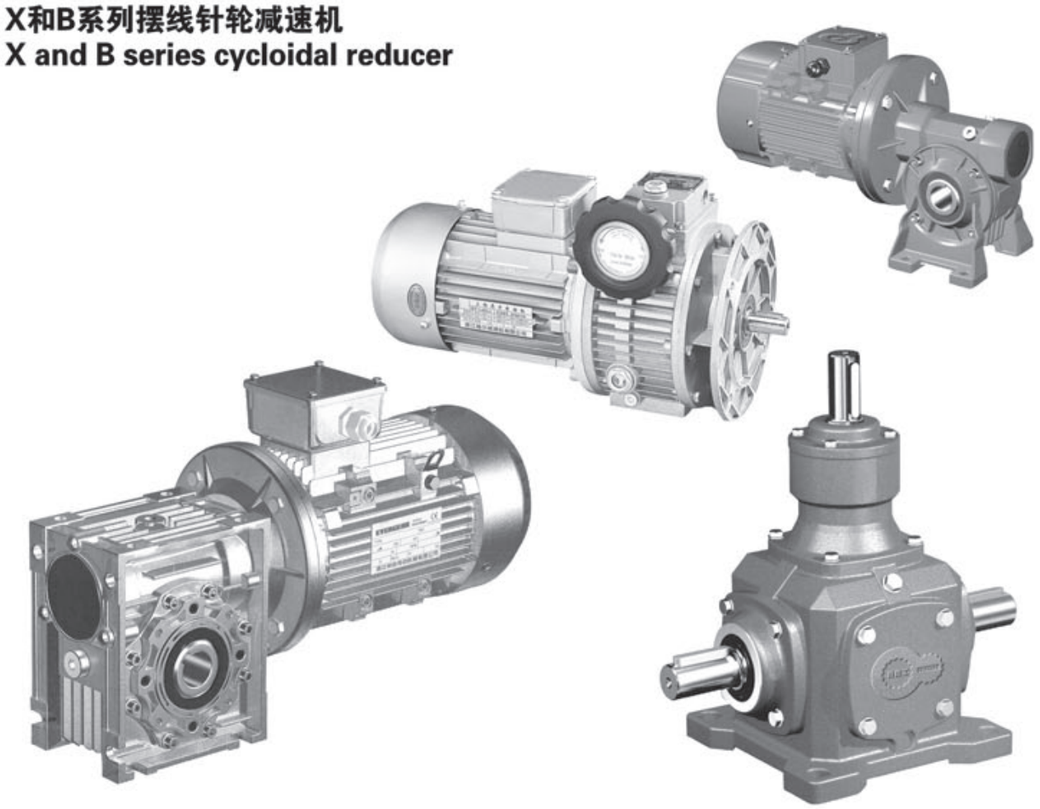
*OTHER SERIES

恒齿传动
EVERGEAR DRIVING

Z系列弧齿锥齿轮减速机
Z series bevel gear reductor
无级变速机及其与齿轮减速机组合
Variable speed machine very gear reductor combination
W系列蜗杆减速机及其与无级变速机组合
W series worm reductor very Variable speed machine combination
NMRV蜗轮减速机及其与无级变速机组合
NMRV worm wheel reductor very and Variable speed machine combination
X和B系列摆线针轮减速机
X and B series cycloidal reducer



EVERGEAR
ZHEJIANG EVERGEAR DRIVING MACHINE CO.,LTD.

一、概述 Summarize

1. Z系列弧齿锥齿轮减速机是一级弧齿锥齿轮传动箱，传动比有1、1.5、2、2.5、3。
2. 传动效率高，单机型减速机效率高达96%。
3. 有单横轴、单纵轴、双纵轴可选。
1. Z series bevel helical gear reductor is the first stage gear case with transmission ratio of 1,1.5,2,2.5 and 3.
2. High transmission efficiency. A single machine can reach a transmission efficiency as much as 96%.
3. There are single transverse shaft, single longitude shaft and double longitude shafts for select.

二、场所条件 Working Environment：

1. 环境温度–40℃~50℃。(0℃以下启动时润滑油要加热到0℃以上。)
2. 海拔不超过1000米。
3. 输入转速不大于1800rpm，齿轮最高圆周速度不超过22m/s。
4. 可用于正反运转。
5. 无行业限制。
6. 其他条件下使用请与我公司技术部联系。

1. Working temperature: –40℃~50℃ (The lubrication should be heated until above 0℃ if the machine works Below 0℃.)
2. The working place should be lower than 1,000 meters above sea level.
3. The imput rotational speed should not exceed 1,800r/m. The circumferential speed of the gear should not exceed 22m/s.
4. Suitable for normal–reverse rotation.
5. Without industry limitation.
6. Please consult our technical supporting department for other circumstances.

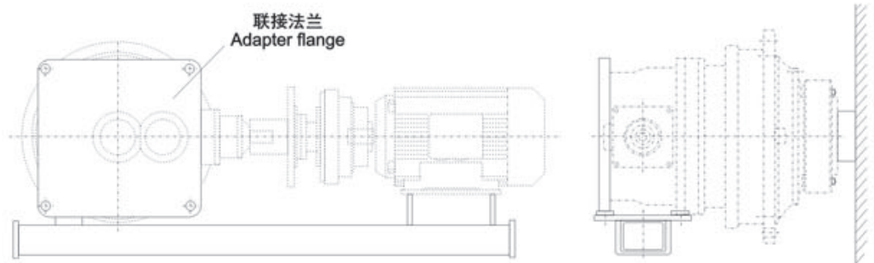
三、选型指南 Instructions for Selection：

在确定使用系数之前必须先确定一天的运行小时数，每小时的起停次数和负载类型。其中负载类型按下列公式计算：

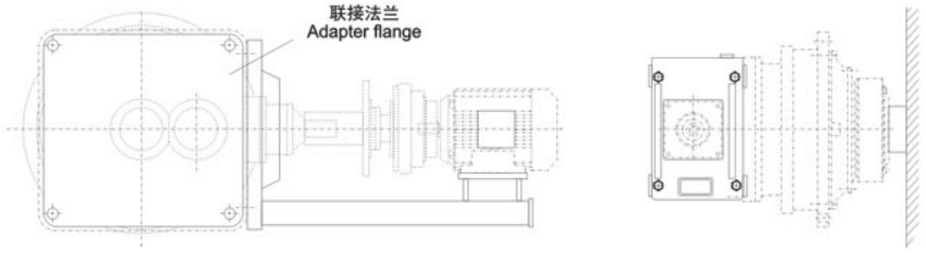
The daily operating time, the starting frequency and the load classifications must be determined before deciding the service facor. The load classifications is calculated with the following formula:

6、电机安装支架 Motor Bracket

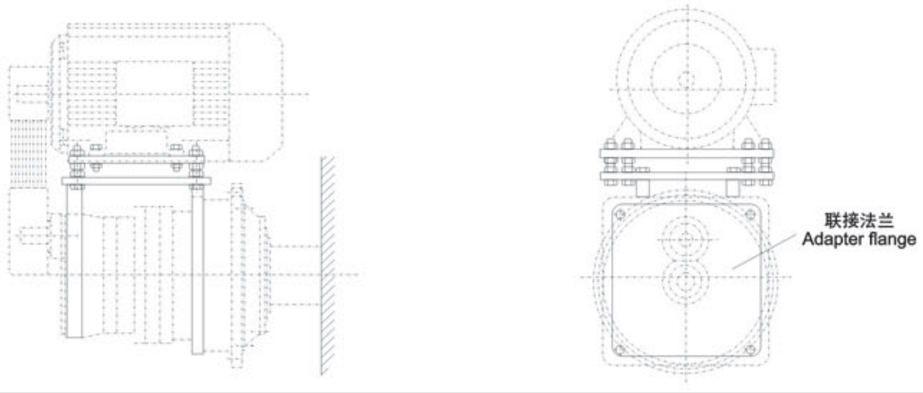
电机安装支架(附件代号-71)
Motor bracket (code of add-on piece-71)



电机安装支架（附件代号-71）
Motor bracket (code of add-on piece-71)

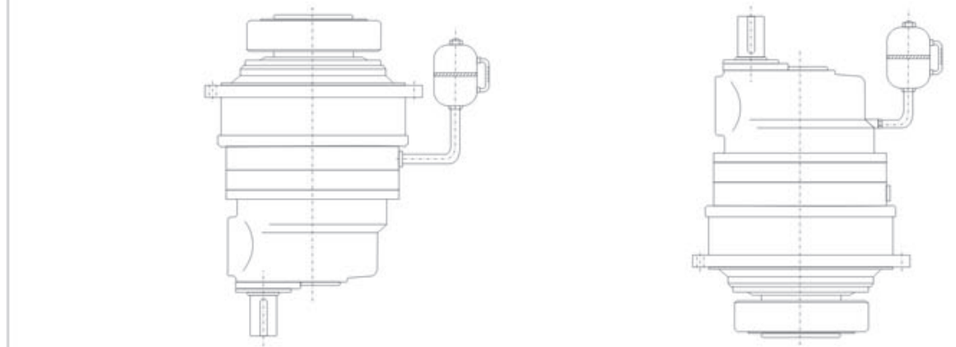


电机安装支架（附件代号-72）
Motor bracket (code of add-on piece-72)



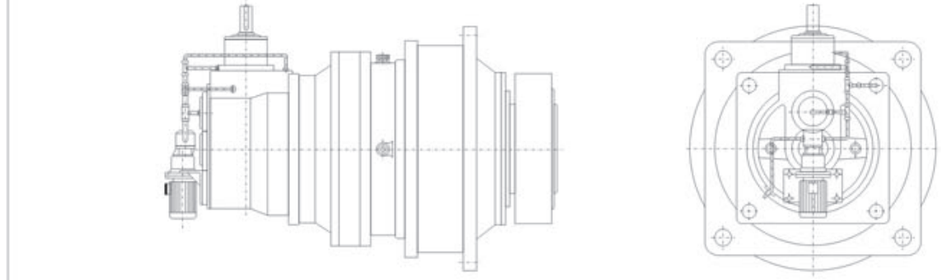
如果不用钟形电机支架，可以采用法兰联接的电机支架，如上图所示。
In cases where no motor bell housings are provided we use an adapter flange to attach motor brackets, they are shown in the above drawings.

7、立式安装补偿油箱 Oil Compensating Tank for Vertical Mounting Position



立式安装时，为保证上端的轴承得到可靠润滑必须相应的提高油位，油位通过加装的补偿油箱来加高和检查。补偿油箱上装有通气孔器，如上图所示。油箱可安装在减速器上，也可安装在客户的机器上。
In case of vertical mounting position, to ensure the lubrication of the upper bearing, the oil level is inc-reased accordingly, the oil level is increased and che-cked via an oil compensating tank fitted separately. The oil tank installs the breather valve, it′s shown in the above drawings. The oil tank can be attached either to the gear units, or to the customer′s machine frame.

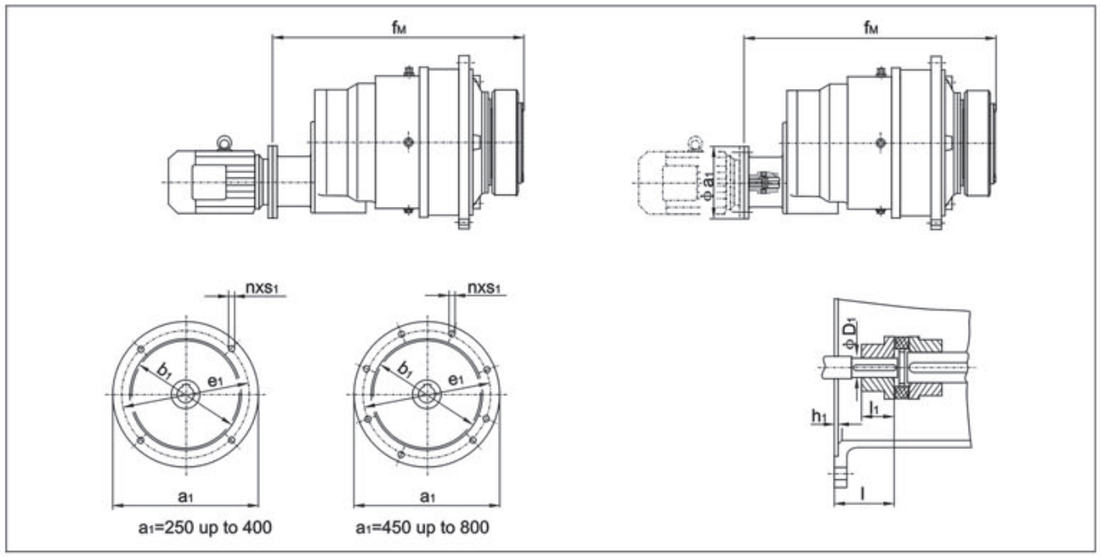
QS、QK、QL当安装布置方位为B51、B52、B53的卧式安装时需配备电动油泵强制润滑，如下图
For QS、QK、QL,in case of mounting positions B51、B52、B53 horizontal,it needs to mount the motor pumps for forced lubrication. Shown in the following drawings.



Q SERIES

十二、Q系列减速机带电机法兰输入 Planetary gear units with motor flange and coupling

1、Q2S 带电机、输入法兰及联轴器尺寸 Type Q 2S With Motor Bell Housing and Coupling

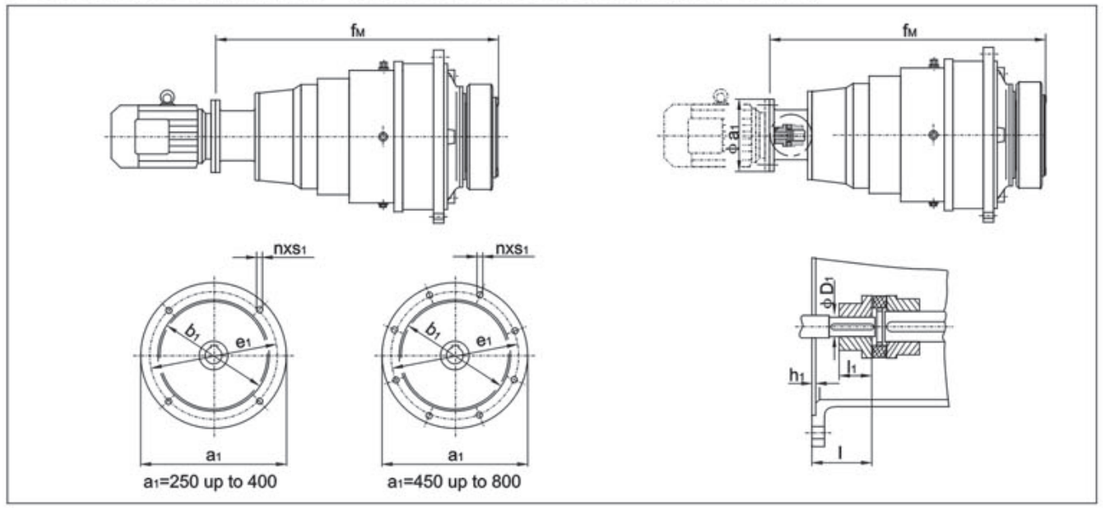


Q2S	电机 Motor (Y)*	法兰 Flange (F)**	a1	b1(h7)	D1	e1	fM	h1	l1	l	n	s1
9	160		350	250	42	300	827	6	50	85	4	M16
	180		350	250	48	300	827	6	50	85	4	M16
10	160		350	250	42	300	856	6	50	85	4	M16
	180		350	250	48	300	856	6	50	85	4	M16
11	160		350	250	42	300	995	6	60	95	4	M16
	180		350	250	48	300	995	6	60	95	4	M16
	200		400	300	55	350	1007	7	75	110	4	M16
12	160		350	250	42	300	1029	6	60	95	4	M16
	180		350	250	48	300	1029	6	60	95	4	M16
	200		400	300	55	350	1041	7	75	110	4	M16
13	225		450	350	60	400	1243	7	80	130	8	M16
	250		550	450	65	500	1243	8	80	130	8	M16
14	225		450	350	60	400	1303	7	80	130	8	M16
	250		550	450	65	500	1303	8	80	130	8	M16
16	250		550	450	65	500	1432	7	80	120	8	M16
	280		550	450	75	500	1447	8	90	130	8	M16
17	250		550	450	65	500	1467	7	80	120	8	M16
	280		550	450	75	500	1482	8	90	130	8	M16
18	315		660	550	80	600	1660	11	90	120	8	M20
19,20	315		660	550	80	600	1708	11	90	120	8	M20

注:(1)“*”所选直联电机机座号所对应的功率应满足转动能力表
“**”表格中所示的法兰为标准型号的法兰，如有异同请另咨询
(2)侧面扭力臂组合，请咨询

Note:(1)“*”Power of selected motor must meet transmissio table
“**”Indicate standard flange ,if special dimension is needed, please consult us
(2)For combination with torque arm on one side, please refer to us

2、Q3N带电机法兰及联轴器尺寸 Type Q3N With Motor Bell Housing and Coupling

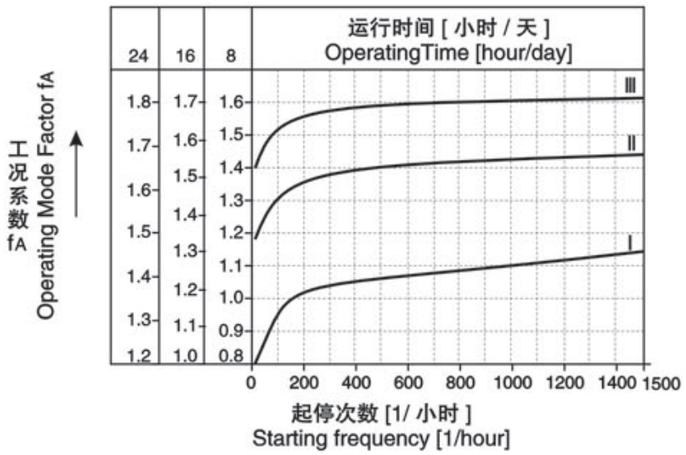


Q3N	电机 Motor (Y)*	法兰 Flange (F)**	a1	b1(h7)	D1	e1	fM	h1	l1	l	n	s1
9	132		300	230	38	265	912	5	60	84	4	M12
	160		350	250	42	300	948	6	60	90	4	M16
	180		350	250	48	300	948	6	65	95	4	M16
10	132		300	230	38	265	941	5	60	84	4	M12
	160		350	250	42	300	977	6	60	90	4	M16
	180		350	250	48	300	977	6	65	95	4	M16
11	132		300	230	38	265	1002	5	60	84	4	M12
	160		350	250	42	300	1038	6	60	90	4	M16
	180		350	250	48	300	1038	6	65	95	4	M16
12	.132		300	230	38	265	1036	5	60	84	4	M12
	160		350	250	42	300	1072	6	60	90	4	M16
	180		350	250	48	300	1072	6	65	95	4	M16
13	160		350	250	42	300	1147	6	60	90	4	M16
	180		350	250	48	300	1147	6	65	95	4	M16
	200		400	300	55	350	1159	7	75	105	4	M16
14	160		350	250	42	300	1207	6	60	90	4	M16
	180		350	250	48	300	1207	6	65	95	4	M16
	200		400	300	55	350	1219	7	75	105	4	M16
16	200		400	300	55	350	1372	7	80	100	4	M16
	225		450	350	60	400	1413	7	80	130	8	M16
17	200		400	300	55	350	1407	7	80	100	4	M16
	225		450	350	60	400	1448	7	80	130	8	M16
18	250		500	450	65	500	1607	7	80	120	8	M16
	280		550	450	75	500	1628	8	90	130	8	M16
19,20	250		550	450	65	500	1665	7	80	120	8	M16
	280		550	450	75	500	1675	8	90	130	8	M16

注:(1)“*”所选直联电机机座号所对应的功率应满足转动能力表
“**”表格中所示的法兰为标准型号的法兰，如有异同请另咨询
(2)侧面扭力臂组合，请咨询

Note:(1)“*”Power of selected motor must meet transmission table
“**”Indicate standard flange ,if special dimension is needed, please consult us
(2)For combination with torque arm on one side, please refer to us

Q SERIES



负载类型 Load classification

Ⅰ均匀负载，惯性加速系数≤0.2　　Uniform load, mass acceleration factor≤0.2

Ⅱ中等冲击负载，惯性加速系数≤3　　Medium Impact load, mass acceleration factor≤3

Ⅲ强烈冲击负载，惯性加速系数≤10　　Heavy shock load, mass acceleration factor≤10

如果惯性加速系数＞10，请与我公司技术部联系。

$$\text{惯性加速系数} = \frac{\text{所有外部转动惯量}}{\text{驱动电机的转动惯量}}$$

选型时必须满足下式：减速机的许用输入功率≥减速机的输入功率×工况系数fA

减速机的许用输入功率已在后面的选型参数表中列出。

允许的轴伸径向载荷及轴向载荷
输出轴端允许的径向载荷及轴向载荷资料，请与我公司技术部联系。

减速机的使用与维护请参阅随机附带的《减・变速机使用说明书》。

Please contact our technical supporting department in case the mass acceleration factor>10.

$$\text{Mass acceleration factor} = \frac{\text{All external mass moments of Inertia}}{\text{Mass moment of inertia on the motor end}}$$

Type selection should meet the following formula:

Permissible input power of reductor ≥input power of reductor ×operating mode factor f_A

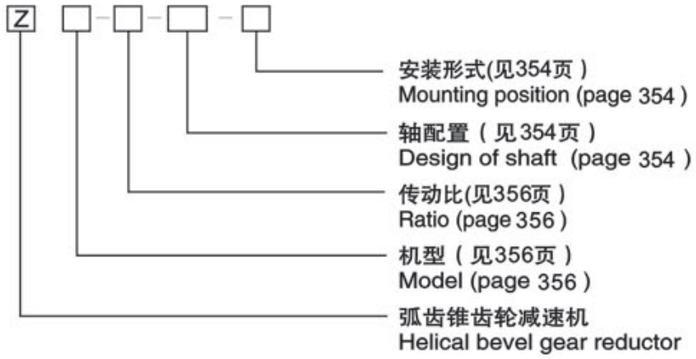
Permissible input power of reductor is listed in the parameter selection table.

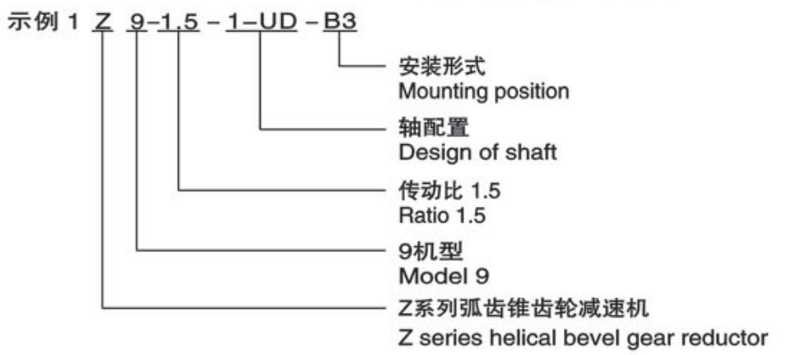
The permitted overhung loads and the axial forces.

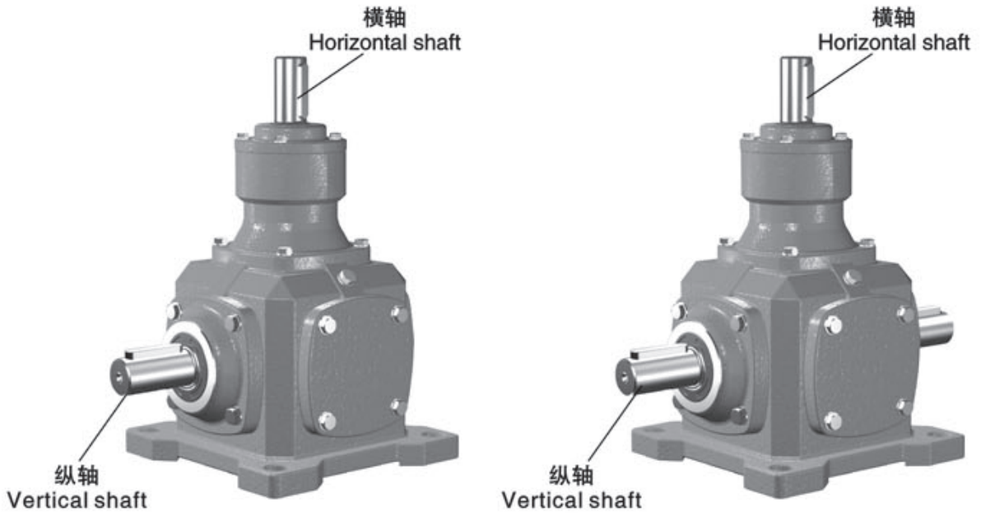
Please contact our technical supporting department for the information on the permitted overhung loads and the axial forces at the end of the output shaft.

Regarding the use and maintenance of the reductor, please refer to the attached《Instruction Manual of the Reductor and the Variable Speed Motor》.

五、型号说明 Instructions for Models：



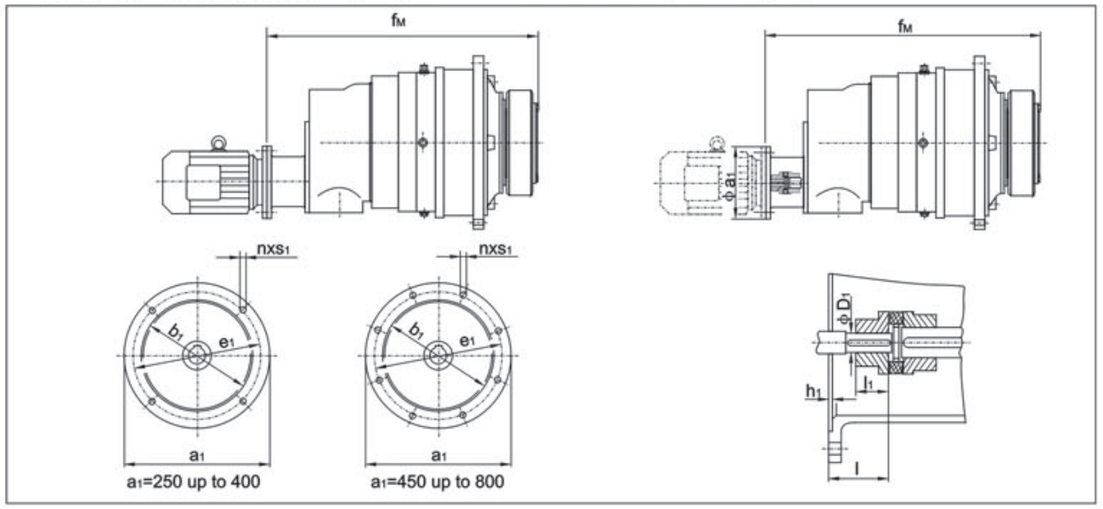




注：当横轴输入时，Z系列螺旋锥齿轮减速机为减速。
　　当纵轴输入时，Z系列螺旋锥齿轮减速机为增速。

Note: Z series bevel helical gear reductor is deceleration when inputting horizontal shaft.
Z series bevel helical gear reductor is acceleration,when inputting vetical shaft.

3、Q3S带电机法兰及联轴器尺寸 Type Q3S With Motor Bell Housing and Coupling

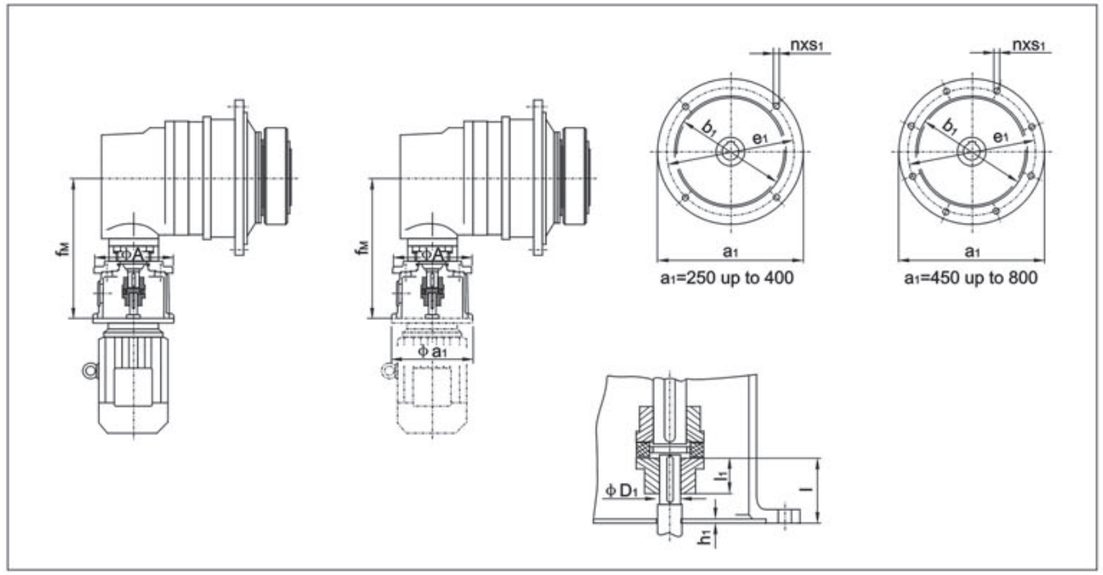


Q3S	电机 Motor (Y)*	法兰 Flange (F)**	a1	b1	D1	e1	fM	h1	l1	l	n	s1
9	100		250	180	28	215	855	5	50	65	4	M12
	112		250	180	28	215	855	5	50	65	4	M12
	132		300	230	38	265	887	5	50	60	4	M12
	160		350	250	42	300	923	6	50	85	4	M16
10	100		250	180	28	215	884	5	50	65	4	M12
	112		250	180	28	215	884	5	50	65	4	M12
	132		300	230	38	265	916	5	50	60	4	M12
	160		350	250	42	300	952	6	50	85	4	M16
11	112		250	180	28	215	945	5	50	65	4	M12
	132		300	230	38	265	977	5	50	60	4	M12
	160		350	250	42	300	1013	6	50	85	4	M16
	180		350	250	48	300	1013	6	50	85	4	M16
12	112		250	180	28	215	979	5	50	65	4	M12
	132		300	230	38	265	1011	5	50	60	4	M12
	160		350	250	42	300	1047	6	50	85	4	M16
	180		350	250	48	300	1047	6	50	85	4	M16
13	132		300	230	38	265	1086	5	50	60	4	M12
	160		350	250	42	300	1122	6	50	85	4	M16
	180		350	250	48	300	1122	6	50	85	4	M16
14	132		300	230	38	265	1146	5	50	60	4	M12
	160		350	250	42	300	1182	6	50	85	4	M16
	180		350	250	48	300	1182	6	50	85	4	M16
16	160		350	250	42	300	1350	6	60	95	4	M16
	180		350	250	48	300	1350	6	65	100	4	M16
	200		400	300	55	350	1362	7	75	110	4	M16
17	160		350	250	42	300	1385	6	60	95	4	M16
	180		350	250	48	300	1385	6	65	100	4	M16
	200		400	300	55	350	1397	7	75	110	4	M16
18	180		350	250	48	300	1552	6	80	.100	4	M16
	200		400	300	55	350	1564	6	80	100	4	M16
	225		450	350	60	400	1605	7	80	100	8	M16
	250		550	450	65	500	1605	7	80	100	8	M16
19,20	180		350	250	48	300	1599	6	80	100	4	M16
	200		400	300	55	350	1611	6	80	100	4	M16
	225		450	350	60	400	1652	7	80	100	8	M16
	250		550	450	65	500	1652	7	80	100	8	M16

注:(1)“*”所选直联电机机座号所对应的功率应满足传动能力表
“**”表格中所示的法兰为标准型号的法兰，如有异同请另咨询
(2)侧面扭力臂组合，请咨询

Note:(1)“*” Power of selected motor must meet transmissio table
“**” Indicate standard flange ,if special dimension is needed, please consult us
(2)For combination with torque arm on one side, please refer to us

4、Q2K带电机法兰及联轴器尺寸 Type Q2K With Motor Bell Housing and Coupling

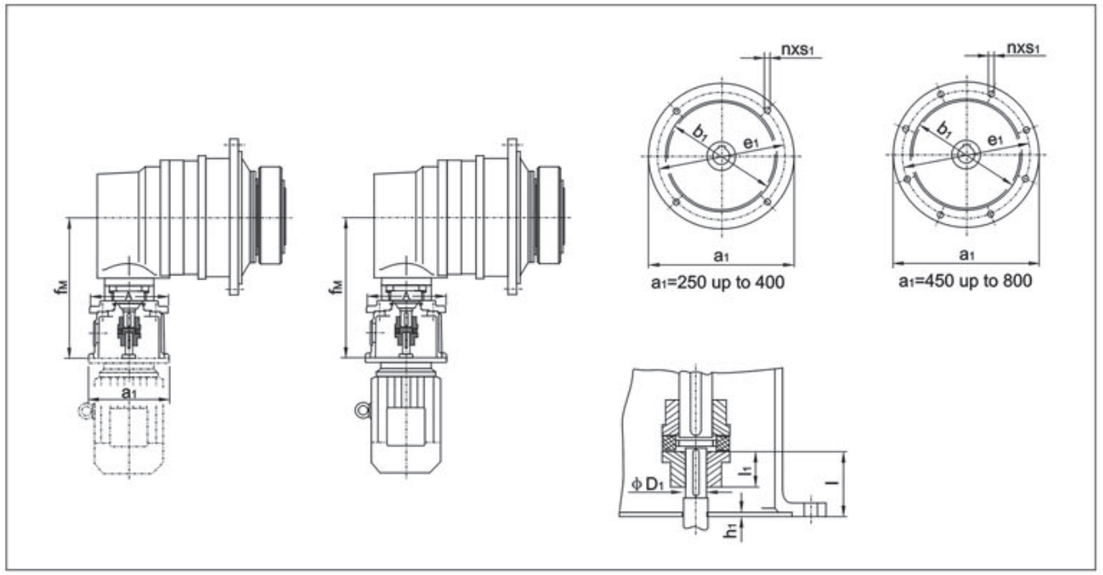


Q2K	电机 Motor (Y)*	法兰 Flange (F)**	a1	A	b1	D1	e1	fM	h1	l	l1	n	s1
9,10	132		300	250	230	38	265	466.5	5	45	35	4	M12
	160		350	250	250	42	300	502.5	6	75	40	4	M16
11,12	160		350	300	250	42	300	571.5	6	75	40	4	M16
	180		350	350	250	48	300	571.5	6	75	50	4	M16
	200		400	350	300	55	350	582.5	7	95	60	4	M16
13,14	160		350	440	250	42	300	658.5	6	75	40	4	M16
	180		350	440	250	48	300	658.5	6	85	50	4	M16
	200		400	440	300	55	350	664.5	7	95	60	4	M16
	225		450	440	350	60	400	690.5	7	125	65	8	M16
	250		550	440	450	65	500	690.5	8	120	65	8	M16
16,17	200		400	440	300	55	350	754.5	7	90	60	4	M16
	225		425	440	350	60	400	795.5	7	125	65	8	M16
	250		550	440	450	65	500	797	8	120	65	8	M16
	280		550	440	450	75	500	796	8	130	75	8	M16
18,19,20	225		450	440	350	60	400	898.5	7	125	65	8	M16
	250		550	440	450	65	500	898.5	8	120	65	8	M16
	280		550	440	450	75	500	884	8	130	75	8	M16
	315*		660	440	550	80	600	921	11	150	80	8	M20

注:(1)“*”所选直联电机机座号所对应的功率应满足转动能力表
“**”表格中所示的法兰为标准型号的法兰，如有异同请另咨询
(2)侧面扭力臂组合，请咨询

Note:(1)“*” Power of selected motor must meet transmissio table
“**” Indicate standard flange ,if special dimension is needed, please consult us
(2)For combination with torque arm on one side, please refer to us

5、Q2L带电机法兰及联轴器尺寸 Type Q2L With Motor Bell Housing and Coupling

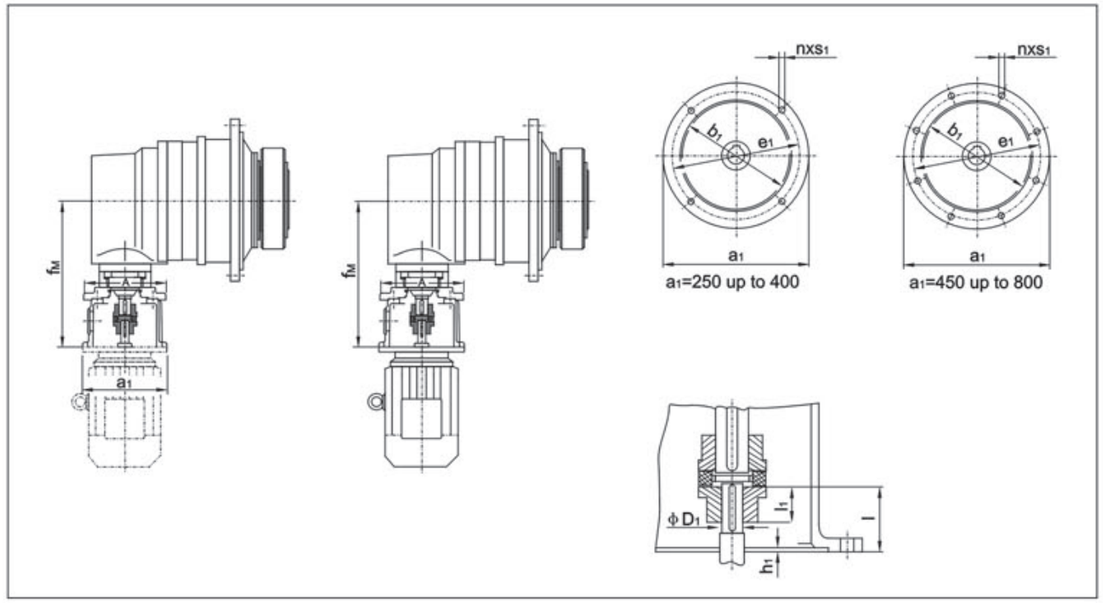


Q2L	电机 Motor (Y)*	法兰 Flange (F)**	a1	A	b1	D1	e1	fM	h1	l	l1	n	s1
9,10	160		350	440	250	42	300	518.5	6	75	40	4	M16
	180		350	440	250	48	300	518.5	6	85	50	4	M16
	200		400	440	300	55	350	524.5	7	95	60	4	M16
	225		450	440	350	60	400	550.5	7	125	65	8	M16
11,12	200		400	440	300	55	350	584.5	7	95	60	4	M16
	225		450	440	350	60	400	625.5	7	125	65	8	M16
	250		550	440	450	65	500	627	8	120	65	8	M16
13,14	225		450	440	350	60	400	698.5	7	120	65	8	M16
	250		550	440	450	65	500	698.5	8	120	65	8	M16
	280		550	440	450	75	500	684	8	130	75	8	M16
16,17	280		550	600	450	75	500	858	8	115	75	8	M16
	315*		660	650	550	80	600	825	11	150	80	8	M20
	315MC		660	650	550	80	600	825	11	160	90	8	M20
	315MD		660	650	550	80	600	825	11	160	90	8	M20
	315LB		660	650	550	80	600	825	11	170	100	8	M20
18,19,20	315*		660	650	550	80	600	938	11	150	80	8	M20
	315MC		660	650	550	80	600	938	11	160	90	8	M20
	315MD		660	650	550	80	600	938	11	160	90	8	M20
	315LB		660	650	550	80	600	938	11	170	100	8	M20
21,22 23,24	315MC		660	650	550	80	600	1085	11	135	90	8	M20
	315MD		660	650	550	80	600	1085	11	135	90	8	M20
	315LB		660	650	550	80	600	1085	11	145	100	8	M20
	355MB		800	650	680	95	740	1087	11	145	100	8	M20
	355LB		800	650	680	95	740	1087	11	155	110	8	M20

注:(1)“*”所选直联电机机座号所对应的功率应满足转动能力表
“**”表格中所示的法兰为标准型号的法兰，如有异同请另咨询
(2)侧面扭力臂组合，请咨询

Note:(1)“*” Power of selected motor must meet transmissio table
“**” Indicate standard flange ,if special dimension is needed, please consult us
(2)For combination with torque arm on one side, please refer to us

6、Q3K带电机法兰及联轴器尺寸 Type Q3K With Motor Bell Housing and Coupling



Q3K	电机 Motor (Y)*	法兰 Flange (F)**	a1	A	b1	D1	e1	fM	h1	l	l1	n	s1
9,10,11 12,13,14	132		300	250	230	38	265	466.5	5	45	35	4	M12
	160		350	250	250	42	300	502.5	6	75	40	4	M16
	180		350	250	250	48	300	502.5	6	75	40	4	M16
16,17	160		350	350	250	42	300	571.5	6	75	40	4	M16
	180		350	350	250	40	300	571.5	6	85	50	4	M16
	200		400	350	300	55	350	582.5	7	95	60	4	M16
18,19,20 21,22	160		350	440	250	42	300	658.5	6	75	40	4	M16
	180		350	440	250	48	300	658.5	6	85	50	4	M16
	200		400	440	300	35	350	664.5	7	95	60	4	M16
	225		450	440	350	60	400	690.5	7	125	65	8	M16
	250		550	440	450	65	500	690.5	8	120	65	8	M16
23,24 25,26	200		400	440	300	55	350	754.5	6	90	60	4	M16
	225		450	440	350	60	400	795.5	7	125	65	8	M16
	250		550	440	450	62	500	797	7	120	65	8	M16
	280		550	440	450	75	500	796	8	130	75	8	M16
27,28 29,30	225		450	440	350	60	400	898.5	7	120	65	8	M16
	250		550	440	450	65	500	898.5	7	120	65	8	M16
	280		550	440	450	75	500	884	8	130	75	8	M16
	315*		660	440	550	80	600	921	11	150	80	8	M20

注:(1)“*”所选直联电机机座号所对应的功率应满足传动能力表
“**”表格中所示的法兰为标准型号的法兰，如有异同请另咨询
(2)侧面扭力臂组合，请咨询

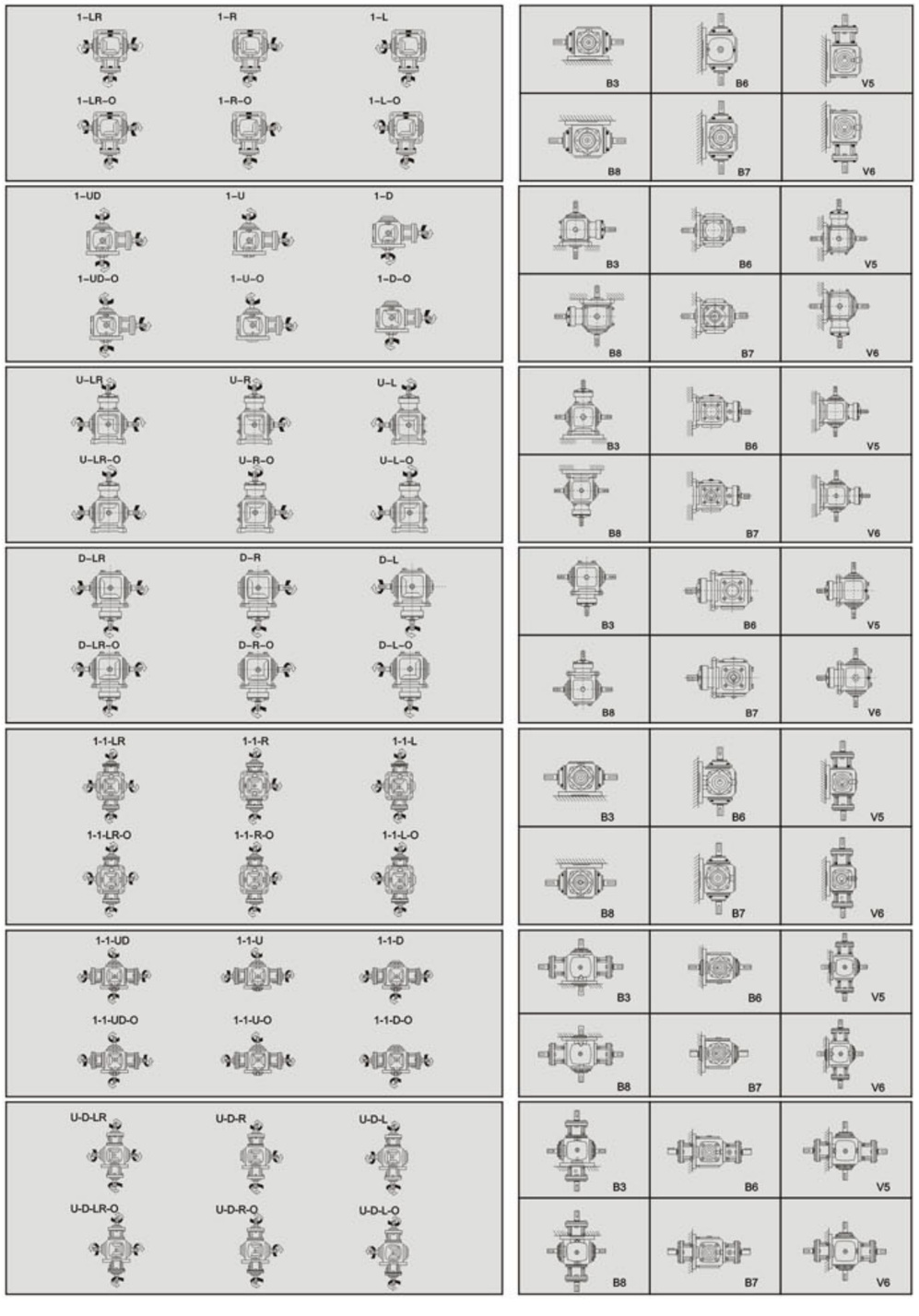
Note:(1)“*” Power of selected motor must meet transmissio table
“**” Indicate standard flange ,if special dimension is needed, please consult us
(2)For combination with torque arm on one side, please refer to us

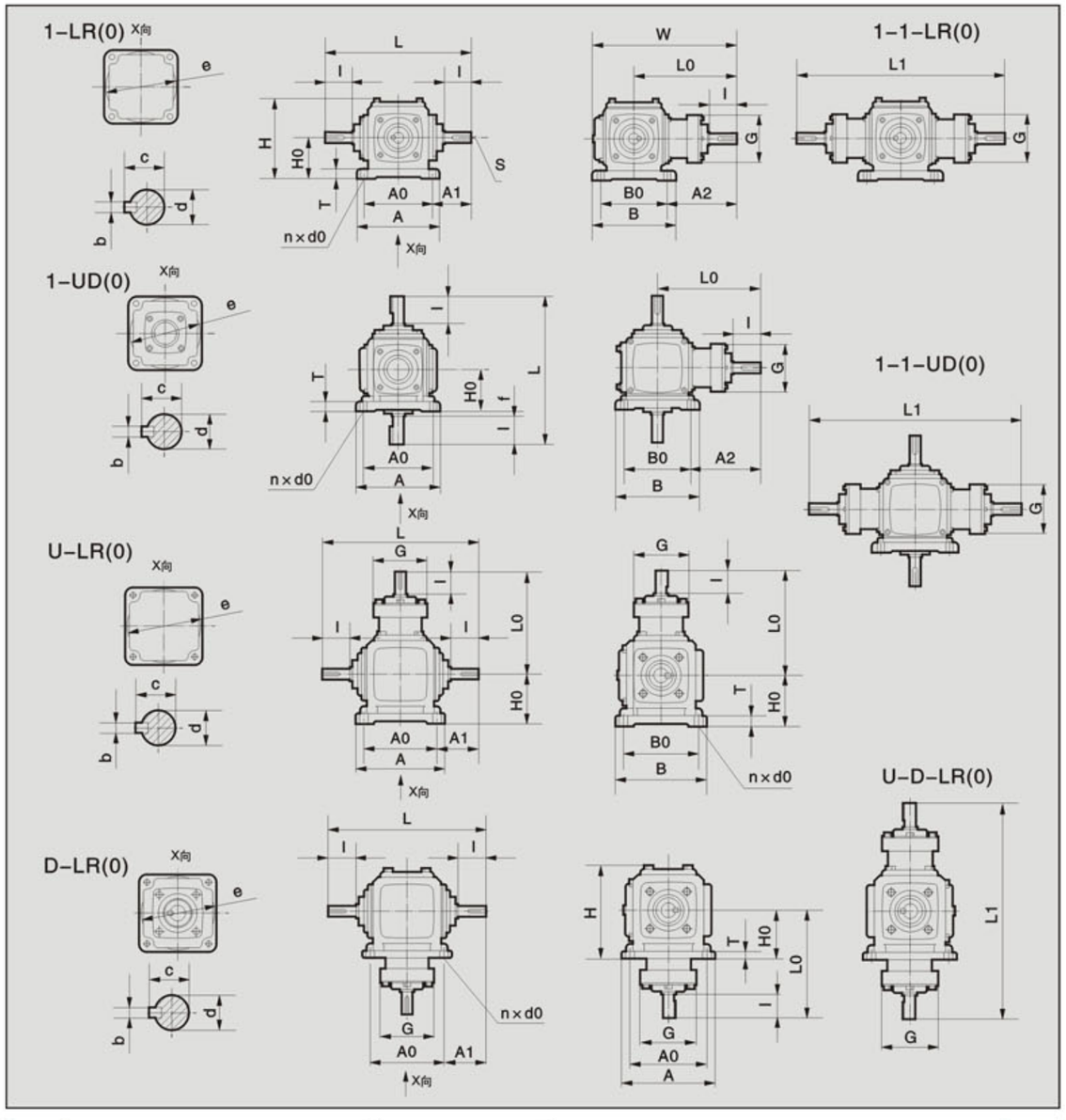
Q SERIES

Z系列安装形式图 The Z series mounting position example

轴配置轴旋转方向关系
The relationship between design of shaft and direction of shaft

安装形式
mounting position





型号 Model	安装尺寸 Installation dimensions							轴伸尺寸 Shaft dimensions					外形尺寸 Overall dimensions										重量 weight
	H0	A0	B0	A1	A2	L0	nXd0	d	b	c	l	S	L	H	A	B	W	G	T	f	L1	e X 深	Kg
Z2	52	84	84	48	82	124	4X9	15	5	17	30	M4	180	100	100	100	174	74	10	6	–	94X3	4
Z4	76	125	125	53.5	117.5	180	4X11	19	6	21.5	38	M5	232	145	155	155	257.5	79	17	2	360	145X5	10
Z6	90	152	152	81	146	222	4X14	25	8	28	50	M6	314	175	190	190	317	98	17	17	444	175X5	21
Z7	100	174	174	86	178	265	4X14	32	10	35	60	M8	346	198	210	210	370	116	22	13	530	205X5	32
Z8	115	195	195	110.5	210.5	308	4X14	40	12	43	75	M10	416	225	235	235	425.5	136	22	18	616	240X5	49
Z10	140	240	240	120	240	360	4X16	45	14	48.5	90	M12	480	270	285	285	502.5	156	25	10	720	295X5	78
Z12	175	290	290	130	270	415	4X21	50	14	53.5	100	M16	550	340	340	340	585	180	32	0	830	350X5	124

Q系列行星减速机
Q Series Planetary gear units

减速器润滑

润滑油种类选择

减速器使用工况	润滑油种类
冶金轧钢、井下采掘、高温有冲击、含水等	L-CKD重载荷工业齿轮油 (GB5903-1995)
其余工况	L-CKC中载荷工业齿轮油 (GB5903-1995)

注:若选用合成齿轮油则更具有良好的抗老化性能，可有效地提高减速器的机械效率。

润滑油粘度

条　件	润滑油粘度等级 40 ℃温度下的ISO-VG 粘度mm/s²(cst)
高速圆周速度v<2.5m/s，或环境温度在35-50 ℃之间	VG320(或VG460)
高速级齿轮圆周速度v>2.5m/s，或环境温度在35 ℃以下，或采用循环油润滑	VG220

浸油润滑润滑油的工作温度

润滑油种类	工作温度/ ℃
中载荷工业齿轮油 L-CKC	-8 ℃至+90 ℃ (瞬时可达100 ℃)
重载荷工业齿轮油 L-CKD	-5 ℃至+100 ℃ (瞬时可达110 ℃)

注意:如果减速器的工作温度高于或低于表中规定极限值则应重新确定合适的润滑油。当环境温度低于0 ℃时启动前油温需加热到0 ℃以上。

强制润滑润滑油允许的极限温度

40℃温度下的ISO-VG粘度mm²/s(cst)	强制润滑允许的极限温度/℃	
	矿物油	合成油
VG220	10-80	0-90
VG320	15-90	5-100
VG460	20-95	10-105

注意:当油温低于表中所列数值时，必须提供浸油润滑方式，或对润滑油加热

Gear Units Lubrication

Lubricant selection

Operating conditions of gear units	Lubricant specification
Steel rolling, excavating, high temperature with shock,moisture, etc.	L-CKD heavy load industrial gear oil (GB5903-1995)
Others	L-CKC moderate load industrial gear oil (GB5903-1995)

Note: It adopts the synthetic oil which has the better performance of anti-ageing so that improves the mechanical efficiency effectively.

Lubricant viscosity

Conditions	Lubricant viscosity classification Viscosity ISO-VG at40℃in mm²/s(cst)
Rotation velocity of high speed stage v<2.5m/s,or ambient temperature between35-50℃	VG320(orVG460)
Rotation velocity of high speed stage v>2.5m/s,or ambient temperature at 35℃,or lubrication with circulating oil	VG220

Working temperature for dip feed lubrication

Lubricant specification	Working temperature/℃
L-CKC moderate load industrial gear iol	From-8℃ to +90℃ (up to 100℃moment)
L-CKD heavy load industrial gear oil	From -5℃ to +100℃(up to 110℃ at moment)

Notes:If the temperatures of gear units are above to below the values as listed in table, it determines the proper oil again, If the ambient temperatures are below 0℃,the oil has to be heated above 0℃.

Permissible temperature limit for forced feed lubrication

Viscosity ISO-VG at 40℃ in mm²/s(cst)	Permissible temperature limit for forced feed lubrication/℃	
	Mineral oil	Synthetic oil
VG220	10-80	0-90
VG320	15-90	5-100
VG460	20-95	10-105

Notes:If the temperatures are below the values as listed in table, dip lubrication has to be provded or the oil must be heated

性能参数表 Function parameter form

传动比 Ratio	输入转速 (r/min) Input speed	输出转速 (r/min) output speed	Z2 输入功率(kW) Input power	Z4 输入功率(kW) Input power	Z6 输入功率(kW) Input power	Z7 输入功率(kW) Input power	Z8 输入功率(kW) Input power	Z10 输入功率(kW) Input power	Z12 输入功率(kW) Input power
1	1450	1450	1.79	4.94	14.9	22	45.6	65.3	96
	1150	1150	1.43	4.19	12.7	18.4	37.5	55.7	81.1
	870	870	1.12	3.46	10.5	15.2	29	44.6	67.5
	580	580	0.747	2.45	7.35	11.4	19.8	30.6	49.7
	400	400	0.524	1.72	5.2	8.34	14	21.5	35.1
	300	300	0.396	1.3	3.93	6.35	10.6	16.4	26.8
	200	200	0.266	0.88	2.66	4.3	7.23	11.1	18.2
	100	100	0.136	0.448	1.36	2.2	3.7	5.72	9.36
	10	10	0.014	0.046	0.141	0.228	0.386	0.599	0.983
1.5	1450	967			12.1	15	19.1	38.7	58.3
	1150	767			9.96	12	15.4	31.2	49.2
	870	580			7.66	9.3	11.8	24.1	40.7
	580	387			5.23	6.32	8.14	16.4	28.9
	400	267			3.66	4.41	5.7	11.6	20.3
	300	200			2.77	3.35	4.34	8.78	15.5
	200	133			1.87	2.28	2.91	5.95	10.5
	100	37			0.957	1.16	1.49	3.04	5.37
	10	7			0.099	0.12	0.155	0.316	0.56
2	1450	725	0.94	3.32	7.9	10.6	14	23.6	40
	1150	575	0.74	2.67	6.39	8.55	11.3	19	31.7
	870	435	0.56	2.04	4.88	6.56	8.7	14.6	24
	580	290	0.37	1.38	3.34	4.47	5.92	10	16.3
	400	200	0.26	0.96	2.33	3.12	4.15	7.02	11.5
	300	150	0.19	0.73	1.76	2.37	3.14	5.33	8.71
	200	100	0.13	0.49	1.18	1.59	2.12	3.61	5.89
	100	50	0.06	0.3	0.608	0.812	1.08	1.84	3.01
	10	5	0.015	0.026	0.062	0.084	0.112	0.191	0.313
2.5	1450	580			5.97	6.99	11.4	18.2	31.4
	1150	460			4.78	5.64	9.11	14.7	25.3
	870	348			3.68	5.3	7	11.2	19.5
	580	232			2.48	2.92	4.76	7.68	13.3
	400	160			1.73	2.05	3.34	5.38	9.32
	300	120			1.32	1.55	2.53	4.06	7.08
	200	80			0.888	1.05	1.71	2.75	4.79
	100	40			0.448	0.528	0.867	1.4	2.43
	10	4			0.046	0.054	0.089	0.144	0.251
3	1450	483			4.84	5.42	8.2	14	23.6
	1150	383			3.88	4.34	6.55	11.3	19
	870	290			2.97	3.34	5.04	8.66	14.6
	580	193			2.02	2.25	3.42	5.89	9.92
	400	133			1.41	1.58	2.39	4.11	6.98
	300	100			1.07	1.18	1.8	3.11	5.29
	200	67			0.712	0.803	1.22	2.1	3.57
	100	33			0.363	0.409	0.618	1.07	1.82
	10	3			0.037	0.042	0.064	0.11	0.188

注：1.表中没有转速数值的按插入法计算。
2.横轴转速超过1450r/min时，向我公司咨询。
3.横轴转数未达到10r/min，请使用10r/min的数据。
4.本表使用系数一律为1.0。
5.本表全部为减速(除1以外)传动的输入功率，当需要增速时，输入功率的数据应除以减速比。

Note: 1. If speed is not list in table, please calculated with inserting method.

2. Please consult us , when the speed of horizontal shaft is more than 1450r/min.

3. Please refer to the parameter of 10r/min in the table when the speed of horizontal shaft is less than 10r/min.

4. The service factor of table is 1.0.

5. All input power of table (except for 1) is for deceleration transmission. It's essential that the parameter of input power should divide ratio.

无级变速机及其与齿轮减速机组合
The variable speed machine and its combination with the gear reductor

概述

MB转臂行星式无级变速机产品造型新颖、外型美观、结构简单、操作方便、具有受力均匀、调速灵敏度高、传动平稳、 承载能力强等特性， 适宜于连续运转工作，且能在负载中按需要调节速度，最适应于工艺参数多变或连续变化的场合，广泛地应用于食品包装、 啤酒饮料、橡胶塑料、 制药制革、电子仪表等轻工行业、机械设备及各种自动生产线上大量使用。 而MBQ特轻型转臂行星无级变速机及其机壳采用高强度铝质合金材料压铸而成，造型精致美观、体积小、重量轻，对悬挂式或变速机重量有要求的场所特别适用。

The MB pivoted arm planetary stepless variable speed motor, modern in design and stylish in apperance, is simple in structure and easy to operate. With the even stress, high governing sensitivity and excellent durability, it's capable of continuous operation. Moreover, the speed can be adjusted as required when loaded, so it's suitable for changful or continuously changing technical parameters. It is widely used in all kinds of product lines in the light industries such as food packing, beer and beverage making, rubber and palstic processing, medicine making, leather manufacturing, electronic instrument manufacturing, as well as mechanical equipment making. The MBQ extra–light pivoted arm stepless variable speed motor and its casing are cast in high strength aluminum alloy, fine in appearance, small in dimension, light in weight, can be suspended at use, and is applicable where heavy variable speed motor is not suitable.

性能特点 Characteristics：

高 强 度：在加冲击负载或机器逆转时，本机性能可靠、传动精确，无后座力、具有足够的强度，其输出扭矩--转速特性曲线呈硬特性。

变速范围大：MB机型变速范围为1:5，即传动比可在1.45~7.25之间任意变化，而MBQ机型变速范围为1:6，传动比可在1.45~8.5之间任意变化，因此本机易于减速机组合，而得到极低的速比。

调速精度高：调速精度为0.5~1转，这是目前同类无级变速机中仅有的。

性 能 稳 定：本机所有的传动部件都经过严格处理、精密加工、研磨，接触和润滑良好，运行平稳，噪音低，输出轴和输入轴均无附加的轴向力、寿命长。

组合能力强：本机能与摆线针轮减速机、齿轮减速机、蜗轮、蜗杆减速机及其它减速机组合，实现低速无级变速，因此它具有广泛的适用性。

High strength: it is strong enough that it functions stably with precise transmission but without recoil when there is impact load or in reverse rotation. It's torque–rotational speed character curve appears rigid.

Wide range of the speed change: the speed change range of the MB model is 1:5, that is, any change with the transmission ratio varing from1.45 to 7.25. The speed change range of the MBQ model is 1:6, that is, any change with the transmission ratio varing from 1.45 to 8.5. So, this equipment is convenient to be combined with reductors, to reach a very low speed ratio.

High precise governing: the governing precision is 0.5–1 round, prevails any like products at present.

Reliable performance: all the parts of this equipment have been well processed, finely abraded, contacted and lubricated with strict control. It works stably with low noise. There's no extra axial force upon the input or output shaft.It can endure a long time .

Variable combination: this equipment can be combined with the cycloidal pinwheel reductor, the gear reductor, the worm and gear reductor, and other reductors, to perform stepless speed change, at low speed so it can be widely adopted.

型号表示法 The expressing method of model：

1.基本型表示方式 The expressing method of the basic type：

MBA W 07 — Y 0.75 — 4P — 270° — L

- 手轮位置在图示左侧(见359页) The handwheel is at the left side in the diagram. (page 359)
- 电机接线盒在图示270° 处(见359页) The motor connection box is at the position of 270° in the mounting postion example.(page 359)
- 电机极数：4P Motor pole：4P
- 电机功率:0.75kW(见360-365页) Motor power：0.75kW (page 360-365)
- Y系列电机 Motors of Y series
- 变速机机型号(见360-365页) Variable speed machine model number. (page 360-365)
- 结构安装形式（卧式）(见359页) Structure mounting position (horizontal) (page 359)
- 变速机代号（A表示改进型） Variable speed machine code number. (The A means to the improvement type)

2.基本型与齿轮减速机组合表示方法：

2.The expressing method of the basic type combine with helical gear reductor:

MBQ W 07 .2C — Y 0.75 — 4P — 16 — 270° — L

- 手轮位置在图示左侧(见359页) The handwheel is at the left side in the diagram. (page 359)
- 电机接线盒在图示270° 处(见359页) The motor connection box is at the position of 270° in the mounting postion example.(page 359)
- 齿轮减速机传动比(见360-365页) The helical gear reductor ratio (page 360-365)
- 电机极数：4P Motor pole：4P
- 电机功率:0.75kW(见360-365页) Motor power：0.75kW (page 360-365)
- 电机系列代号 Motor series code number
- 齿轮减速机代号(见360-365页) The helical gear reductor code number (page 360-365)
- 变速机机型号(见360-365页) Variable speed reductor model number. (page 360-365)
- 结构安装形式（卧式）(见359页) Structure mounting position (horizontal) (page 359)
- 变速机代号（Q）表示铸铝外壳，无此项时为铸铁外壳） Variable speed machine code number. (The Q means the aluminum shell, having no this as the cast-iron shell)

注：1.输入轴型没有电动机的各项内容。

2.无特别说明时Y系列电动机供货按IP54防护等级。

3.不注明接线盒角度时，按电机接线盒安装形式图(见359页)中0度位置供货。

4.不注明手轮位置时，按手轮位置图(见359页)中R位置供货。

Note:1.The input shaft type is not equipped with any motor,

2.Motors of Y series are supplied with protection grade of Ip54 unless otherwise specified.

3.0° as shown in the mounting position example(page 359) is the default connection box angle when supplying unless otherwise specified.

4.The mounting position of R as shown in the mounting position example (page 359) is the default position of handwheel when supplying unless otherwise specified.

MB无级变速机及齿轮减速机类型代号

The type code number for the MB series variable speed machine and helical gear reductor.

减速机 Reductor	代号 Code
MB无级变速基本型 MB basic type	无
MB一级齿轮变速机 One-stage helical gear variable speed machine	.C
MB二级齿轮变速机 Two-stages helical gear variable speed machine	.2C
MB陶瓷专用变速机 Ceramics appropriable variable speed machine	.T

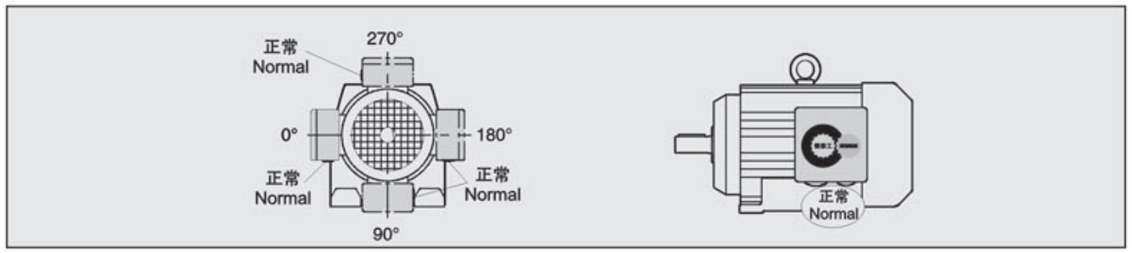
MB无级变速机及齿轮减速机安装形式代号

The MB variable speed machine and helical gear reductor mounting position code number

减速机 Reductor	代号 Code
卧式（底座）安装 horizontal (bottom) mounting	W
法兰垂直安装 Vertical flange-mounted	L
法兰水平安装 Horizontal flange-mounted	F
特殊位置安装 Special position mounting	文字说明 Writing elucidation

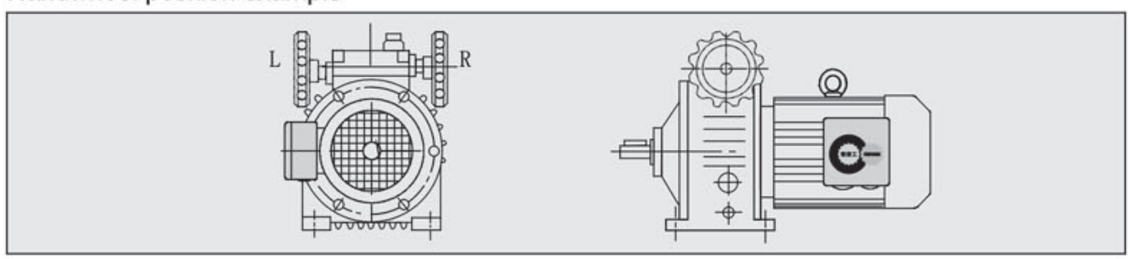
电机接线盒安装形式图

The motor connection box mounting position example



手轮位置图

Handwheel position example



减、变速机的使用与维护请参阅随机附带的《减·变速机使用说明书》。

regarding use and maintenance of the reduce,variable speed machine,please refer to the attached《Instruction Manual of thr Reductor and the Variable Speed Motor》

输出转速 Output speed r/min	输出扭矩 Output torque N·m	传动比 Ratio i	机型号 Type Type
0.18kW			
200~1000	3~1.5	io=1.45~7.25	MBW0.2
80~400	7.4~3.5	2.5io	MBW0.2C
60~300	10~4.7	3.3io	
40~200	15~7	5io	
0.37kW			
200~1000	6~3	io=1.45~7.25	MBAW04
80~400	15~7.3	2.5io	MBAW04.C
60~300	20~9.5	3.3io	
40~200	30~15	5io	
25~125	40~20	7.5io	MBAW04.2C
18~90	56~28	10io	
15~75	68~34	13io	
12~60	84~42	16io	
10~50	106~53	20io	
0.55kW			
200~1000	10~5	io=1.45~7.25	MBAW07
80~400	20~9.8	2.5io	MBAW07.C
60~300	32~15.5	3.3io	
40~200	30~15	5io	
25~125	68~34	7.5io	MBAW07.2C
18~90	90~45	10io	
15~75	122~56	13io	
12~60	140~70	16io	
0.75kW			
200~1000	12~6	io=1.45~7.25	MBAW07
80~400	29~15	2.5io	MBAW07.C
60~300	38~19	3.3io	
40~200	60~30	5io	
25~125	80~40	7.5io	MBAW07.2C
18~90	108~54	10io	
15~75	136~86	13io	
12~60	168~84	16io	
1.1kW			
200~1000	18~9	io=1.45~7.25	MBAW15
80~400	39~20	2.5io	MBAW015.C
60~300	58~28	3.3io	
40~200	88~43	5io	
25~125	120~60	7.5io	MBW15.2C
18~90	160~80	10io	
15~75	200~100	13io	
12~60	250~125	16io	

输出转速 Output speed r/min	输出扭矩 Output torque N·m	传动比 Ratio i	机型号 Type Type
1.5kW			
200~1000	24~12	io=1.45~7.25	MBAW15
80~400	59~29	2.5io	MBW15.C
60~300	78~36	3.3io	
40~200	118~59	5io	
25~125	160~80	7.5io	MBW15.2C
18~90	218~108	10io	
15~75	270~135	13io	
12~60	334~167	16io	
2.2KW			
200~1000	36~18	io=1.45~7.25	MBW22
80~400	88~44	2.5io	MBW22.C
60~300	118~56	3.3io	
40~200	176~88	5io	
25~125	243~122	7.5io	MBW22.2C
18~90	324~162	10io	
15~75	406~203	13io	
12~60	502~251	16io	
10~50	840~420	20io	
3KW			
200~1000	48~24	io=1.45~7.25	MBW40
80~400	118~59	2.5io	MBW40.C
60~300	158~75	3.3io	
40~200	235~118	5io	
25~125	324~162	7.5io	MBW40.2C
18~90	432~216	10io	
15~75	540~270	13io	
12~60	670~335	16io	
10~50	1150~558	20io	
4KW			
200~1000	64~32	io=1.45~7.25	MBW40
80~400	157~78	2.5io	MBW40.C
60~300	212~100	3.3io	
40~200	314~157	5io	
25~125	432~216	7.5io	MBW40.2C
18~90	576~288	10io	
15~75	720~360	13io	
12~60	892~446	16io	
10~50	1150~558	20io	

输出转速 Output speed r/min	输出扭矩 Output torque N·m	传动比 Ratio i	机型号 Type Type
5.5KW			
200~1000	90~45	io=1.45~7.25	MBW55
80~400	216~108	2.5io	MBW55.C
60~300	298~140	3.3io	
40~200	441~216	5io	
25~125	608~304	7.5io	MBW55.2C
18~90	810~405	10io	
15~75	1012~506	13io	
12~60	1256~628	16io	
10~50	1600~800	20io	
7.5KW			
200~1000	118~59	io=1.45~7.25	MBW75
80~400	294~147	2.5io	MBW75.C
60~300	398~198	3.3io	
40~200	558~294	5io	
25~125	795~398	7.5io	MBW75.2C
18~90	1060~530	10io	
15~75	1325~662	13io	
12~60	1643~882	16io	
10~50	2088~1042	20io	

输出转速 Output speed r/min	输出扭矩 Output torque N·m	传动比 Ratio i	机型号 Type Type

MB

输出转速 Output speed r/min	输出扭矩 Output torque N·m	传动比 Ratio i	机型号 Type Type
0.18KW			
200~1000	3~1.5	io=1.45~7.25	MB■02
80~400	7.4~3.5	2.5io	MB■02.C
60~300	10~4.7	3.3io	
40~200	15~7	5io	
25~125	40~20	7.5io	MBA■04.2C
18~90	56~28	10io	
15~75	68~34	13io	
12~60	84~42	16io	
10~50	106~53	20io	
0.37KW			
200~1000	6~3	io=1.45~7.25	Mb■04
80~400	15~7.3	2.5io	MBA■04.C
60~300	20~9.5	3.3io	
40~200	30~15	5io	
25~125	68~34	7.5io	MBA■07.2C
18~90	90~45	10io	
15~75	122~56	13io	
12~60	140~70	16io	
0.55KW			
200~1000	10~5	io=1.45~7.25	MBA■07
80~400	20~9.8	2.5io	MBA■07.C
60~300	32~15.5	3.3io	
40~200	30~15	5io	
25~125	80~40	7.5io	MBA■07.2C
18~90	108~54	10io	
15~75	136~68	13io	
12~60	168~84	16io	
0.75KW			
200~1000	12~6	io=1.45~7.25	MBA■07
80~400	29~15	2.5io	MBA■07.C
60~300	38~19	3.3io	
40~200	60~30	5io	
25~125	118~59	7.5io	MBA■15.2C
18~90	158~75	10io	
15~75	200~100	13io	
12~60	250~125	16io	
1.1KW			
200~1000	18~9	io=1.45~7.25	MBA■15
80~400	39~20	2.5io	MBA■15.C
60~300	58~28	3.3io	
40~200	88~43	5io	
25~125	160~80	7.5io	MBA■15.2C
18~90	218~108	10io	
15~75	270~135	13io	
12~60	334~167	16io	

输出转速 Output speed r/min	输出扭矩 Output torque N·m	传动比 Ratio i	机型号 Type Type
1.5KW			
200~1000	24~12	io=1.45~7.25	MBA■15
80~400	59~29	2.5io	MBA■15.C
60~300	78~36	3.3io	
40~200	118~59	5io	
25~125	243~122	7.5io	MB■22.2C
18~90	324~162	10io	
15~75	406~203	13io	
12~60	502~251	16io	
10~50	840~420	20io	
2.2KW			
200~1000	36~18	io=1.45~7.25	MB■22
80~400	88~44	2.5io	MB■22.C
60~300	118~56	3.3io	
40~200	176~88	5io	
25~125	324~162	7.5io	MB■40.2C
18~90	432~216	10io	
15~75	540~270	13io	
12~60	670~335	16io	
10~50	1150~558	20io	
3KW			
200~1000	48~24	io=1.45~7.25	MB■40
80~400	118~59	2.5io	MB■40.C
60~300	158~75	3.3io	
40~200	235~118	5io	
25~125	432~216	7.5io	MB■40.2C
18~90	576~288	10io	
15~75	720~360	13io	
12~60	892~446	16io	
10~50	1150~558	20io	
4KW			
200~1000	64~32	io=1.45~7.25	MB■40
80~400	157~78	2.5io	MB■40.C
60~300	212~100	3.3io	
40~200	314~157	5io	
25~125	432~216	7.5io	MB■40.2C
18~90	576~288	10io	
15~75	720~360	13io	
12~60	892~446	16io	
10~50	1150~558	20io	

输出转速 Output speed r/min	输出扭矩 Output torque N·m	传动比 Ratio i	机型号 Type Type
5.5KW			
200~1000	90~45 216~108	io=1.45~7.25	MB■55
80~400	298~140	2.5io	MB■55.C
60~300	441~216	3.3io	
40~200		5io	
25~125	608~304	7.5io	MB■55.2C
18~90	810~405	10io	
15~75	1012~506	13io	
12~60	1256~628	16io	
10~50	1600~800	20io	
7.5KW			
200~1000	118~59	io=1.45~7.25	MB■75
80~400	294~147	2.5io	MB■75.C
60~300	398~198	3.3io	
40~200	558~294	5io	
25~125	795~398	7.5io	MB■75.2C
18~90	1060~530	10io	
15~75	1325~662	13io	
12~60	1643~882	16io	
10~50	2088~1042	20io	

输出转速 Output speed r/min	输出扭矩 Output torque N·m	传动比 Ratio i	机型号 Type Type

输出转速 Output speed r/min	输出扭矩 Output torque N·m	传动比 Ratio i	机型号 Type Type
0.18KW			
170~1000	2.8~1.4	io=1.45~8.5	MBQQ75
0.25KW			
170~1000	3.8~1.9	io=1.45~8.5	MBQW04
68~400	9.1~4.6	2.5io	MBQW04.T
52~300	12~6	3.3io	
34~200	18.2~9.1	5io	
23~125	25~12	7.5io	MBQW04.2C
17~90	33~17	10io	
13~75	43~22	13io	
10~60	54~27	16io	
8~50	67~34	20io	
0.37KW			
170~1000	6~3	io=1.45~8.5	MBQW04
68~400	15`7.3	2.5io	MBQW04.T
52~300	20~9.5	3.3io	
34~200	30~15	5io	
23~125	40~20	7.5io	MBQW04.2C
17~90	56~28	10io	
13~75	68~34	13io	
10~60	84~42	16io	
8~50	106~53	20io	
0.55KW			
170~1000	12~16	io=1.45~8.5	MBQW07
68~400	29~15	2.5io	MBQW07.T
52~300	38~19	3.3io	
34~200	60~30	5io	
23~125	80~40	7.5io	MBQW07.2C
17~90	108~54	10io	
13~75	136~68	13io	
10~60	168~84	16io	
0.75KW			
170~1000	12~6	io=1.45~8.5	MBQW07
68~400	29~15	2.5io	MBQW07T
52~300	38~19	3.3io	
34~200	60~30	5io	
23~125	80~40	7.5io	MBQW07.2C
17~90	108~54	10io	
13~75	136~68	13io	
10~60	168~84	16io	

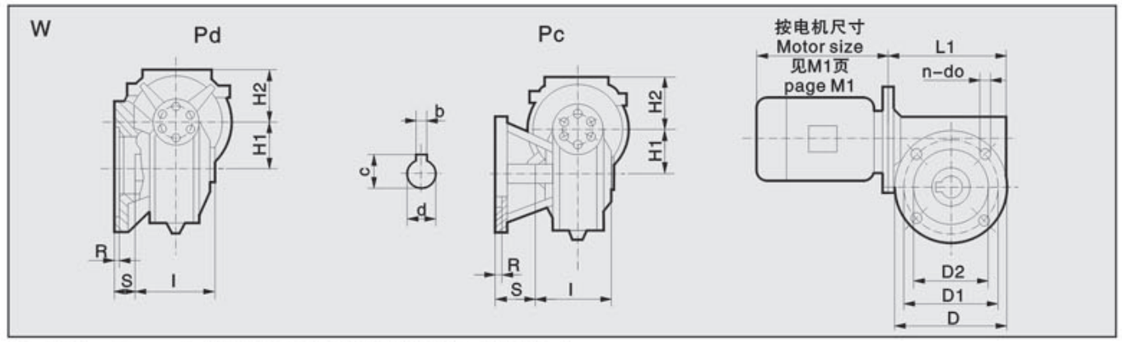
输出转速 Output speed r/min	输出扭矩 Output torque N·m	传动比 Ratio i	机型号 Type Type
1.1KW			
170~1000	18~9	io=1.45~8.5	MBQW15
68~400	29~15	2.5io	MBQW15T
52~300	38~19	3.3io	
34~200	60~30	5io	
23~125	80~40	7.5io	MBQW15.2C
17~90	108~54	10io	
13~75	136~68	13io	
10~60	168~84	16io	
1.5KW			
170~1000	24~12	io=1.45~8.5	MBQW15
68~400	29~15	2.5io	MBQW15T
52~300	38~19	3.3io	
34~200	60~30	5io	
23~125	80~40	7.5io	MBQW15.2C
17~90	108~54	10io	
13~75	136~68	13io	
10~60	168~84	16io	

输出转速 Output speed r/min	输出扭矩 Output torque N·m	传动比 Ratio i	机型号 Type Type
0.18KW			
170~1000	2.8~1.4	Io=1.45~8.5	MBQ■02
0.25KW			
170~1000	3.8~1.9	io=1.45~8.5	MBQ■04
23~125	25~12	2.5io	MBQ■04.2T
17~90	33~17	10io	
13~75	43~22	13io	
10~60	54~27	16io	
8~50	67~34	20io	
0.37KW			
170~1000	6~3	io=1.45~8.5	MBQ■04
23~125	40~20	7.5io	MBQ■04.2T
17~90	56~28	10io	
13~75	68~34	13io	
10~60	84~42	16io	
8~50	106~53	20io	
0.55KW			
170~1000	12~16	io=1.45~8.5	MBQ■07
23~125	80~40	7.5io	MBQ■07.2T
17~90	108~54	10io	
13~75	136~68	13io	
10~60	168~84	16io	
0.75KW			
170~1000	12~16	io=1.45~8.5	MBQ■07
23~125	80~40	7.5io	MBQ■07.2T
17~90	108~54	10io	
13~75	136~68	13io	
10~60	168~84	16io	
1.1KW			
170~1000	18~9	io=1.45~8.5	MBQ■15
23~125	120~60	7.5io	MBQ■15.2T
17~90	160~80	10io	
13~75	200~100	13io	
10~60	250~125	16io	
1.5KW			
170~1000	24~12	io=1.45~8.5	MBQ■15
23~125	160~80	7.5io	MBQ■15.2T
17~75	218~108	10io	
13~75	270~135	13io	
10~60	334~167	16io	

输出转速 Output speed r/min	输出扭矩 Output torque N·m	传动比 Ratio i	机型号 Type Type

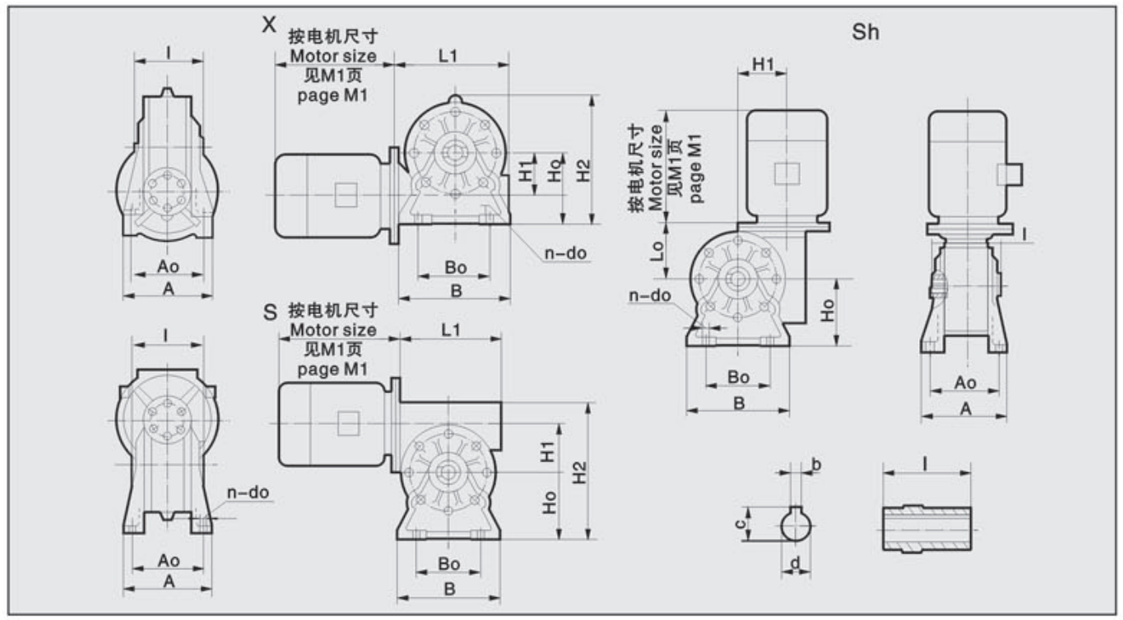
输出转速 Output speed r/min	输出扭矩 Output torque N m	传动比 Ratio i	机型号 Type Type
0.18kW			
15~75	26~13	14io	W41（※）MB02
11~55	34~17	18io	
7~35	42~21	26io	
5~25	50~28	36io	
0.37kW			
15~75	50~28	14io	W41（※）MB02
11~55	50~36	18io	
7~35	50~44	26io	
14~70	58~29	15io	W61（※）MB04
10~50	64~32	19io	
5~25	90~60	37io	
4~20	90~60	49io	
0.55kW			
14~70	88~44	15io	W61（※）MB07
10~50	90~48	19io	
25~125	52~26	8io	W81（※）MB07
13~65	92~46	15io	
10~50	120~60	19io	
8~40	140~70	23io	
5~25	220~110	40io	
0.75kW			
14~70	90~60	15io	W61（※）MB07
10~50	90~66	19io	
25~125	70~25	8io	W81（※）MB07
13~65	126~63	15io	
10~50	162~63	19io	
8~40	192~96	23io	
5~25	245~142	40io	
28~140	62~31	7io	W91（※）MB07
14~70	124~62	14io	
10~50	171~85	20io	
9~45	190~95	22io	
5~25	300~150	39io	
1.1KW			
25~125	104~52	8io	W81（※）MB15
13~65	176~88	15io	
10~50	226~113	19io	
8~40	245~134	23io	
5~25	245~210	40io	
28~140	9~46	7io	W91（※）MB15
14~70	182~91	14io	
10~50	250~125	20io	
9~45	280~140	22io	
5~25	420~210	39io	

输出转速 Output speed r/min	输出扭矩 Output torque N m	传动比 Ratio i	机型号 Type Type
1.5KW			
25~125	142~71	8io	W81（※）MB15
13~65	240~120	15io	
10~50	245~154	19io	
8~40	245~182	23io	
5~25	245	40io	
28~140	124~60	7io	W91（※）MB15
14~70	248~124	14io	
10~50	324~162	20io	
9~45	360~180	22io	
5~25	500~285	39io	
2.2KW			
28~140	182~91	7io	W91（※）MB22
14~70	345~173	14io	
10~50	500~238	20io	
9~45	500~266	22io	
3KW			
28~140	124~248	7io	W91（※）MB40
14~70	249~498	14io	
10~50	342~500	20io	
4KW			
28~140	312~156	7io	W91（※）MB40
14~70	500~134	14io	



Y–W（pd、pc）蜗杆减速机组合外形及安装尺寸
Dimensions sheets for Y–W（pd、pc） worm gear reductor combining

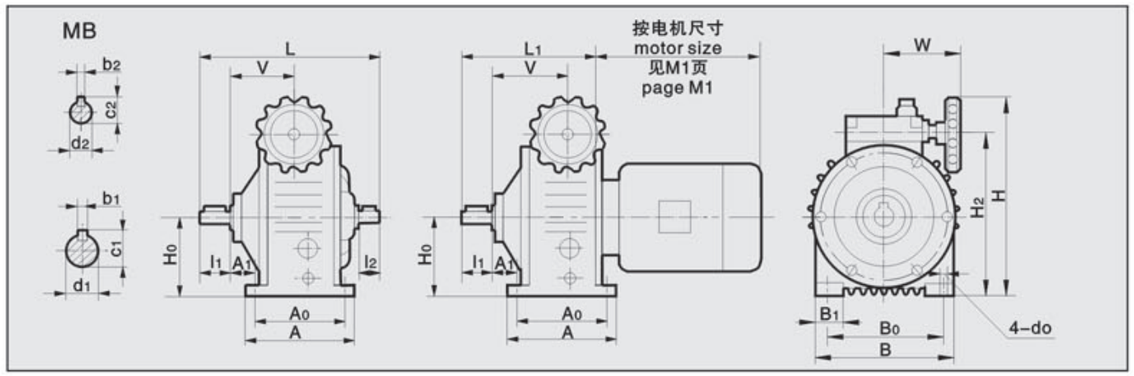
型号 Model	安装尺寸 Installation dimensions							输出轴 Output shaft				外形尺寸 Overall dimensions			
	D1	D2	R	S Pd	S Pc	n	d0	d	b	c	l	H1	H2	D	L1
W41	105	70H8	3.5	–	44	4	9	25H7	8	28.3	82	49	125	125	129
W61	150	115H8	3.5	26	57	4	11	25H7	8	28.3	120	63	125	180	175
W81	180	152H8	4	40.5	80	4	13	35H7	10	38.3	140	86	185	210	235
W91	230	170H8	5	54	102	4	13	42H7	12	45.3	155	110	145	280	286



Y–W（x、s、sh）蜗杆减速机组合外形及安装尺寸
Dimensions sheets for Y–W（x、s、sh） worm gear reductor combining

型号 Model	中心高 Center height Ho	安装尺寸 Installation dimensions				输出轴 Output shaft				外形尺寸 Overall dimensions						
		Ao	Bo	n	do	d	b	c	l	A	B	H1	H2 X	H2 S	Lo	L1
W41	82	98	64	4	9	25H7	8	28.3	82	124	110	49	138	162	65	129
W61	100	115	95	4	11	25H7	8	28.3	120	140	140	63	176	200	89	175
W81	142	146	140	4	13	35H7	10	38.3	140	182	200	86	248	280	119	235
W91	170	181	200	4	13	42H7	12	45.3	155	220	270	110	335	295	145	286

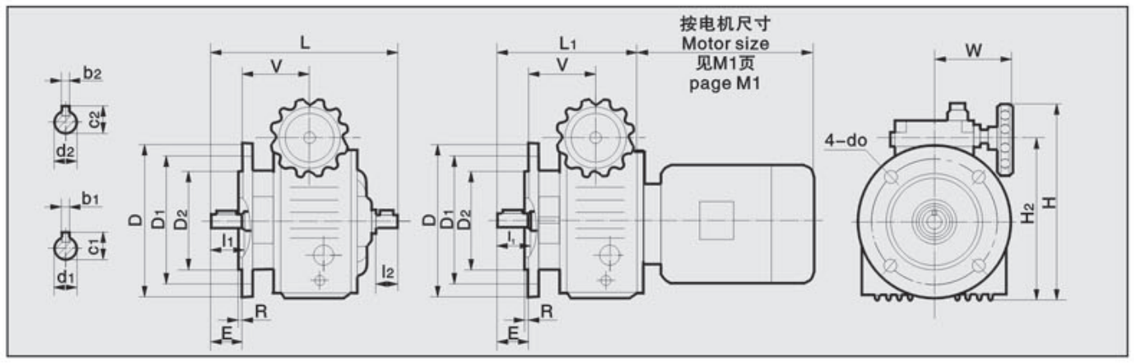
W SERIES



MBW、MBW-Y卧式外形及安装尺寸
Dimension sheets for MBW, MBW- Y

型号 Model	中心高 Center height	安装尺寸 Installation dimensions					输出轴 Output shaft				输入轴 Input shaft				外形尺寸 Overall dimensions							
	H_0	A_0	A_1	B_0	B_1	d_0	d_1	b_1	c_1	l_1	d_2	b_2	c_2	l_2	H_2	H	A	B	V	W	L	L_1
MB02	75	105	18	110	25	9	14js6	5	16	30	14js6	5	16	25	160	210	125	146	69	100	195	130
MBA04	80	105	26	120	32	10	14js6	5	16	30	14js6	5	16	30	169	219	135	150	82	111	221	145
MBA07	106	125	33.5	160	40	12	20js6	6	22.5	40	19js6	6	21.5	30	213	263	150	190	90	128	247.5	182
MBA15	106	125	36	160	40	12	25js6	8	28	40	24js6	8	27	30	213	263	150	190	92	128	254	184
MB22	150	230	25	245	55	14	30js6	8	33	60	24js6	8	27	50	300	355	270	300	135	157	387	268
MB40	150	230	25	245	55	14	30js6	8	33	60	24js6	8	27	50	300	355	270	300	135	157	387	268
MB55	200	250	32	315	70	18	35k6	10	38	70	32k6	10	35	60	392	474	290	365	189	186	427	318
MB75	200	250	32	315	70	18	35k6	10	38	70	32k6	10	35	60	392	474	290	365	189	186	427	318

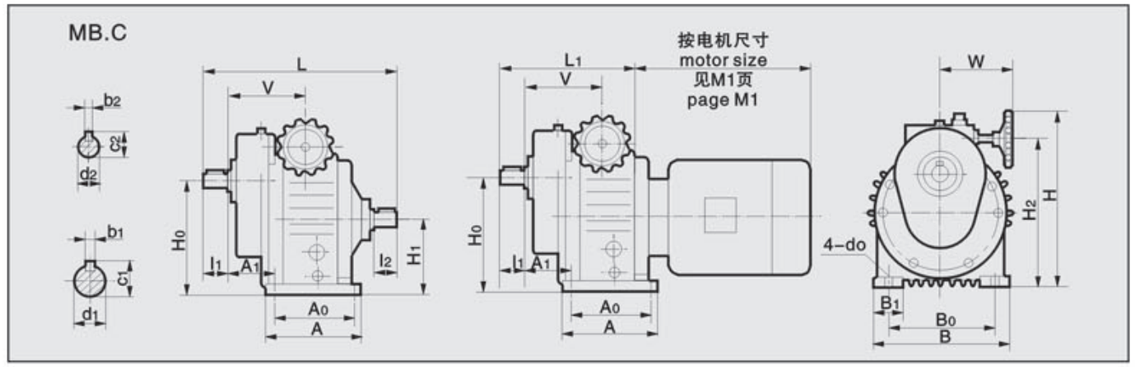
注：带“A”表示改进型。 Note:" A" means to the improvement type.



MBL（F）、MBL-Y法兰式外形及安装尺寸
Dimension sheets for MBL（F）、MBL-Y

型号 Model	安装尺寸 Installation dimensions					输出轴 Output shaft				输入轴 Input shaft				外形尺寸 Overall dimensions						
	D_1	D_2	E	R	d_0	d_1	b_1	c_1	l_1	d_2	b_2	c_2	l_2	H_2	H	V	W	D	L	L_1
MB02	130	110h9	30	3.5	10	14js6	5	16	30	14js6	5	16	25	154	200	66	100	160	190	127
MBA04	165	130h9	30	3.5	12	14js6	5	16	30	14js6	5	16	30	166	216	80	111	200	217	143
MBA07	165	130h9	40	4	12	20js6	6	22.5	40	19js6	6	21.5	30	208	258	88	128	200	241	182
MBA15	165	130h9	40	4	12	25js6	8	28	40	24js6	8	27	30	208	258	90	128	200	254	184
MB22	265	230h9	60	4	15	30js6	8	33	60	24js6	8	27	50	295	345	135	157	300	385	268
MB40	265	230h9	60	4	15	30js6	8	33	60	24js6	8	27	50	295	345	135	157	300	385	268
MB55	300	250h9	70	5	19	35k6	10	38	70	32k6	10	35	60	382	464	198	186	350	427	318
MB75	300	250h9	70	5	19	35k6	10	38	70	32k6	10	35	60	382	464	198	186	350	427	318

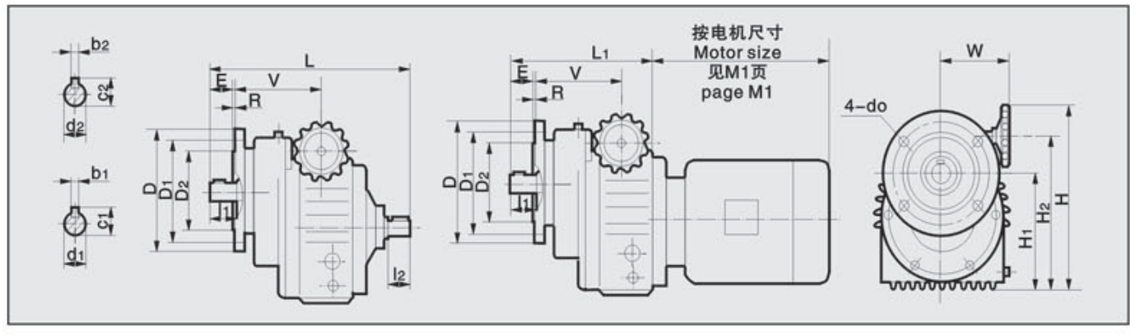
注：带“A”表示改进型。 Note:" A" means to the improvement type.



MBW.C、MBW.C-Y齿轮减速机组合外形及安装尺寸
Dimension sheets for MBW.C、MBW.C-Y helical gear reductor

型号 Model	中心高 Center height	安装尺寸 mounting dimensions					输出轴 Output shaft				输入轴 Input shaft				外形尺寸 Overall dimensions									
	H_0	A_0	A_1	B_0	B_1	d_0	d_1	b_1	c_1	l_1	d_2	b_2	c_2	l_2	H_1	H_2	H	A	B	V	W	L	L_1
MB02.C	120	105	57	110	25	9	20js6	6	22.5	30	14js6	5	16	25	75	160	210	125	140	108	100	230	169
MBA04.C	125	105	59.5	120	32	10	20js6	6	22.5	30	14js6	5	16	30	80	169	219	135	150	112	111	248	176
MBA07.C	166	125	67.5	160	40	12	28js6	8	31	35	19js6	6	21.5	30	106	213	263	150	190	122	128	276	211
MB15.C	190	140	78	180	50	12	30js6	8	33	45	24js6	8	27	40	125	246	296	165	230	135	147	337	246
MB22.C	230	230	63	245	55	14	40k6	12	43	60	24js6	8	27	50	150	300	350	270	300	174	157	425	306
MB40.C	230	230	63	245	55	14	40k6	12	43	60	24js6	8	27	50	150	300	350	270	300	174	157	425	306
MB55.C	320	250	159	315	70	18	50k6	14	53.5	82	32k6	10	35	60	200	392	474	290	365	313	186	566	457
MB75.C	320	250	159	315	70	18	50k6	14	53.5	82	32k6	10	35	60	200	392	474	290	365	313	186	566	457

注：带“A”表示改进型。 Note:" A" means to the improvement type.

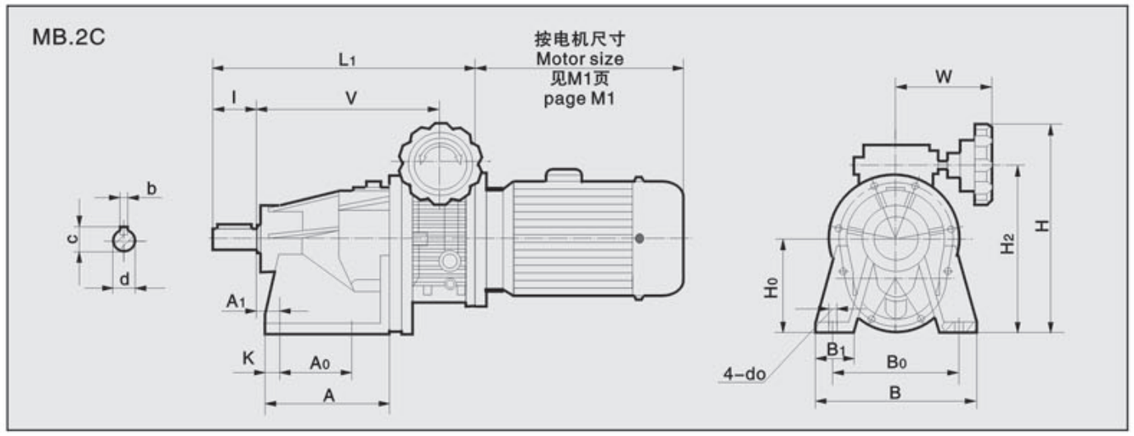


MBL.C、MBL.C-Y齿轮减速机组合外形及安装尺寸
Dimension sheets for MBL.C、MBL.C-Y helical gear reductor

型号 Model	安装尺寸 Imounting dimensions					输出轴 Output shaft				输入轴 Input shaft				外形尺寸 Overall dimensions								
	D_1	D_2	E	R	d_0	d_1	b_1	c_1	l_1	d_2	b_2	c_2	l_2	H_1	H_2	H	D	V	W	L	L_1
MB02.C	130	110	30	3.5	10	20js6	6	22.5	30	14js6	5	16	25	120	154	204	160	134	100	260	195
MBA04.C	130	110	30	3.5	10	20js6	6	22.5	30	14js6	5	16	30	125	169	219	160	135	111	277	201
MBA07.C	165	130	37	3.5	12	28js6	8	31	35	19js6	6	21.5	30	166	208	258	200	151	128	305	242
MB15.C	165	130	45	4	12	30js6	8	33	45	24js6	8	27	40	186	242	292	200	155	144	357	266
MB22.C	215	180	60	4	15	40k6	12	43	60	24js6	8	27	50	225	295	345	250	208	157	460	337
MB40.C	215	180	60	4	15	40k6	12	43	60	24js6	8	27	50	225	295	345	250	208	157	460	337
MB55.C	265	230	87	5	15	50k6	14	53.5	82	32k6	10	35	60	320	382	460	300	320	186	566	457
MB75.C	265	230	87	5	15	50k6	14	53.5	82	32k6	10	35	60	320	382	460	300	320	186	566	457

注：带“A”表示改进型。 Note:" A" means to the improvement type.

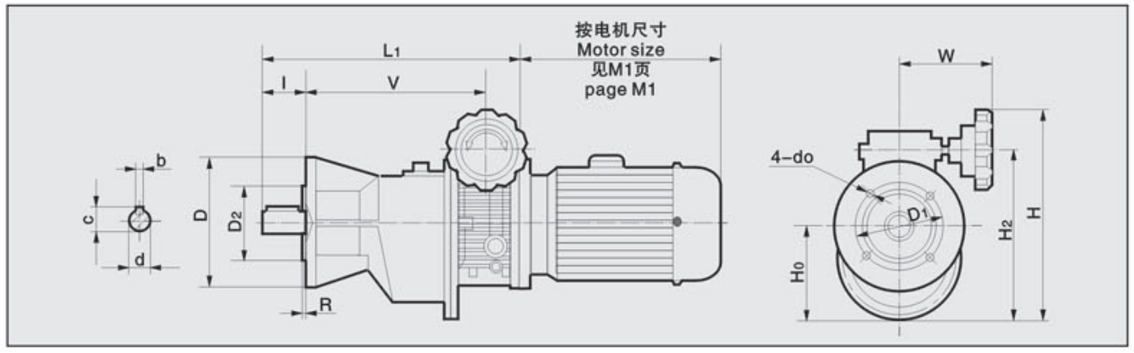
MB.2C



MBW.2C–Y二级齿轮减速机组合外形及安装尺寸
Dimension sheets for MBW.2C–Y helical gear reductor

型号 Model	中心高 Center height H0	安装尺寸 Installation dimensions						输出轴 Output shaft				外形尺寸 Overall dimensions						
		A0	A1	K	B0	B1	D0	d	b	c	l	H2	H	A	B	V	W	L1
MBA04.2C	116	85	25	18	150	45	10	28js6	8	31	55	205	255	140	190	215	111	304
MBA07.2C	135	90	35	21	185	51	12	32js6	10	35	65	242	292	150	230	219	128	349
MB15.2C	170	130	15	25	200	60	14	38k6	10	41	70	291	341	200	250	267	147	403
MB22.2C	235	180	43	34	250	76	18	55m6	16	59	110	385	435	271	320	375	157	560
MB40.2C	235	180	43	34	250	76	18	55m6	16	59	110	385	435	271	320	375	157	560
MB55.2C	280	250	48	38	300	98	21	70m6	20	74.5	140	472	554	328	380	392	186	694
MB75.2C	280	250	48	38	300	98	21	70m6	20	74.5	140	472	554	328	380	392	186	694

注：带“A”表示改进型。 Note:" A" means to the improvement type.

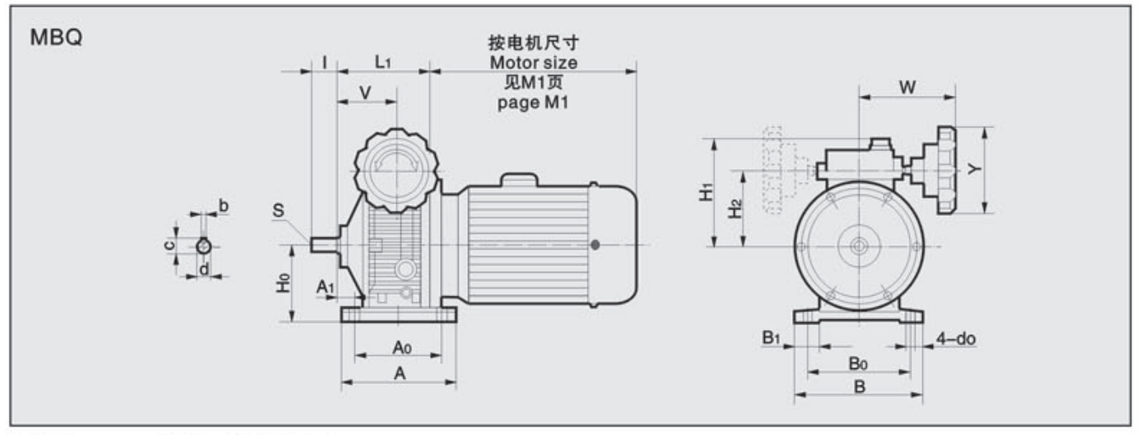


MBL（F）.2C–Y二级齿轮减速机组合外形及安装尺寸
Dimension sheets for MBL(F).2C–Y helical gear reductor

型号 Model	安装尺寸 Installation dimensions				输出轴 Output shaft				外形尺寸 Overall dimensions						
	D1	D2	R	d0	d	b	c	l	H2	H	H0	D	V	W	L1
MBA04.2C	130	110	4	10	28js6	8	31	55	203	253	113	160	221	111	315
MBA07.2C	165	130	4	12	32js6	10	35	65	239	289	132	200	220	128	349
MB15.2C	215	180	5	14	38k6	10	41	70	288	338	167	250	267	147	403
MB22.2C	265	230	5	14	55m6	16	59	110	382	432	232	300	375	157	560
MB40.2C	265	230	5	14	55m6	16	59	110	382	432	232	300	375	157	560
MB55.2C	300	250	5	18	70m6	20	74.5	140	458	508	266	350	392	186	694
MB75.2C	300	250	5	18	70m6	20	74.5	140	458	508	266	350	392	186	694

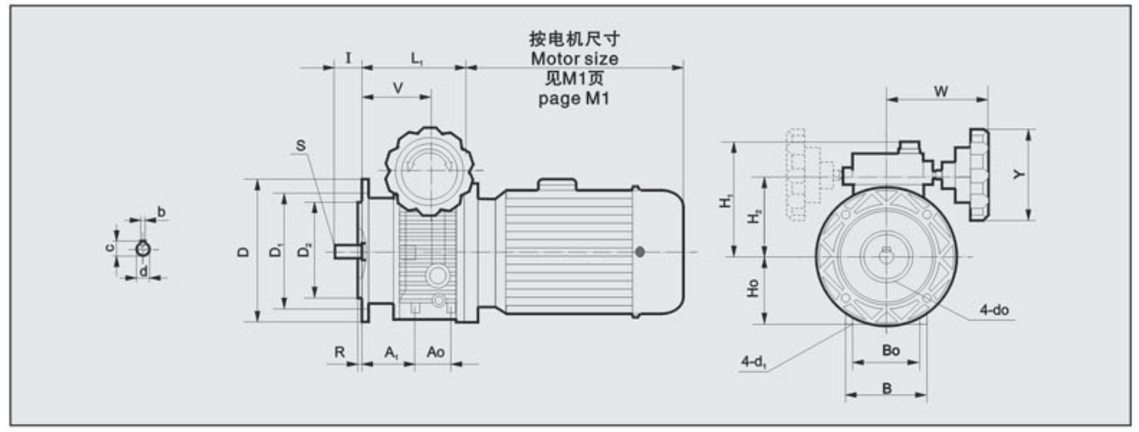
注：带“A”表示改进型。 Note:" A" means to the improvement type.

MBQ



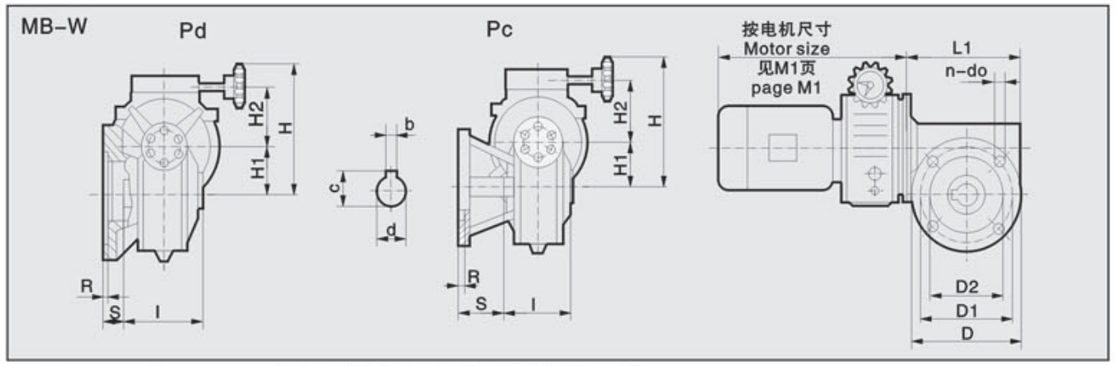
特轻型MBQW–Y卧式外形及安装尺寸
Dimension sheets for MBQW–Y helical gear reductor

型号 Model	中心高 Center height H0	安装尺寸 Installation dimensions						输出轴 Output shaft				外形尺寸 Overall dimensions							
		A0	A1	B0	B1	S	d0	d	b	c	l	H1	H2	A	B	V	W	Y	L1
MBQ02	70	105	18	110	22	–	9	11js6	4	12.5	23	110	77	120	145	64	111	100	113
MBQ04	90	105	20	120	30	M6	10	14js6	5	16	30	122	90	135	150	70	111	100	109
MBQ07	106	125	23.5	160	28	M8	10	20js6	6	22.5	40	140	107	150	190	86	128	100	140
MBQ15	106	125	23.5	160	28	M8	10	25js6	8	28	50	145	107	150	190	86	128	100	140



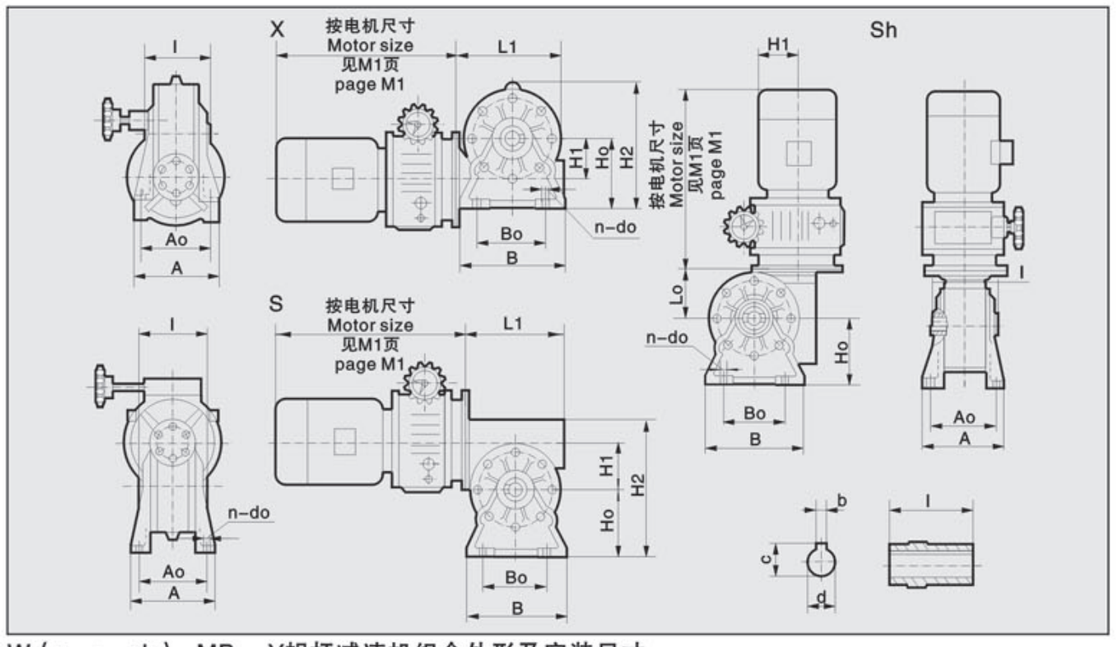
特轻型MBQL（F）–Y立式（法兰式）外形及安装尺寸
Dimension sheets for MBQL(F)–Y helical gear reductor

型号 Model	中心高 Center height H0	安装尺寸 Installation dimensions									输出轴 Output shaft				外形尺寸 Overall dimensions							
		A0	A1	B0	R	S	d0	d1	D1	D2	d	b	c	l	H1	H2	D	B	V	W	Y	L1
MBQ02	70	50	46	60	3.5	–	9	M6	115	95	11js6	4	12.5	23	110	77	140	72	64	111	100	113
MBQ04	77	40	53	77	4	M6	9	M8	130	110	14js6	5	16	30	122	90	160	92	70	111	100	109
MBQ07	93	58	57	84	4	M8	11	M8	165	130	20js6	6	22.5	40	140	107	200	98	86	128	100	140
MBQ15	93	58	57	94	4	M8	11	M8	165	130	25js6	8	28	50	145	107	200	98	86	128	100	140



W (pd、pc) ..MB..-Y蜗杆减速机组合外形及安装尺寸
Dimensions sheets for W (pd、pc) ..MB..-Y worm gear reductor combining

型号 Model	安装尺寸 Installation dimensions							输出轴 Output shaft				外形尺寸 Overall dimensions				
	D1	D2	R	S Pd	S Pc	n	d0	d	b	c	l	H1	H2	H	D	L1
W41MB	105	70H8	3.5	–	44	4	9	25H7	8	28.3	82	49	128	227	125	129
W61MB	150	115H8	3.5	26	57	4	11	25H7	8	28.3	120	63	128	241	180	175
W81MB	180	152H8	4	40.5	80	4	13	35H7	10	38.3	140	86	188	324	210	235
W91MB	230	170H8	5	54	102	4	13	42H7	12	45.3	155	110	150	310	280	286



W (x、s、sh) ..MB..-Y蜗杆减速机组合外形及安装尺寸
Dimensions sheets for W (x、s、sh) ..MB..-Y worm gear reductor combining

型号 Model	中心高 Center height H0	安装尺寸 Installation dimensions				输出轴 Output shaft				外形尺寸 Overall dimensions						
		A0	B0	n	d0	d	b	c	l	A	B	H1	H2 X	H2 S	L0	L1
W41MB	82	98	64	4	9	25H7	8	28.3	82	124	110	49	138	162	65	129
W61MB	100	115	95	4	11	25H7	8	28.3	120	140	140	63	176	200	89	175
W81MB	142	146	140	4	13	35H7	10	38.3	140	182	200	86	248	280	119	235
W91MB	170	181	200	4	13	42H7	12	45.3	155	220	270	110	335	295	145	286

NMRV蜗轮减速机及其与无级变速机组合
NMRV worm reductor and it's combined with variable speed machine

一、概述 Summary

本公司研制的NMRV系列蜗轮减速机外型采用“方箱形”结构，机箱用优质铝合金压铸而成，具有外形美观，体 积小、重量轻、散热快、安装方式多样、效率高、输出扭矩大、传动平稳、噪音小，传动比大等特点。
NMRV 蜗轮减速机可与铸铝机箱的无级变速机相组合，实现1：6变 速和较大减速。

The NMRV series worm reductor which is developed and manufactured by our company, adopt "square box" for shape and utilize the high-quality aluminum alloy die-casting processing for machine box. It is provided with beautiful appearence, little bulk, light weight, radiate swiftly, mounting multiplicity, high efficiency, tremendous output torque, balanced transmission, low noise and large transmission etc.

The NMRV worm gear reductor can be combined with variable speed machine of cast aluminum box, performing 1:6 speed variety and biggest deceleration.

二、场所条件 Working Environment：

1. 环境温度-40℃~50℃。(0℃以下启动时润滑油要加热到0℃以上。)
2. 海拔不超过1000米。
3. 输入转速不大于1800rpm，齿轮最高圆周速度不超过22m/s。
4. 可用于正反运转。
5. 无行业限制。
6. 其他条件下使用请与我公司技术部联系。

1. Working temperature: -40℃~50℃ (The lubrication should be heated until above 0℃ if the machine works below 0℃.)
2. The working place should be lower than 1,000 meters above sea level.
3. The imput rotational speed should not exceed 1,800r/m. The circumferential speed of the gear should not exceed 22m/s.
4. Suitable for normal-reverse rotation.
5. Without industry limitation.
6. Please consult our technical supporting department for other circumstances.

三、选型指南 Instructions for Selection：

圆柱蜗杆减速机总的工况系数f_{AL}的计算方法如下：

$$f_A = f_{AL} \times f_{A1} \times f_{A2}$$

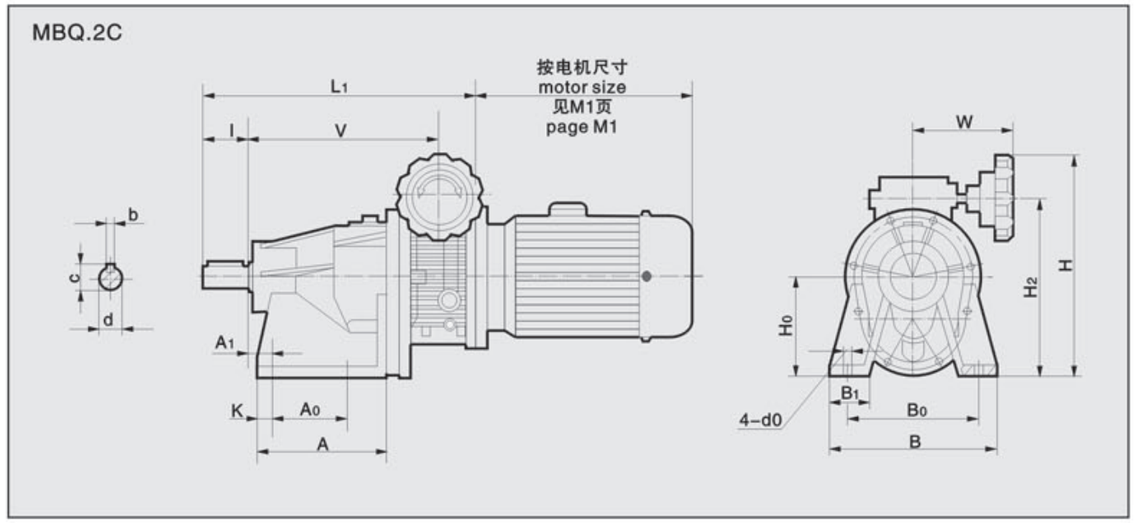
f_{AL} — 载荷特性及每天运行时间系数
f_{A1} — 环境温度系数
f_{A2} — 循环时间系数

The total factor f_A of worm wheel reductor calculated with following formula:

$$f_A = f_{AL} \times f_{A1} \times f_{A2}$$

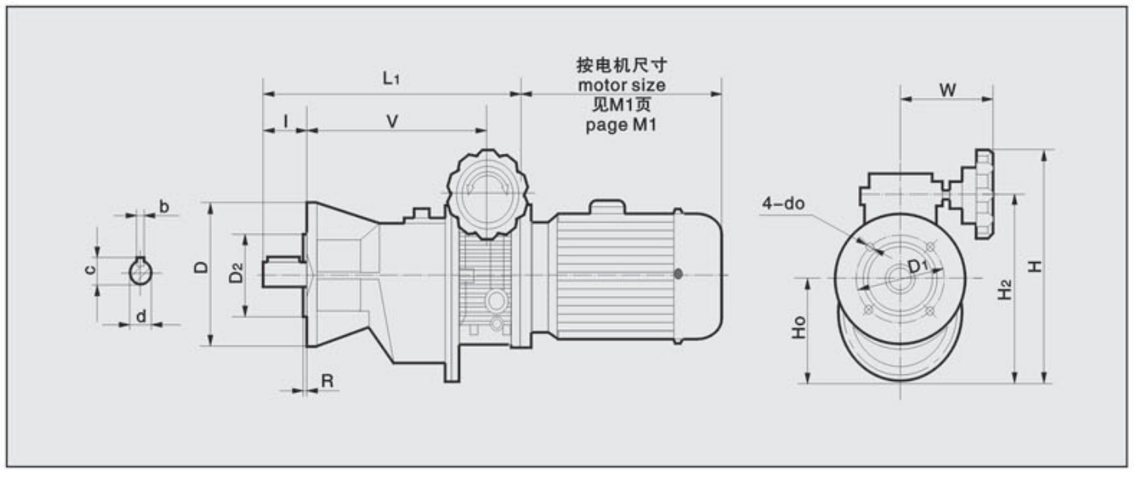
f_{AL} — Load characteristic and daily operating time factor
f_{A1} — Service factor from ambient temperature
f_{A2} — Service factor from cyclic duration factor

MBQ.2C



特轻型 MBQW.2C-Y二级齿轮减速机组合外形及安装尺寸
Dimension sheets for MBQW.2C-Y helical gear reductor

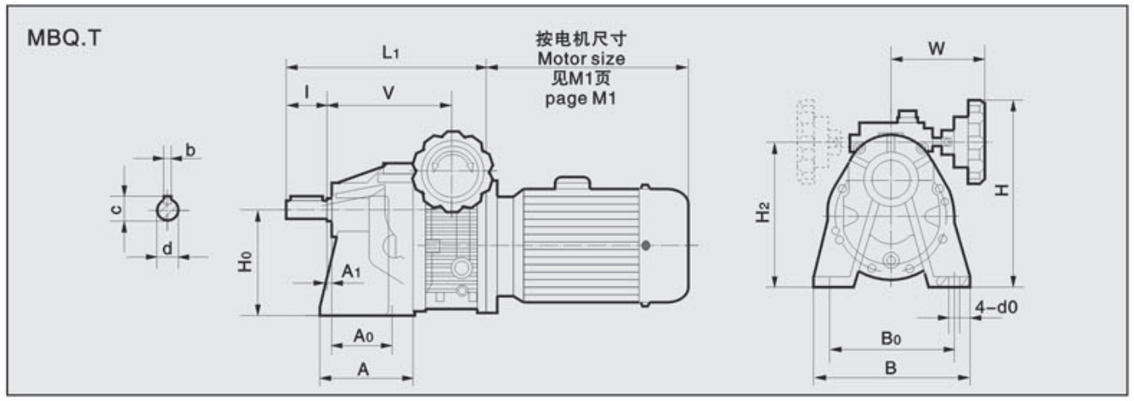
型号 Model	中心高 Center height	安装尺寸 Installation dimensions						输出轴 Output shaft				外形尺寸 Overall dimensions						
	H0	A0	A1	K	B0	B1	d0	d	b	c	l	H2	H	A	B	V	W	L1
MBQ04.2C	116	85	25	18	150	45	10	28js6	8	31	55	206	256	150	190	221	111	315
MBQ07.2C	135	90	35	21	185	51	12	32js6	10	35	65	242	292	150	230	220	128	353.5



特轻型 MBQL（F）.2C-Y二级齿轮减速机组合外形及安装尺寸
Dimension sheets for MBQL(F).2C-Y helical gear reductor

型号 Model	安装尺寸 Installation dimensions				输出轴 Output shaft				外形尺寸 Overall dimensions						
	D2	D2	R	D2	d	b	c	l	H2	H	H0	D	V	W	L1
MBQ04.2C	130	110	4	10	28js6	8	31	55	203	253	113	160	221	111	315
MBQ07.2C	165	130	4	12	32js6	10	35	65	239	289	132	200	220	128	353.5

MBQ.T



特轻型MBQW.T-Y陶瓷机械专用外形及安装尺寸
Dimension sheets for MBQW.T-Y special ceramic reductor

型号 Model	安装尺寸 Installation dimensions					输出轴 Output shaft				外形尺寸 Overall dimensions							
	H0	A0	A1	B0	d0	d	b	c	E	H	H2	A	B	V	W	L1
MBQ04.T	130	70	6	150	12	24js6	8	27	50	258	208	112	190	152	110	241
MBQ07.T	166	70	4	165	12	28js6	8	31	55	263	243	131	210	226	128	279

W系列蜗杆减速机及其与无级变速机组合
W series worm gear reductor and its combine with variable speed machine

概述 Summarize

本公司研制的W系列蜗杆减速机有pd、pc、x、s、sh等五种结构形式可供选择，具有外形美观、体积小、重量轻、散热快、安装方式多样、效率高、输出扭矩大、传动平稳、噪音小、传动比大等特点。

W系列蜗杆减速机可与铸铁机箱的无级变速机组合，实现1：5变速和较大减速。

W series worm reductor is developed and manufactured by our company, there are pd, pc, x, s, sh , etc.five kinds of construction form which can be provided as choice. Shape beauty, miniature, light weight, mounting variety , high efficiency, stable performance, low voice , large output torque, balanced transmission, high transmissionratio and spread heat quickly.

W series worm reductor can combine with cast-iron box of variable speed machine, perform 1:5 speed variety with biggish deceleration.

型号表示法 The expressing method of model:

W 41 pd — Y 0.55 — 4P — 18 — M2 — B — 180°

- 电机接线盒在图示180° 处(见374页)
  The motor connection box is at the position of 180° in the mounting position example.(page 374)
- 输出法兰在图示B向(见374页)
  The output flange is in the direction of B in the example (page 374)
- 安装形式:M2(见374页)
  Mounting position:M2 (page 374)
- 蜗杆减速机传动比:18
  Worm reductor ratio: 18
- 电机极数:4P
  Motor pole:4P
- 电机功率:0.55kW
  Motor power:0.55kW
- Y系列电机
  Motors of Y series
- 结构形式（有pd、pc、x、s、sh）
  Construction form(pd、pc、x、s、sh)
- 蜗杆减速机机型号
  Worm reductor model
- 蜗杆减速机系列代号
  Worm reductor series code number

无级变速机与蜗杆减速机组合：
Variable speed machine combine with worm gear reductor :

W 61 pd MB 07—Y 0.55 -4P-15 -M2 -B-180°-L

- 手轮位置在图示左侧(见359页)
  handwheel is at the left side of the diagram(page 359)
- 电机接线盒在图示180° 处(见374页)
  The motor connection box is at the position of 180° in the mounting postion example(page 374)
- 输出法兰在图示B向(见374页)
  The output flange is at the direction of B in the mounting position example(page 374)
- 安装形式:M2(见374页)
  Mounting position:M2 (page 374)
- 蜗杆减速机传动比:15
  Worm gear reductor ratio:15
- 电机极数:4P
  Motor pole:4P
- 电机功率:0.55kW
  Motor power:0.55kW
- Y系列电机
  Motors of Y series
- 变速机机型号
  Reductor model
- 变速机系列代号
  Reductor series model
- 结构形式（有pd、pc、x、s、sh）
  Construction form(pd、pc、x、s、sh)
- 蜗杆减速机机型号
  Worm reductor model
- 蜗杆减速机系列代号
  Worm reductor series code number

注：1.输入轴型没有电动机的各项内容。
2.无特别说明时Y系列电动机供货按IP54防护等级。
3.不注明安装形式时，按安装形式图(见374页)中M1安装形式供货。
4.不注明接线盒角度时，按安装形式图(见374页)中0度位置供货。
5.Wpd、Wpc型减速机不注明输出法兰方向时，按安装形式图(见374页)中A向供货。
6.不注明无级变速机手轮方向时，按无级变速机手轮位置图(见359页)中R位置供货。

Note:1.The input shaft type is not equipped with any motor.
2.Motor of Y series are supplied with protection grade of IP54 unless otherwise specified.
3.The mounting position of M1 as shown in the mounting position example(page 374) is the default way when supplying unless otherwise specified.
4.0° as shown in the mounting position example(page 374) is the default connection box angle when supplying unless otherwise specified.
5.The direction or A as shown in the mounting position example(page 374) is the default direction of Wpd,Wpc reductor's output flange when supplying unless otherwise specified.
6.The R handwheel position of variable speed machine as shown in handwheel position diagram(page 359) is the default when supplying unless otherwise specified.

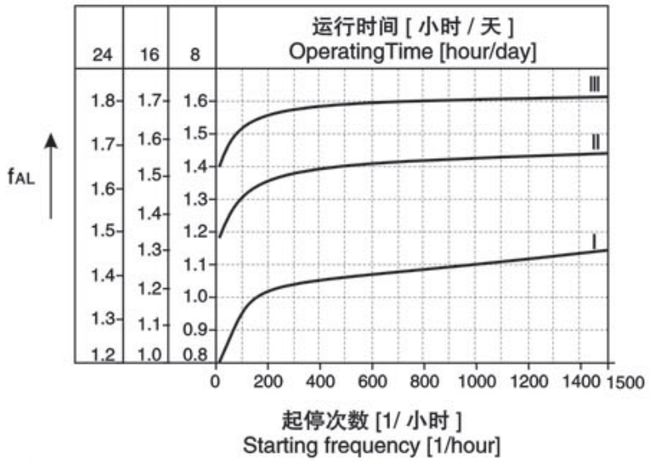
电机类型代号 Codes for Motor Types：

Y系列 Y series	Y	防爆电机 Flame-proof Motor	YB	直流电机 Direct Current Motor	Z
制动电机 Brake Motor	YEJ	辊道电机 Roll Motor	YG	变频电机 Variable Frequency Motor	YVP

W SERIES

在确定载荷特性及每天运行时间系数f_{AL}之前必须先确定一天的运行小时数，每小时的起停次数和负载类型。
其中负载类型按下列公式计算：

The daily operating time,the starting frequency and the load classifications must be determined before deciding the oad characteristic and daily operating time factor f_{AL}. The load classifications is calculated with the following formula:



负载类型 Load classification

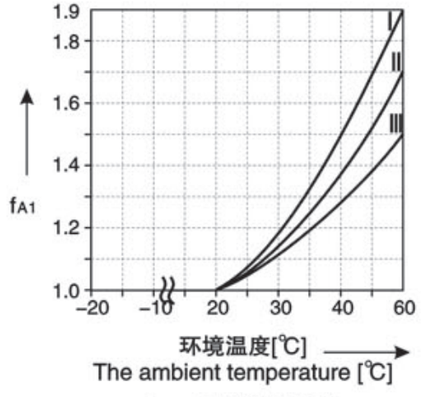
Ⅰ均匀负载，惯性加速系数≤0.2	Uniform load, mass acceleration factor≤0.2
Ⅱ中等冲击负载，惯性加速系数≤3	Medium Impact load, mass acceleration factor≤3
Ⅲ强烈冲击负载，惯性加速系数≤10	Heavy shock load, mass acceleration factor≤10

如果惯性加速系数＞10，请与我公司技术部联系。

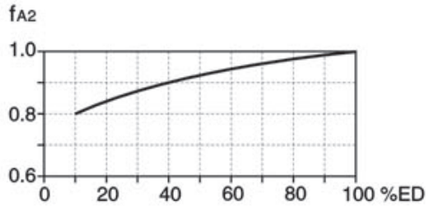
$$\text{惯性加速系数} = \frac{\text{所有外部转动惯量}}{\text{驱动电机的转动惯量}}$$

Please contact our technical supporting department in case the mass acceleration factor>10.

$$\text{Mass acceleration factor} = \frac{\text{All external mass moments of Inertia}}{\text{Mass moment of inertia on the motor end}}$$



f_{A1}--环境温度系数
f_{A1}--Service factor from ambient temperature



$$ED(\%) = \frac{\text{每小时工作分钟数 Time under load in min/h}}{60} \times 100$$

f_{A2}--循环时间系数
f_{A2}--Service factor from cyclic duration factor

总工况系数f_A必须满足下式：使用系数f_B≥总工况系数f_A
使用系数f_B已在后面的选型参数表中列出。

允许的轴伸径向载荷及轴向载荷

输出轴端允许的径向载荷及轴向载荷资料，请与我公司技术部联系。
减速机的使用与维护请参阅随机附带的《减・变速机使用说明书》。

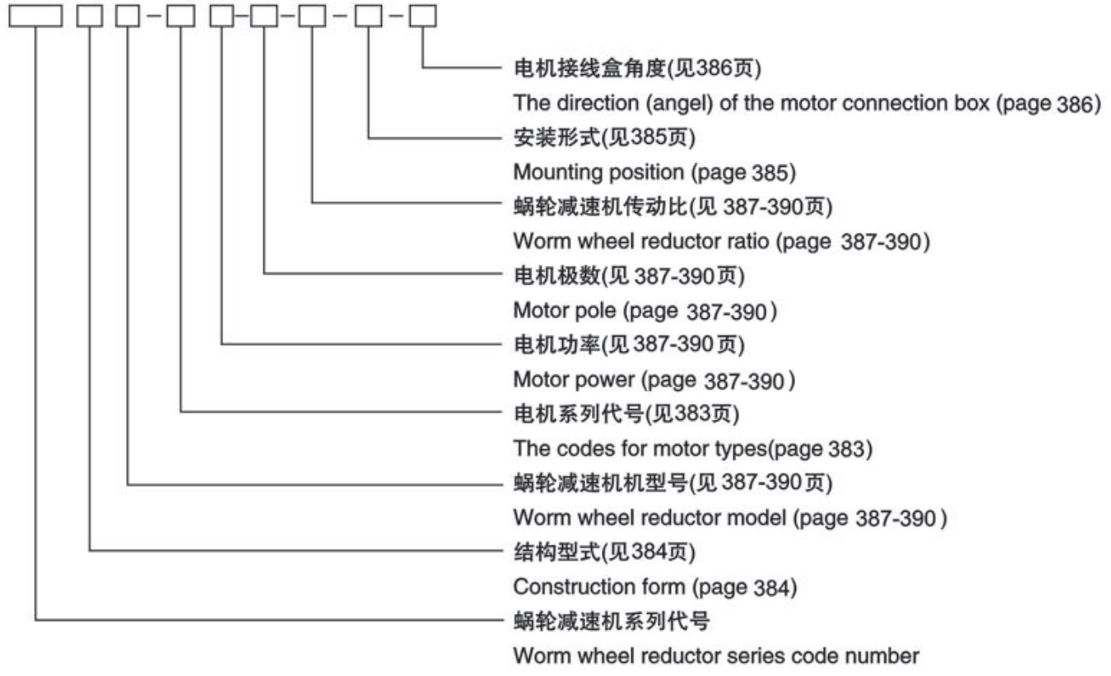
The total operating mode factor f_A should meet the following formula:

Service factor f_B ≥operating mode factor f_A

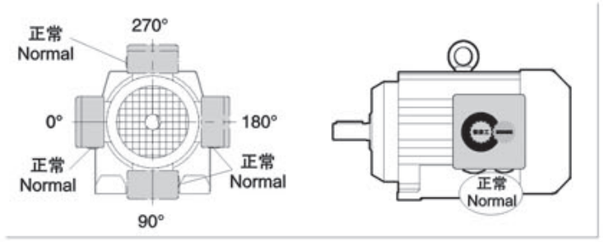
The service factor f_B is listed in the parameter selection list.
The permitted overhung loads and the axial forces.
Please contact our technical supporting department for the information on the permitted overhung loads and the axial forces at the end of the output shaft.
Regarding the use and maintenance of the reductor, please refer to the attached《Instruction Manual of the Reductor and the Variable Speed Motor》.

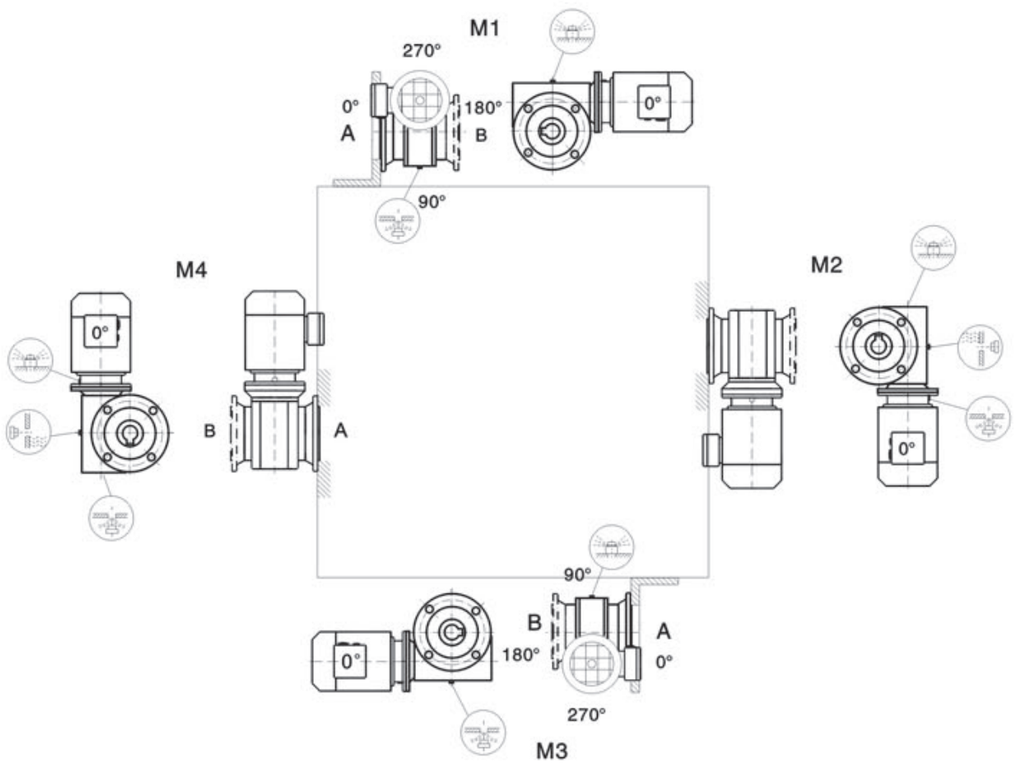
四、型号说明

1、电机直联NMRV蜗轮减速机



W41p.–W91p./W41p.MB..–W91p.MB..安装形式图
W41p.–W91p./W41p.MB..–W91p.MB..Mounting position example





输出转速 Output speed r/min	输出扭矩 Output torque N·m	传动比 Ratio i	机型号 Type Type
0.25kW			
103	17	13.5	W41（※）
77	20	18	
53	25	26	
38	32	36	
0.37kW			
103	25	13.5	W41（※）
77	29	18	
53	36	26	
38	50	36	
96	26	435	w61（※）
73	29	19	
37	55	37	
28	68	49	
0.55kW			
103	36	13.5	W41（※）
77	42	18	
53	50	26	
96	39	14.5	
73	43	19	w61（※）
37	78	37	
28	85	49	
175	23	8	w81（※）
96	42	14.5	
73	53	19	
60	63	23	
35	98	40	
0.75kW			
96	50	14.5	W61（※）
73	59	19	
175	31	8	
96	57	14.5	
73	73	19	w81（※）
60	86	23	
35	134	40	
200	28	7	w91（※）
100	55	14	
71	117	19.5	
63	85	22	
35	135	39	
1.1kW			
96	70	1435	W61（※）
73	87	19	
175	46	8	
96	83	14.5	
73	106	19	w81（※）
60	126	23	
35	187	40	
200	40	7	w91（※）
100	81	14	
71	112	19.5	
63	125	22	
35	197	39	

输出转速 Output speed r/min	输出扭矩 Output torque N·m	传动比 Ratio i	机型号 Type Type
1.5kW			
175	63	8	W81（※）
96	114	14.5	
73	137	19	
60	163	23	
35	245	40	
200	56	7	w91（※）
100	111	14	
71	153	19.5	
63	170	22	
35	255	39	
2.2kW			
175	91	8	W81（※）
96	163	14.5	
73	202	19	
60	245	23	
200	81	7	
100	163	14	w91（※）
71	220	19.5	
63	245	22	
35	386	39	
3kW			
175	126	8	W81（※）
96	227	14.5	
200	111	7	w91（※）
100	222	14	
71	305	19.5	
63	340	22	
35	500	39	
4kW			
175	166	8	W81（※）
96	245	14.5	
200	148	7	w91（※）
100	280	14	
71	380	19.5	
6335	445	22	

W SERIES

示例1 NMRV F2 75 — Y 1.1 — 4P — 20 — B3 — 270°

- 电机接线盒270°
  The motor connecting box is at the position of 270°
- B3安装形式
  B3 mounting position
- 蜗轮减速机传动比
  Worm wheel reductor ratio
- 电机极数:4P
  Motor pole:4P
- 所配电机功率为1.1kW
  Motor power 1.1kW
- Y系列电机
  Motors of Y series
- 蜗轮减速机机型号为75机型
  worm wheel reductor model : 75
- 结构型式为法兰式空心轴输出
  Structure mounting for flange–mounted hollow output
- 蜗轮减速机系列代号
  Worm wheel reductor series code number

2、无级变速机与NMRV蜗轮减速机相组合
2、Variable speed machine combine with NMRV worm wheel reductor

□ □ □ □ □ □ □ □ □ □ □ □

- 变速机手轮位置(见359页)
  Handwheel position diagram (page 359)
- 电机接线盒角度(见386页)
  The direction (angle) of motor connection box (page 386)
- 安装形式(见386页)
  Mounting position (page 386)
- 蜗轮减速机传动比(见387-390页)
  Worm wheel reductor ratio (page 387-390)
- 电机极数(见387-390页)
  Motor pole (page 387-390)
- 电机功率(见387-390页)
  Motor power (page 387-390)
- 电机类型代号(见383页)
  The codes for motor types (page 383)
- 无级变速机机型号(见387-390页)
  Variable speed machine types(page 387-390)
- 无级变速机系列代号
  Variable speed machine series code
- 蜗轮减速机机型号(见387-390页)
  Worm wheel reductor model (page 387-390)
- 结构型式(见385页)
  Construction form (page 385)
- 蜗轮减速机系列代号
  Worm wheel reductor series code number

示例2 Give a demonstration 2

NMRV TA 90 MBQ 15–Y 1.5–4P–40–B8–180°–L

- 手轮位置图示左侧
  Handwheel is at the left side of the diagram
- 电机接线盒180° 放置
  The motor connecting box is at the position of 180°
- B8安装形式
  Mounting position B8
- 蜗轮减速机传动比：40
  Worm wheel reductor ratio：40
- 电机极数：4P
  Motor pole：4P
- 所配电机为1.5kW
  Motor power: 1.5 kW
- Y系列电机
  Motors of Y series
- 无级变速机机型号
  Variable speed machine types
- 无级变速机系列代号
  Variable speed machine series codes
- 蜗轮减速机型号为90机型
  Worm wheel reductor model for 90
- 加装防转臂
  Additional install torque–arm
- 蜗轮减速机系列代号
  Worm wheel reductor series code number

注：1.输入轴型没有电动机的各项内容。
2.无特别说明时Y系列电动机供货按IP54防护等级。
3.不注明接线盒角度时，按安装形式图(见 386 页)中270度位置供货。
4.不注明手轮角度时，按手轮位置图(见359页)中R位置供货。

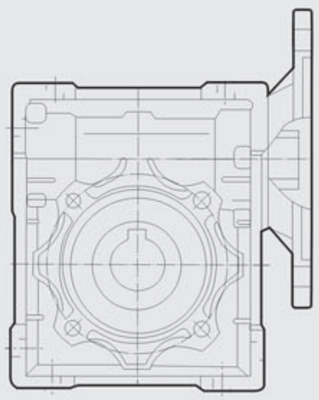
Note:1.The input–shaft style is not equipped with any motor
2.Motors of Y series are supplied with protection grade of IP54 unless otherwise specified.
3.The mounting position of M1 as shown in the mounting position example (Page 386) is the default way when supplying unless otherwise specified.
4.The R handwheel position of variable speed machine as shown in handwheel position diagram(page 359) is the default when supplying unless otherwise specified.

电机类型代号 Codes for Motor Types：

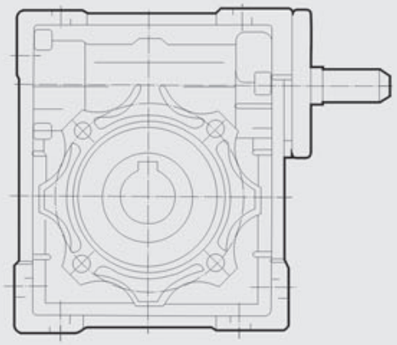
Y系列 Y series	Y	防爆电机 Flame–proof Motor	YB	直流电机 Direct Current Motor	Z
制动电机 Brake Motor	YEJ	辊道电机 Roll Motor	YG	变频电机 Variable Frequency Motor	YVP

NMRV及NRV结构型式
Construction form of NMRV or NRV

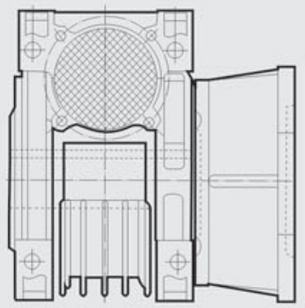
NMRV



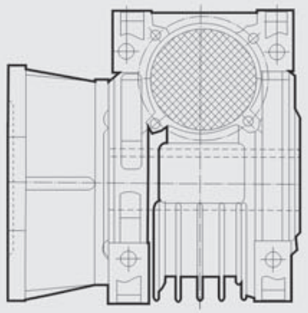
NRV



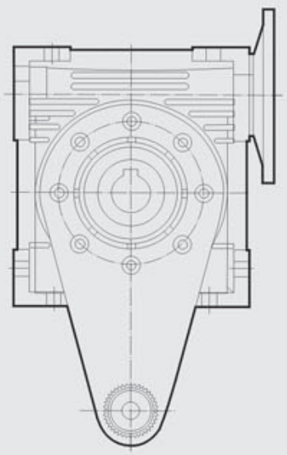
F1



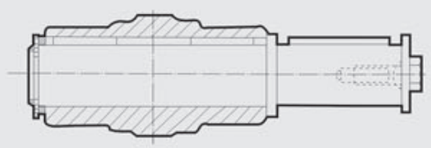
F2



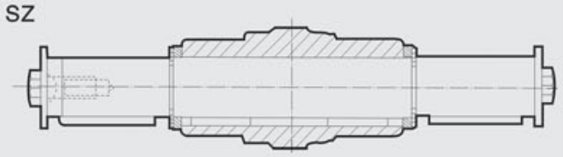
TA



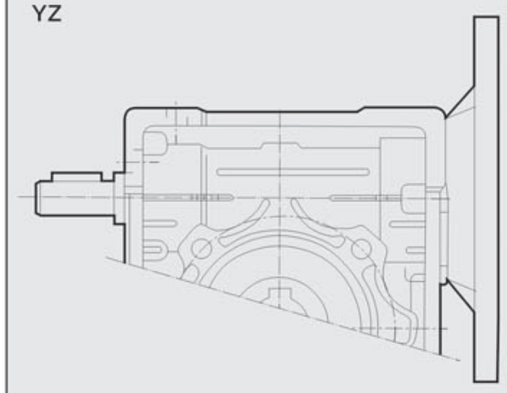
DZ



SZ

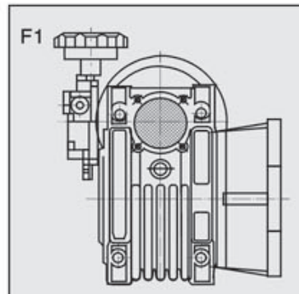


YZ

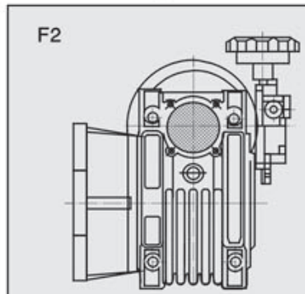


NMRV与无级变速机组合结构形式
Construction form of NMRV combineing with variable speed machine

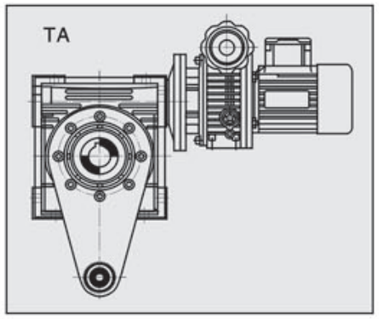
F1



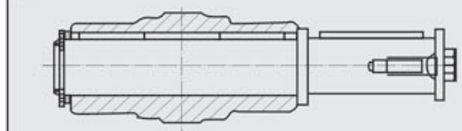
F2



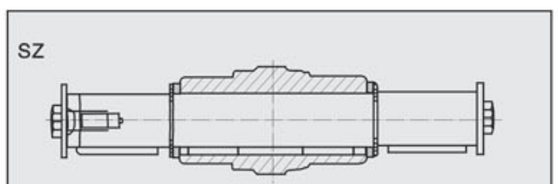
TA



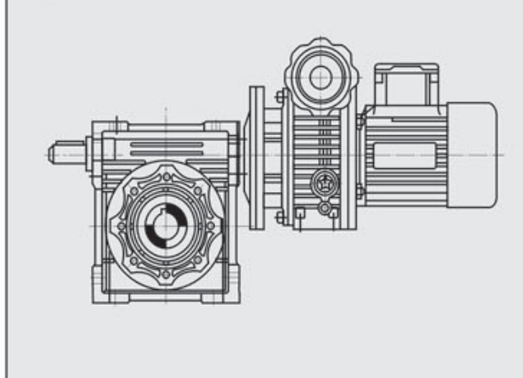
DZ



SZ

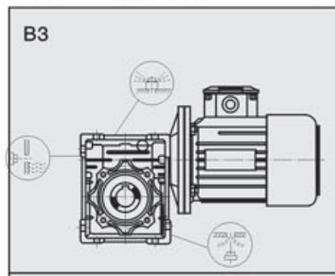


YZ

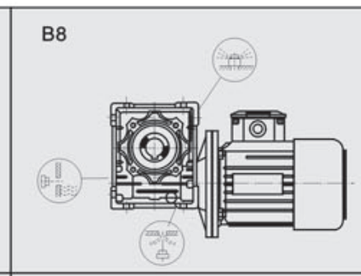


NMRV安装形式
Mounting position of NMRV

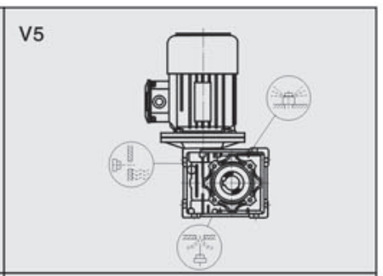
B3



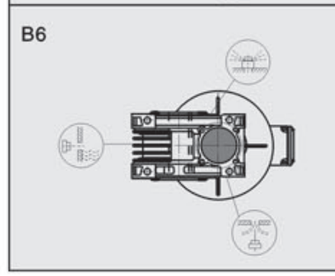
B8



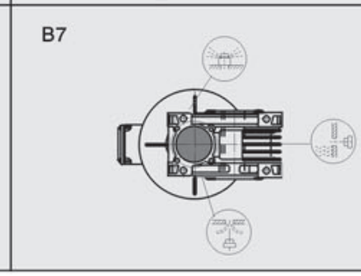
V5



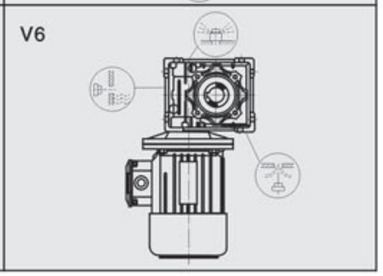
B6



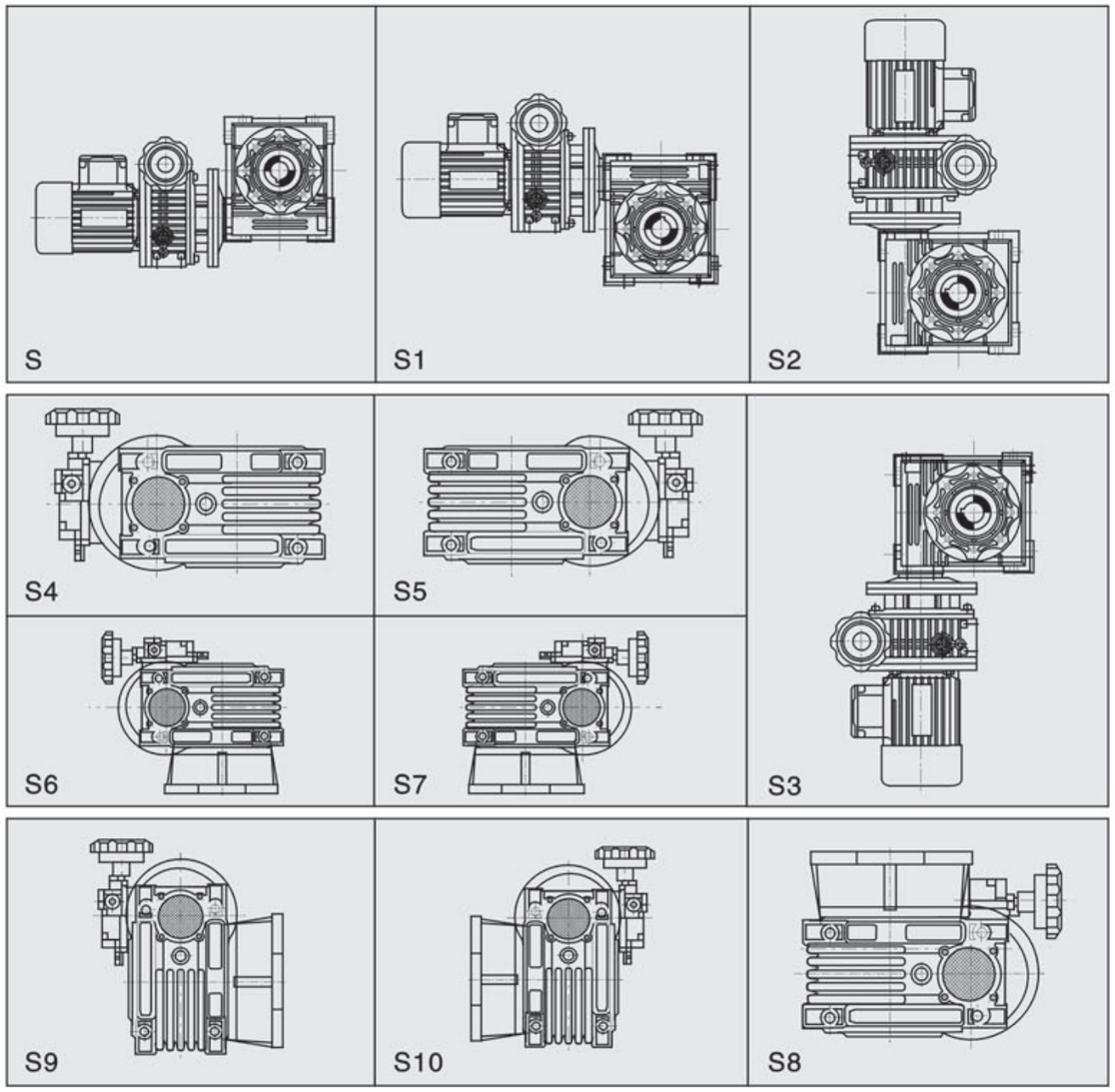
B7



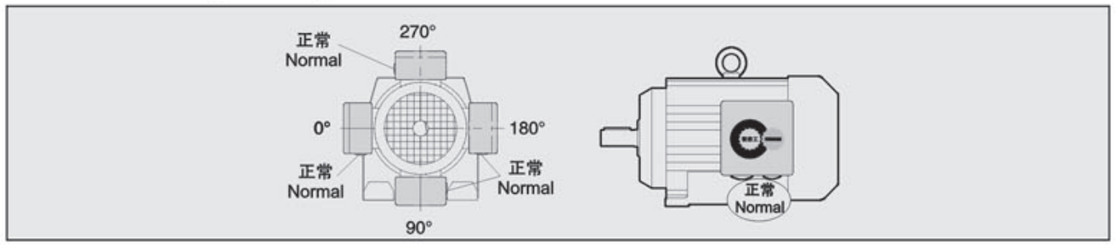
V6



NMRV与无级变速机组合安装形式
Mounting position of NMRV combining with variable speed machine



电机接线盒角度
Motor connecting box angle



输出转速 Output speed r/min	输出扭矩 Output torque N m	传动比 Ratio i	使用系数 Service factor （fB）	机型号 Type Type
0.18kW				
187	7.0	7.5	1.90	NMRV※30
140	9.0	10	1.50	
93	13	15	1.00	
70	17	20	0.80	
56	21	25	1.00	
47	24	30	0.80	
187	7.8	7.5	3.3	NMRV※40
140	13	10	2.7	
93	14	15	1.85	
70	19	20	2.1	
56	23	25	1.64	
47	26	30	1.64	
35	32	40	1.25	
28	38	50	0.98	
23	43	60	0.80	
35	33	40	2.4	NMRV※50
28	39	50	1.85	
23	43	60	1.64	
18	52	80	1.25	
14	60	100	0.90	
0.25kW				
187	11	7.5	2.4	NMRV※40
140	18	10	1.92	
93	19	15	1.30	
70	26	20	1.48	
56	32	25	1.18	
47	36	30	1.18	
35	44	40	0.90	
187	11	7.5	5.1	NMRV※50
140	14	10	3.9	
93	19	15	3.0	
70	27	20	2.7	
56	32	25	2.2	
47	37	30	2.2	
35	46	40	1.76	
28	54	50	1.33	
23	60	60	1.18	
18	72	80	0.90	
0.37kW				
187	16	7.5	1.60	NMRV※40
140	27	10	1.30	
93	28	15	0.90	
70	39	20	1.00	
56	47	25	0.80	
47	53	30	0.80	
187	16	7.5	3.4	NMRV※50
140	21	10	2.6	
93	29	15	2.0	
70	40	20	1.82	
56	48	25	1.49	
47	54	30	1.49	
35	68	40	1.19	
28	80	50	0.90	
23	89	60	0.80	
35	70	40	2.1	NMRV※63
28	83	50	1.64	
23	94	60	1.34	
18	115	80	1.10	
14	129	100	0.90	

输出转速 Output speed r/min	输出扭矩 Output torque N m	传动比 Ratio i		机型号 Type Type
0.55kW				
187	24	7.5	2.3	NMRV※50
140	31	10	1.77	
93	43	15	1.36	
70	59	20	1.23	
56	71	25	1.00	
47	81	30	1.00	
35	101	40	0.80	
187	25	7.5	4.1	NMRV※63
140	32	10	3.3	
93	46	15	2.5	
70	61	20	2.2	
56	73	25	1.80	
47	84	30	2.0	
35	104	40	1.40	
28	124	50	1.10	
23	140	60	0.90	
35	108	40	2.0	NMRV※75
28	132	50	1.60	
23	140	60	1.40	
18	180	80	1.00	
14	206	100	0.90	
0.75W				
187	33	7.5	1.70	NMRV※50
140	42	10	1.30	
93	58	15	1.00	
70	81	20	0.90	
187	34	7.5	3.0	NMRV※63
140	44	10	2.4	
93	63	15	1.80	
70	83	20	1.80	
56	100	25	1.32	
47	114	30	1.47	
35	141	40	1.03	
35	147	40	1.47	NMRV※75
28	180	50	1.17	
23	190	60	1.02	
35	148	40	2.3	NMRV※90
28	168	50	1.76	
23	212	60	1.60	
18	249	80	1.17	
14	302	100	0.90	
1.1W				
178	50	7.5	2.0	NMRV※63
140	65	10	1.64	
93	92	15	1.23	
70	122	20	1.09	
56	146	25	0.90	
47	167	30	1.00	
187	50	7.5	3.6	NMRV※75
140	66	10	3.0	
93	96	15	2.2	
70	120	20	1.60	
56	150	25	1.36	
47	169	30	1.40	
35	216	40	1.00	
28	164	50	0.80	

输出转速 Output speed r/min	输出扭矩 Output torque N·m	传动比 Ratio i	使用系数 Service factor (fB)	机型号 Type Type
1.1kW				
187	50	7.5	4.7	NMRV※90
140	65	10	4.0	
93	94	15	3.3	
70	126	20	2.9	
56	154	25	2.2	
47	176	30	2.5	
35	217	40	1.60	
28	246	50	1.20	
23	310	60	1.09	
18	365	80	0.80	
56	158	25	4.0	NMRV※110
47	178	30	3.3	
35	234	40	2.5	
28	281	50	2.2	
23	324	60	1.60	
18	402	80	0.09	
14	473	100	0.90	
1.5kW				
187	68	7.5	1.50	NMRV※63
140	88	10	1.20	
93	126	15	0.90	
70	166	20	0.80	
187	68	7.5	2.7	NMRV※75
140	90	10	2.2	
93	131	15	1.60	
70	164	20	1.17	
56	205	25	1.00	
47	230	30	1.00	
187	68	7.5	3.5	NMRV※90
140	89	10	2.9	
93	128	15	2.4	
70	172	20	2.1	
56	210	25	1.60	
47	240	30	1.80	
35	295	40	1.17	
28	335	50	0.88	
23	424	60	0.80	
56	215	25	2.9	NMRV※110
47	243	30	2.4	
35	319	40	1.80	
28	384	50	1.60	
23	442	60	1.17	
18	548	80	0.80	
2.2kW				
187	100	7.5	1.82	NMRV※75
140	132	10	1.50	
93	191	15	1.09	
70	240	20	0.80	
187	99	7.5	2.4	NMRV※90
140	130	10	2.0	
93	188	15	1.64	
70	252	20	1.45	
56	308	25	1.09	
47	351	30	1.23	
35	433	40	0.80	

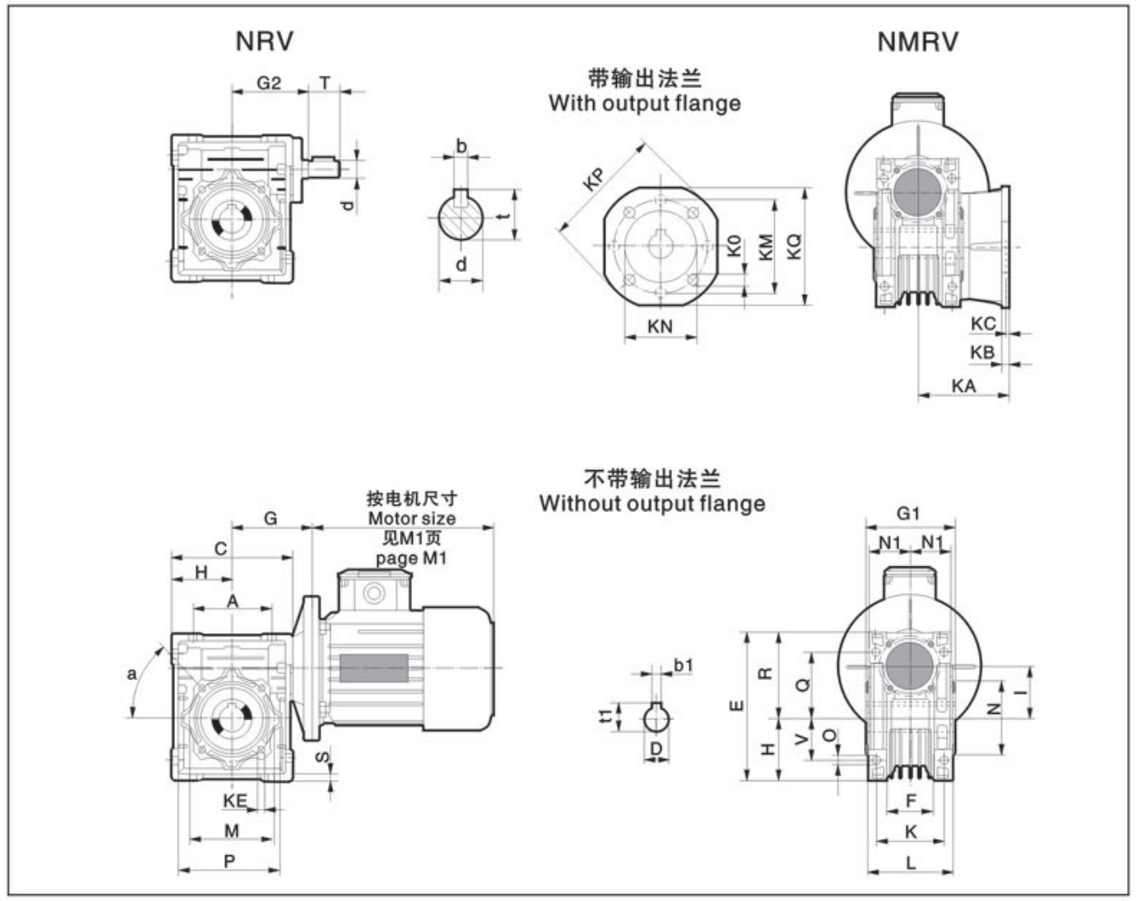
输出转速 Output speed r/min	输出扭矩 Output torque N·m	传动比 Ratio i		机型号 Type Type
2.2kW				
187	101	7.5	4.8	NMRV※110
140	133	10	3.8	
93	194	15	3.0	
70	255	20	2.0	
56	316	25	2.0	
47	356	30	1.64	
35	468	40	1.23	
28	562	50	1.09	
23	648	60	0.80	
3kW				
187	137	7.5	1.33	NMRV※75
140	180	10	1.10	
93	261	15	0.80	
]187	135	7.5	1.73	
140	177	10	1.47	NMRV※90
93	257	15	1.20	
70	344	20	1.07	
56	420	25	0.80	
47	479	30	0.90	
187	138	7.5	3.5	
140	182	10	2.8	
93	364	15	2.2	NMRV※110
70	348	20	1.47	
56	431	25	1.47	
47	485	30	1.20	
35	638	40	0.90	
28	767	50	0.80	
4kW				
187	182	7.5	1.00	NMRV※75
187	180	7.5	1.30	NMRV※90
140	236	10	1.10	
93	342	15	0.90	
70	458	20	0.80	
187	184	7.5	2.6	NMRV※110
140	243	10	2.1	
93	352	15	1.65	
70	464	20	1.10	
56	575	25	1.10	
47	647	30	0.90	
5.5kW				
187	253	7.5	1.91	NMRV※110
140	334	10	1.50	
93.3	484	15	1.20	
70	638	20	0.80	
56	790	25	1.80	
7.5kW				
187	345	7.5	1.40	NMRV※110
140	455	10	1.10	

输出转速 Output speed r/min	输出扭矩 Output torque N·m	传动比 Ratio i	机型号 Type Type
0.18KW			
128.7~25.7	9~18	7.5io	NMRV※40MBQ02
96.5~19.3	12~14	10io	
64.4~13	17~34	15io	
48~9.7	22~43	20io	
38.6~7.7	27~52	25io	
32.2~6.4	31~60	30io	
24~4.8	38~73	40io	
19.3~3.9	46~88	50io	
24~4.8	38~73	40io	
19.3~3.9	46~88	50io	
16~3.2	51~98	60io	
12~2.4	64~124	80io	
9.7~1.9	72~140	100io	
0.25KW			
128.7~25.7	19~38	7.5io	NMRV※50MBQ04
96.5~19.3	26~50	10io	
64.4~13	37~71	15io	
48~9.7	47~91	20io	
38.6~7.7	57~110	25io	
32.2~6.4	65~125	30io	
24~4.8	79~153	40io	
19.3~3.9	94~182	50io	
24~4.8	84~162	40io	NMRV※63MBQ04
19.3~3.9	99~191	50io	
16~3.2	110~212	60io	
12~2.4	142~273	80io	
9.7~1.9	152~295	100io	
0.37KW			
128.7~25.7	19~38	7.5io	NMRV※50MBQ04
96.5~19.3	26~50	10io	
64.4~13	37~71	15io	
48~9.7	47~91	20io	
38.6~7.7	57~110	25io	
32.2~6.4	65~125	30io	
24~4.8	79~153	40io	
19.3~3.9	94~182	50io	
24~4.8	84~162	40io	NMRV※63MBQ04
19.3~3.9	99~191	50io	
16~3.2	110~212	60io	
12~2.4	142~273	80io	
9.7~1.9	152~295	100io	
24~4.8	86~166	40io	NMRV※75MBQ04
19.3~3.9	103~199	50io	
16~3.2	115~222	60io	
12~2.4	149~287	80io	
9.7~1.9	164~318	100io	

输出转速 Output speed r/min	输出扭矩 Output torque N·m	传动比 Ratio i	机型号 Type Type
0.55KW			
128.7~25.7	29~56	7.5io	NMRV※63MBQ07
96.5~19.3	38~74	10io	
64.4~13	55~147	15io	
48~9.7	72~139	20io	
38.6~7.7	87~167	25io	
32.2~6.4	98~191	30io	
24~4.8	125~241	40io	
19.3~3.9	147~284	50io	
16~3.2	164~315	60io	
24~4.8	129~248	40io	NMRV※75MBQ07
19.3~3.9	153~297	50io	
16~3.2	172~330	60io	
12~2.4	222~427	80io	
24~4.8	134~258	40io	NMRV※90MBQ07
19.3~3.9	160~310	50io	
16~3.2	183~351	60io	
12~2.4	233~447	80io	
9.7~1.9	261~508	100io	
0.75KW			
128.7~25.7	39~77	7.5io	NMRV※63MBQ07
96.5~19.3	52~102	10io	
64.4~13	7~146	15io	
48~9.7	99~190	20io	
38.6~7.7	118~229	25io	
32.2~6.4	134~260	30io	
24~4.8	171~328	40io	
19.3~3.9	200~387	50io	
24~4.8	176~338	40io	NMRV※75MBQ07
19.3~3.9	209~405	50io	
16~3.2	234~451	60io	
24~4.8	183~352	40io	NMRV※90MBQ07
19.3~3.9	219~422	50io	
16~3.2	249~479	60io	
12~2.4	318~610	80io	
9.7~1.9	357~692	100io	

输出转速 Output speed r/min	输出扭矩 Output torque N·m	传动比 Ratio i	机型号 Type Type
1.1KW			
128.7~25.7	54~114	7.5io	NMRV※75MBQ15
96.5~19.3	78~151	10io	
64.4~13	113~219	15io	
48~9.7	147~282	20io	
38.6~7.7	178~344	25io	
32.2~6.4	203~392	30io	
24~4.8	255~496	40io	
128.7~25.7	60~116	7.5io	NMRV※90MBQ15
96.5~19.3	79~153	10io	
64.4~13	115~222	15io	
48~9.7	150~289	20io	
38.6~7.7	182~353	25io	
32.2~6.4	208~403	30io	
24~4.8	269~516	40io	
19.3~3.9	321~620	50io	
38.6~7.7	187~361	25io	NMRV※110MBQ15
32.3~6.4	213~413	30io	
24~4.8	279~537	40io	
19.3~3.9	334~645	50io	
16~3.2	381~733	60io	
12~2.4	495~950	80io	
9.7~1.9	59~1085	100io	
1.5KW			
128.7~25.7	80~156	7.5io	NMRV※75MBQ15
96.5~19.3	107~206	10io	
64.4~13	155~299	15io	
48~9.7	200~385	20io	
38.6~7.7	243~469	25io	
32.2~6.4	277~535	30io	
128.7~25.7	81~158	7.5io	NMRV※90MBQ15
96.5~19.3	108~209	10io	
64.4~13	156~303	15io	
48~9.7	205~394	20io	
38.6~7.7	243~481	25io	
32.2~6.4	284~549	30io	
24~4.8	367~704	40io	
19.3~3.9	438~845	50io	
38.6~7.7	249~493	25io	NMRV※110MBQ15
32.2~6.4	291~563	30io	
24~4.8	381~732	40io	
19.3~3.9	456~880	50io	
16~3.2	521~1000	60io	

输出转速 Output speed r/min	输出扭矩 Output torque N·m	传动比 Ratio i	机型号 Type Type



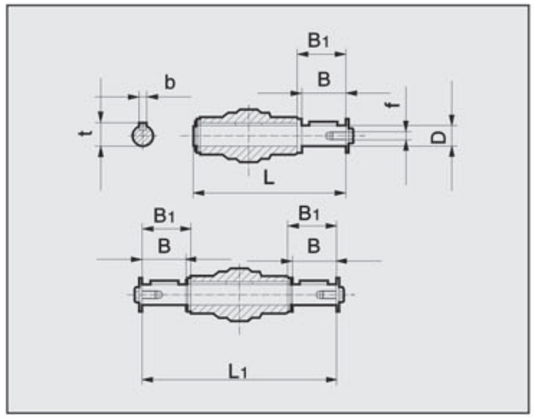
Y电机与NMRV蜗轮减速机组合外形及安装尺寸
Motors of Y and NMRV worm wheel reductor combining shape and installation dimensions

型号 Model	尺寸 Dimensions																						
	A	C	D	E	F	G	H	I	L	M	N	O	P	Q	R	S	V	K	d(j6)	T	G_2	b	t
30	54	80	14H7	97	32	63	40	30	56	65	55h8	6.5	75	44	57	5.5	27	44	9	20	51	3	10.5
40	70	100	18H7	121	43	70	50	40	71	75	60h8	7	87	55	71	6.5	35	60	11	23	60	4	12.5
50	80	120	25H7	144	49	80	60	50	85	85	70h8	8.5	100	64	84	7	40	70	14	30	74	5	16
63	100	144	25H7	174	67	95	72	63	103	95	80h8	8.5	110	80	102	8	50	85	19	40	90	6	21.5
75	120	174	28H7	205	72	112.5	86	75	113	115	95h8	11	140	93	119	10	60	90	24	50	105	8	27
90	140	208	35H7	238	73	130	103	90	130	130	110h8	13	160	102	135	11	70	100	24	50	125	8	27
110	170	252.5	42H7	294	–	160	127.5	110	142	165	130h8	14	200	125	167.5	15	85	115	28	60	142	8	31

型号 Model	尺寸 Dimensions													
	G1	N1	KA	KB	KC	KE	a	KM	KN	K0	KP	KQ	b1	t1
30	63	29	54.5	6	4	M6x11(n.4)	0°	68	50H8	6.5(4/90°)	80	70	5	16.3
40	78	36.5	67	7	4	M6x8(n.4)	45°	87	60H8	9(4/90°)	110	95	6	20.8
50	92	43.5	90	9	5	M8x10(n.4)	45°	90	70H8	11(4/90°)	125	110	8	28.3
63	112	53	82	10	6	M8x14(n.8)	45°	150	115H8	11(4/90°)	180	142	8	28.3
75	118	57	111	13	6	M8x14(n.8)	45°	165	130H8	14(4/90°)	200	170	8	31.3
90	140	67	111	13	6	M10x18(n.8)	45°	175	152H8	14(4/90°)	210	200	10	38.3
110	155	74	139	15	6	M10x30(n.8)	45°	220	170H8	14(8/90°)	270	250	12	45.3

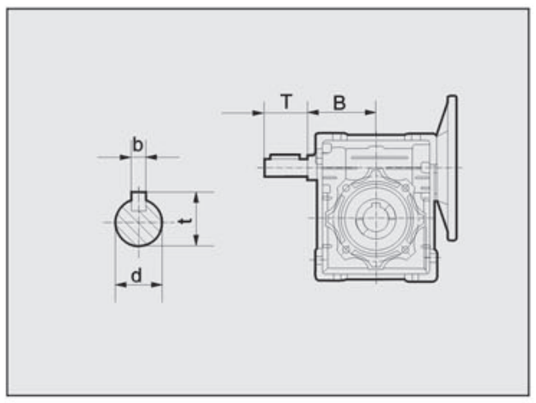
单向/双向输出轴尺寸
Dimensions of single / double output shaft

型号 model	D(h6)	B	B1	L	L1	f	b	t
30	14	30	32.5	102	128	–	5	16
40	18	40	43	108	164	M6	6	20.5
50	25	50	53.5	153	199	M6	8	28
63	25	50	53.5	173	219	M10	8	28
75	28	60	63.5	192	247	M10	8	31
90	35	80	84	234	308	M12	10	38
110	42	80	84.5	249	324	M16	12	45



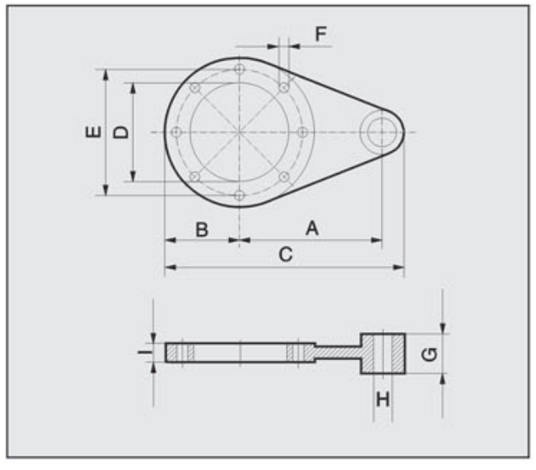
延伸蜗杆轴尺寸
Dimensions of extension worm shaft

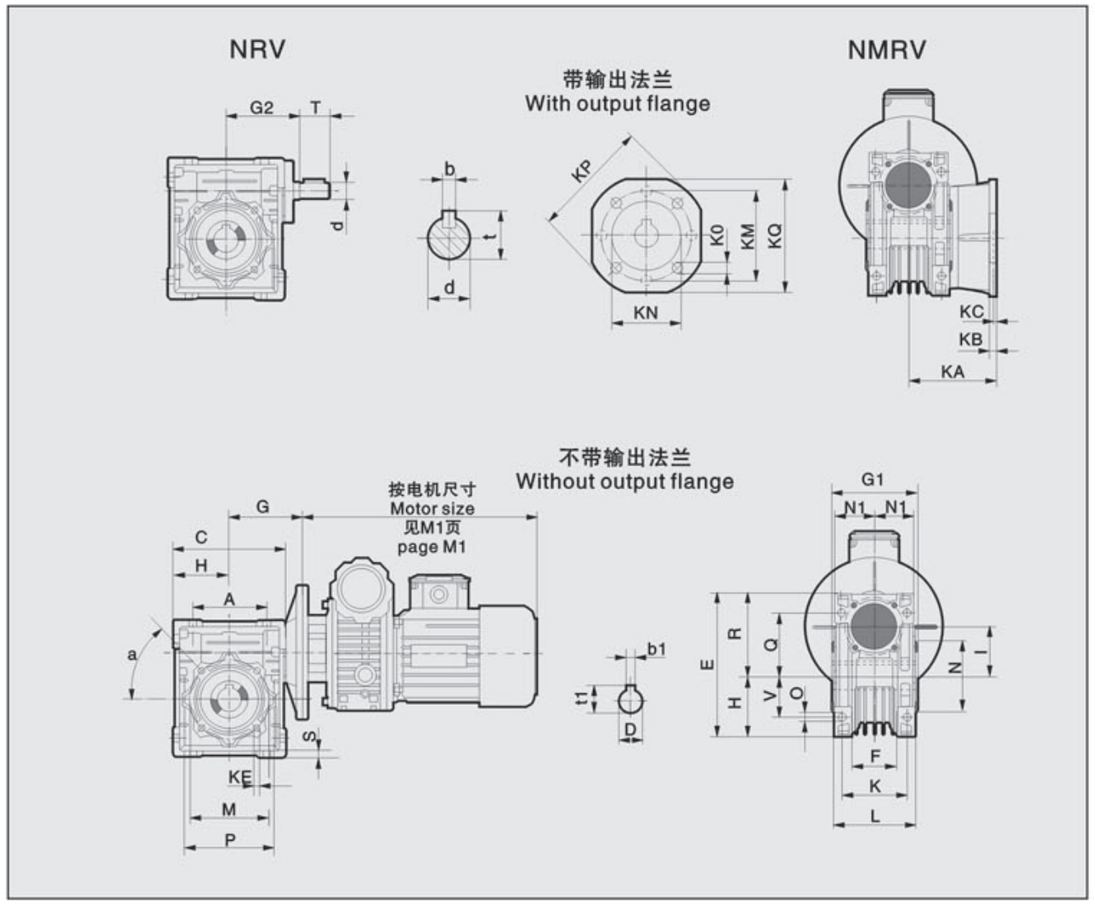
型号 model	B	d(j6)	T	b	t
30	45	9	20	3	10.5
40	53	11	23	4	12.5
50	64	14	30	5	16
63	75	19	40	6	21.5
75	90	24	50	8	27
90	108	24	50	8	27
110	135	28	60	8	31



防转臂尺寸
Dimensions of torque–arm

型号 model	A	B	C	D	E	F	G	H	I
30	85	38	138	54	65	7	14	8	6
40	100	44	162	60	75	7	14	10	12
50	100	50	168	70	85	9	14	10	12
63	150	55	223	80	95	9	14	10	12
75	200	70	300	95	115	9	25	20	20
90	200	80	310	110	130	11	25	20	20
110	250	100	385	130	165	11	30	25	25

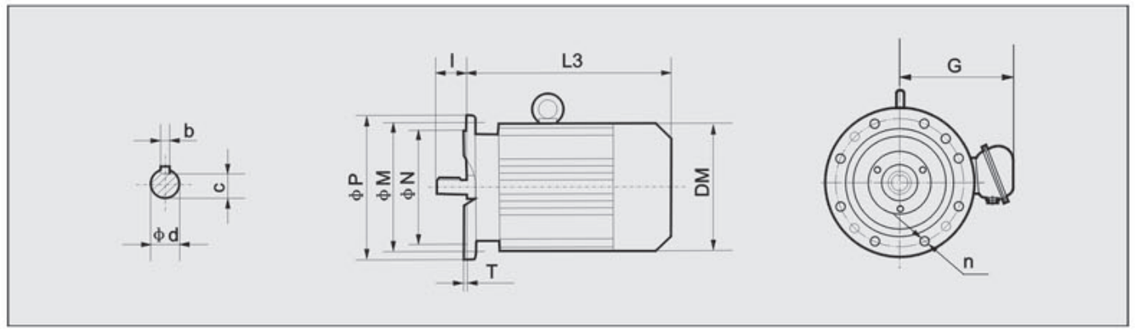




NMRV..MBQ..–Y蜗轮减速机组合外形及安装尺寸
NMRV..MBQ..–Y worm gear reductor combining shape and installation dimensions

型号 Model	尺寸 Dimensions																					
	A	C	D	E	F	G	H	I	L	M	N	O	P	Q	R	S	V	K	d(j6)	T	G2	b	t
30	54	80	14H7	97	32	63	40	30	56	65	55h8	6.5	75	44	57	5.5	27	44	9	20	51	3	10.5
40	70	100	18H7	121	43	70	50	40	71	75	60h8	7	87	55	71	6.5	35	60	11	23	60	4	12.5
50	80	120	25H7	144	49	80	60	50	85	85	70h8	8.5	100	64	84	7	40	70	14	30	74	5	16
63	100	144	25H7	174	67	95	72	63	103	95	80h8	8.5	110	80	102	8	50	85	19	40	90	6	21.5
75	120	174	28H7	205	72	112.5	86	75	113	115	95h8	11	140	93	119	10	60	90	24	50	105	8	27
90	140	208	35H7	238	73	130	103	90	130	130	110h8	13	160	102	135	11	70	100	24	50	125	8	27
110	170	252.5	42H7	294	–	160	127.5	110	142	165	130h8	14	200	125	167.5	15	85	115	28	60	142	8	31

型号 Model	尺寸 Dimensions												
	G1	N1	KA	KB	KC	KE	a	KM	KN	K0	KP	KQ	b1	t1
30	63	29	54.5	6	4	M6x11(n.4)	0°	68	50H8	6.5(4/90°)	80	70	5	16.3
40	78	36.5	67	7	4	M6x8(n.4)	45°	87	60H8	9(4/90°)	110	95	6	20.8
50	92	43.5	90	9	5	M8x10(n.4)	45°	90	70H8	11(4/90°)	125	110	8	28.3
63	112	53	82	10	6	M8x14(n.8)	45°	150	115H8	11(4/90°)	180	142	8	28.3
75	118	57	111	13	6	M8x14(n.8)	45°	165	130H8	14(4/90°)	200	170	8	31.3
90	140	67	111	13	6	M10x18(n.8)	45°	175	152H8	14(4/90°)	210	200	10	38.3
110	155	74	139	15	6	M10x30(n.8)	45°	220	170H8	14(8/90°)	270	250	12	45.3



标准普通电机和特殊电机的参数及安装尺寸
Parameters and installation dimensions of ordinary motors and special motors

表11 Table11

电机机座号	4级 Class4		6级 Class4		8级 Class4		L3				G	DM	安装尺寸 Mounting dimensions									M(kg)				
Motor size	P1 (KW)	n1 (r/min)	P1 (KW)	n1 (r/min)	P1 (KW)	n1 (r/min)	Y_2	B	E	V	Y_2	Y_2	M	N	P	n	T	d	l	b	c	Y (铝壳) (Aluminium housing)	Y_2	B	E	V
63	0.12	1390					202	270	328		70	130	115	95j6	140	4×ϕ10	3	11j6	23	4	8.5	5.5	13			11
	0.18	1390																				6	13.5	15		12
71	0.25	1390	0.18	900			225	285	345		80	145	130	110j6	160	4×ϕ10	3.5	14j6	30	5	11	6.5	14	16	12	14
	037	1390	0.25	900																		7.5	14.5	16	13	15
80	0.55	1390	0.37	900	0.18	690	255	290	350	310	145	175	165	130j6	200	4×ϕ12	3.5	19j6	40	6	15.5	10	15	31	20	16
	0.75	1390	0.55	900	0.25	690																11	16	32	21	17
90S	1.1	1400	0.75	910	0.37	690	270	310	370	320	155	195	165	130j6	200	4×ϕ12	3.5	24j6	50	8	20	16	23	35	27	23
90L	1.5	1400	1.1	910	0.55	690	295	335	395	345			165	130j6	200	4×ϕ12	3.5	24j6	50	8	20	20	25	39	31	28
100	2.2	1420	1.5	940	0.75	700	325	370	420	370	180	215	215	180j6	250	4×ϕ15	4	28j6	60	8	24		33	49	41	35
	3	1420			1.1	700																	35	53	44	36
112M	4	1440	2.2	940	1.5	700	340	400	450	390	190	240	215	180j6	250	4×ϕ15	4	28j6	60	8	24		41	67	60	43
132S	5.5	1440	3	960	2.2	710	390	430	505	450	210	275	265	230j6	300	4×ϕ15	4	38k6	80	10	33		65	93	85	63
132M	7.5	1440	4	960	3	710	430	470	545	490	210	275	265	230j6	300	4×ϕ15	4	38k6	80	10	33		76	105	98	75
			5.5	960																						
160M	11	1460	7.5	970	4	720	505	545	610	550	255	330	300	250h6	350	4×ϕ19	5	42k6	110	12	37		118	150	143	116
					5.5	720																				
160L	15	1460	11	970	7.5	720	560	585	655	595	255	330	300	250h6	350	4×ϕ19	5	42k6	110	12	37		132	169	165	136
180M	18.5	1470			/		590	620	715	740	280	380	300	250h6	350	4×ϕ19	5	48k6	110	14	42.5		164	205	203	169
180L	22	1470	15	970	11	730	630	640	765	790			300	250h6	350	4×ϕ19	5	48k6	110	14	42.5		182	222	216	183
200	30	1470	18.5	970	15	730	660	695	790	850	305	420	350	300h6	400	4×ϕ19	5	55k6	110	16	49		245	300	296	236
			22	970																						
225S	37	1480			18.5	730	675	705	860	910	335	470	400	350h6	450	8×ϕ19	5	60m6	140	18	53		258	360	370	291
225M	45	1480	30	980	22	730	705	730	890	940	335	470	400	350h6	450	8×ϕ19	5	60m6	140	18	53		290	390	405	327
250	55	1480	37	980	30	730	770	795		1060	370	510	500	450h6	550	8×ϕ19	5	65m6	140	18	58		388	530	498	393
280S	75	1480	45	980	37	740	845	870		1160			500	450h6	550	8×ϕ19	5	75m6	140	20	67.5		510	660	633	520
280M	90	1485	55	980	45	740	895	920		1260	410	580	500	450h6	550	8×ϕ19	5	75m6	140	20	67.5		606	785	723	610
315S	110	1485	75	985	55	740	1100	1100		1330	576	645	600	550h6	660	8×ϕ24	6	80m6	170	22	71		910	1000	1150	950
315M	132	1485	90	985	75	740	1180	1180		1380	576	645	600	550h6	660	8×ϕ24	6	80m6	170	22	71		1000	1100	1230	1030
315L	160	1485	110	985	90	740	1270	1270		1450	576	645	600	550h6	660	8×ϕ24	6	80m6	170	22	71		1055	1100	1320	1100
	200	1485	132	985	110	740					576	645											1128	1160	1420	1200

注：由于结构需要及生产厂家不同，有时参数有所变化，此表仅供参考，准确尺寸请来电垂询.
Note: Parameters may vary according to different structural requirements and manufacturers.
This table is only for reference. Please call us for exact dimensions.