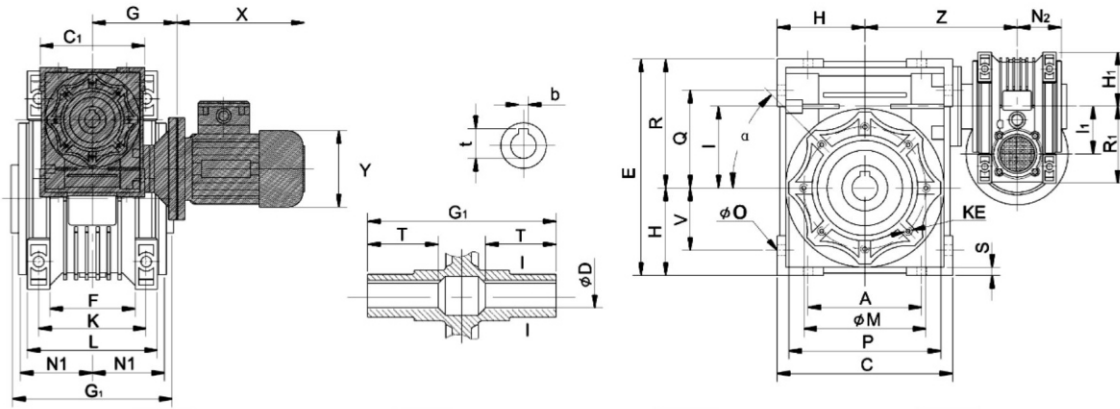
DOUBLE ML (WORM-WORM) SERIES INSTALLATION DIMENSIONS

ML-WW

Output Flange



MLM-WW



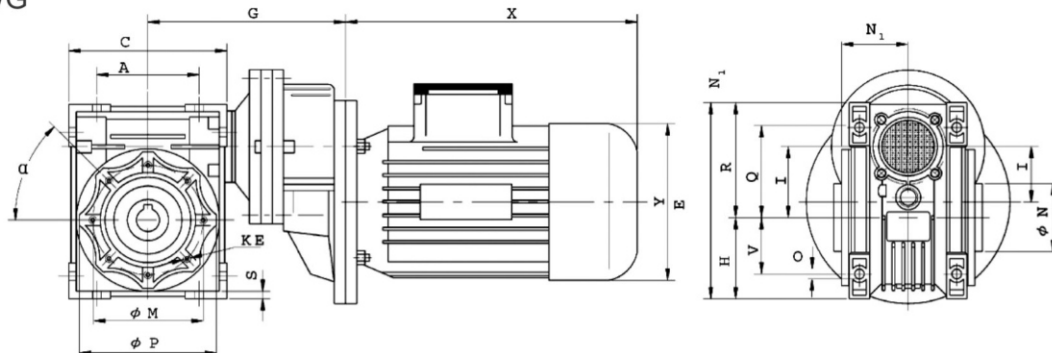
Size	A	B	C	C ₁ (H7)	d (j6)	E	F	G	G ₁	G ₂	H	H ₁	I	I ₁	L	M	N(h8)	M ₁	N ₁	O	P	Q	R	R ₁	S	T	V	Z	K	KA			
																														F	FB	FL	
25/30	54	-	80	70	14	-	97	32	45	63	-	40	35	30	25	55	65	55	29	22.5	6.5	7.5	44	57	48	5.5	21	27	100	44	54.5	-	-
25/40	70	-	100	70	18 (19)	-	121.5	43	45	78	-	50	35	40	25	71	75	60	36.5	22.5	6.5	87	55	71.5	48	6.5	26	35	115	60	67	76.5	97
30/40	70	20	100	80	18 (19)	9	121.5	43	55	78	51	50	40	40	30	71	75	60	36.5	29	6.5	87	55	71.5	57	6.5	26	35	120	60	67	76.5	97
30/05	80	20	120	80	25 (24)	9	144	49	55	92	51	60	40	50	30	85	85	70	43.5	29	8.5	100	64	84	57	7	30	40	130	70	90	87.5	120
30/63	100	20	144	80	25 (28)	9	174	67	55	112	51	72	40	63	30	103	95	80	53	29	8.5	110	80	102	57	8	36	50	145	85	82	99	112
40/75	120	23	172	100	28 (35)	11	205	72	70	120	60	86	50	75	40	112	115	95	57	36.5	11	140	93	119	71.5	10	40	60	165	90	111	-	-
40/90	140	23	208	100	35 (38)	11	238	74	70	140	60	103	50	90	40	130	130	110	67	36.5	13	160	102	135	71.5	11	45	70	182	100	111	-	-
50/110	170	30	252.5	120	42	14	295	-	80	155	74	127.5	60	110	50	144	165	130	74	43.5	14	200	125	167.5	84	14	50	85	225	115	131	-	-
63/130	200	40	292.5	144	45	19	335	-	95	170	90	147.5	72	130	63	155	215	180	81	53	16	250	140	187.5	102	15	60	100	245	120	140	-	-
63/150	240	40	340	144	50	19	400	-	95	200	90	170	72	150	63	185	215	180	96	53	18	250	180	230	102	18	72.5	120	275	145	155	-	-

KB	KC	KE	á	á ₁	KM			KN (H8)			KO			KP			KQ			b	b ₁	f	t	t ₁	Kg		
					F	FB	FL	F	FB	FL	F	FB	FL	F	FB	FL	F	FB	FL								
6	-	-	4	M6 x 11 (n,4)	0°	90°	68	-	-	50	-	-	6.5 (n,4)	-	-	80	-	-	70	-	-	5	-	-	16.3	-	2.1
7	9	7	4(5)	M6 x 8 (n,4)	45°	90°	87	115	87	60	95	60	9 (n,4)	9.5 (n,4)	9 (n,4)	110	140	110	95	-	95	6 (6)	95	-	20.8 (21.8)	-	3.2
7	9	7	4(5)	M6 x 8 (n,4)	45°	90°	87	115	87	60	95	60	9 (n,4)	9.5 (n,4)	9 (n,4)	110	140	110	110	-	110	6 (6)	110	-	20.8 (21.8)	10.2	3.9
9	10	9	5(5)	M8 x 10 (n,4)	45°	90°	90	130	90	70	110	70	11 (n,4)	9.5 (n,4)	11 (n,4)	125	160	125	110	-	110	8 (8)	110	-	82.3 (27.3)	10.2	5.0
10	11	10	6(5)	M8 x 14 (n,8)	45°	90°	150	165	150	115	130	115	11 (n,4)	11 (n,4)	11 (n,4)	180	200	180	142	-	142	8 (8)	142	-	28.3 (31.3)	10.2	7.8
13	-	-	6	M8 x 14 (n,8)	45°	90°	165	-	-	130	-	-	14 (n,4)	-	-	200	-	-	170	-	-	8 (10)	-	-	31.3 (38.3)	12.5	12.0
13	-	-	6	M10 x 18 (n,8)	45°	90°	175	-	-	152	-	-	14 (n,4)	-	-	210	-	-	200	-	-	10 (10)	-	-	38.3 (41.3)	12.5	16.0
15	-	-	6	M10 x 18 (n,8)	45°	45°	230	-	-	170	-	-	14 (n,8)	-	-	280	-	-	260	-	-	12	-	M6	45.3	16.0	39.2
15	-	-	6	M12 x 21 (n,8)	45°	22.5°	255	-	-	180	-	-	16 (n,8)	-	-	320	-	-	290	-	-	14	-	M6	48.8	21.5	55.0
15	-	-	6	M12 x 21 (n,8)	45°	22.5°	255	-	-	180	-	-	16 (n,8)	-	-	320	-	-	290	-	-	14	-	M6	53.8	21.5	93

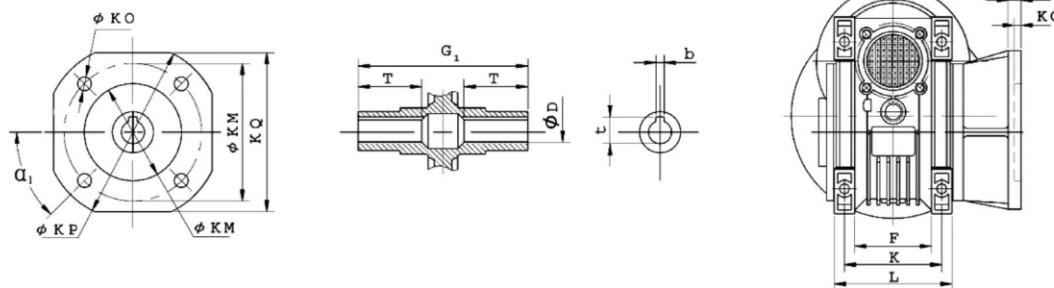


DOUBLE ML (WORM-GEAR) SERIES INSTALLATION DIMENSIONS

MLM-WG



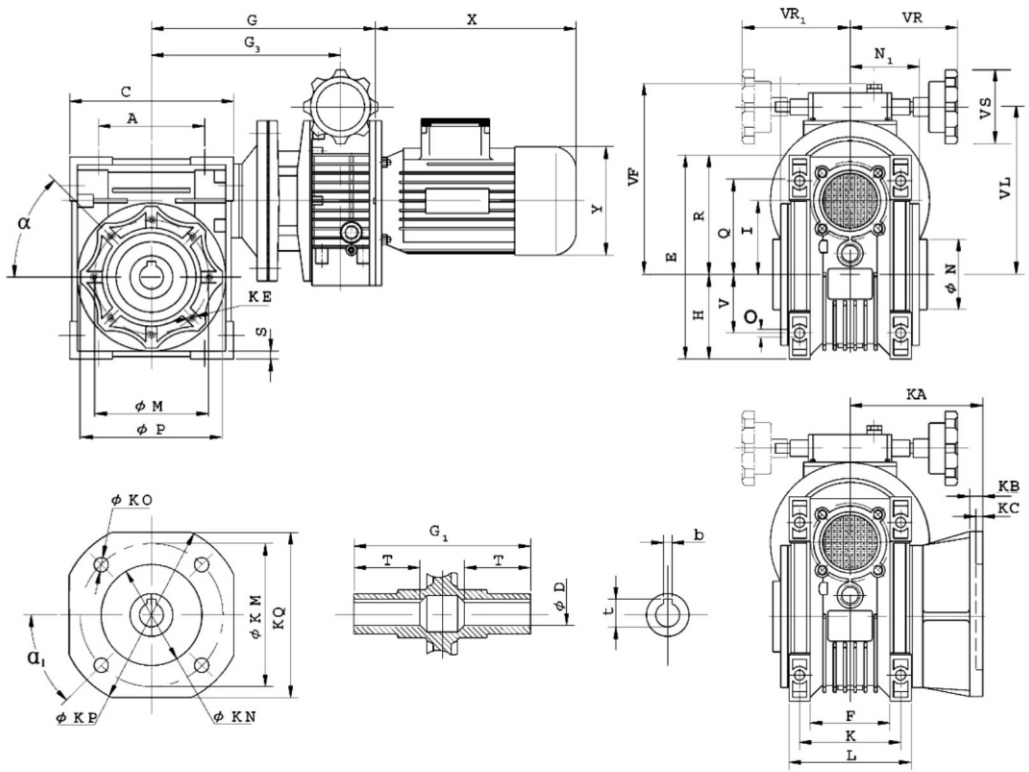
Output Flange



Size	A	C	D(H7)	E	F	G	G ₁	H	I	I	I	M	N(h8)	N ₁	O	P	Q	R	S	T	V	K	KA			KB			KC	KE	á	á ₁
																							F	FB	FL	F	FB	FL				
40/63	70	100	18(19)	121.5	43	123	123	50	40	40	71	75	60	36.5	6.5	87	55	71.5	6.5	25	35	60	67	76.5	97	7	7	4(5)	M6 x 8 (n.4)	45°	45°	
50/63	80	120	25(24)	144	49	133	133	60	50	40	85	85	70	43.5	8.5	100	64	84	7	30	40	70	90	87.5	120	9	10	9	5(5)	M8 x 10 (n.4)	45°	45°
50/71	80	120	25(24)	144	49	143	143	60	50	50	85	85	70	43.5	8.5	100	64	84	7	30	40	70	90	87.5	120	9	10	9	5(5)	M8 x 10 (n.4)	45°	45°
63/63	100	144	25(28)	174	67	148	148	72	63	40	103	95	80	53	8.5	110	80	102	8	36	50	85	82	99	112	10	11	10	6(5)	M8 x 14 (n.8)	45°	45°
63/71	100	144	25(28)	174	67	158	158	72	63	50	103	95	80	53	8.5	110	80	102	8	40	50	85	82	99	112	10	11	10	6(5)	M8 x 14 (n.8)	45°	45°
75/71	120	172	28(35)	205	72	176	176	86	75	50	112	115	95	57	11	140	93	119	10	40	60	90	111	-	-	13	-	-	6	M8 x 14 (n.8)	45°	45°
75/80	120	172	28(35)	205	72	186	186	86	75	63	112	115	95	57	11	140	93	119	10	40	60	90	111	-	-	13	-	-	6	M8 x 14 (n.8)	45°	45°
90/71	140	208	35(38)	238	74	193	193	103	90	50	130	130	110	67	13	160	102	135	11	45	70	100	111	-	-	13	-	-	6	M10 x 18 (n.8)	45°	45°
90/80	140	208	35(38)	238	74	203	203	103	90	63	130	130	110	67	13	160	102	135	11	45	70	100	111	-	-	13	-	-	6	M10 x 18 (n.8)	45°	45°
110/80(90)	170	252.5	42	295	-	233	233	127.5	110	63	144	165	130	74	14	200	125	167.5	14	50	85	115	131	-	-	15	-	-	6	M10 x 18 (n.8)	45°	45°
130/80(90)	200	292.5	45	335	-	253	253	147.5	130	63	155	215	180	81	16	250	140	187.5	15	60	100	120	140	-	-	15	-	-	6	M12 x 21 (n.8)	45°	45°

Size	KM			KN (H8)			KO			KP			KQ			b	t	Kg
	A	FB	FL	F	FB	FL	F	FB	FL	F	FB	FL	F	FB	FL			
40/63	87	115	87	60	95	60	9(n.4)	9.5(n.4)	9(n.4)	110	140	110	95	-	95	6(6)	20.8 (21.8)	3.9
50/63	90	130	90	70	110	70	11(n.4)	9.5(n.4)	11(n.4)	125	160	125	110	-	110	8(8)	28.3 (27.3)	5.2
50/71	90	130	90	70	110	70	11(n.4)	9.5(n.4)	11(n.4)	125	160	125	110	-	110	8(8)	28.3 (27.3)	5.8
63/63	150	165	150	115	130	115	11(n.4)	11(n.4)	11(n.4)	180	200	180	142	-	142	8(8)	28.3 (31.3)	7.9
63/71	150	165	150	115	130	115	11(n.4)	11(n.4)	11(n.4)	180	200	180	142	-	142	8(8)	28.3 (31.3)	8.5
75/71	165	-	-	130	-	-	14(n.4)	-	-	200	-	-	170	-	-	8(10)	31.3 (38.3)	11.3
75/80	165	-	-	130	-	-	14(n.4)	-	-	200	-	-	170	-	-	8(10)	31.3 (38.3)	13.1
90/71	175	-	-	152	-	-	14(n.4)	-	-	210	-	-	200	-	-	10(10)	38.3 (41.3)	15.3
90/80	175	-	-	152	-	-	14(n.4)	-	-	210	-	-	200	-	-	10(10)	38.3 (41.3)	17.2
110/80(90)	230	-	-	170	-	-	14(n.8)	-	-	280	-	-	260	-	-	12	45.3	39
130/80(90)	235	-	-	180	-	-	16(n.8)	-	-	320	-	-	290	-	-	14	48.8	52.2

MLM-WV (WORM-VARIATOR) SERIES INSTALLATION DIMENSIONS



Size	α	α_1	A	K	KC			KE	KM			KN (H8)			KO			M	N(h8)	N_1	O	Q	S	V	b	D (H7)	t	T
					F	FB	FL		F	FB	FL	F	FB	FL														
40/0.18	45°	45°	70	60	4	5	4	M6 x 8 (n,4)	87	115	87	60	95	60	9 (n,4)	9.5 (n,4)	9 (n,4)	75	60	36.5	6.5	55	6.5	35	6(6)	18 (19)	20.8 (21.8)	26
50/0.18	45°	45°	80	70	5	5	5	M6 x 10 (n,4)	90	130	90	70	110	70	11 (n,4)	9.5 (n,4)	11 (n,4)	85	70	43.5	8.5	64	7	40	8(8)	25 (24)	28.3 (27.3)	30
50/0.37																												
63/0.37	45°	45°	100	85	6	5	6	M8 x 14 (n,8)	150	165	150	115	130	115	11 (n,4)	11 (n,4)	11 (n,4)	95	80	53	8.5	80	8	50	8(8)	25 (28)	28.3 (31.3)	36
63/0.55																												
63/0.75																												
75/0.37																												
75/0.55	45°	45°	120	90	6	-	-	M 8 x 14 (n,8)	165	-	-	130	-	-	14 (n,4)	-	-	115	95	57	11	93	10	60	8(10)	28 (35)	31.3 (38.3)	40
75/0.75																												
75/1.1																												
75/1.5																												
90/0.55																												
90/0.75																												
90/1.1	45°	45°	140	110	6	-	-	M10 x 18 (n,8)	175	-	-	152	-	-	14 (n,4)	-	-	130	110	67	13	102	11	70	10 (10)	35 (38)	38.3 (41.3)	45
90/1.5																												
110/1.1																												
110/1.5																												
110/2.2																												
110/3.0																												
110/4.0	45°	45°	170	115	6	-	-	M10 x 18 (n,8)	230	-	-	170	-	-	14 (n,8)	-	-	165	130	74	14	125	14	85	12	42	45.3	50
130/1.5																												
130/2.2																												
130/3.0																												
130/4.0																												
130/4.0																												
130/4.0																												



CONTINUOUS

Size	C	E	F	G	G ₁	G ₂	H	I	KA			FB			KP			KQ			L	P	R	VF	VL	VS	VR	VR ₁
									F	FB	FL	F	FB	FL	F	FB	FL	F	FB	FL								
40/0.18	100	121.5	43	183	78	134	50	40	67	76.5	97	7	9	7	110	140	110	95	-	95	71	87	71.5	151	118	85	110	110
50/0.18	120	144	49	193	92	145	60	50	90	87.5	120	9	10	9	125	160	125	110	-	110	85	100	84	161	128	85	110	110
50/0.37				190		154																		173	140	85	110	110
63/0.37	144	174	67	205	112	169	72	63	82	99	112	10	11	10	180	200	180	142	-	142	103	110	102	186	153	85	110	110
63/0.55				234		181																		203	170	110	120	120
63/0.75				234		181																		203	170	110	120	120
75/0.37				223		187																		198	165	85	110	110
75/0.55	172	205	72	252	120	198	86	75	111	-	-	13	-	-	200	-	-	170	-	-	112	140	119	215	182	110	120	120
75/0.75				252		198																		215	182	110	120	120
75/1.1				259.5		207.5																		199	177	110	150	-
75/1.5				300.5		227.5																		219	197	110	150	-
90/0.55	208	238	74	269	140	215	103	90	111	-	-	13	-	-	210	-	-	200	-	-	130	160	135	230	197	110	120	120
90/0.75				269		215																		230	197	110	120	120
90/1.1				276.5		224.5																		214	192	110	150	-
90/1.5				317.5		244.5																		234	212	110	150	-
110/1.1	252.5	295	-	307	155	255	128	110	131	-	-	15	-	-	280	-	-	260	-	-	144	200	168	234	212	110	120	-
110/1.5				348		275																		254	232	110	150	-
110/2.2				368		291																		298	260	110	160	-
110/3.0				368		291																		298	260	110	160	-
110/4.0	368	291	298	260	110	160	-																					
130/1.5	292.5	335	-	368	170	295	148	130	140	-	-	15	-	-	320	-	-	290	-	-	155	250	188	274	252	110	150	-
130/2.2				388		311																		318	280	110	160	-
130/3.0				388		311																		318	280	110	160	-
130/4.0				388		311																		318	280	110	160	-

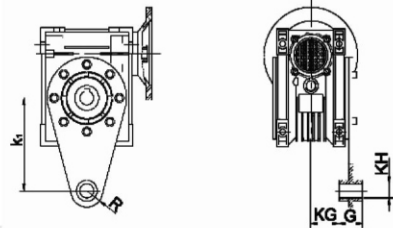
ACCESSORIES DIMENSIONS



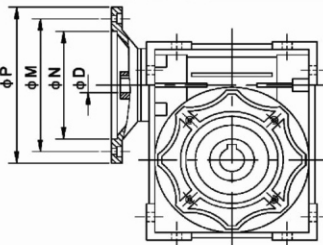
Accessories Dimensions



Torque Arm



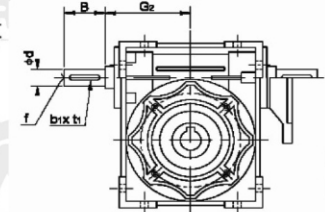
Motor Mounting Facility



Size	K ₁	G	KG	KH	R
25	70	14	17.5	8	15
30	85	14	24	8	15
40	100	14	31.5	10	18
50	100	14	38.5	10	18
63	150	14	49	10	18
75	200	25	47.5	20	30
90	200	25	57.5	20	30
110	250	30	62	25	35
130	250	30	69	25	35
150	250	30	84	25	35

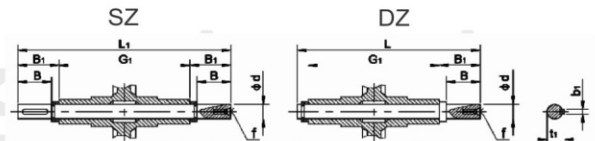
Size	PAM IEC	N	M	P	D															
					7.5	10	15	20	25	30	40	50	60	80	100					
25	63B5	95	115	140	9	9	9	9	9	9	9	9	-	-	-	-	-			
	63B14	60	75	90	11	11	11	11	11	11	11	11	-	-	-	-	-			
	56B5	80	100	120	9	9	9	9	9	9	9	9	9	-	-	-	-			
30	56B14	50	65	80	-	-	-	-	-	-	-	-	-	-	-	-	-			
	71B5	110	130	160	14	14	14	14	14	14	14	14	-	-	-	-	-			
	71B14	70	85	105	-	-	-	-	-	-	-	-	-	-	-	-	-			
40	63B5	95	115	140	11	11	11	11	11	11	11	11	11	11	11	11	11			
	63B14	60	75	90	-	-	-	-	-	-	-	-	-	-	-	-	-			
	56B5	80	100	120	-	-	-	-	-	-	9	9	9	9	-	-	-			
50	80B5	130	165	200	19	19	19	19	19	19	-	-	-	-	-	-	-			
	80B14	80	100	120	-	-	-	-	-	-	-	-	-	-	-	-	-			
	71B5	110	130	160	14	14	14	14	14	14	14	14	14	-	-	-	-			
63	63B5	95	115	140	-	-	-	-	-	-	11	11	11	11	11	11	11			
	90B5	130	165	200	24	24	24	24	24	24	-	-	-	-	-	-	-			
	90B14	95	115	140	-	-	-	-	-	-	-	-	-	-	-	-	-			
75	80B5	130	165	200	-	-	-	19	19	19	19	19	19	19	19	19	19			
	80B14	80	100	120	-	-	-	-	-	-	-	-	-	-	-	-	-			
	71B5	110	130	160	-	-	-	-	-	-	14	14	14	14	14	14	14			
90	100/112B5	180	215	250	28	28	28	28	28	28	-	-	-	-	-	-	-			
	100/112B14	110	130	160	-	-	-	-	-	-	-	-	-	-	-	-	-			
	90B5	130	165	200	24	24	24	24	24	24	24	24	24	-	-	-	-			
110	90B14	95	115	140	-	-	-	-	-	-	-	-	-	-	-	-	-			
	80B5	130	165	200	-	-	-	-	-	-	19	19	19	19	19	19	19			
	80B14	80	100	120	-	-	-	-	-	-	-	-	-	-	-	-	-			
130	132B5	230	265	300	38	38	38	38	38	38	-	-	-	-	-	-	-			
	100/112B5	180	215	250	28	28	28	28	28	28	28	28	28	-	-	-	-			
	90B5	130	165	200	-	-	-	-	-	-	24	24	24	24	24	24	24			
150	80B5	130	165	200	-	-	-	-	-	-	-	-	-	-	-	-	-			
	132B5	230	265	300	38	38	38	38	38	38	-	-	-	-	-	-	-			
	100/112B5	180	215	250	-	-	-	-	-	-	28	28	28	28	28	28	28			

Double Worm Shaft



Size	G ₁	d (j6)	B	f	b ₁	t ₁
30	45	9	20	-	3	10.2
40	53	11	23	-	4	12.5
50	64	14	30	M6	5	16
63	75	19	40	M6	6	21.5
75	90	24	50	M8	8	27
90	108	24	50	M8	8	27
110	135	28	60	M10	8	31
130	155	30	80	M10	8	33
150	175	35	80	M12	10	38

Sizes of Single(DZ) & Double(SZ) Output Shaft



Size	d (h6)	B	B ₁	G ₁	L	L ₁	f	b ₁	t ₁
25	11	23	25.5	50	81	101	-	4	12.5
30	14	30	32.5	63	102	128	M6	5	16
40	18	40	43	78	128	164	M6	6	20.5
50	25	50	53.5	92	153	199	M10	8	28
63	25	50	53.5	112	173	219	M10	8	28
75	28	60	63.5	120	192	247	M10	8	31
90	35	80	84.5	140	234	309	M12	10	38
110	42	80	84.5	155	249	324	M16	12	45
130	45	80	85	170	265	340	M16	14	48.5
150	50	82	87	200	297	374	M16	14	53.5



SELECTION & PERFORMANCE TABLE

Selection example : (For type ML and MLM)

To select a worm gear box for the following application:

Load torque = 27 N.m. **Out-put RPM** = 70.

Duty conditions : (a) Light loading, (b) 60 Starts/Hour, (c) 20 Hrs/Day

1. Refer Table 1 and get the Duty factor "**K**" = **1.38** for the specified duty conditions.

2. Calculate permissible out put torque of the gear box.

$$M2 = K \times \text{Load torque} = 1.38 \times 27 = \mathbf{37.3 \text{ N.m.}}$$

3. To select the gear box model and the power of the drive motor refer Table No. 2.

Under the vertical column for **N2 = 70 RPM** (Ratio **i = 20 : 1**) read various torque values, Select the row which gives a figure nearest to the calculated torque which is **M2 = 37.3 N.m.**

4. The nearest torque value is 39 N-m. has two options of gear boxes. One is with gear box model **ML 40 20 ...** and second is with **ML 50 20...**

Table 1

DUTY CONDITIONS				
LOADING	STARTS / HOURS	HOURS / DAY		
		2	8	20
Light Duty	Up to < 30	0.83	1.08	1.25
	Between 30 to 60	←0.92	←1.15	←1.38
	100 or more	1.03	1.25	1.45
Medium Duty	Up to < 30	1.08	1.28	1.48
	Between 30 to 60	1.18	1.38	1.58
	100 or more	1.28	1.48	1.68
Heavy Duty	Up to < 30	1.28	1.48	1.68
	Between 30 to 60	1.38	1.62	1.82
	100 or more	1.55	1.75	1.95

Table 2

GEAR BOX			Speed Ratio (I)																		
			7.5	10	15	20	25	30	40	50	60	80	100								
Box Size	Fr. Sz.	Hp	N2 RPM (At Motor Speed N1 = 1400 RPM)																		
			187	140	93	70	56	47	35	28	23	17.5	14								
			MAXIMUM OUT-PUT TORQUE M2 (N-m)																		
30	63 B5	0.25	8	10	14	18	20														
40			8	10	15	19	23	26	32	38											
50										32	38	44	53	55							
40	71 B5	0.35	11	14	20	26	31	36	44												
50			11	14	21	26	32	36	45	53	60	65	55								
63													77	85							
40	71 B5	0.50	16	21	30	39															
50			16	21	31	39	47	54	66	73											
63										70	83	95	114	118							
40	80 B5	0.75	24.5	32																	
50			25	32	46	59															
63					46	60	72	80	104	123											
75									108	129	146	180	180								
50	80 B5	1.00	34	44	63																
63			33	44	63	82	99	109	143												
75								116	147	176	200										
90										184	212	257	270								
63	90S B5	1.50	49	65	93	121															
75			49	66	95	122	149	170	216												
90									225	271	311										
110											324	410	460								
75	90L B5	2.00	67	90	130	167	200	230													
90							209	236	306	369											
110											375	442	490								
130													547	652							
90	100L B5	3.00	101	133	193	251	307	346													
110			101	133	192	256	316	355	462	550											
130											567	660	803								
110	112M B5	5.00	170	225	326	429	530	597													
130			172	223	330	431	529	606	793	907											

Also available in B14 Frame Mounting



SELECTION & PERFORMANCE TABLE OF DOUBLE ML (WORM-WORM) SERIES

Size	l	n_2 (r/min)	KW _i	$M_2(N - m)$	i_1	i_2	
25/30	100	14.0	0.09	30	10	10	
	150	9.3	0.06	28	7.5	20	
	200	7.0	0.06	28	10	20	
	250	5.6	0.06	35	10	25	
	300	4.7	0.06	31	10	30	
	400	3.5	0.06	28	20	20	
	500	2.8	0.06	34	20	25	
	600	2.3	0.06	31	20	30	
	750	1.9	0.06	34	30	25	
	900	1.6	0.06	31	30	30	
	1200	1.2	0.06	28	30	40	
	1500	0.9	0.06	26	30	50	
	1800	0.8	0.06	31	60	30	
	2400	0.6	0.06	28	60	40	
25/40	300	0.5	0.06	26	60	50	
	300	4.7	0.06	59	10	30	
	400	3.5	0.06	63	10	40	
	500	2.8	0.06	57	10	50	
	600	2.3	0.06	65	15	40	
	750	1.9	0.06	60	15	50	
	900	1.6	0.06	73	30	30	
	1200	1.2	0.06	65	30	40	
	1500	0.9	0.06	60	30	50	
	1800	0.8	0.06	56	30	60	
	2400	0.6	0.06	56	40	60	
	3000	0.5	0.06	60	60	50	
	30/40	300	4.7	0.09	70	10	30
		400	3.5	0.06	63	10	40
500		2.8	0.06	57	20	25	
600		2.3	0.06	72	20	30	
750		1.9	0.06	72	25	30	
900		1.6	0.06	73	30	30	
1200		1.2	0.06	65	30	40	
1500		0.9	0.06	73	50	30	
1800		0.8	0.06	73	60	30	
2400		0.6	0.06	65	60	40	
3200		0.4	0.06	65	80	40	
30/50		300	4.7	0.18	142	10	30
		400	3.5	0.12	127	10	40
		500	2.8	0.09	123	10	50
	600	2.3	0.09	143	20	30	
	750	1.9	0.09	148	25	30	
	900	1.6	0.06	141	30	30	
	1200	1.2	0.06	118	30	40	
	1500	0.9	0.06	139	50	30	
	1800	0.8	0.06	155	60	30	
	2400	0.6	0.06?	124	60	40	
	3000	0.5	0.06	120	60	50	
	30/63	300	4.7	0.22	210	7.5	40
		400	3.5	0.18	222	10	40
		500	2.8	0.18	205	10	50
600		2.3	0.12	208	15	40	
750		1.9	0.12	216	15	50	
900		1.6	0.09	200	15	60	
1200		1.2	0.09	236	30	40	
1500		0.9	0.06	204	30	50	
1800		0.8	0.06	202	30	60	
2400		0.6	0.06	220	60	40	
3000		0.5	0.06	223	60	50	

Size	l	n_2 (r/min)	KW _i	$M_2(N - m)$	i_1	i_2	
40/75	300	4.7	0.37	405	10	30	
	400	3.5	0.25	336	10	40	
	500	2.8	0.25	307	10	50	
	600	2.3	0.18	362	20	30	
	750	1.9	0.18	391	25	30	
	900	1.6	0.12	325	30	30	
	1200	1.2	0.12	359	30	40	
	1500	0.9	0.09	360	50	30	
	1800	0.8	0.09	404	60	30	
	2400	0.6	0.06	330	60	40	
	3000	0.5	0.06	301	60	50	
	40/90	300	4.7	0.37	402	7.5	40
		400	3.5	0.37	523	10	40
		500	2.8	0.37	550	10	50
600		2.3	0.37	605	15	40	
750		1.9	0.25	538	15	50	
900		1.6	0.25	533	15	60	
1200		1.2	0.18	629	30	40	
1500		0.9	0.18	588	30	50	
1800		0.8	0.12	492	30	60	
2400		0.6	0.12	625	60	40	
3000		0.5	0.09	548	60	50	
50/110		300	4.7	0.75	817	10	30
		400	3.5	0.75	1013	10	40
		500	2.8	0.55	984	10	50
	600	2.3	0.55	1062	15	40	
	750	1.9	0.55	1128	25	30	
	900	1.6	0.37	1079	30	30	
	1200	1.2	0.25	943	30	40	
	1500	0.9	0.25	1064	50	30	
	1800	0.8	0.25	1075	60	30	
	2400	0.6	0.18	1001	60	40	
	3000	0.5	0.12	884	60	50	
	63/130	300	4.7	1.50	1789	10	30
		400	3.5	1.00	1519	10	40
		500	2.8	1.00	1629	10	50
600		2.3	0.75	1631	15	40	
750		1.9	0.75	1804	25	30	
900		1.6	0.75	1826	30	30	
1200		1.2	0.55	1705	30	40	
1500		0.9	0.37	1674	50	30	
1800		0.8	0.37	1698	60	30	
2400		0.6	0.25	1624	60	40	
3000		0.5	0.25	1548	60	50	
63/150		200	7	1.5	1317	10	20
		250	5.6	1.5	1602	10	25
		300	4.7	1.5	1860	10	30
	400	3.5	1.5	2208	10	40	
	500	2.8	1.1	1893	20	25	
	600	2.3	1.1	2242	20	30	
	750	1.9	0.75	1783	25	30	
	900	1.6	0.75	1994	30	30	
	1200	1.2	0.75	2680	30	40	
	1500	0.9	0.75	2700	50	30	
	1800	0.8	0.37	1775	60	30	
	2400	0.6	0.37	2141	60	40	
	3000	0.5	0.25	1713	60	50	



SELECTION & PERFORMANCE TABLE OF DOUBLE ML (WORM-GEAR) SERIES

Size	Ratio	Input Power	Output		
			n_2 (r/min)	M_2 (N.m)	
40 / 63	75 (3x25)	0.12	18.7	42	
		0.18		49	
	90 (3x30)	0.12	15.6	45	
		0.18		61	
	120 (3x40)	0.12	11.7	50	
		0.18		52	
	150 (3x50)	0.12	9.3	7.8	46
	180 (3x60)			5.8	40
240 (3x80)	4.7			36	
300 (3x100)	18.7			62	
71	17.7			91	
50/	63	0.18	15.6	69	
		0.25		102	
	71	0.18	11.7	85	
		0.25		11	100
	63	150 (3x50)	0.12	9.3	66
			0.18		89
		180 (3x60)	0.12	7.8	74
			0.18		88
		240 (3x80)	0.12	5.8	78
			0.18		76
300 (3x100)	0.12	4.7	65		
0.18	94				
63/	71	0.25	17.7	139	
		0.37		103	
		0.25	14.7	153	
		0.37		11	129
	126.8 (3.17x40)	0.25	11	191	
		0.37		9.3	101
	63	150 (3x50)	0.18	8.8	148
			0.37		176
	71	180 (3x60)	0.18	7.8	115
			0.25		7.4
	71	190.2 (3.17x60)	0.25	7.4	151
			0.37		9.3
	63	240 (3x80)	0.12	5.8	90
			0.18		136
71	253.6 (3.17x80)	0.25	5.5	139	
		0.37		101	
63	300 (3x100)	0.12	4.7	121	
		0.18		128	
71	317 (3.17x100)	0.25	4.4	128	
		0.37		201	
75/	80	0.55	18.7	247	
		0.75		269	
		0.92		143	
	71	79.3 (3.17x25)	0.37	17.7	143
			0.55		225
	80	90 (3x30)	0.55	15.6	307
			0.75		300
			0.92		160
	71	95.1 (3.17x30)	0.37	14.7	160
			0.55		11.7
	80	120 (3x40)	0.37	11	198
			0.55		9.3
71	126.8 (3.17x40)	0.37	11	198	
		0.55		9.3	260
80	150 (3x50)	0.25	8.8	156	
		0.37		231	

Size	Ratio	Input Power	Output			
			n_2 (r/min)	M_2 (N.m)		
75/71	190.2 (3.17x60)	0.25	7.4	178		
		0.37		236		
		0.25		208		
90/	90 (3x30)	0.55	15.6	235		
		0.75		320		
		0.55		11.7	291	
	120 (3x40)	0.55	9.3	347		
		0.75		397		
		0.55		7.8	390	
	150 (3x50)	0.55	7.8	425		
		0.75		278		
		0.37		7.4	278	
	180 (3x60)	0.37	5.8	374		
		0.55		5.8	374	
		0.37		5.5	332	
71	253.6 (3.17x80)	0.37	4.4	345		
		0.37		345		
		0.37		1.1	384	
90	72.6 (2.42x30)	1.1	19.3	524		
		1.5		629		
		1.8		629		
	80	74 (3x25)	0.75	14.5	293	
			1.1		498	
			1.5		697	
90	96.8 (2.42x40)	1.1	11.6	815		
		1.5		815		
		1.8		815		
	80	120 (3x40)	0.75	9.3	421	
			1.1		587	
			1.5		801	
110/	121 (2.42x50)	1.1	9.6	768		
		1.5		673		
		1.8		673		
	90	145.2 (2.42x60)	1.1	7.8	733	
			1.5		733	
			1.8		733	
80	150 (3x50)	0.75	7.8	496		
		1.1		417		
		1.5		569		
90	180 (3x60)	0.55	7.2	648		
		0.75		503		
		1.1		503		
	80	193.6 (2.42x80)	0.55	5.8	617	
			0.75		617	
			1.1		585	
130/	240 (3x60)	0.55	4.7	585		
		0.75		585		
		1.1		390		
	90	72.6 (2.42x30)	1.1	19.3	531	
			1.5		638	
			1.8		638	
		80	96.8 (2.42x40)	1.1	14.5	498
				1.5		679
				1.8		815
	90	121 (2.42x50)	1.1	11.6	596	
			1.5		813	
			1.8		976	
80		145.2 (2.42x60)	1.1	9.6	673	
			1.5		917	
			1.8		1101	
90	193.6 (2.42x80)	1.1	7.2	826		
		1.5		1013		
		1.8		826		
80	240 (3x80)	0.75	5.8	698		
		1.1		848		
90	242 (2.42x100)	0.55	4.7	585		
		0.75		797		



SELECTION & PERFORMANCE TABLE OF DOUBLE ML (WORM-VARIATOR) SERIES

Input	Size	Ratio	Output	
			n_2 (r/min)	M_2 (N.m)
$P_i = 0.18\text{kw}$ 4p $n_1 = 1400\text{r/min}$	40/0.18	7.5	117-22.7	9-18
	40/0.18	10	88-17	12-23
	40/0.18	15	58.7-11.3	17-32
	40/0.18	20	44-8.5	22-40
	40/0.18	25	35.2-6.8	27-47
	40/0.18	30	29.3-5.7	30-51
	40/0.18	40	22-4.3	37-62
	40/0.18	40	22-4.3	38-63
	50/0.18	50	17.6-3.4	43-60
	50/0.18	50	17.6-3.4	44-73
	50/0.18	60	14.7-2.8	50-80
	50/0.18	80	11-2.1	59-82
	50/0.18	100	8.8-1.7	66-79
	$P_i = 0.37\text{kw}$ 4p $n_1 = 1400\text{r/min}$	50/0.37	7.5	133-26.7
50/0.37		10	100-20	25-47
50/0.37		15	66.7-13.3	36-65
50/0.37		20	50-10	46-82
50/0.37		25	40-8	55-97
50/0.37		30	33.3-6.7	61-107
50/0.37		40	25-5	76-124
63/0.37		40	25-5	79-134
50/0.37		50	20-4	89-120
63/0.37		50	20-4	92-155
63/0.37		60	16.7-3.3	104-173
63/0.37		80	12.5-2.5	125-173
63/0.37		100	10-2	139-150
$P_i = 0.55\text{kw}$ 4p $n_1 = 1400\text{r/min}$		63/0.55	7.5	133-26.7
	63/0.55	10	100-20	34-63
	63/0.55	15	66.7-13.3	48-88
	63/0.55	20	50-10	62-112
	63/0.55	25	40-8	75-133
	63/0.55	30	33.3-6.7	81-146
	63/0.55	40	25-5	105-179
	63/0.55	50	20-4	123-207
	75/0.55	50	20-4	129-216
	75/0.55	60	16.7-3.3	146-242
	75/0.55	80	12.5-2.5	176-250
	90/0.55	80	12.5-2.5	189-309
	90/0.55	100	10-2	218-350
	$P_i = 0.75\text{kw}$ 4p $n_1 = 1400\text{r/min}$	63/0.75	7.5	133-26.7
63/0.75		10	100-20	51-94
63/0.75		15	66.7-13.3	72-132
63/0.75		20	50-10	92-168
63/0.75		25	40-8	112-199
63/0.75		30	33.3-6.7	126-219
63/0.75		40	25-5	156-232
63/0.75		50	20-4	185-310
75/0.75		50	20-4	192-320
75/0.75		60	16.7-3.3	219-300
90/0.75		60	16.7-3.3	230-389
90/0.75		80	12.5-2.5	265-428
110/0.75		80	12.5-2.5	302-503
90/0.75		100	10-2	303-410
$P_i = 1.1\text{kw}$ 4p $n_1 = 1400\text{r/min}$	110/0.75	100	10-2	348-575
	75/1.1	7.5	133-26.7	59-111
	75/1.1	10	100-20	77-144
	90/1.1	10	100-20	78-146
	75/1.1	15	66.7-13.3	110-203
	90/1.1	15	66.7-13.3	113-208
	75/1.1	20	50-10	142-258
	90/1.1	20	50-10	146-266
	75/1.1	25	40-8	172-308
	90/1.1	25	40-8	177-320
	75/1.1	30	33.3-6.7	195-340
	90/1.1	30	33.3-6.7	202-356
	75/1.1	40	25-5	245-360
	90/1.1	40	25-5	256-442

Input	Size	Ratio	Output		
			n_2 (r/min)	M_2 (N.m)	
$P_i = 1.1\text{kw}$ 4p $n_1 = 1400\text{r/min}$	90/1.1	50	20-4	304-517	
	110/1.1	50	20-4	320-550	
	110/1.1	60	16.7-3.3	368-625	
	130/1.1	60	16.7-3.3	373-623	
	110/1.1	80	12.5-2.5	455-754	
	130/1.1	80	12.5-2.5	460-749	
	110/1.1	100	10-2	522-710	
	130/1.1	100	10-2	531-868	
	$P_i = 1.5\text{kw}$ 4p $n_1 = 1400\text{r/min}$	75/1.5	7.5	133-26.7	78-148
		90/1.5	7.5	133-26.7	77-150
75/1.5		10	100-20	102-192	
90/1.5		10	100-20	104-195	
75/1.5		15	66.7-13.3	147-270	
90/1.5		15	66.7-13.3	150-277	
75/1.5		20	50-10	190-344	
90/1.5		20	50-10	194-355	
75/1.5		25	40-8	229-330	
90/1.5		25	40-8	236-427	
75/1.5		30	33.3-6.7	260-390	
90/1.5		30	33.3-6.7	270-474	
75/1.5		40	25-5	327-360	
90/1.5		40	25-5	341-589	
$P_i = 2.2\text{kw}$ 4p $n_1 = 1400\text{r/min}$	90/1.5	50	20-4	406-560	
	110/1.5	50	20-4	426-733	
	110/1.5	60	16.7-3.3	490-833	
	130/1.5	60	16.7-3.3	498-831	
	130/1.5	80	12.5-2.5	614-999	
	130/1.5	100	10-2	696-1100	
	110/2.2	7.5	133-26.7	120-226	
	110/2.2	10	100-20	157-294	
	110/2.2	15	66.7-13.3	228-418	
	110/2.2	20	50-10	298-549	
	110/2.2	25	40-8	364-664	
	110/2.2	30	33.3-6.7	413-717	
	110/2.2	40	25-5	533-931	
	130/2.2	40	25-5	542-932	
$P_i = 3.0\text{kw}$ 4p $n_1 = 1400\text{r/min}$	130/2.2	50	20-4	648-1097	
	130/2.2	60	16.7-3.3	746-1246	
	130/2.2	80	12.5-2.5	921-1499	
	130/2.2	100	10-2	1040-1100	
	110/3.0	7.5	133-26.7	160-302	
	130/3.0	7.5	133-26.7	160-301	
	110/3.0	10	100-20	210-392	
	130/3.0	10	100-20	211-395	
	110/3.0	15	66.7-13.3	304-558	
	130/3.0	15	66.7-13.3	307-563	
	110/3.0	20	50-10	398-732	
	130/3.4	20	50-10	402-733	
	110/3.0	25	40-8	485-885	
	130/3.0	25	40-8	490-885	
$P_i = 4.0\text{kw}$ 4p $n_1 = 1400\text{r/min}$	110/3.0	30	33.3-6.7	547-956	
	130/3.0	30	33.3-6.7	562-973	
	110/3.0	40	25-5	711-1030	
	130/3.0	40	25-5	720-1242	
	130/3.0	50	20-4	864-1463	
	110/4.0	7.5	133-26.7	213-402	
	130/4.0	7.5	133-26.7	214-401	
	110/4.0	10	100-20	279-523	
	130/4.0	10	100-20	281-527	
	110/4.0	15	66.7-13.3	405-744	
	130/4.0	15	66.7-13.3	410-751	
	110/4.0	20	50-10	530-975	
	130/4.0	20	50-10	536-978	
	110/4.0	25	40-8	647-1020	
130/4.0	25	40-8	653-1180		
130/4.0	30	33.3-6.7	749-1298		
130/4.0	40	25-5	960-1650		



LUBRICANTS

Reducer type	BV Series Variator	BL gear box				BVF gear box	
		25 ~ 90	110 ~ 130		30 ~ 63A	85 ~ 110	
Type of Lubricant	Synthetic Oil	Synthetic Oil	Synthetic Oil	Mineral Lubrication Oil		Grease	Synthetic Oil
Ambient Temperature	-25°C ~ +40°C	-25°C ~ +50°C	-25°C ~ +50°C	-5°C ~ +40°C	-15°C ~ +40°C	-5°C ~ +40°C	-15°C ~ +25°C
ISO VG	VG 320	VG 320	VG 320	VG 460	VG 220		VG 220
Shell	A.T.F. Dexron	Tivela Oil WB	Tivela Oil WB	Omala Oil 460	Omala Oil 220	Tivela Compound A	Tivela Oil WB
Mobil	A.T.F. 220	Glygoyle 30		Mobil gear 634	Mobil gear 630	Glygoyle Grease 00	Glygoyle 30 SHC 630
Esso	A.T.F. Dexron	S220	S220	Spartan EP 460	Spartan EP 220	Grease S420	
BP	Autran DX	Energol SGXP 320		Energol GRXP 460	Energol GRXP 220		Energol GRXP 220

Oil Capacities

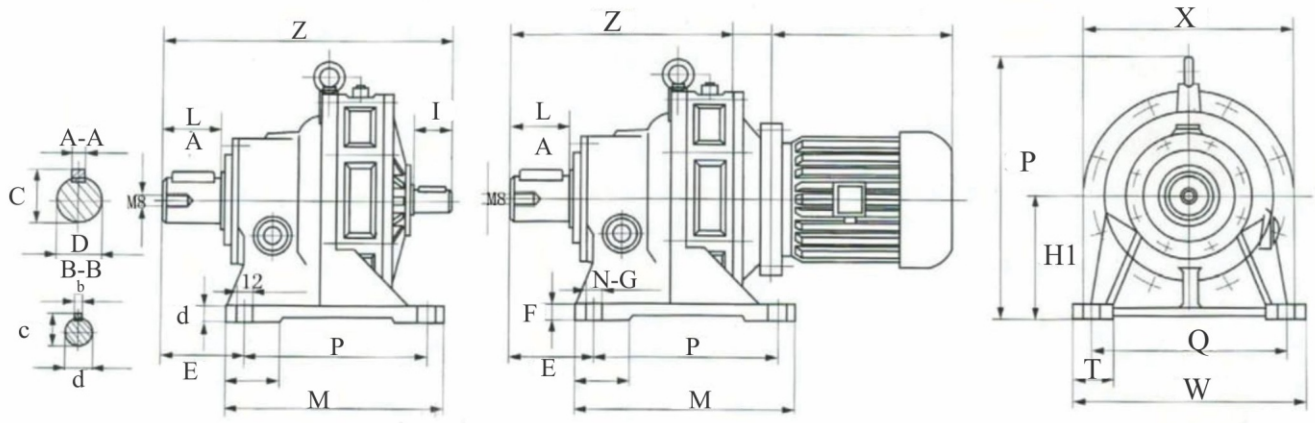
	ML								
Size	25	30	40	50	63	75	90	110	130
(1)	0.02	0.04	0.08	0.15	0.3	0.55	1	3	4.5

	MVF						
Size	30	45	50	63	63A	85	110
(Kg)	0.065	0.09	0.16	0.38	0.38		
(1)						1.2	2.8/1.8



CYCLOIDAL GEARBOX

BW, BWY, BWD, XW, XWD



BW, BWD (09-19)

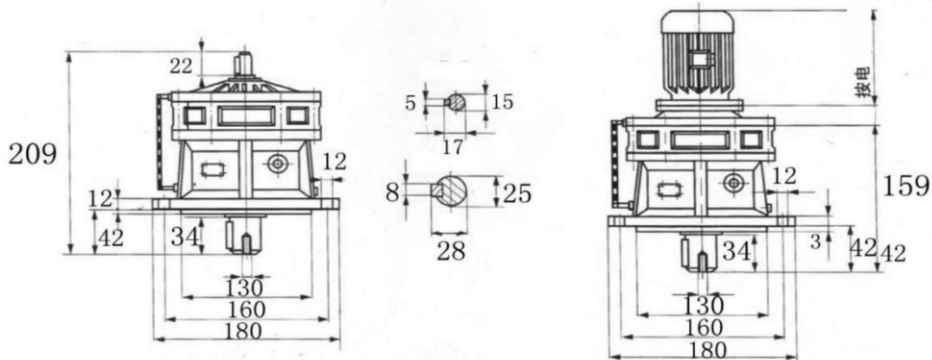
XW, XWD (2-12)

Reducer Model	Z1	M	W	H	X	H1	E	F	P	Q	S	T	N-G	B	C	D	L	b	c	d	I	Z	BW
B09	142	100	144	160	140	80	47	12	76	120	M6	35	4-11	6	24.5	22	30	5	17	15	25	192	9
B10	165	120	185	190	168	100	93	15	90	150	M8	35	4-11	8	33	30	35	5	17	15	25	214	15
X2X	165	120	210	190	168	100	101	15	90	180	M8	45	4-12	8	28	25	35	5	17	15	25	210	15
B11	192	160	280	250	200	120	125	15	110	240	M8	55	4-13	10	38	35	55	6	20.5	18	35	263	22
X3	192	150	290	270	200	140	151	20	100	250	M8	55	4-16	10	38	35	55	6	20.5	18	35	263	30
B12	246	200	320	296	240	140	144	20	150	280	M8	60	4-13	14	48.5	45	71	6	24.5	22	40	330	40
X4	246	195	330	306	240	150	169	22	145	290	M8	65	4-16	14	48.5	45	72	6	24.5	22	40	320	43
B13	294	250	390	356	300	160	159	25	200	340	M12	75	4-17	16	59	55	80	8	33	30	55	390	73
X5	305	260	420	356	300	160	206	25	150	370	M12	75	4-16	16	59	55	89	8	33	30	55	400	85
B14	369	380	400	425	340	200	156	25	320	340	M12	80	4-22	20	74.5	70	102	10	38	35	62	478	120
X6	359	335	430	425	340	200	125	30	275	380	M12	75	4-22	18	69	65	91	10	38	35	62	468	125
X7	378	380	470	445	340	220	145	30	320	420	M12	75	4-22	22	85	80	109	12	45	40	65	487	165
B15	435	440	470	513	400	240	155	32	380	420	M16	80	4-22	25	95	90	119	14	48.5	45	81	565	185
X8	435	440	530	524	400	250	155	35	380	480	M16	90	4-22	25	95	90	119	14	48.5	45	81	565	240
B16	528	520	560	605	500	280	200	35	440	500	M20	90	4-26	28	106	100	139	14	53.5	50	80	668	380
X9	548	560	620	614	500	290	186	40	480	560	M20	120	4-26	28	106	100	141	14	53.5	50	80	723	390
B17	588	600	690	706	575	325	230	40	500	630	M20	105	6-26	28	116	110	150	16	59	55	90	791	580
X10	588	600	690	706	575	325	230	40	500	630	M20	105	6-26	28	116	110	150	16	59	55	90	791	580
B18	809	810	880	880	740	420	324	50	660	800	M30	160	6-32	32	137	130	202	20	74.5	70	120	880	1200
X11	814	310	880	880	740	420	324	50	660	800	M30	150	6-32	32	137	130	202	20	74.5	70	120	880	1200
B19	1152	1040	1160	1160	1000	540	485	60	840	1050	M42	200	6-45	45	190	180	330	25	95	90	150	1160	2500
X12	1152	1040	1160	1160	1000	540	485	60	840	1050	M42	200	6-45	45	190	180	330	25	95	90	150	1160	2500

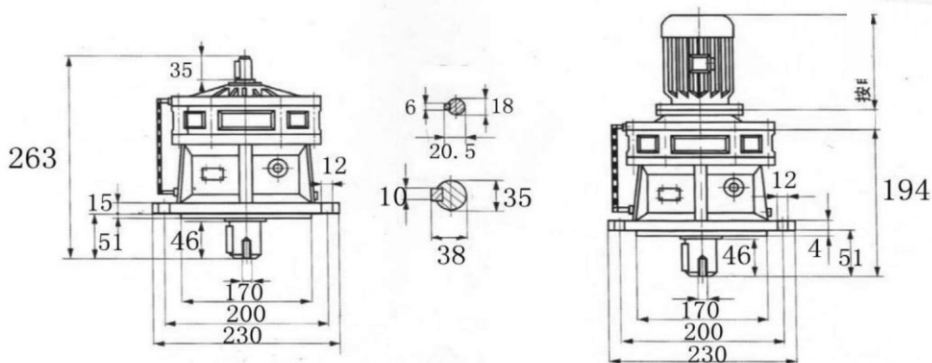


CYCLOIDAL GEARBOX DRAWING

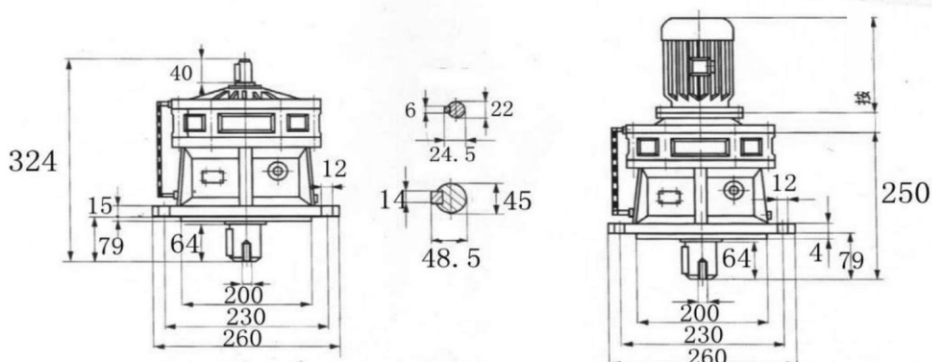
X2



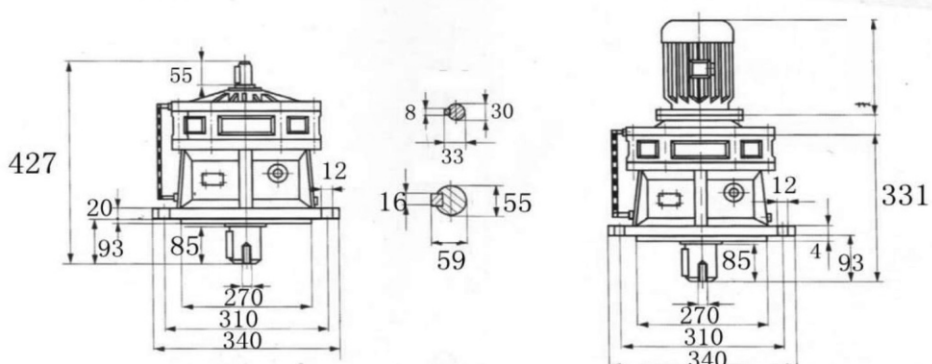
X3



X4

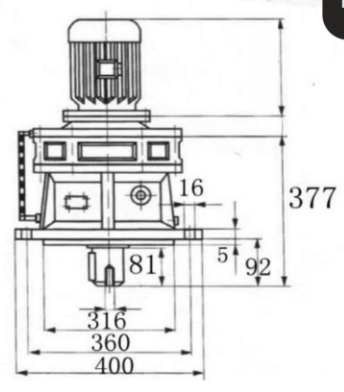
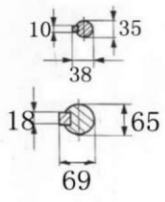
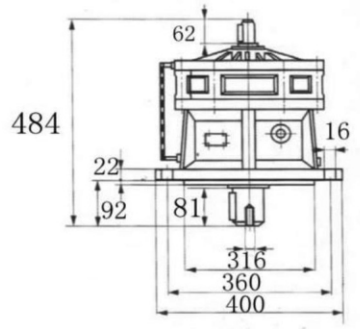


X5

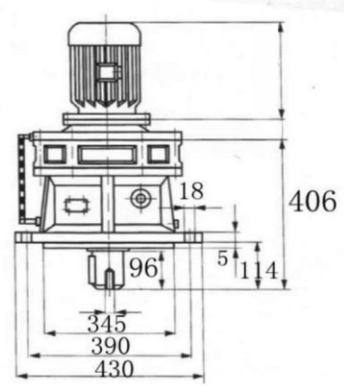
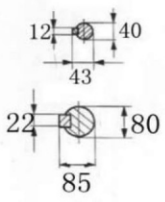
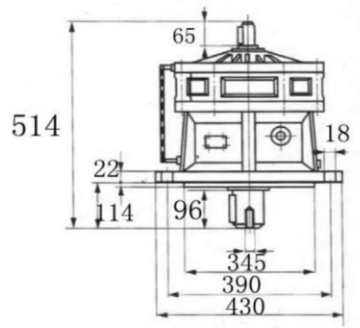




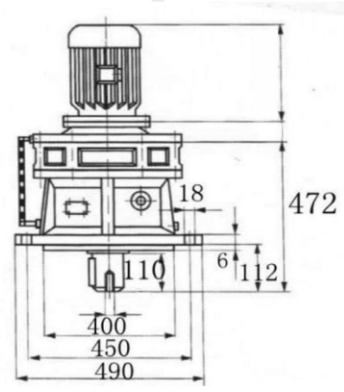
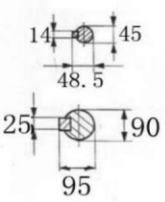
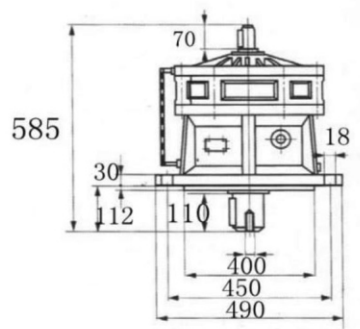
X6



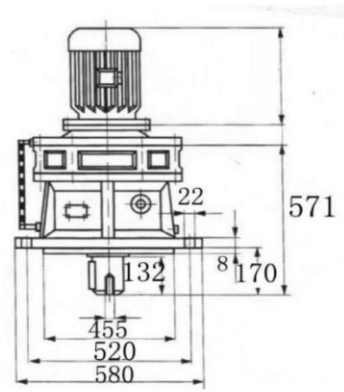
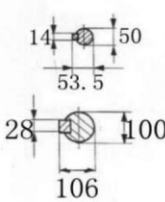
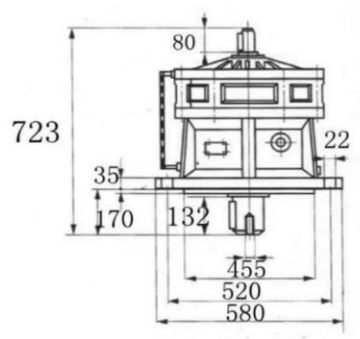
X7



X8



X9





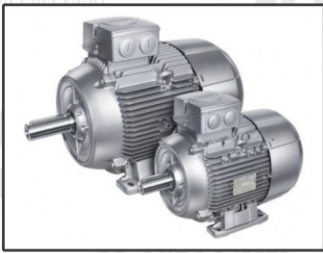
CYCLOIDAL NEEDLE WHEEL REDUCER

First speed reduction shaft and output shaft radial force

Machine No.	Transmission Ratio	9	11	17	23	29	35	43	59	71	87
x2	N.M.	96	118	147	147	147	147	147	147		
	K.G.	150	166	190	204	239	239	250	250		
x3	N.M.	196	196	245	245	245	245	245	245	245	
	K.G.	202	223	255	275	321	321	563	405	436	
x4	N.M.	392	490	490	490	490	490	490	490	490	490
	K.G.	314	346	396	426	498	498	563	625	680	680
x5	N.M.	785	785	981	981	981	981	981	981	981	981
	K.G.	449	494	566	610	713	713	805	899	899	969
x6	N.M.	1569	1569	1961	1961	1961	1961	1961	1961	1961	1961
	K.G.	608	668	765	824	963	963	1087	1214	1308	1308
x7	N.M.		2157	2648	2648	2648	2648	2648	2648	2648	2648
	K.G.		898	1028	1294	1294	1294	1395	1632	1759	1759
x8	N.M.		3530	4217	4413	4413	4413	4413	4413	4413	4413
	K.G.		1285	1746	2090	2090	2200	2200	2340	2520	2760
x9	N.M.		5786	6962	7845	7845	8825	8825	8825	7845	7845
	K.G.		2720	2910	3730	3730	3910	4130	4130	4410	4410
x10	N.M.			9218	10296	10296	11767	11767	11767	11767	11767
	K.G.			3960	3960	4680	4910	5180	5540	5540	5540
x11	N.M.			13728	16670	16670	19612	19612	19612	19612	19612
	K.G.			5040	5370	5930	6210	6560	7010	7640	7640
x12	N.M.			20593				29418	29418		
	K.G.			10100				12500	13200		

Note : The radial force used for the output shaft in the table is the value of the radial load acting on the middle position of the shaft extension

Our more products



IEC Frame Aluminum Body - Foot



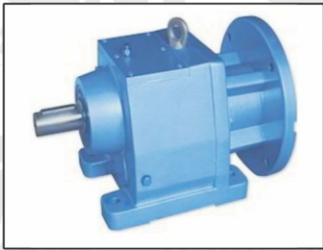
Speed Variator



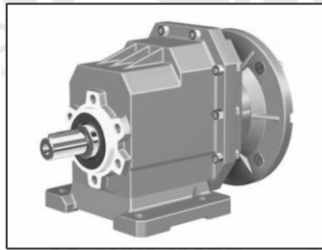
Foot Cum Flange Motor



Worm Gear Box WPA Series



Cast Iron Housing - Foot



Aluminum Housing - Foot



Cast Iron/Alu. Housing - Flange



Parallel Shaft Helical Gear Box



Planetary Gear Box



Cycloidal Gear Box



Heli Worm Gear Box



Parallel Shaft Gear Box



Helical Gear Motor



Helical Flange Gear Motor



PC Adapter



AC Gear Motor



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