

MOTORIO TRANSMISSIONS



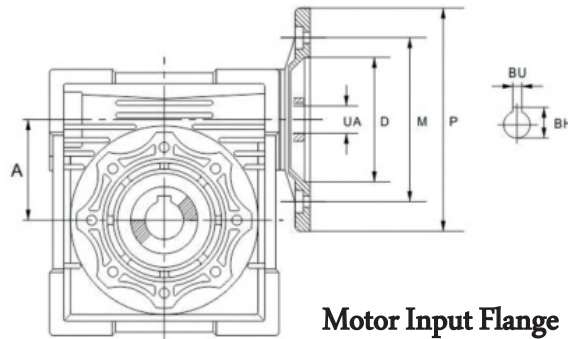
Key Technical Features.

Motorio worm gear unit is a new generation product developed with advance technology. Its main features are as follows.

1) Main Material.

- a) Aluminum Gear box Housing -: It is shot Blasting Die Cast Aluminum Housing ADC12. Gear box size 30-90 Aluminum Body / Size 110-150 Cast Iron alloy. It is phosphorized before Grey finishing. Good Looking in appearance and Durable in service life.
Good in heat exchange and radiation.which helps in longer life
- b) Worm shaft made of 20CrMnTi – Carbonize and quench . Heat Treatment make the tooth surface hardness of HRC-56-62., As per European Standard.
- c) Worm Gear – Good quality casting made centrifugally of (Ph) tin Bronze as per European standard.
- d) Used Double Taper roller Bearing on output shaft wheel from size 75 – 150. It improves the mechanical resistance to the axial thrust generated by worm wheel.
- e) Gear box size 30 – 150 Supplied with long life synthetic oil of grade VG 320 so they do not require any maintenance during their life time.
- f) We use German make Oil seal to avoid oil leak at high temperature operations.

IEC Motor Adapters and Ratio

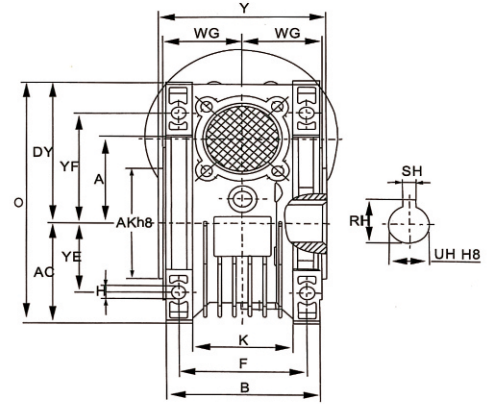
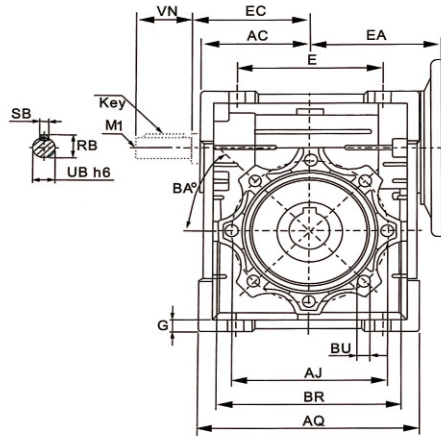
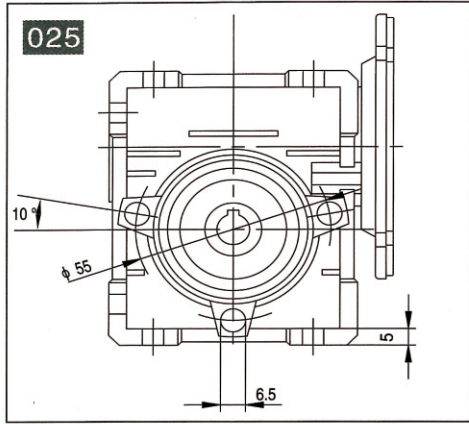


Motor Input Flange

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	-	-		
30	63B5	95	115	140	4	12.8	11	11	11	11	11	11	11	11	11	-	-		
	63B14	60	75	90															
	56B5	80	100	120	3	10.4	9	9	9	9	9	9	9	9	9	9	9	-	
40	56B14	50	65	80	5	16.3	14	14	14	14	14	14	14	-	-	-	-		
	71B5	110	130	160															
	71B14	70	85	105	4	12.8	-	-	-	11	11	11	11	11	11	11	11	-	
	63B5	95	115	140															
	63B14	60	75	90															
56B5	80	100	120	3	10.4	-	-	-	-	-	-	-	9	9	9	9	9		
50	80B5	130	165	200	6	21.8	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															
63B5	95	115	140	4	12.8	-	-	-	-	-	-	11	11	11	11	11	11		
63	90B5	130	165	200	8	27.3	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	-	-	
	80B14	80	100	120															
	71B5	110	130	160															
	71B14	70	85	105															
71B14	70	85	105	5	16.3	-	-	-	-	-	-	14	14	14	14	14			
75	100/112B5	180	215	250	8	31.3	28	28	28	-	-	-	-	-	-	-	-		
	100/112B14	110	130	160															
	90B5	130	165	200	8	27.3	-	24	24	24	24	24	24	-	-	-	-		
	90B14	95	115	140															
	80B5	130	165	200															
	80B14	80	100	120															
80B14	80	100	120	6	21.8	-	-	-	-	19	19	19	19	19	19	19			
90	100/112B5	180	215	250	8	31.3	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	-	-	
	90B14	95	115	140															
	80B5	130	165	200															
	80B14	80	100	120															
80B14	80	100	120	6	21.8	-	-	-	-	-	-	19	19	19	19				
110	132B5	230	265	300	10	41.1	38	38	38	38	-	-	-	-	-	-	-		
	100/112B5	180	215	250	8	31.3	-	28	28	28	28	28	28	28	28	28	28	-	
	90B5	130	165	200	8	27.3	-	-	-	-	-	-	24	24	24	24	24		
130	132B5	230	265	300	10	41.1	38	38	38	38	38	38	38	-	-	-	-		
	100/112B5	180	215	250	8	31.3	-	-	-	-	28	28	28	28	28	28	28		
150	160B5	250	300	350	12	45.3	42	42	42	42	42	-	-	-	-	-	-		
	132B5	230	265	300	10	41.3	-	-	-	38	38	38	38	38	38	38	-		
	100/112B5	180	215	250	8	31.3	-	-	-	-	-	-	-	28	28	28	28		

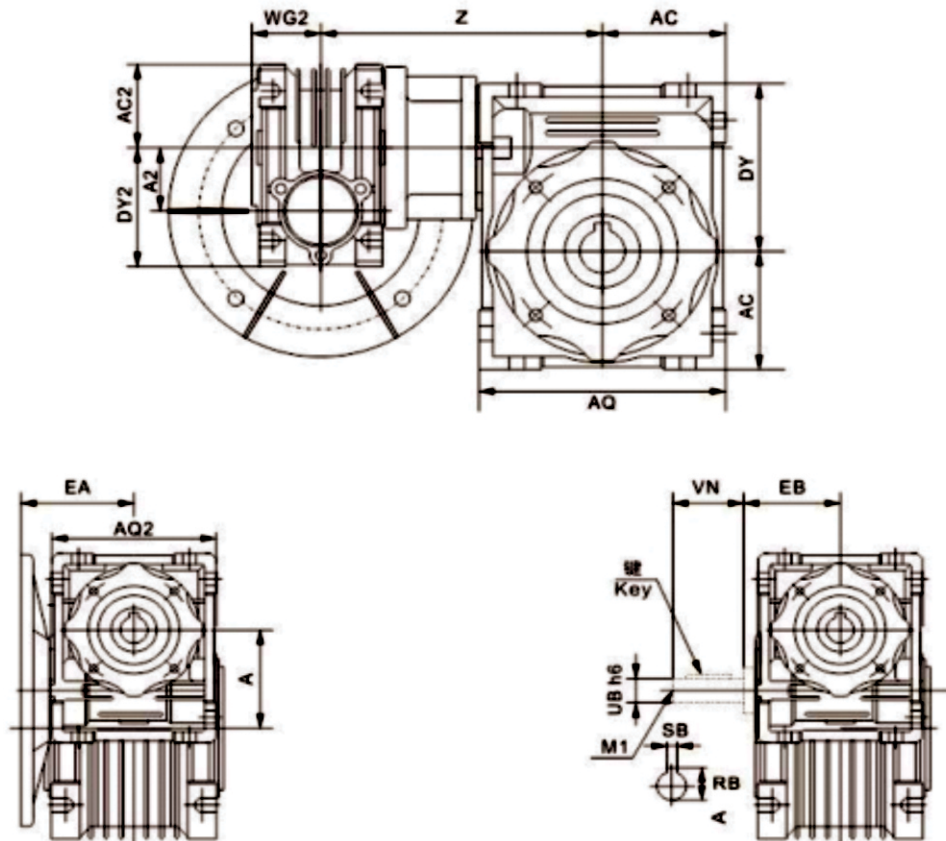


Mounting Dimensions Single Step Worm Gear Reducer



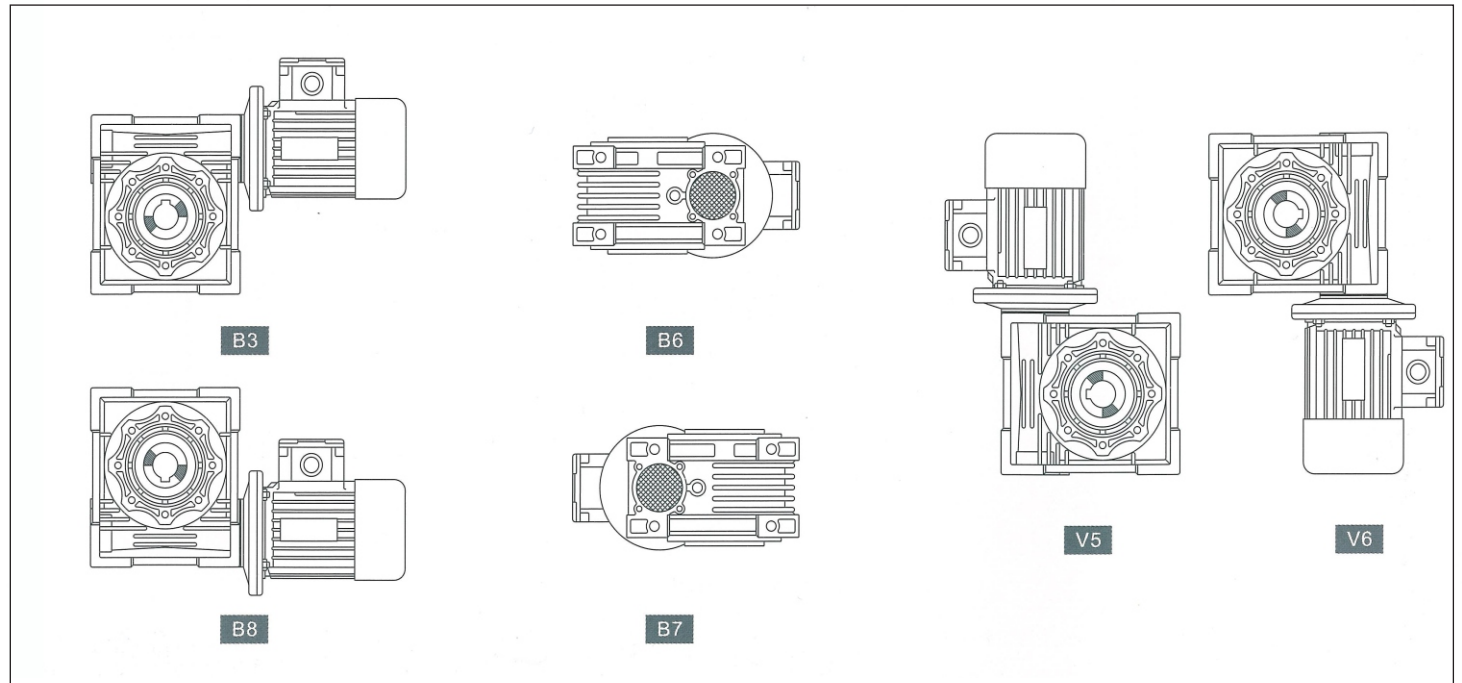
MRV	025	030	040	050	063	075	090	110	130	150	
A	25	30	40	50	63	75	90	110	130	150	
AC	35	40	50	60	72	86	103	127.5	147.5	170	
AJ	55	65	75	85	95	115	130	165	215	215	
AK	45	55	60	70	80	95	110	130	180	180	
AQ	70	80	100	120	144	172	206	252.5	292.5	340	
B	42	56	71	85	103	112	130	144	155	180	
BA	10°	0°	45°	45°	45°	45°	45°	45°	45°	45°	
BR	65	75	87	100	110	140	160	200	250	250	
BU		M6x11(n.4)	M6x10(n.4)	M8x10(n.4)	M8x14(n.8)	M8x14(n.8)	M10x18(n.8)	M10x18(n.8)	M12x21(n.8)	M12x21(n.8)	
DY	48	57	71.5	84	102	119	135	167.5	187.5	230	
E	45	54	70	80	100	120	140	170	200	240	
EA	45	55	70	80	95	112.5	129.5	160	180	210	
EC	37	45	53	63	75	90	108	135	155	175	
F	34	44	60	70	85	90	100	115	120	145	
G	5	5.5	6.5	7	8	10	11	15	15	18	
H	6	6.5	7	8.5	8.5	11	13	14	16	18	
K	22	32	43	49	67	72	74	-	-	-	
M1	-	-	-	M6	M6	M8	M8	M10	M10	M12	
O	83	97	121.5	144	174	205	238	295	335	400	
RB	10.2	10.2	12.5	16	21.5	27	27	31	33	38	
RH	12.8	16.3	20.8(21.8)	28.3(27.3)	28.3(31.3)	31.3(38.3)	38.3(41.3)	45.3	48.8	53.8	
SB	3	3	4	5	6	8	8	8	8	10	
SH	4	5	6	8	8	8(10)	10	12	14	14	
UB	9	9	11	14	19	24	24	28	30	35	
UH	11	14	18(19)	25(24)	25(28)	28(35)	35(38)	42	45	50	
VN	20	20	23	30	40	50	50	60	80	80	
WG	22.5	29	36.5	43.5	53	57	67	74	81	96	
Y	50	63	78	92	112	120	104	155	170	200	
YE	22	27	35	40	50	60	70	85	100	120	
YF	35.5	44	55	64	80	93	102	125	140	180	
(kg)	0.7	1.3	2.3	3.5	6.2	9	13	35	48	84	
KEY	(WxH)	3x3	3x3	4x4	5x5	6x6	8x7	8x7	8x7	8x7	10x8
	(L)	12	12	16	22	32	40	40	45	60	70

Double Step Worn Gear Reducer Mounting Dimensions

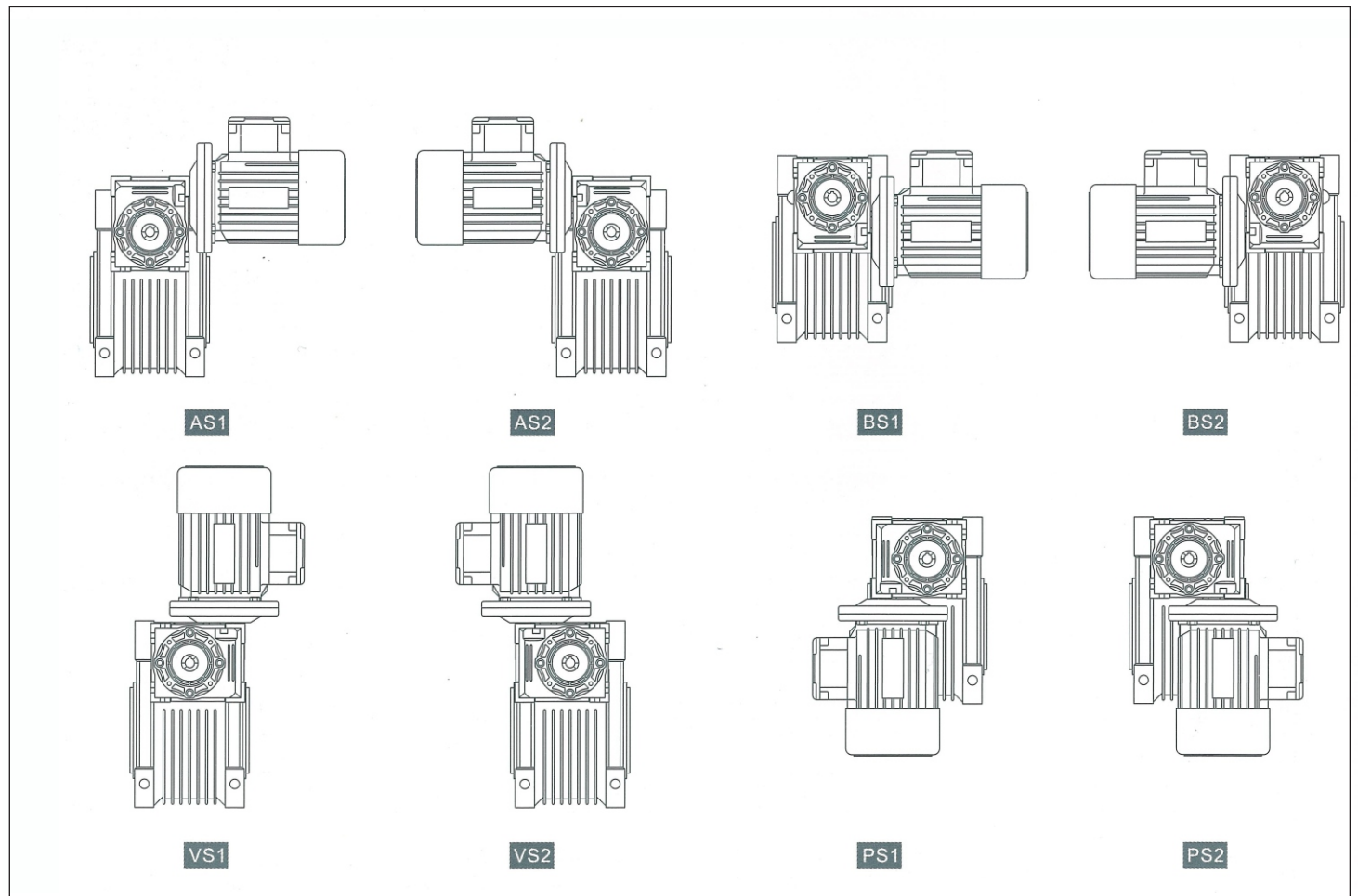


	25/30	25/40	30/40	30/50	30/63	40/75	40/90	50/110	63/130	63/150
A	30	40	40	50	63	75	90	110	130	150
A2	25	25	30	30	30	40	40	50	63	63
AC	40	50	50	60	72	86	103	127.5	147.5	170
AC2	35	35	40	40	40	50	50	60	72	72
AQ	80	100	100	120	144	172	206	252.5	292.5	340
AQ2	70	70	80	80	80	100	100	120	144	144
DY	57	71	71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

Single Step Mounting Positions



Double Step Mounting Positions





Single Step Worm Gear Reducer

Single Step Reducer (Flanger input ,input Speed is 1400 r/min) / with 4 poles motor)

Model	Output Speed r / min	Output torque N.M	Ratio i	Output Radial Force KN	Fs	Model	Output Speed r / min	Output torque N.M	Ratio i	Output Radial Force KN	Fs	
0.06kw						0.12kw						
025	186.7	2.6	7.5	0.5	4.2	030	140	6.7	10	0.75	2.7	
	140	3.4	10	0.55	3.5		93.3	9.5	15	0.86	1.9	
	93.3	4.9	15	0.63	2.5		70	12	20	0.94	1.5	
	70	6.1	20	0.69	2.0		56	14	25	1.02	1.5	
	46.7	8.2	30	0.79	1.6		46.7	16	30	1.08	1.3	
	35	10	40	0.87	1.3		35	19	40	1.19	0.9	
	28	12	50	0.94	0.9		28	23	50	1.28	0.8	
	23.3	14	60	1	0.7		46.7	17.2	30	2.08	2.6	
030	186.7	2.6	7.5	0.68	6.9	040	35	21	40	2.29	1.9	
	140	3.4	10	0.75	5.4		28	25	50	2.47	1.5	
	93.3	4.7	15	0.86	3.8		23.3	28	60	2.63	1.3	
	70	6	20	0.94	3.0		17.5	34	80	2.89	1.0	
	56	7	25	1.02	3.0		14	38	100	3.11	0.8	
	46.7	8	30	1.08	2.5		050	23.3	29	60	3.61	2.3
	35	9.7	40	1.19	1.9			17.5	35	80	3.97	1.9
	28	11	50	1.28	1.5			14	40	100	4.28	1.4
23.3	13	60	1.36	1.3	0.18kw							
17.5	14	80	1.5	0.9	030	186.7	7.8	7.5	0.68	2.3		
0.09kw						040	140	10	10	0.75	1.8	
025	186.7	3.9	7.5	0.5			2.8	93.3	14	15	0.86	1.3
	140	5.1	10	0.55			2.4	70	18	20	0.94	1.0
	93.3	7.3	15	0.63			1.6	56	21	25	1.02	1.0
	70	9.2	20	0.69			1.3	46.7	24	30	1.08	0.8
	46.7	12	30	0.79	1.1		050	70	19	20	1.82	2.0
	35	15	40	0.87	0.9	56		23	25	1.96	1.7	
030	186.7	3.9	7.5	0.68	4.6	46.7		26	30	2.08	1.7	
	140	5	10	0.75	3.6	35		32	40	2.29	1.3	
	93.3	7.1	15	0.86	2.5	28		38	50	2.47	1.0	
	70	9	20	0.94	2.0	23.3		43	60	2.63	0.8	
	56	10	25	1.02	2.0	040	35	32	40	3.15	2.3	
	46.7	12	30	1.08	1.7		28	39	50	3.39	1.9	
	35	14	40	1.19	1.2		23.3	43	60	3.61	1.6	
	28	17	50	1.28	1.0		17.5	52	80	3.97	1.2	
23.3	19	60	1.36	0.9	14		60	100	4.28	0.9		
040	28	19	50	2.47	2.0		0.25kw					
	23.3	21	60	2.63	1.7	040	186.7	11	7.5	1.31	3.6	
	17.5	26	80	2.89	1.3		140	14	10	1.44	2.8	
	14	29	100	3.11	1.0		93.3	21	15	1.65	1.9	
0.12kw							70	27	20	1.82	1.5	
030	186.7	5.2	7.5	0.68	3.4							

Model	Output Speed r / min	Output torque N.M	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	
063	17.5	72	80	3.97	0.9	
	28	56	50	4.44	2.4	
	23.3	63	60	4.71	2.0	
	17.5	78	80	5.19	1.6	
040	14	87	100	5.59	1.4	
	0.37kw					
	186.7	16	7.5	1.31	2.4	
	140	21	10	1.44	1.9	
040	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	
050	0.55kw					
	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	Output Speed r / min	Output torque N.M	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
090	14	206	100	6.6	0.9
	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
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	Output Speed r/min	Output torque N.M	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	
090	23.3	223	60	4.89	0.8	
	35	225	40	5.38	1.6	
	28	270	50	5.79	1.3	
	23.3	311	60	6.16	1.0	
110	17.5	328	80	6.17	0.9	
	28	281	50	7.32	2.3	
	23.3	324	60	7.78	1.9	
	17.5	402	80	8.57	1.3	
063	14	473	100	9.23	1.0	
	1.5kw					
	186.7	67	7.5	2.35	1.9	
	140	89	10	2.59	1.5	
075	93.3	127	15	2.97	1.3	
	70	166	20	3.27	1.0	
	140	90	10	3.06	2.2	
	93.3	130	15	3.5	1.5	
090	70	168	20	3.86	1.3	
	56	205	25	4.16	1.0	
	46.7	233	30	4.42	1.0	
	70	171	20	4.27	2.1	
110	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	
	35	319	40	6.8	2.2	
075	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					
090	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	
110	46.7	269	30	3.89	0.8	
	186.7	101	7.5	3.08	2.9	

Model	Output Speed r/min	Output torque N.M	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	
110	28	393	50	5.28	0.9	
	70	255	20	5.39	2.5	
	56	315	25	5.81	2.2	
	46.7	356	30	6.18	2.0	
130	35	468	40	6.8	1.5	
	28	563	50	7.32	1.2	
	23.3	648	60	7.78	1.0	
	35	468	40	8.89	2.2	
150	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	
075	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	
090	3kw					
	186.7	136	7.5	2.78	1.4	
	140	180	10	3.06	1.1	
110	93.3	261	15	3.5	0.8	
	186.7	138	7.5	3.08	2.1	
	140	182	10	3.39	1.7	
090	93.3	264	15	3.88	1.4	
	70	344	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	
130	35	638	40	6.8	1.1	
	28	767	50	7.32	0.9	
	56	429	25	7.6	2.2	
	46.7	491	30	8.08	2.1	
090	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	Output Speed r / min	Output torque N.M	Ratio i	Output Radial Force KN	Fs
150	3kw				
	28	777	50	13.1	1.8
	23.3	896	60	13.92	1.4
	17.5	1113	80	15.32	1.0
075	14	1310	100	16.5	0.8
	4kw				
	186.7	182	7.5	2.44	1.0
090	140	240	10	3.06	0.8
	186.7	184	7.5	3.08	1.6
	140	243	10	3.39	1.3
	93.3	352	15	3.88	1.0
110	70	458	20	4.27	0.8
	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
130	46.7	647	30	6.18	1.1
	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
150	23.3	1179	60	10.18	0.8
	28	1036	50	13.1	1.4
	23.3	1195	60	13.92	1.1
	17.5	1484	80	15.32	0.8
110	5.5kw				
	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
130	56	711	25	5.15	0.9
	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
150	28	1103	50	8.51	0.8
	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	Output Speed r / min	Output torque N.M	Ratio i	Output Radial Force KN	Fs
110	7.5kw				
	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
150	46.7	1228	30	8.08	0.8
	35	1596	40	8.89	0.7
	70	880	20	9.65	1.5
	56	1074	25	10.4	1.1
150	46.7	1274	30	11.05	0.9
	35	1596	40	12.16	1.0
	11kw				
	186.7	512	7.5	6.96	2.3
	140	675	10	7.66	1.8
150	93.3	990	15	8.77	1.3
	70	1291	20	9.65	1.0
	56	1576	25	10.4	0.8
150	15kw				
	186.7	698	7.5	6.96	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 Worm Gear Reducer

Double Step Reducer (Flanger input ,input Speed is 1400 r/min) / with 4 poles motor)

Model	Output Speed r/min	Output torque N.M	Ratio i	High Speed Ratio i	Low Speed 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	
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	
40/90	0.28	419	5000	50	100	7.38	0.5	
	0.5	405	3000	60	50	8.18	1.4	
	0.35	365	4000	50	80	8.18	1.3	
25/30	0.28	431	5000	50	100	8.18	1.0	
	0.09kw							
	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	
30/40	1.2	212	1200	30	40	1.83	0.1	
	0.9	247	1500	50	30	1.83	0.1	
	0.78	304	1800	60	30	1.83	0.1	
	0.58	340	2400	60	40	1.83	0.1	
	0.47	405	3000	60	50	1.83	0.1	
	4.7	88	300	10	30	3.49	0.8	
	30/50	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
	30/63	1.6	212	900	30	30	4.84	0.7
		1.6	200	900	15	60	6.27	1.0
1.2		263	1200	30	40	6.27	0.9	
40/75	0.93	305	1500	30	50	6.27	0.7	
	0.9	359	1500	50	30	7.38	1.1	
	0.78	404	1800	60	30	7.38	1	
40/90	0.58	496	2400	60	40	7.38	0.7	
	0.5	608	3000	60	50	8.18	0.9	
40/90	0.35	548	4000	50	80	8.18	0.8	

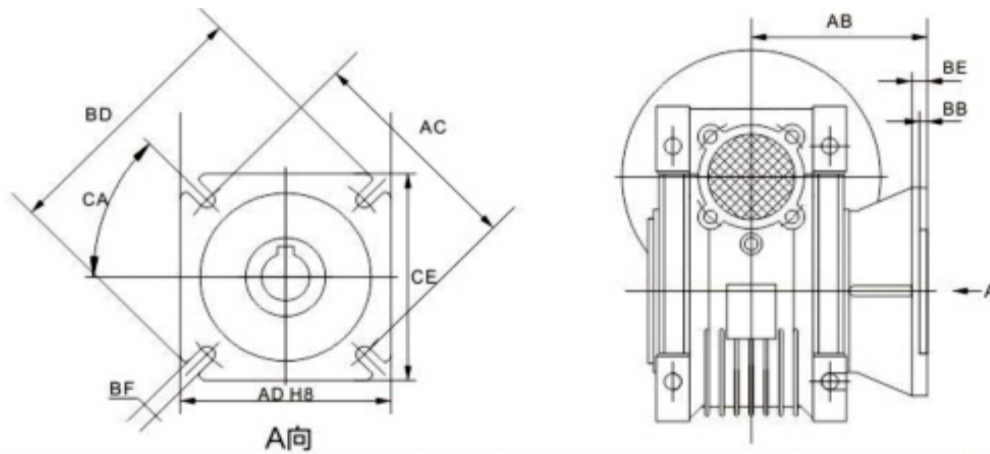


Model	Output Speed r/min	Output torque N.M	Ratio 1	High Speed Ratio 1	Low Speed Ratio 1	Output Radial Force KN	F ₀
0.12kw							
30/50	4.7	118	300	10	30	4.84	1.2
	3.5	142	400	10	40	4.84	0.9
	2.8	164	500	10	50	4.84	0.7
30/63	2.8	171	500	10	50	6.27	1.3
	2.3	208	600	15	40	6.27	1.1
	1.9	241	750	15	50	6.27	0.9
	1.6	324	900	30	30	7.38	1.2
40/75	1.2	399	1200	30	40	7.38	0.9
	0.78	546	1800	30	60	8.18	0.9
40/90	0.58	695	2400	60	40	8.18	0.9
	0.5	883	3000	60	50	10.32	1.2
50/110	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
	2.3	362	600	20	30	7.38	1.1
40/75	1.9	435	750	25	30	7.38	0.9
	1.6	487	900	30	30	7.38	0.8
	1.2	639	1200	30	40	8.18	1.0
40/90	0.93	735	1500	30	50	8.18	0.8
	0.78	860	1800	60	30	10.32	1.5
50/110	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
	3.5	336	400	10	40	7.38	1.1
40/75	2.8	384	500	10	50	7.38	0.8
	2.3	511	600	15	40	8.18	1.2
40/90	1.9	598	750	15	50	8.18	0.9
	1.6	667	900	15	60	8.18	0.8
	1.2	943	1200	30	40	10.32	1.3
50/110	0.93	1064	1500	50	30	10.32	1.2
	0.78	1195	1800	60	30	10.32	1.1
	0.6	1624	2400	60	40	13.5	1.0
63/130	0.47	1935	3000	60	50	13.5	0.8

Model	Output Speed r/min	Output torque N.M	Ratio 1	High Speed Ratio 1	Low Speed Ratio 1	Output Radial Force KN	F ₀
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
	2.8	995	500	10	50	13.5	1.6
63/130	1.9	1471	750	25	30	13.5	1.2
	1.2	2132	1200	30	40	13.5	0.8
	0.78	2637	1800	60	30	18	0.8
63/150	0.6	3182	2400	60	40	18	0.8

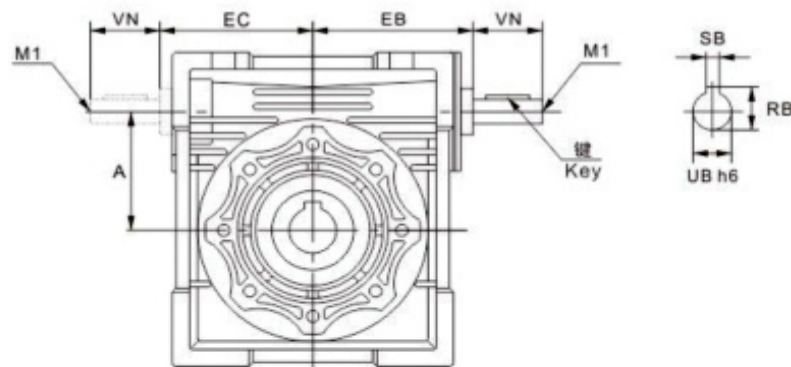
Model	Output Speed r/min	Output torque N.M	Ratio 1	High Speed Ratio 1	Low Speed Ratio 1	Output Radial Force KN	F ₀
0.75kw							
50/110	4.7	871	300	10	30	10.32	1.5
	3.5	1126	400	10	40	10.32	1.1
63/130	2.8	1357	500	10	50	13.5	1.1
	2.3	1631	600	15	40	13.5	1.0
	1.9	2005	750	25	30	13.5	0.9
	1.6	2283	900	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
63/150	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
	9.3	752	150	10	15	18	3.1
63/150	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

Output Flange Mounting Dimensions



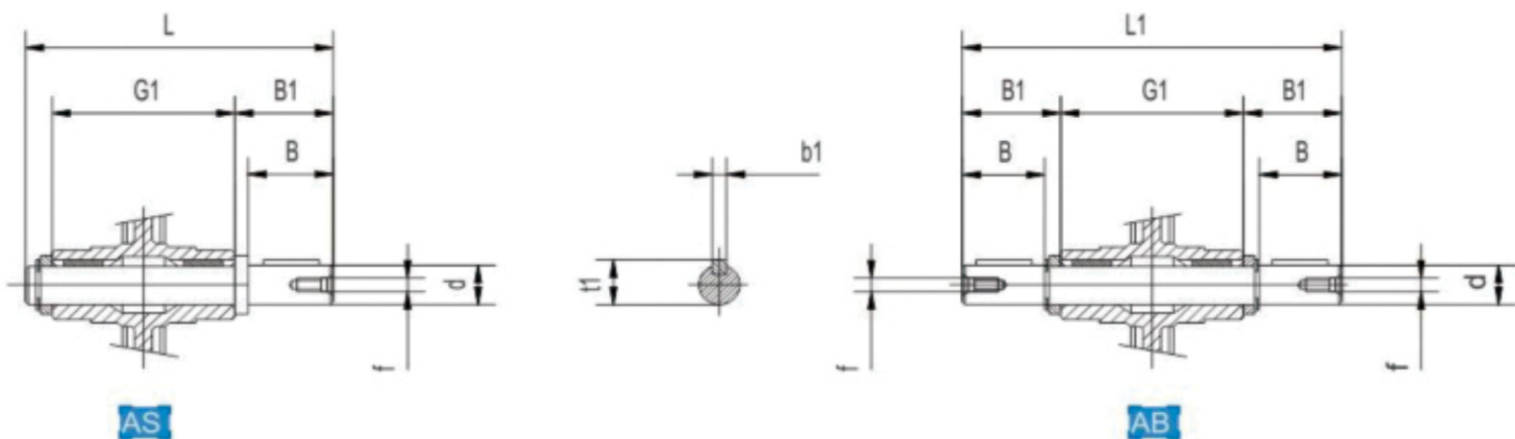
	25	30	40	50	63	75	90	110	130	150
AB	45	54.5	67	90	82	102	111	131	140	155
AC	55	68	80	85	150	165	175	230	255	255
AD	40	50	60	70	115	130	152	170	180	180
BB	3	4	4	5	6	6	6	6	6	7
BD	75	80	110	125	180	200	210	280	320	320
BE	6	6	7	9	10	13	13	15	15	15
BF	6.5(n.4)	6.5(n.4)	9(n.4)	11(n.4)	11(n.4)	14(n.4)	14(n.4)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

VS Mounting Dimensions



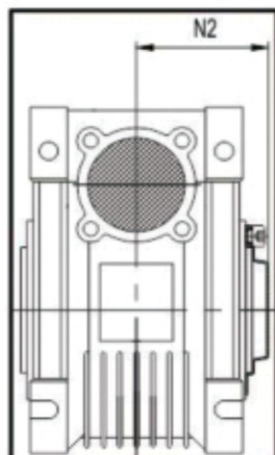
	30	40	50	63	75	90	110	130	150
A	30	40	50	63	75	90	110	130	150
EB	50	61	74	90	105	125	142	162	195
EC	45	53	64	75	90	108	135	155	175
M1	-	-	M6	M6	M8	M8	M10	M10	M12
RB	10.2	12.5	16	21.5	27	27	31	33	33
SB	3	4	5	6	8	8	8	8	10
UB	9	11	14	19	24	24	28	30	35
VN	20	23	30	40	50	50	60	80	80

Accessories (AS / AB) Single & Double Output Shaft



	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	247	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

Protection Cover



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



Operating Instructions

1 Single Step Worm Gear Reducer

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.

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.

3 Good radiating characteristic leads safe and reliability and high efficiency for using.

4 The strong capacity of loading ensure stable transmission, make less vibration and noise.

5 Varies of connecting structure for power input and torque output meet different require-merits;the design of box outline and the set of foot hole with good versality is apt to many kinds of mounting.

2 Double Step Worm Gear Reducer

1 It is combined by two single step reducers and has all the virtues of them. And you can get bigger ratio with it.

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.

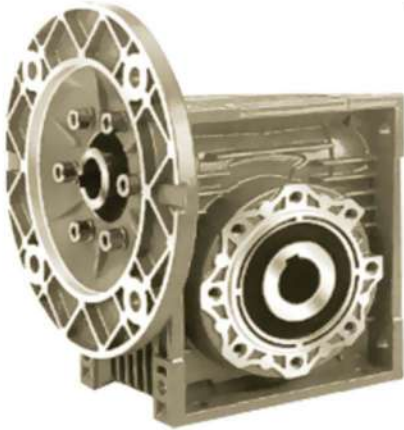
Lubricant Oil Chosen Table

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

Adding Capacity Of Lubricant Oil (l)

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

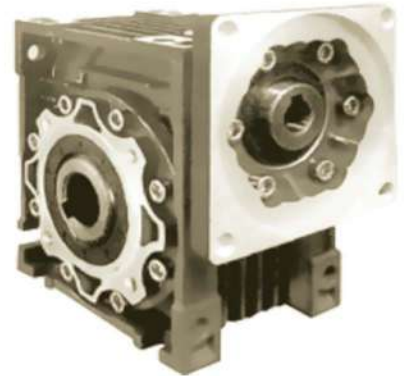
Product Picture



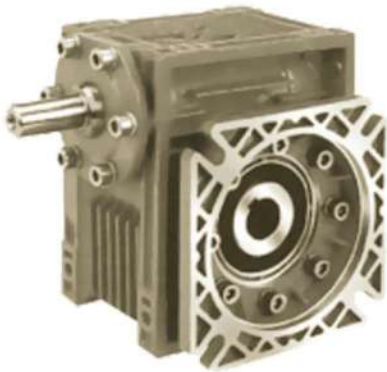
MRV



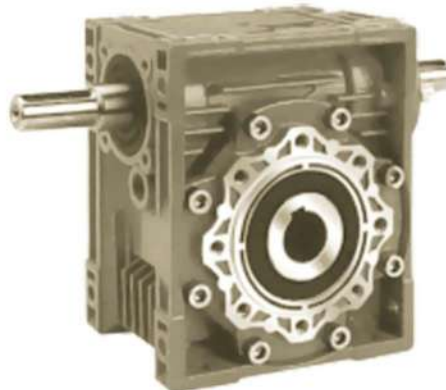
NRV



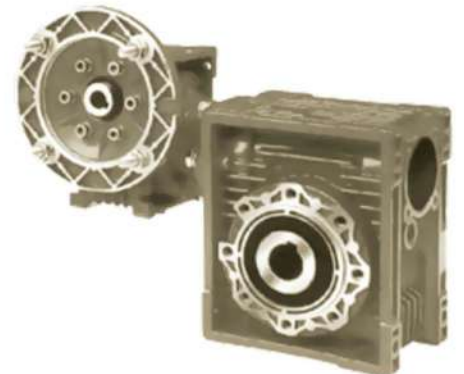
MRV
(For Servo Motor)



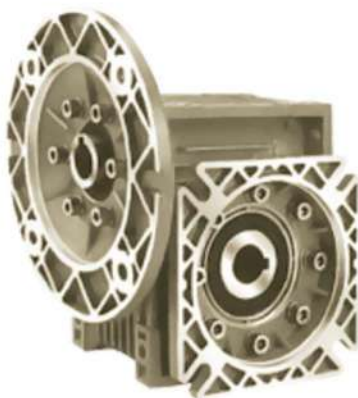
NRV..F



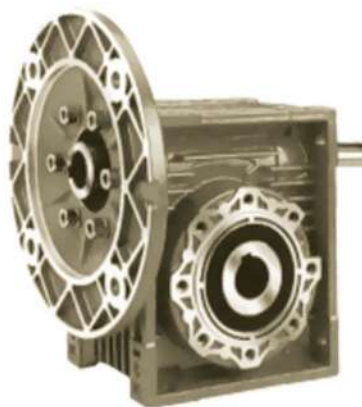
NRV.. VS



MRV + MRV



MRV..F



NMRV.. VS



Energy Eff. Motors (IE2/IE3)

MOTORIO TRANSMISSIONS

HEAD OFFICE : 417/4th Floor.Parel Mahatma Co-Op Housing Society Jerbai Wadia Road Bhoiwada,Parel Mumbai - 400012.Maharashtra-INDIA.

Mobile : +91 7738141314 Email : motoriosales@gmail.com