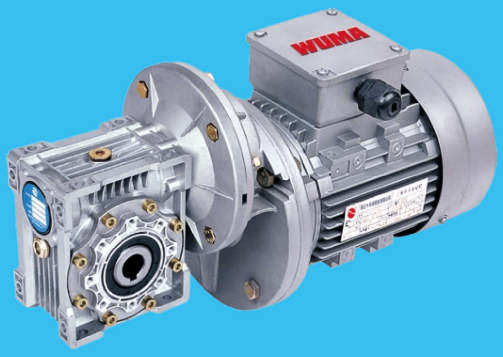
RV SERIES

worm reducer

RV 系列蜗杆减速机



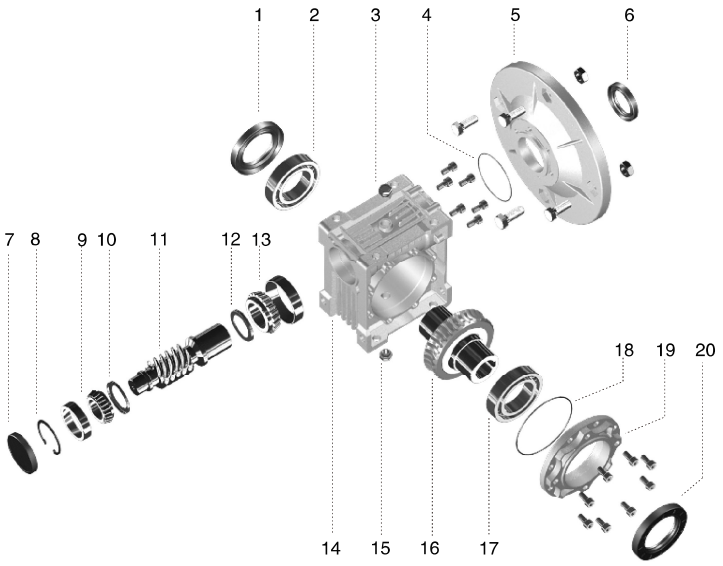
RV系列蜗杆减速机 RV Series worm reducer

蜗杆减速机性能特点
The advantages of worm reducer

方箱外形，优质铝合金压铸箱体，美观大方。
散热性能优良，承载能力大。
多面安装.空心输出轴结构.另配有各种输入.输出方式,并能方便的与其他传动机械组合,适应性强.
机型小巧.结构紧凑,体积小.重量轻.节省安装空间.
传动平稳.噪音小.
安全可靠.经济耐用.

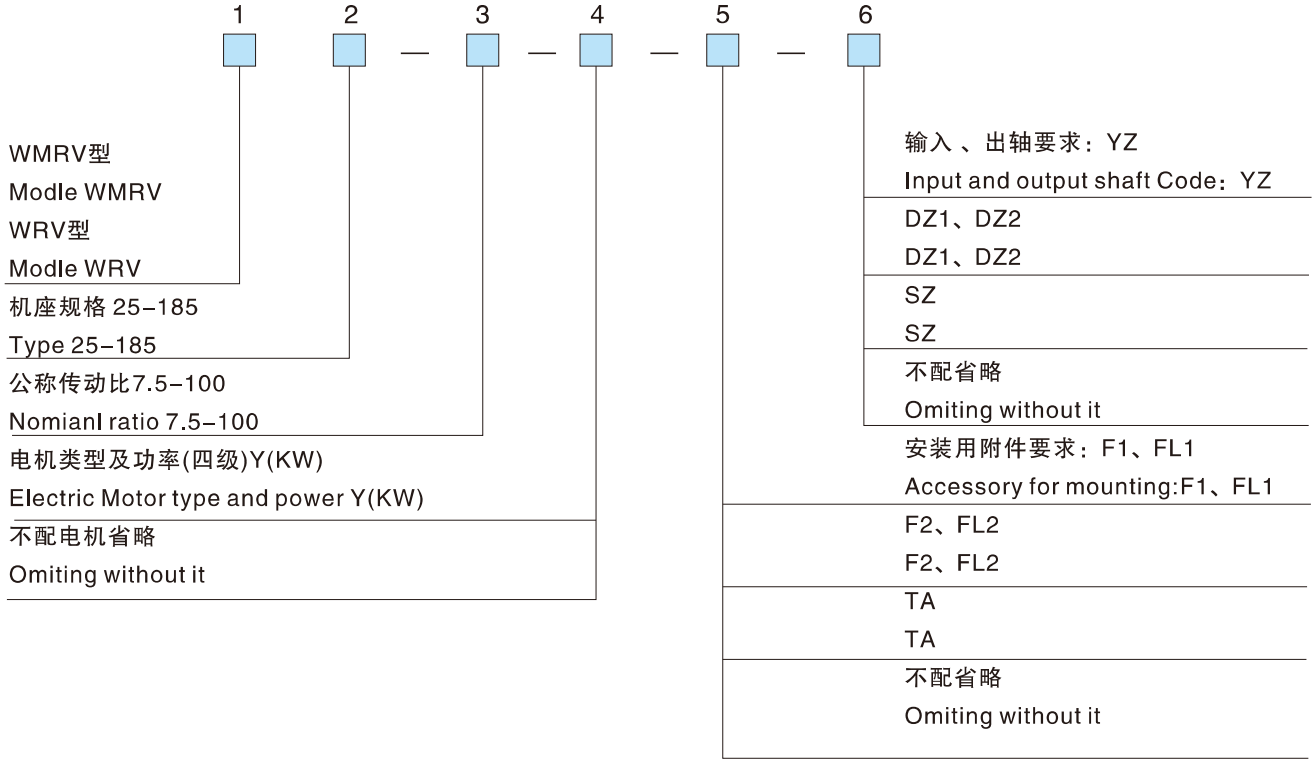
High quality Aluminum alloy ,appearance elegant, efficent radiator, high carrying ability.
Installed in multi–surfaces,hollow output shaft, various input and output type, conjoin other transmission machinery easily.
Small size, constriction compact, lightweight, and save place for mounting.
Run steadily and low noise.
High reliability and high effiliency.

产品结构图
Basic structure



序号	名称		Name
1	油封	1	Oil seal
2	轴承	2	Bearing
3	通气帽	3	Breather vent
4	O型密封圈	4	O–type seal ring
5	输入法兰	5	Input flange
6	油封	6	Oil seal
7	密封端盖	7	Seal and cover
8	孔用弹性挡圈	8	Circlip hole use
9	轴承	9	Bearing
10	挡油盘	10	Oil baffle disc
11	蜗杆	11	Worm
12	挡油盘	12	Oil baffle sisc
13	轴承	13	Bearing
14	箱体	14	Tank
15	螺塞	15	Plug screw
16	蜗轮	16	Gear
17	轴承	17	Bearing
18	O型密封圈	18	O–type seal ring
19	轴承端盖	19	Bearing and cover
20	油封	20	Oil seal

标记方式 Model designation

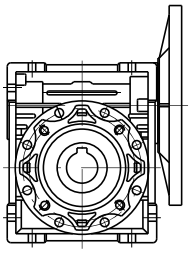


代号标记注解
Sign explantion

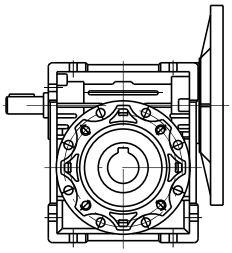
WMRV	带输入法兰式减速机（配合电机使用） With input flange (using with electric motor)
WRV	输入轴式减速机 With input shaft
25–30–40–50–63–75–90–110–130–150–185	减速机的机座规格（中心距参数） Type(centre distance)
7.5–10–15–20–25–30–40–50–60–80–100	公称传动比 Nominal ratio
Y0.18	配普通Y系列电动机，功率为0.18KW With electric motor in series Y, the power is 0.18KW
YEJ0.18	配制动电机，功率为0.18KW With breaking motor,the power is 0.18KW
F.....(1–2).FL.....(1–2)	输出法兰及安装型式（F–输出短法兰，FL–输出长法兰） Output flange and mounting position (F–output short flang. FL–output long flang)
TA	转矩臂 With torque arm
YZ	配延伸蜗杆轴 With extention worm shaft
DZ1,DZ2	配单向输出轴 With single output shaft
SZ	配双向输出轴 With double output shaft

图1
(Chart 1)

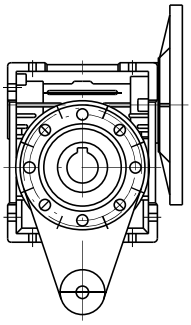
WMRV.....



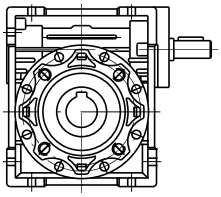
WMRV.....YZ



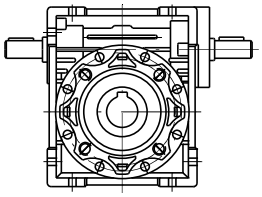
.....TA



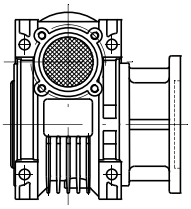
WRV.....



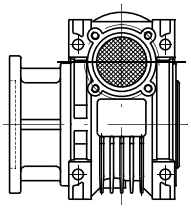
WRV.....YZ



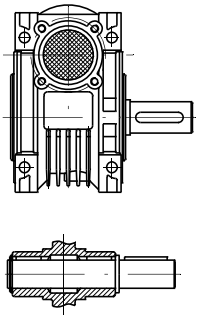
.....F1,FL1



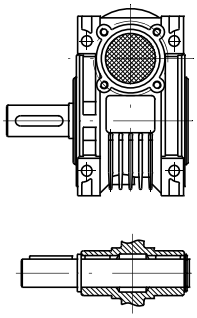
.....F2,FL2



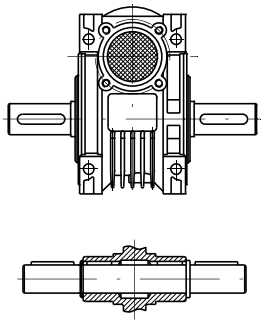
.....DZ1



.....DZ2



.....SZ

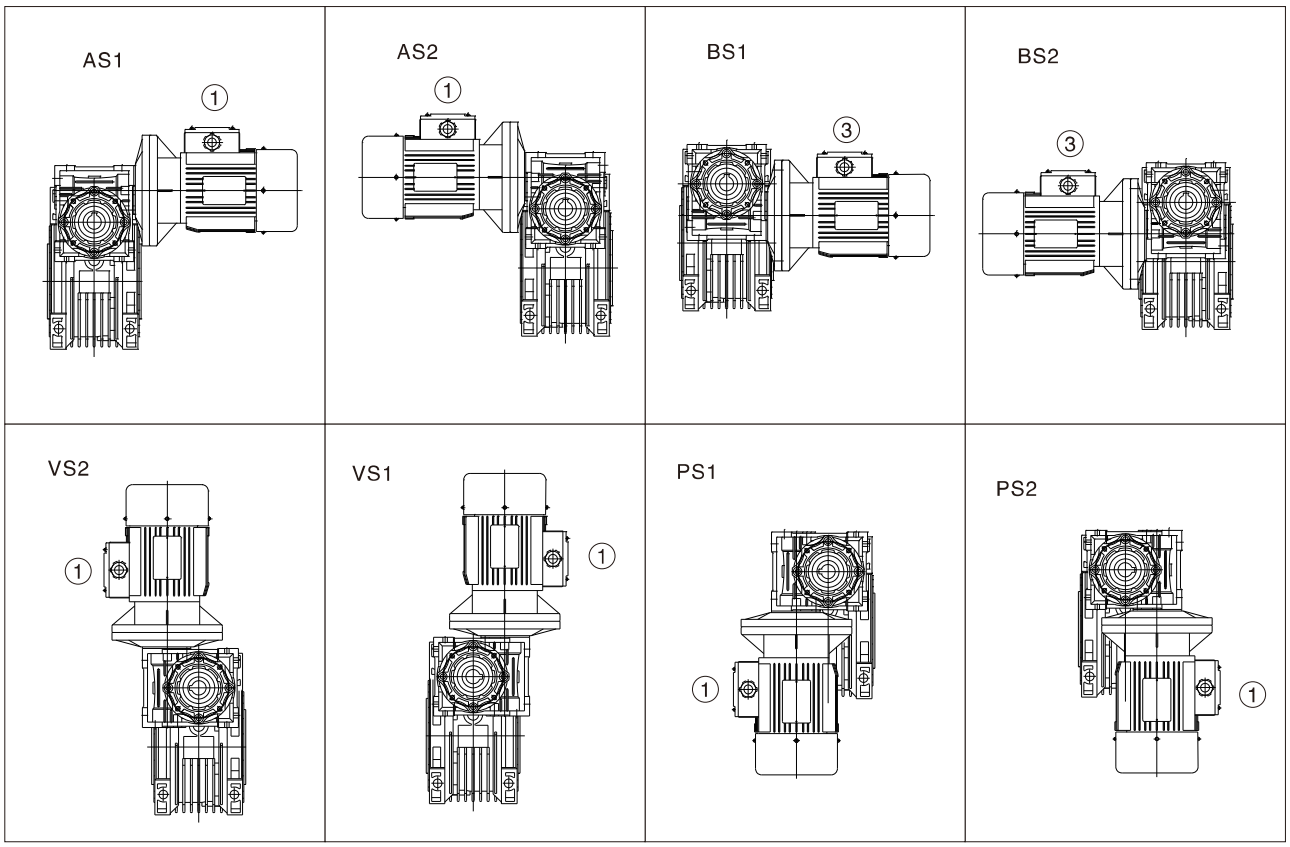


联体组合式RV系列蜗杆减速机标记方式：
Indication for combination RV series worm speed reducer

□ □ / □ — □ — P — □ — □ — □

输入、出轴要求：YZ、DZ1、DZ2、SZ;不配省略
Input/output shaft tequirement:YZ、DZ1、DZ2、SZ;omitted when not required.
安装附件要求：F1、F2、FL1、FL2、TA;不配省略
Rquired accessaries,F1、F2、FL1、FL2、TA;omitted when not required.
安装形式
Mounting type
配电机类型及功率：不配省略（配输入法兰应注明）P为电机极数，4极时省略。
Motor type and power ,omitted when not required(indicated when input flange requirde)P:motor pole number,4 poles omittde
机组公称传动比
Normial ratio for combination set
规格（前为第一级机座号，后为第2级机座号）
Size(1st stage,2nd stage)
类型：WMRV、WRV
Type:WMRV、WRV

安装方式及代号
Mounting type and it is symbol



标记l示例 Example of sign

1.WMRV40–30–Y0.18–F1–SZ
意为：WMRV型，机座规格40，公称传动比30，配Y系列0.18KW电机、F1输出法兰、双输出轴
2.WRV40–30–F1
意为：WRV型 机座规格40，公称传动比30，不配电机，配输出法兰F1
1.WMRV40–30–Y0.18–F1–SZ
Means:mokel:WMRV size:40
Nominal ratio:30
Epuipped electric motor:0.18KW in series Y
Output flange:F1
Double output shaft:SZ
2.WRV40–30–F1
Means:mokel:WRV size:40
Nominal ratio:30
Without electric motor
Output flange:F1

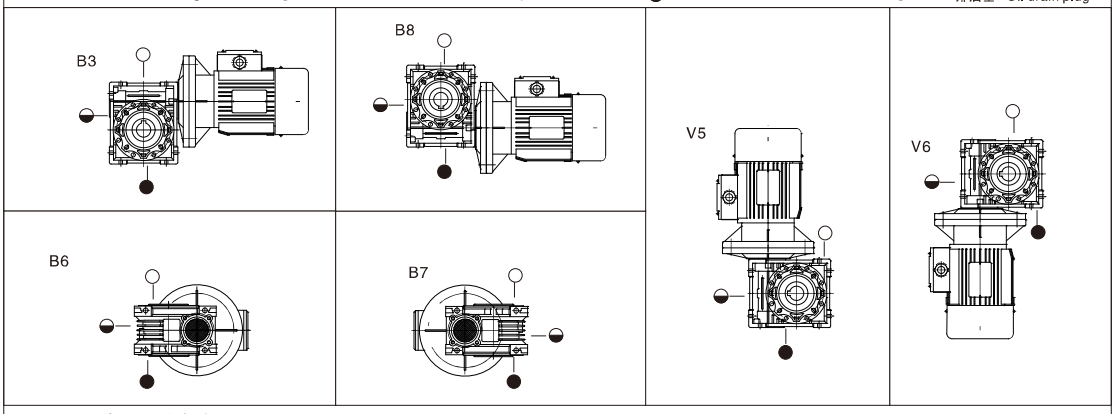
使用维护要求 The requirement of using and maintain

安装时请不要对减速机输出部件，箱体施加压力，联接时请满足机器（械）与减速机之间的同轴度与垂直度的相应要求。
减速机初始运行至400小时应重新更换润滑油，其后的换油周期约为4000小时。
箱体内应保留足够的润滑油量，并定时检查。当发现油量减少或油质变坏时应及时补足或更换润滑油。（润滑油牌号见附表）
应注意保持减速机外观清洁，及时清除灰尘、污物以利于散热。

Do not make pressure on output part and box when mounting it ,
It must replace lubrication oil after it runs 400 hours when first using it ,after it , replace lubrication oil per running 4000 hours.
It must keep coaxial degree and vertical degree in just lever when conjoining reducer with other device .
Must keep plenty of oil lubrication in the reducer and check it often.
Must add or replace in time when oil reduce or get bad. (lubrication type see attached table)
It is useful to keep reducer clean so that reducer radiates warmth more efficiently.

减速机的安装式及对应的加油量、润滑油品种
Installation type of reducer and the corresponding oil feeding amount and lubrication barieties

1.安装尺寸 Mounting size ○ 注：・・・加油孔及通气孔 Oil filling hole and air hole ◒ ・・・视油镜 Oil level view mirror ● ・・・排油塞 Oil drain plug



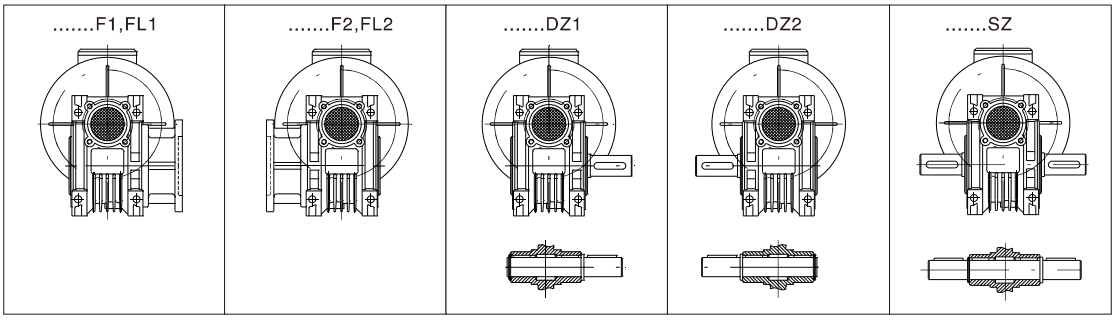
2.不同安装型式对应的加油量 Oil amount to various installation patterns

蜗杆减速机型号 Types of worm speed reducers		RV25	RV30	RV40	RV50	RV63	RV75	RV90	RV110	RV130	RV150	RV185
润滑用油（公升）Lubricating oil	B3	0.02	0.04	0.08	0.15	0.3	0.55	1.0	3.0	4.5	7.0	10
	B6.B7								2.5	3.5	5.4	8.0
	B8								2.2	3.3	5.1	7.5
	V5								3.0	4.5	7.0	10
	V6								2.2	3.3	5.1	8.0

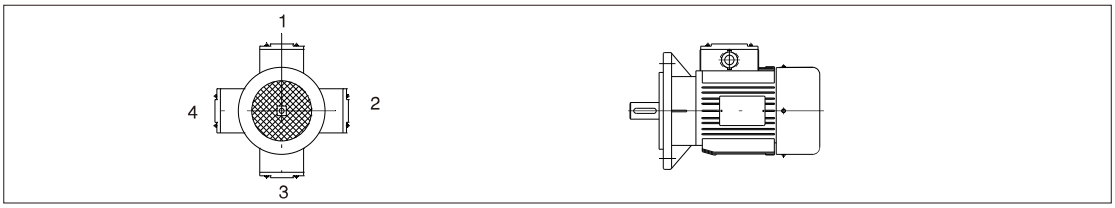
3.润滑油品种 Lubricating oil

蜗杆减速机型号 Types of worm speed reducers		RV25、RV40、RV50、RV63、RV75、RV90	RV110、RV130、RV150、RV185		
	润滑油 Lubricant	Oil sintetice synthetic oil	Oil sintetice synthetic oil	Oil minerale mineral oil	
	环境温度 Ambient Temperature	−25℃ ~ +50℃	−25℃ ~ +50℃	−5℃ ~ +40℃	−15℃ ~ +40℃
ISO		VG320	VG320	VG460	VG320
国内使用 Used in interior		WA460	WA460		
国外使用 Used in foreigh countries	AGIP	TELIUM VSF320	TELIUM VSF320	BLASIA 460	BLASIA 220
	SHELL	TIVELA S320	TIVELA S320	OMALA OIL 460	OMALA OIL 220
	ESSO	S220	S220	SPARTAN EP 460	SPARTAN EP 220
	MOBIL	GLYGOYLE 30	GLYGOYLE 30	MOBIL GEAR 634	MOBIL GEAR 630
	CASTROL	ALPHASYN PG 320	ALPHASYN PG 320	ALPHA MAX 460	ALPHA MAX 220
	BP	ENERGOL SG-XP 320	ENERGOL SG-XP 320	ENETGOL SG-XP 460	ENETGOL SG-XP 220

减速机的输出法兰 "F、FL"、输出轴 "DZ、SZ" 安装形式
Installation pattern of output flange F、FL,output spindle DZ、SZ of speed reducers



电机接线盒安装形式 Installation pattern of motor wiring box



减速机的承载能力 The carriying ability of worm micteducer

附表（Attached table)

蜗杆分度圆滑动速度(m/s) Reference circle of worm slide(m/s)	蜗轮蜗杆油牌号 Lubrication type
≤2.2	G-N680W(G-N460W)
>2.5-5	G-N320W
>5-12	G-N220W

根据表2及表3，可找出有关减速机的工作系数(sf)
By table 2 and 3,can find out the service factor(sf)about worm reducer.

表2
(Table 2)

每小时断性操作次数少于10次 NO of starts per hour <10			
加于减速机的负荷性质 Nature of load generated by driven machine	每日工作时数 Hours running per day		
	<2	2~8	8~16
带均衡负荷 Uni form	sf=0.8	sf=1	sf=1.25
带中级震荡 Moderate shock	sf=1	sf=1.25	sf=1.5
带重级震荡 heavy shock	sf=1.25	sf=1.5	sf=1.75

表3
(Table 3)

每小时间断性或连续性操作次数大于10次 NO of starts per hour>10			
加于减速机的负荷性质 Nature of load generates by driven machine	每日工作小时数 Hours running per day		
	<2	2~8	8~24
带均衡负荷 Uniform	sf=1	sf=1.25	sf=1.75
带中级震荡 Moderate shock	sf=1.5	sf=1.75	sf=2
带重级震荡 Heavy shock	sf=1.75	sf=2	sf=2.25

选型参数
Parameter Selections

单级减速机（法兰输入，输入转速1400r/min)/(配4级电机)
Single step reducer(flange input,input speed is 1400r/min)/(matched with 4 poles motor)

输出转速 Output speed (r/min)	输出转矩 Output torque (N.m)	使用系数 (fs)	传动比 Ratio (i)	机型号 Type
0.06kW				
186.7	2.6	4.2	7.5	WMRV25
140	3.4	3.5	10	
93.3	4.9	2.5	15	
70	6.1	2.0	20	
46.7	8.2	1.6	30	
35	10	1.3	40	
28	12	0.9	50	
23.3	14	0.7	60	
186.7	2.6	6.9	7.5	WMRV30
140	3.4	5.4	10	
93.3	4.7	3.8	15	
70	6	3.0	20	
56	7	3.0	25	
46.7	8	2.5	30	
35	9.7	1.9	40	
28	11	1.5	50	
23.3	13	1.3	60	
17.5	14	0.9	80	
0.09kW				
186.7	3.9	2.8	7.5	WMRV25
140	5.1	2.4	10	
93.3	7.3	1.6	15	
70	9.2	1.3	20	
46.7	12	1.1	30	
35	15	0.9	40	
186.7	3.9	4.6	7.5	WMRV30
140	5	3.6	10	
93.3	7.1	2.5	15	
70	9	2.0	20	
56	10	2.0	25	
46.7	12	1.7	30	
35	14	1.2	40	
28	17	1.0	50	
23.3	19	0.9	60	
28	19	2.0	50	WMRV40
23.3	21	1.7	60	
17.5	26	1.3	80	
14	29	1.0	100	
0.12kW				
186.7	5.2	3.4	7.5	WMRV30
140	6.7	2.7	10	
93.3	9.5	1.9	15	
70	12	1.5	20	
56	14	1.5	25	
46.7	16	1.3	30	
35	19	0.9	40	
28	23	0.8	50	

输出转速 Output speed (r/min)	输出转矩 Output torque (N.m)	使用系数 (fs)	传动比 Ratio (i)	机型号 Type
0.12kW				
46.7	17.2	2.6	30	WMRV40
35	21	1.9	40	
28	25	1.5	50	
23.3	28	1.3	60	
17.5	34	1.0	80	
14	38	0.8	100	
23.3	29	2.3	60	WMRV50
17.5	35	1.9	80	
14	40	1.4	100	
0.18kW				
186.7	7.8	2.3	7.5	WMRV30
140	10	1.8	10	
93.3	14	1.3	15	
70	18	1.0	20	
56	21	1.0	25	
46.7	24	0.8	30	
70	19	2.0	20	WMRV40
56	23	1.7	25	
46.7	26	1.7	30	
35	32	1.3	40	
28	38	1.0	50	
23.3	43	0.8	60	
35	32	2.3	40	WMRV50
28	39	1.9	50	
23.3	43	1.6	60	
17.5	52	1.2	80	
14	60	0.9	100	
0.25kW				
186.7	11	3.6	7.5	WMRV40
140	14	2.8	10	
93.3	21	1.9	15	
70	27	1.5	20	
56	32	1.2	25	
46.7	36	1.3	30	
35	44	0.9	40	
28	37	0.8	50	
70	26	2.7	20	WMRV50
56	32	2.2	25	
46.7	37	2.3	30	
35	46	1.7	40	
28	54	1.4	50	
23.3	60	1.1	60	
17.5	72	0.9	80	

输出转速 Output speed (r/min)	输出转矩 Output torque (N.m)	使用系数 (fs)	传动比 Ratio (i)	机型号 Type
0.25kW				
28	56	2.4	50	WMRV63
23.3	63	2.0	60	
17.5	78	1.6	80	
14	87	1.4	100	
0.37kW				
186.7	16	2.4	7.5	WMRV40
140	21	1.9	10	
93.3	31	1.3	15	
70	39	1.0	20	
56	47	0.8	25	
46.7	53	0.8	30	
140	21	3.3	10	WMRV50
93.3	31	2.4	15	
70	40	1.8	20	
56	48	1.5	25	
46.7	55	1.5	30	
35	68	1.1	40	
28	80	0.9	50	
23.3	89	0.8	60	
35	70	2.1	40	WMRV63
28	83	1.6	50	
23.3	94	1.4	60	
17.5	115	1.1	80	
14	129	0.9	100	
0.55kW				
186.7	25	2.9	7.5	WMRV50
140	32	2.2	10	
93.3	46	1.6	15	
70	59	1.2	20	
56	71	1.0	25	
46.7	81	1.0	30	
35	80	0.9	40	
70	60	2.2	20	WMRV63
56	73	1.8	25	
46.7	83	1.9	30	
35	105	1.4	40	
28	124	1.1	50	
23.3	140	0.9	60	
35	108	2.0	40	WMRV75
28	129	1.6	50	
23.3	146	1.4	60	
17.5	180	1.1	80	
14	206	0.9	100	
17.5	189	1.5	80	WMRV90
14	221	1.2	100	
186.7	34	2.1	7.5	
140	44	1.6	10	

输出转速 Output speed (r/min)	输出转矩 Output torque (N.m)	使用系数 (fs)	传动比 Ratio (i)	机型号 Type
0.75kW				
93.3	63	1.2	15	WMRV50
70	81	0.9	20	
93.3	63	2.2	15	WMRV63
70	83	1.6	20	
56	100	1.3	25	
46.7	114	1.4	30	
35	143	1.0	40	
56	102	2.0	25	WMRV75
46.7	117	2.0	30	
35	147	1.5	40	
28	177	1.2	50	
23.3	200	1.0	60	
28	184	1.8	50	WMRV90
23.3	212	1.5	60	
17.5	258	1.1	80	
14	302	0.9	100	
1.1kW				
186.7	49	2.6	7.5	WMRV63
140	65	2.0	10	
93.3	93	1.5	15	
70	122	1.1	20	
56	146	0.9	25	
46.7	167	1.0	30	
35	165	0.9	40	
93.3	95	2.1	15	WMRV75
70	123	1.7	20	
56	150	1.3	25	
46.7	171	1.3	30	
35	216	1.0	40	
28	264	0.9	50	
23.3	223	0.8	60	
35	225	1.6	40	WMRV90
28	270	1.3	50	
23.3	311	1.0	60	
17.5	328	0.9	80	
28	281	2.3	50	WMRV110
23.3	324	1.9	60	
17.5	402	1.3	80	
14	473	1.0	100	
1.5kW				
186.7	67	1.9	7.5	WMRV63
140	89	1.5	10	
93.3	127	1.1	15	
70	166	0.8	20	

输出转速 Output speed (r/min)	输出转矩 Output torque (N.m)	使用系数 (fs)	传动比 Ratio (i)	机型号 Type
1.5kW				
140	90	2.2	10	WMRV75
93.3	130	1.5	15	
70	168	1.3	20	
56	205	1.0	25	
46.7	233	1.0	30	
70	171	2.1	20	WMRV90
56	210	1.6	25	
46.7	239	1.7	30	
35	307	1.2	40	
28	368	0.9	50	
23.3	424	0.8	60	
35	319	2.2	40	WMRV110
28	384	1.7	50	
23.3	442	1.4	60	
17.5	548	0.9	80	
2.2kW				
186.7	100	1.8	7.5	WMRV75
140	132	1.5	10	
93.3	191	1.0	15	
70	240	0.9	20	
46.7	269	0.8	30	
186.7	101	2.9	7.5	WMRV90
140	134	2.3	10	
93.3	194	1.9	15	
70	252	1.4	20	
56	308	1.1	25	
46.7	351	1.2	30	
35	433	1.0	40	
28	393	0.9	50	
70	255	2.5	20	WMRV110
56	315	2.2	25	
46.7	356	2.0	30	
35	468	1.5	40	
28	563	1.2	50	
23.3	648	1.0	60	
35	468	2.2	40	WMRV130
28	563	1.7	50	
23.3	648	1.4	60	
17.5	816	1.0	80	
14	869	0.8	100	
28	570	2.5	50	WMRV150
23.3	657	1.9	60	
17.5	816	1.4	80	
14	960	1.0	100	

输出转速 Output speed (r/min)	输出转矩 Output torque (N.m)	使用系数 (fs)	传动比 Ratio (i)	机型号 Type
3kW				
186.7	136	1.4	7.5	WMRV75
140	180	1.1	10	
93.3	261	0.8	15	
186.7	138	2.1	7.5	WMRV90
140	182	1.7	10	
93.3	264	1.4	15	
70	344	1.0	20	
56	420	0.8	25	
46.7	479	0.9	30	
93.3	264	2.5	15	WMRV110
70	348	1.9	20	
56	430	1.6	25	
46.7	485	1.5	30	
35	638	1.1	40	
28	767	0.9	50	
56	429	2.2	25	WMRV130
46.7	491	2.1	30	
35	638	1.6	40	
28	767	1.3	50	
23.3	884	1.0	60	
17.5	1113	0.8	80	
28	777	1.8	50	WMRV150
23.3	896	1.4	60	
17.5	1113	1.0	80	
14	1310	0.8	100	
4kW				
186.7	182	1.0	7.5	WMRV75
140	240	0.8	10	
186.7	184	1.6	7.5	WMRV90
140	243	1.3	10	
93.3	352	1.0	15	
70	458	0.8	20	
140	242	2.5	10	WMRV110
93.3	352	1.9	15	
70	464	1.4	20	
56	573	1.2	25	
46.7	647	1.1	30	
56	573	1.6	25	WMRV130
46.7	655	1.6	30	
35	851	1.2	40	
28	1023	1.0	50	
23.3	1179	0.8	60	

输出转速 Output speed (r/min)	输出转矩 Output torque (N.m)	使用系数 (fs)	传动比 Ratio (i)	机型号 Type
4kW				
28	1036	1.4	50	WMRV150
23.3	1195	1.1	60	
17.5	1484	0.8	80	
28	1019	2.3	50	WMRV185
23.3	1195	1.9	60	
17.5	1500	1.4	80	
14	1766	1.0	100	
5.5kW				
186.7	253	2.2	7.5	WMRV110
140	334	1.8	10	
93.3	484	1.4	15	
70	638	1.0	20	
56	711	0.9	25	
140	333	2.5	10	WMRV130
93.3	490	1.9	15	
70	645	1.4	20	
56	788	1.2	25	
46.7	900	1.2	30	
35	1171	0.9	40	
28	1103	0.8	50	
70	645	2.0	20	WMRV150
56	788	1.5	25	
46.7	934	1.3	30	
35	1171	1.3	40	
28	1426	1.0	50	
23.3	1643	0.8	60	
56	777	2.5	25	WMRV185
46.7	864	2.5	30	
35	1168	2.2	40	
28	1402	1.7	50	
23.3	1643	1.4	60	
17.5	2063	1.0	80	
7.5kW				
186.7	345	1.6	7.5	WMRV110
140	455	1.3	10	
93.3	660	1.0	15	
186.7	349	2.1	7.5	WMRV130
140	455	1.8	10	
93.3	668	1.4	15	
70	880	1.0	20	
56	1074	0.9	25	
46.7	1228	0.8	30	
35	1596	0.7	40	

输出转速 Output speed (r/min)	输出转矩 Output torque (N.m)	使用系数 (fs)	传动比 Ratio (i)	机型号 Type
7.5kW				
70	880	1.5	20	WMRV150
56	1074	1.1	25	
46.7	1274	0.9	30	
35	1596	1.0	40	
56	1060	1.8	25	WMRV185
46.7	1179	1.9	30	
35	1593	1.6	40	
28	1911	1.2	50	
23.3	2240	1.0	60	
11kW				
186.7	512	2.3	7.5	WMRV150
140	675	1.8	10	
93.3	990	1.3	15	
70	1291	1.0	20	
56	1576	0.8	25	
93.3	922	1.9	15	WMRV185
70	1274	1.8	20	
56	1554	1.2	25	
46.7	1729	1.3	30	
35	2336	1.1	40	
28	2803	0.8	50	
15kW				
186.7	698	1.7	7.5	WMRV150
140	921	1.3	10	
93.3	1351	0.9	15	
70	1760	0.7	20	
140	900	2.0	10	WMRV185
93.3	1257	1.4	15	
70	1737	1.3	20	
56	2120	0.9	25	
46.7	2357	0.9	30	
18.5KW				
186.7	823	2.1	7.5	WMRV185
140	1110	1.6	10	
93.3	1550	1.1	15	
70	2143	1.0	20	
22KW				
186.7	979	1.8	7.5	WMRV185
140	1320	1.3	10	
93.3	1844	0.9	15	
70	2548	0.9	20	

双级减速机（法兰输入，输入转速1400r/min)/(配4级电机)
Double step reducer(flange input,input speed is 1400r/min)/(matched with 4 poles moter)

输出转速 Output speed (r/min)	输出转矩 Output torque (N.m)	使用系数 (fs)	高速级传动比 High speed transmission ratio (i1)	低速级传动比 Low speed transmission ratio (i2)	总传动比 General transmission ratio (i)	组合机型规格 Combination model size
0.06kW						
14	25	1.3	10	10	100	25/30
9.3	32	0.9	10	15	150	
7	41	0.7	10	20	200	
5.6	44	0.8	10	25	250	
4.7	59	1.2	10	30	300	25/40
3.5	71	0.9	10	40	400	
2.8	82	0.7	20	25	500	
2.3	101	0.6	20	30	600	
1.9	116	0.5	25	30	750	
1.6	143	0.5	30	30	900	
1.2	171	0.4	30	40	1200	
0.9	197	0.3	50	30	1500	
0.78	217	0.3	60	30	1800	
0.6	268	0.2	60	40	2400	
0.5	324	0.2	60	50	3000	
0.4	294	0.1	50	80	4000	
0.3	356	0.1	50	100	5000	
4.7	57	1.3	10	30	300	30/40
3.5	70	0.9	10	40	400	
2.8	96	0.6	20	25	500	
2.3	104	0.7	20	30	600	
1.9	121	0.6	25	30	750	
1.6	139	0.5	30	30	900	
1.2	166	0.4	30	40	1200	
0.9	196	0.4	50	30	1500	
0.78	218	0.3	60	30	1800	
0.58	261	0.2	60	40	2400	
0.4	300	0.2	80	40	3200	
0.4	279	0.1	50	80	4000	
0.28	338	0.1	50	100	5000	
1.6	141	1.0	30	30	900	30/50
1.2	169	0.7	30	40	1200	
0.93	199	0.7	50	30	1500	
0.78	222	0.7	60	30	1800	
0.6	266	0.5	60	40	2400	
0.5	307	0.4	60	50	3000	
0.35	288	0.3	50	80	4000	
0.29	311	0.3	60	80	4800	
0.9	203	1.1	30	50	1500	30/63
0.78	225	0.9	30	60	1800	
0.58	276	0.8	60	40	2400	
0.47	319	0.7	60	50	3000	
0.35	306	0.6	50	80	4000	
0.28	360	0.4	50	100	5000	
0.6	330	1.1	60	40	2400	40/75
0.47	377	0.8	60	50	3000	

输出转速 Output speed (r/min)	输出转矩 Output torque (N.m)	使用系数 (fs)	高速级传动比 High speed transmission ratio (i1)	低速级传动比 Low speed transmission ratio (i2)	总传动比 General transmission ratio (i)	组合机型规格 Combination model size
0.06kW						
0.35	355	0.7	50	80	4000	40/75
0.28	419	0.5	50	100	5000	
0.5	405	1.4	60	50	3000	40/90
0.35	365	1.3	50	80	4000	
0.28	431	1.0	50	100	5000	
0.09kW						
14	37	0.8	10	10	100	25/30
9.3	49	0.6	10	15	150	
7	62	0.5	10	20	200	
5.6	66	0.5	10	25	250	
4.7	75	0.4	10	30	300	
3.5	107	0.3	10	40	400	
2.8	115	0.2	20	25	500	
2.3	135	0.2	20	30	600	
1.9	151	0.2	25	30	750	
1.6	178	0.2	30	30	900	
1.2	212	0.1	30	40	1200	
0.9	247	0.1	50	30	1500	
0.78	304	0.1	60	30	1800	
0.58	340	0.1	60	40	2400	
0.47	405	0.1	60	50	3000	
4.7	88	0.8	10	30	300	30/40
3.5	107	1.2	10	40	400	30/50
2.8	123	1.0	10	50	500	
2.3	159	0.9	20	30	600	
1.9	185	0.8	25	30	750	
1.6	212	0.7	30	30	900	
1.6	200	1.0	15	60	900	30/63
1.2	263	0.9	30	40	1200	
0.93	305	0.7	30	50	1500	
0.9	359	1.1	50	30	1500	40/75
0.78	404	1.0	60	30	1800	
0.58	496	0.7	60	40	2400	
0.5	608	0.9	60	50	3000	40/90
0.35	548	0.8	50	80	4000	
0.12kW			10			
4.7	118	1.2	10	30	300	30/50
3.5	142	0.9		40	400	
2.8	164	0.7	10	50	500	
2.8	171	1.3	10	50	500	30/63
2.3	208	1.1	15	40	600	
1.9	241	0.9	15	50	750	

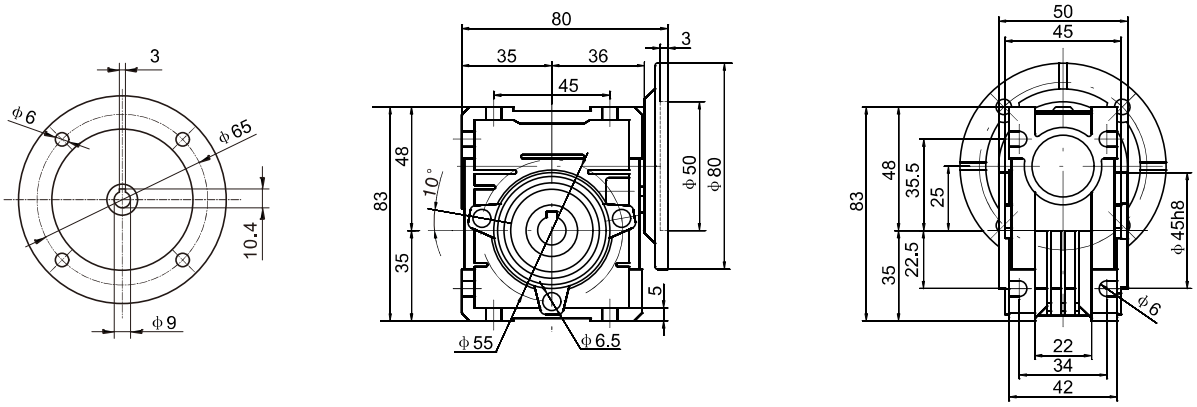
输出转速 Output speed (r/min)	输出转矩 Output torque (N.m)	使用系数 (fs)	高速级传动比 High speed transmission ratio (i1)	低速级传动比 Low speed transmission ratio (i2)	总传动比 General transmission ratio (i)	组合机型规格 Combination model size
0.12kW						
1.6	324	1.2	30	30	900	40/75
1.2	399	0.9	30	40	1200	
0.78	546	0.9	30	60	1800	40/90
0.58	695	0.9	60	40	2400	
0.5	883	1.2	60	50	3000	50/110
0.35	784	1.0	50	80	4000	
0.28	928	0.8	50	100	5000	
0.18kW						
3.5	221	1.0	10	40	400	30/63
2.8	257	0.8	10	50	500	
2.3	362	1.1	20	30	600	40/75
1.9	435	0.9	25	30	750	
1.6	487	0.8	30	30	900	
1.2	629	1.0	30	40	1200	40/90
0.93	735	0.8	30	50	1500	
0.78	860	1.5	60	30	1800	50/110
0.58	1113	1.1	60	40	2400	
0.25kW						
3.5	336	1.1	10	40	400	40/75
2.8	384	0.8	10	50	500	
2.3	511	1.2	15	40	600	40/90
1.9	598	0.9	15	50	750	
1.6	667	0.8	15	60	900	
1.2	943	1.3	30	40	1200	50/110
0.93	1064	1.2	50	30	1500	
0.78	1195	1.1	60	30	1800	
0.6	1624	1.0	60	40	2400	63/130
0.47	1935	0.8	60	50	3000	
0.35	2046	0.6	50	80	4000	
0.28	2430	0.5	50	100	5000	
0.78	1199	1.8	60	30	1800	63/150
0.6	1446	1.8	60	40	2400	
0.5	1713	1.4	60	50	3000	
0.4	2026	0.9	50	80	4000	
0.3	2251	0.7	50	100	5000	
0.37kW						
4.7	405	1.0	10	30	300	40/75
3.5	498	0.7	10	40	400	
4.7	401	1.5	7.5	40	300	40/90
3.5	523	1.2	10	40	400	
2.8	611	0.9	10	50	500	
2.3	757	0.8	15	40	600	

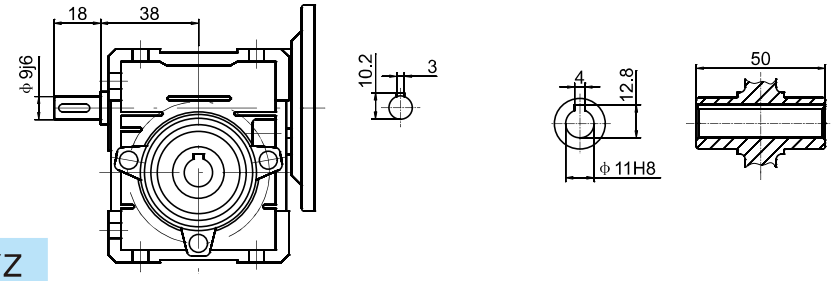
输出转速 Output speed (r/min)	输出转矩 Output torque (N.m)	使用系数 (fs)	高速级传动比 High speed transmission ratio (i1)	低速级传动比 Low speed transmission ratio (i2)	总传动比 General transmission ratio (i)	组合机型规格 Combination model size
0.25kW						
1.9	949	1.3	25	30	750	50/110
1.6	1079	1.2	30	30	900	
1.2	1396	0.8	30	40	1200	
0.9	1674	1.1	50	30	1500	63/130
0.78	1887	0.9	60	30	1800	
0.78	1774	1.2	60	30	1800	63/150
0.6	2141	1.2	60	40	2400	
0.5	2535	0.9	60	50	3000	
0.55kW						
4.7	639	2.0	10	30	300	50/110
3.5	826	1.4	10	40	400	
2.8	984	1.1	10	50	500	
2.3	1181	1.0	15	40	600	
1.9	1411	0.9	25	30	750	
2.8	995	1.6	10	50	500	63/130
1.9	1470	1.2	25	30	750	
1.2	2132	0.8	30	40	1200	
0.78	2637	0.8	60	30	1800	63/150
0.6	3182	0.8	60	40	2400	
0.75kW						
4.7	871	1.5	10	30	300	50/110
3.5	1126	1.1	10	40	400	
2.8	1357	1.1	10	50	500	63/130
2.3	1631	1.0	15	40	600	
1.9	2005	0.9	25	30	750	
1.6	2283	0.8	30	30	900	
2.8	1290	1.8	10	50	500	63/150
2.3	1529	1.7	15	40	600	
1.9	1783	1.3	25	30	750	
1.6	2215	0.9	30	30	900	
1.2	2680	1.0	30	40	1200	
1.1 kW						
4.7	1312	1.3	10	30	300	63/130
3.5	1671	1.0	10	40	400	
2.8	1991	0.8	10	50	500	
9.3	752	3.1	10	15	150	63/150
7	966	2.4	10	20	200	
5.6	1175	1.7	10	25	250	
4.7	1364	1.7	10	30	300	
3.5	1619	1.6	10	40	400	
2.8	1893	1.2	10	50	500	
2.3	2242	1.2	15	40	600	
1.9	2616	0.9	25	30	750	

输出转速 Output speed (r/min)	输出转矩 Output torque (N.m)	使用系数 (fs)	高速级传动比 High speed transmission ratio (i1)	低速级传动比 Low speed transmission ratio (i2)	总传动比 General transmission ratio (i)	组合机型规格 Combination model size
1.5kW						
4.7	1789	1.0	10	30	300	63/130
3.5	2279	0.7	10	40	400	
9.3	1026	2.3	10	15	150	63/150
7	1317	1.8	10	20	200	
5.6	1602	1.3	10	25	250	
4.7	1860	1.3	10	30	300	
3.5	2208	1.2	10	40	400	
2.8	2582	0.9	10	50	500	
2.3	3057	0.9	15	40	600	

外形尺寸图 / OUTLINE DIMENSION SHEET

WMRV25





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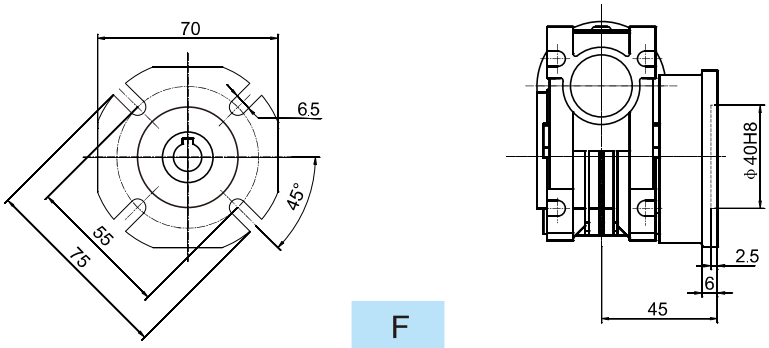
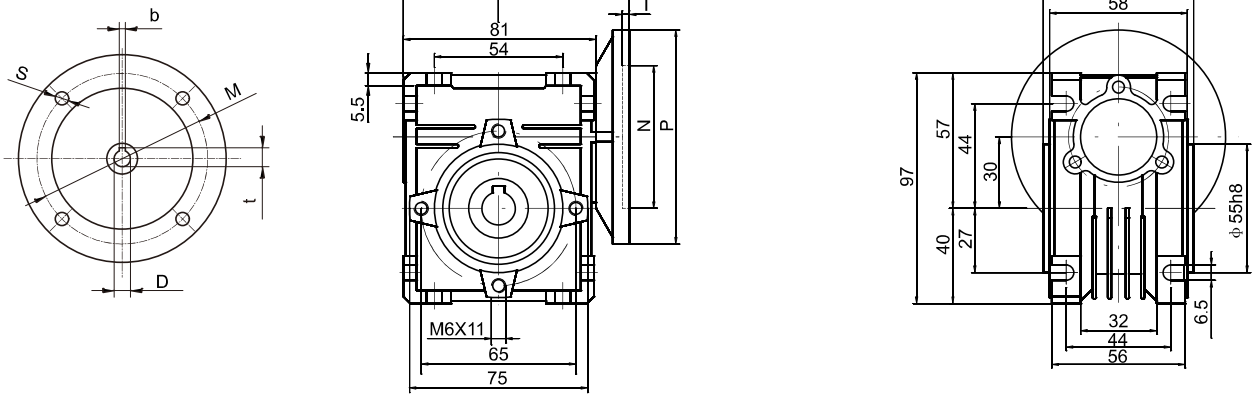
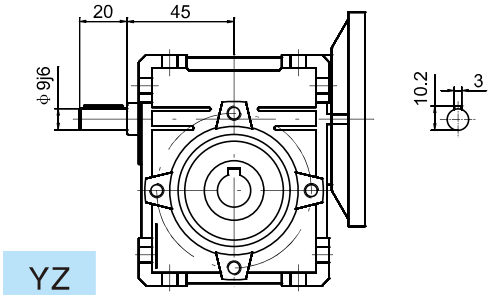


F

重量（不包含马达）≈0.8kg
Weight without motor ≈0.8kg

WMRV30





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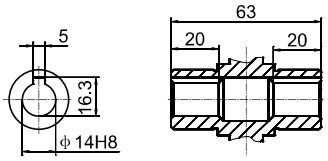
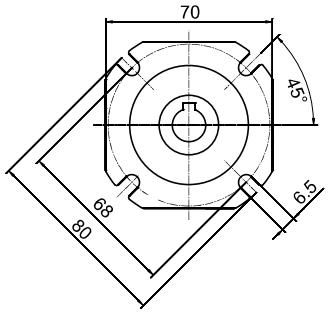
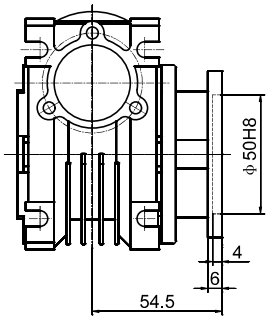




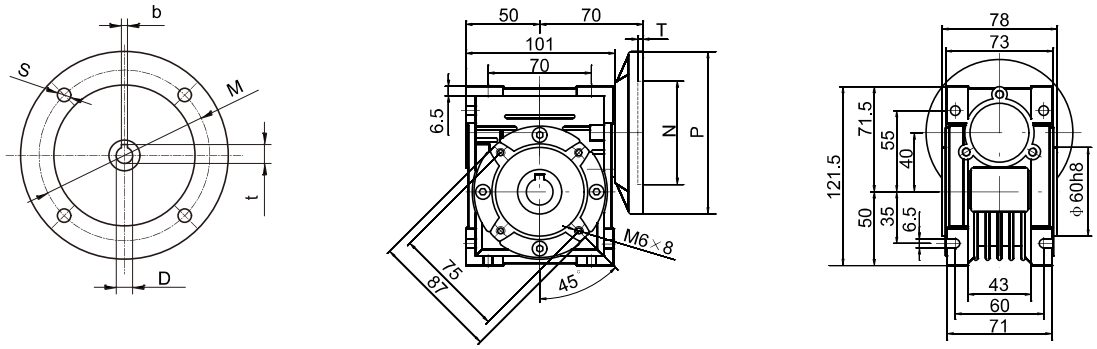


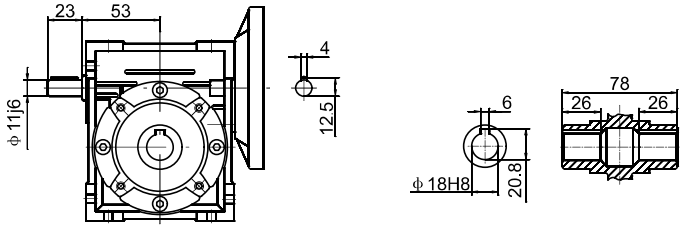
F

IEC	De8	b	t	P	M	N	S	T
56B5	9	3	10.4	120	100	80	7	3.5
56B14	9	3	10.4	80	65	50	5.5	3
63B14	11	4	12.8	90	75	60	5.5	3
63B5	11	4	12.8	140	115	95	9	3.5

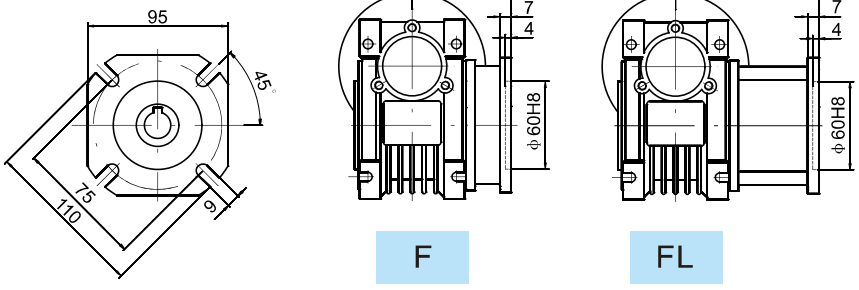
重量（不包含马达）≈1.2kg
Weight without motor ≈1.2kg

WMRV40

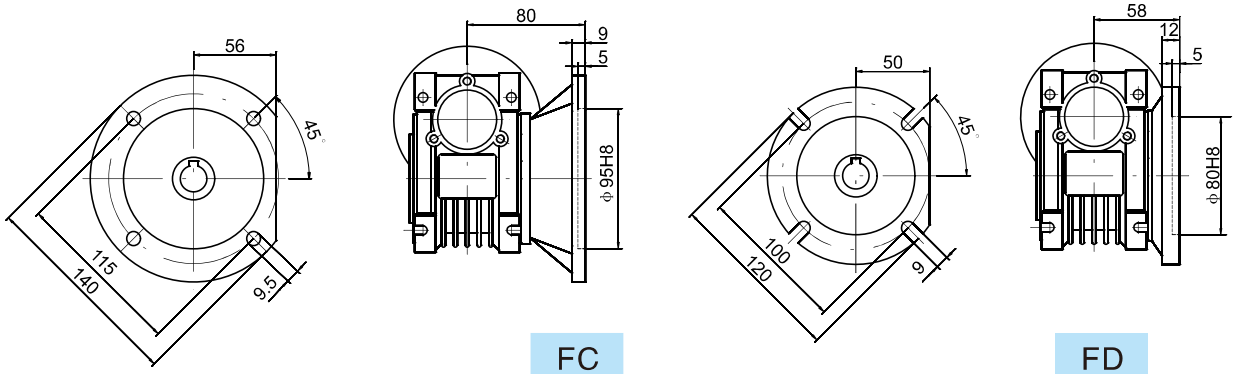




YZ



F FL

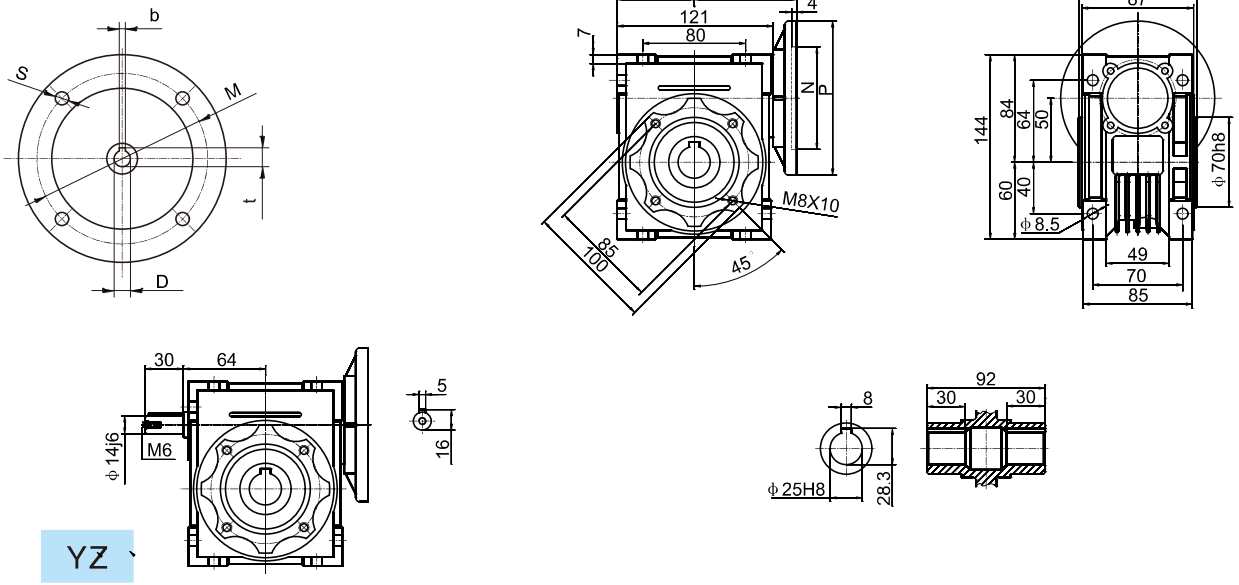


FC FD

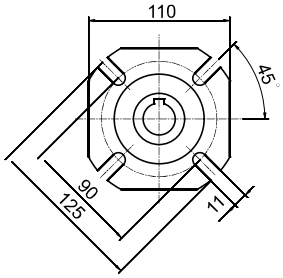
IEC	De8	b	t	P	M	N	S	T
56B14	9	3	10.4	80	65	50	5.5	3
63B5	11	4	12.8	140	115	95	9	3.5
63B14	11	4	12.8	90	75	60	5.5	3
71B5	14	5	16.3	160	130	110	9	4
71B14	14	5	16.3	105	85	70	7	3

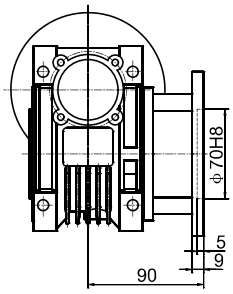
重量（不包含马达）≈2.2kg
Weight without motor ≈2.2kg

WMRV50



YZ





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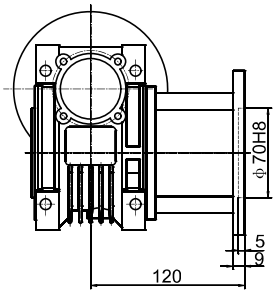
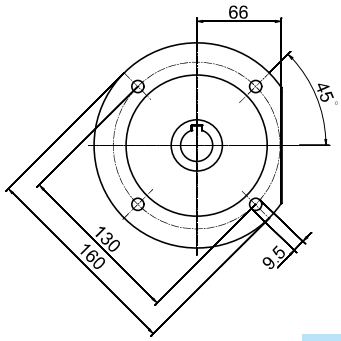
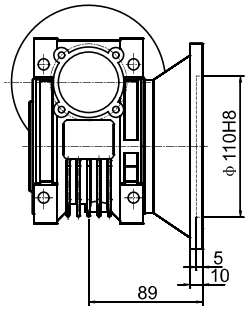
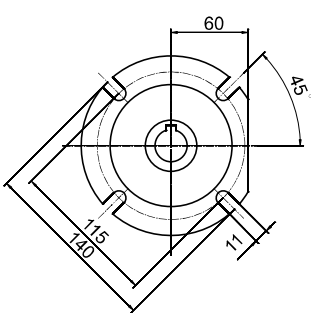


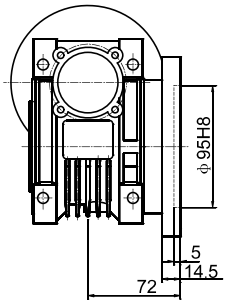
FL





FC



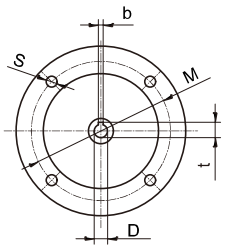


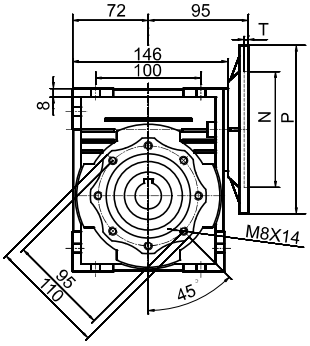
FD

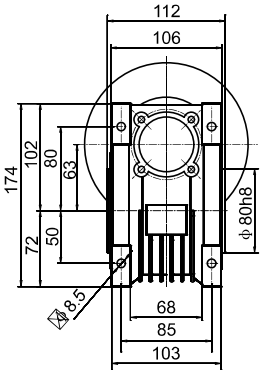
IEC	De8	b	t	P	M	N	S	T
63B14	11	4	12.8	90	75	60	5.5	3
63B5	11	4	12.8	140	115	95	9	3.5
71B5	14	5	16.3	160	130	110	9	4
71B14	14	5	16.3	105	85	70	7	3
80B5	19	6	21.8	200	165	130	11	4
80B14	19	6	21.8	120	100	80	7	3.5

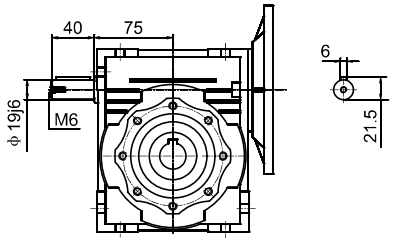
重量（不包含马达）≈3.8kg
Weight without motor ≈3.8kg

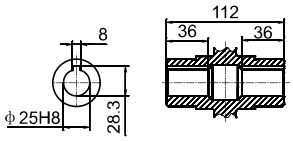
WMRV63



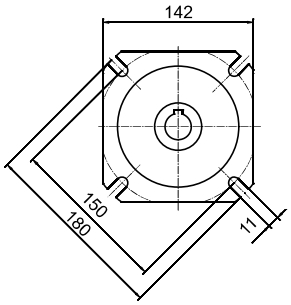


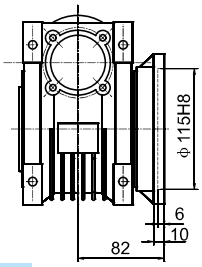






YZ





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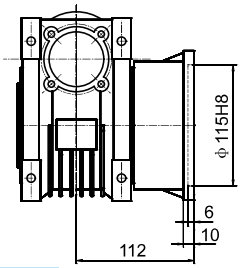

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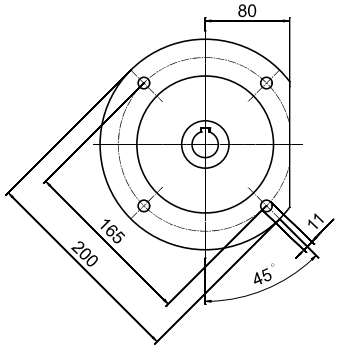
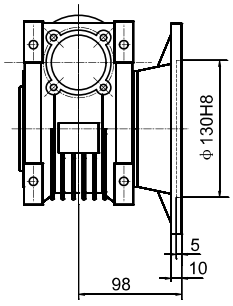
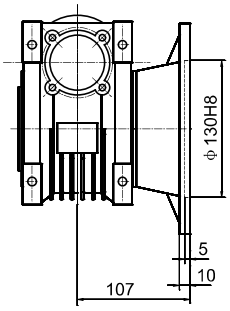




FC

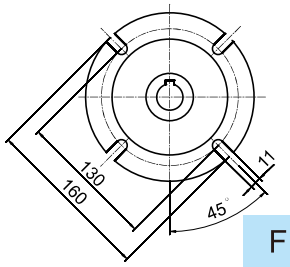


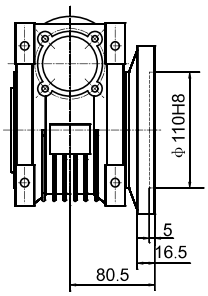
FD

重量（不包含马达）≈6.2kg

Weight without motor ≈6.2kg

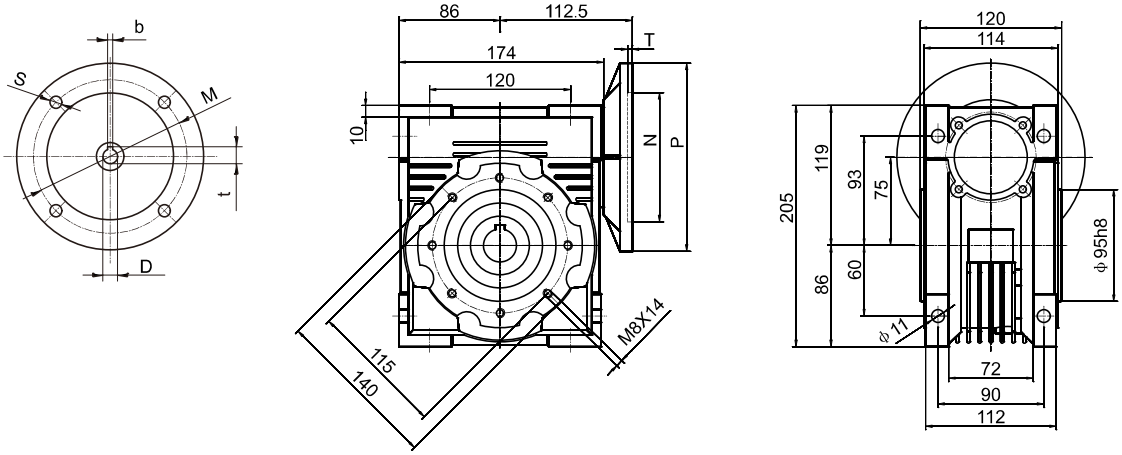
IEC	D_{E8}	b	t	P	M	N	S	T
71B5	14	5	16.3	160	130	110	9	4
71B14	14	5	16.3	105	85	70	7	3
80B5	19	6	21.8	200	165	130	11	4
80B14	19	6	21.8	120	100	80	7	3.5
90B5	24	8	27.3	200	165	130	11	4
90B14	24	8	27.3	140	115	95	9	3.5

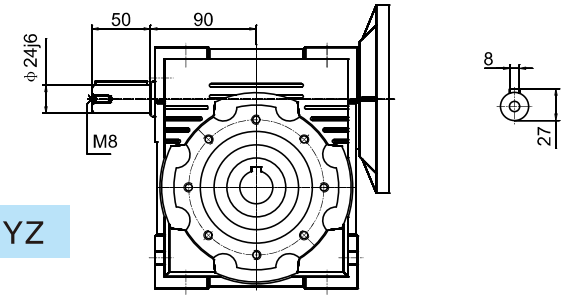




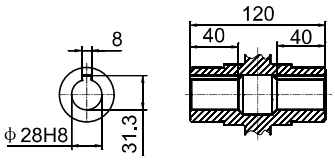
FE

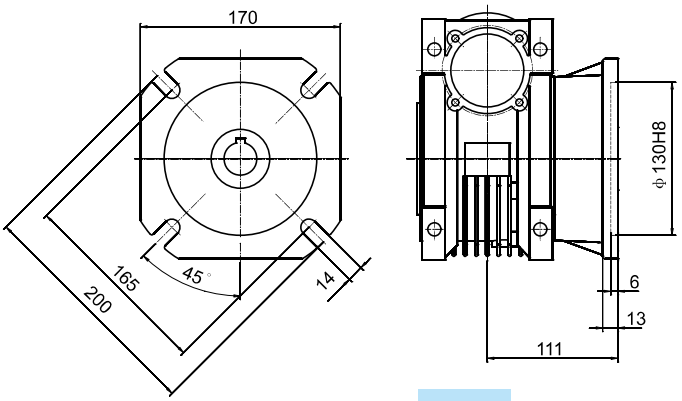
WMRV75



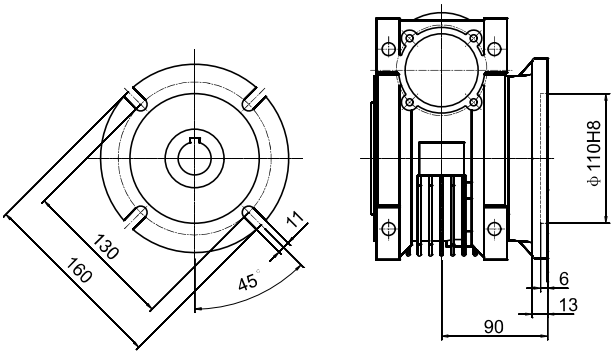


YZ





F

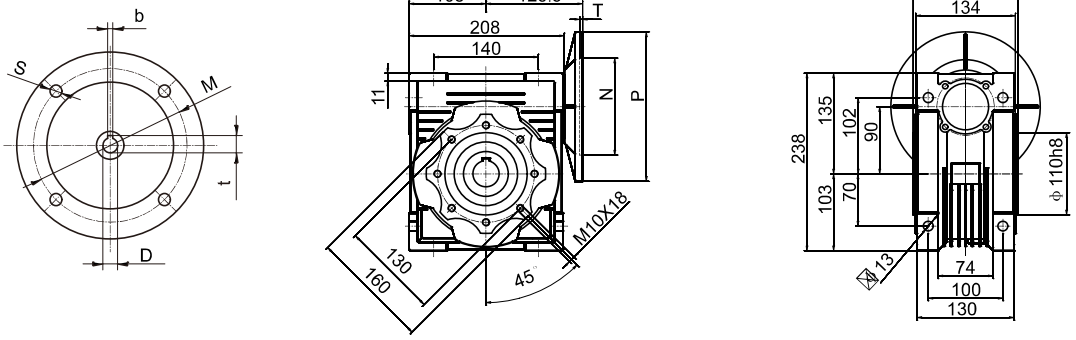


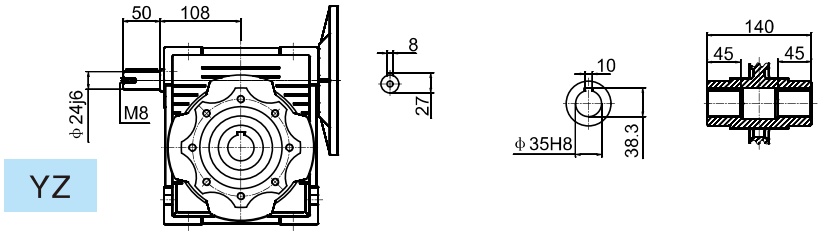
FB

IEC	D_{E8}	b	t	P	M	N	S	T
80B5	19	6	21.8	200	165	130	11	4
80B14	19	6	21.8	120	100	80	6.5	3.5
90B5	24	8	27.3	200	165	130	11	4
90B14	24	8	27.3	140	115	95	9	3.5
100/112B5	28	8	31.3	250	215	180	13.5	4
100/112B14	28	8	31.3	160	130	110	9	4.5

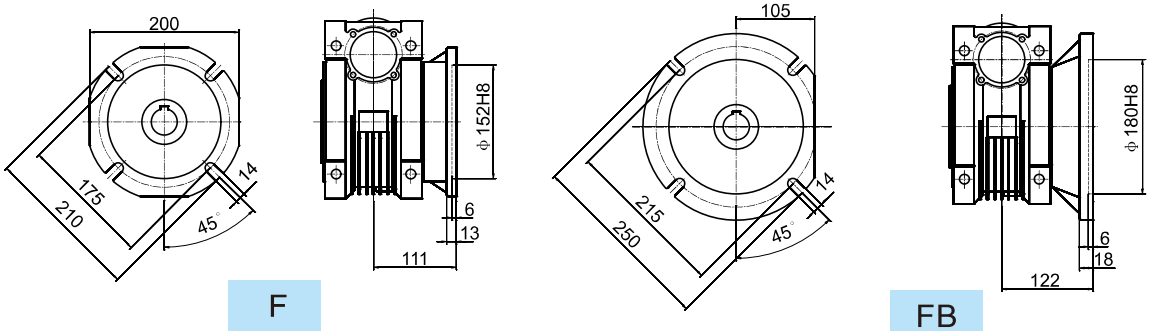
重量（不包含马达）≈9kg
Weight without motor ≈9kg

WMRV90



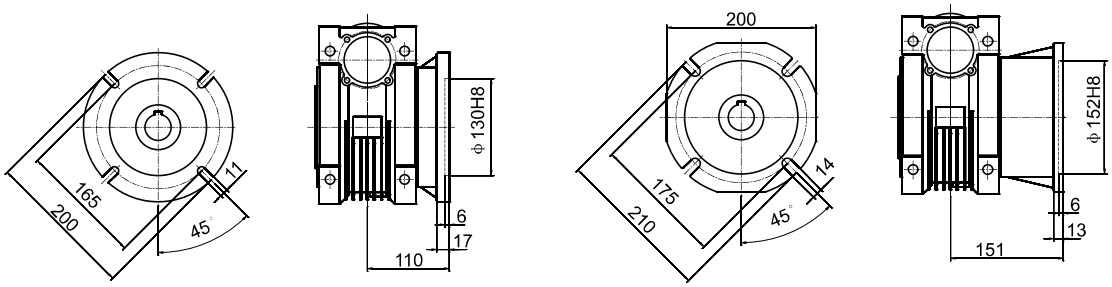


YZ



F

FB



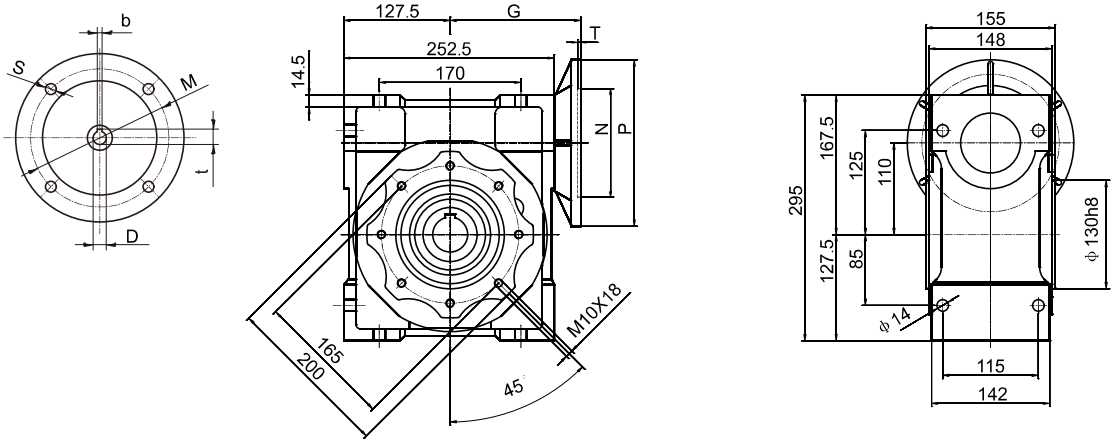
FC

FD

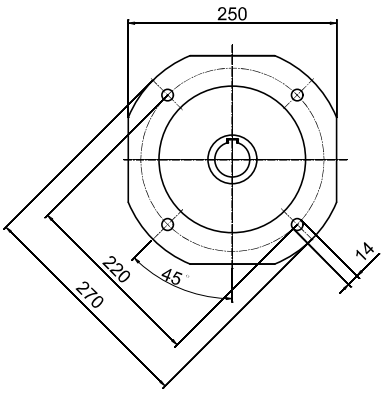
IEC	D E8	b	t	P	M	N	S	T
80B5	19	6	21.8	200	165	130	11	4
80B14	19	6	21.8	120	100	80	6.5	3.5
90B5	24	8	27.3	200	165	130	11	4
90B14	24	8	27.3	140	115	95	9	3.5
100/112B5	28	8	31.3	250	215	180	13.5	4
100/112B14	28	8	31.3	160	130	110	9	4.5

重量（不包含马达）≈12kg
Weight without motor ≈12kg

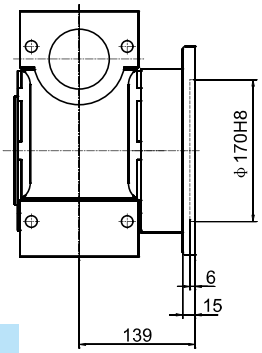
WMRV110

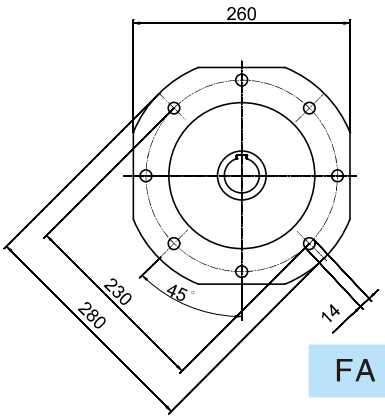


YZ

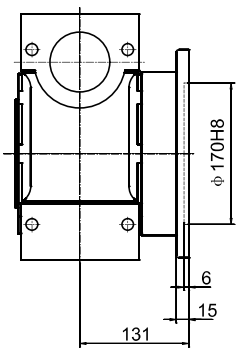


F





FA

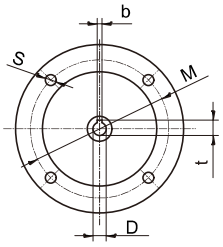


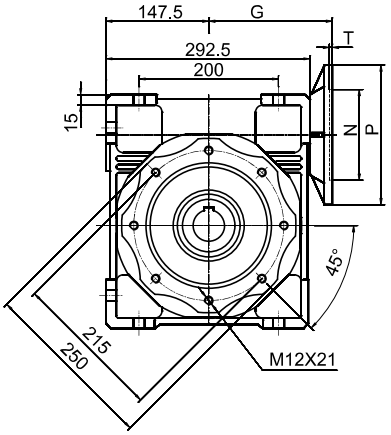
重量（不包含马达）≈38kg

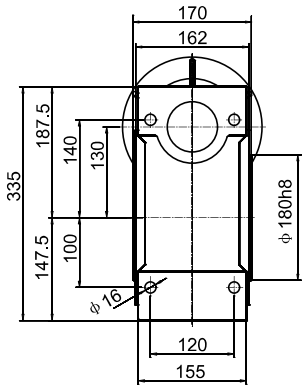
Weight without motor ≈38kg

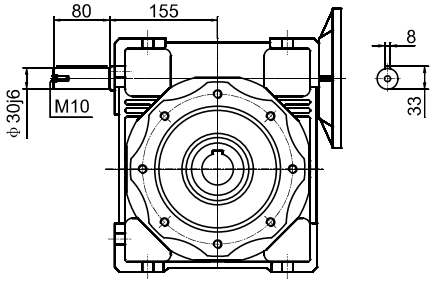
IEC	DE8	b	t	P	M	N	S	T	G
90B5	24	8	27.3	200	165	130	11	4	157
90B14	24	8	27.3	140	115	95	9	3.5	157
100/112B5	28	8	31.3	250	215	180	13.5	4	155
100/112B14	28	8	31.3	160	130	110	9	4.5	155
132B5	38	10	41.3	300	265	230	13.5	4.5	159

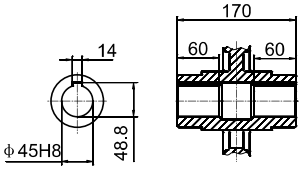
WMRV130



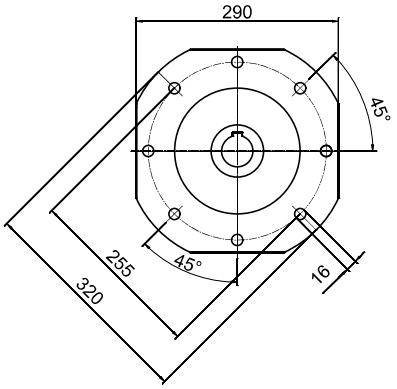




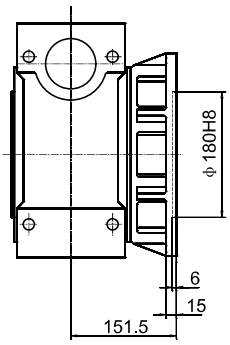




YZ



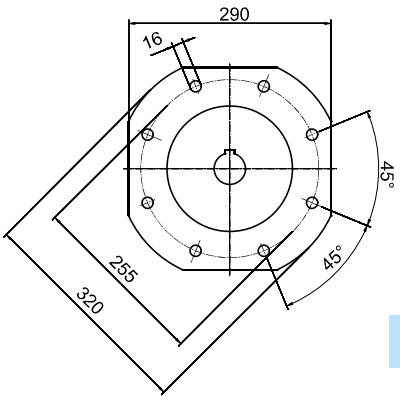
F



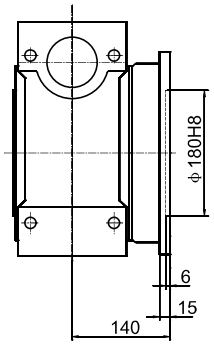
重量（不包含马达）≈55kg

Weight without motor ≈55kg

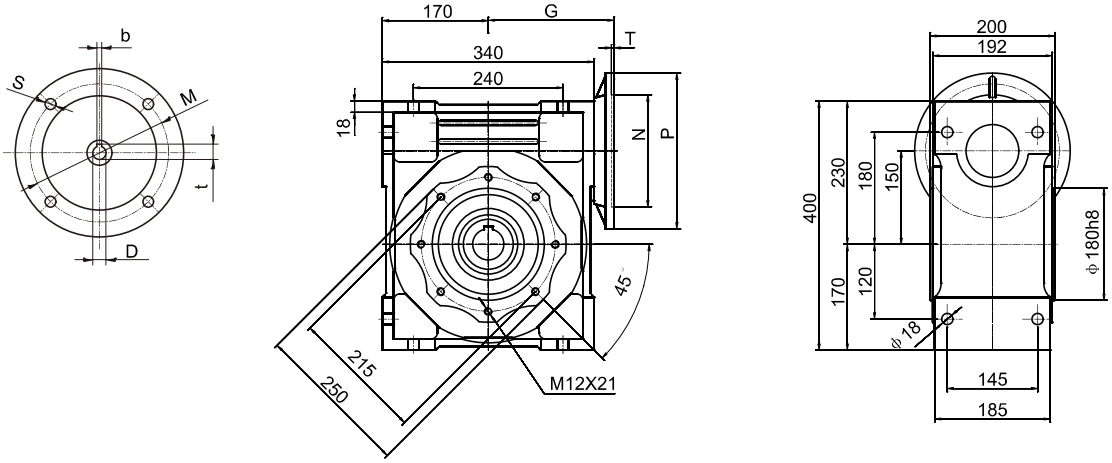
IEC	D_{E8}	b	t	P	M	N	S	T	G
90B5	24	8	27.3	200	165	130	11	4	177
90B14	24	8	27.3	140	115	95	9	3.5	177
100/112B5	28	8	31.3	250	215	180	13.5	4	175
100/112B14	28	8	31.3	160	130	110	9	4.5	175
132B5	38	10	41.3	300	265	230	13.5	4.5	179

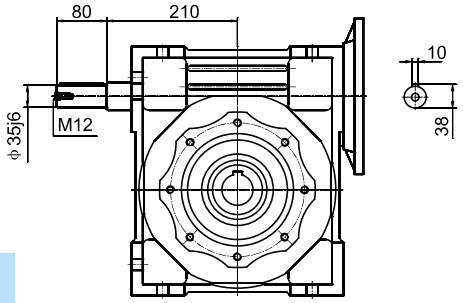


FA

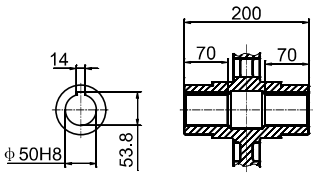


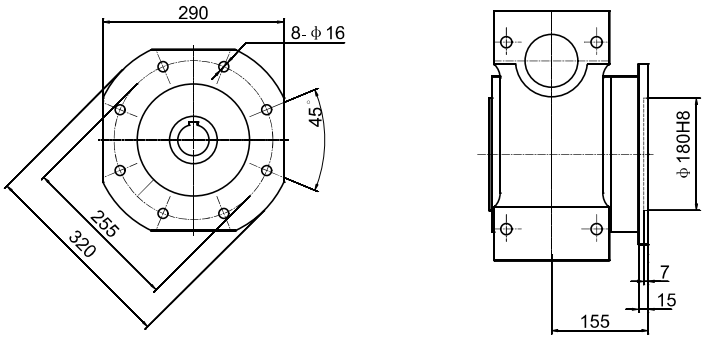
WMRV150





YZ





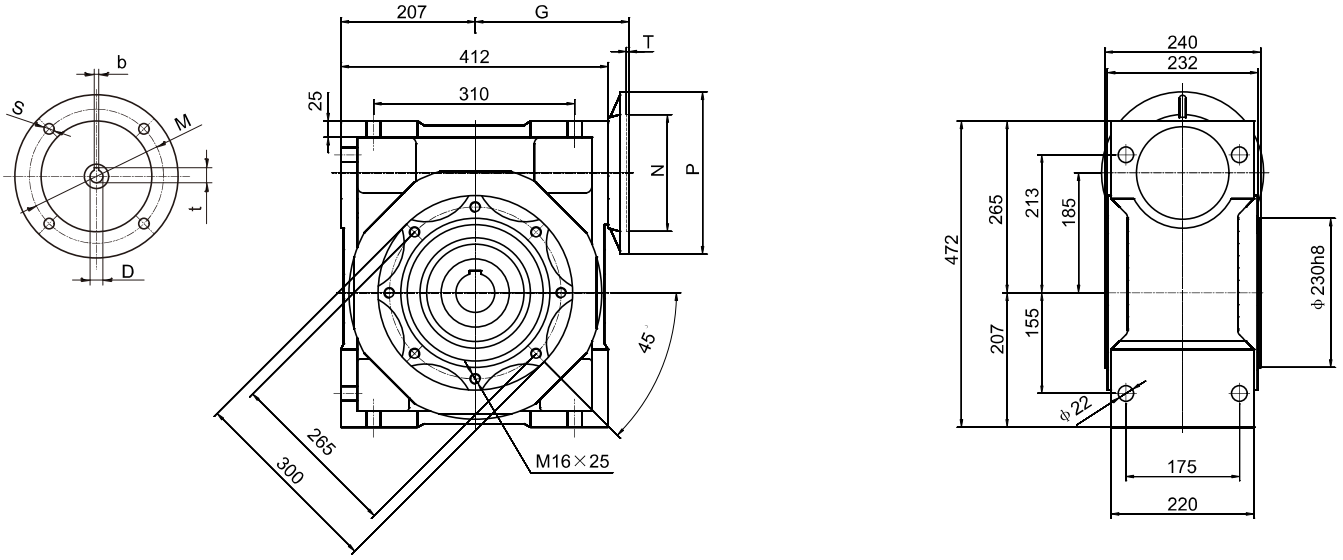
F

重量（不包含马达）≈105kg

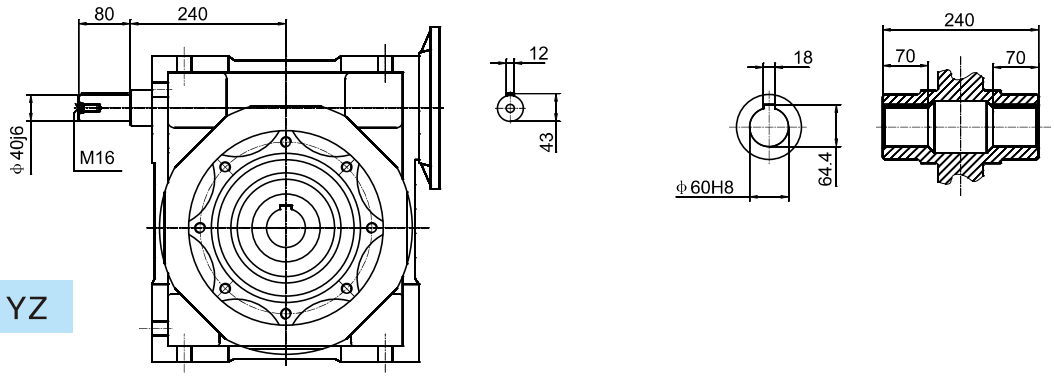
Weight without motor ≈105kg

IEC	D E8	b	t	P	M	N	S	T	G
100/112B5	28	8	31.3	250	215	180	13.5	4	202
132B5	38	10	41.3	300	265	230	13.5	4.5	202
160B5	42	12	45.3	350	300	250	18	6	212

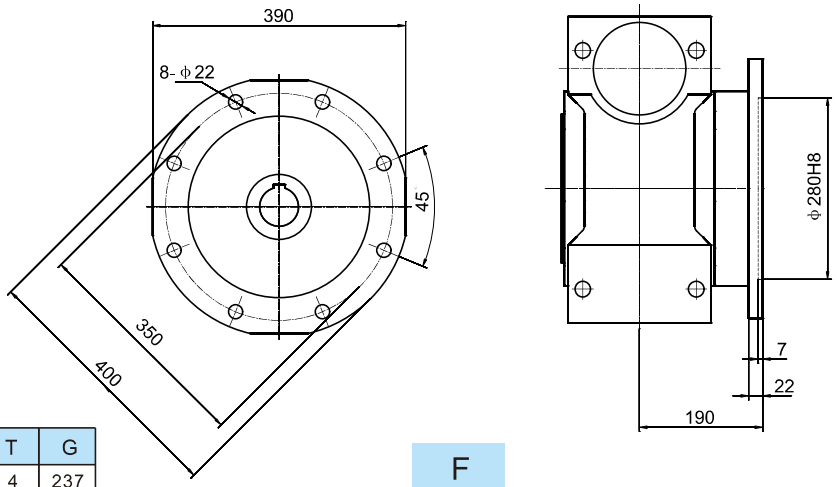
WMRV185



YZ



F

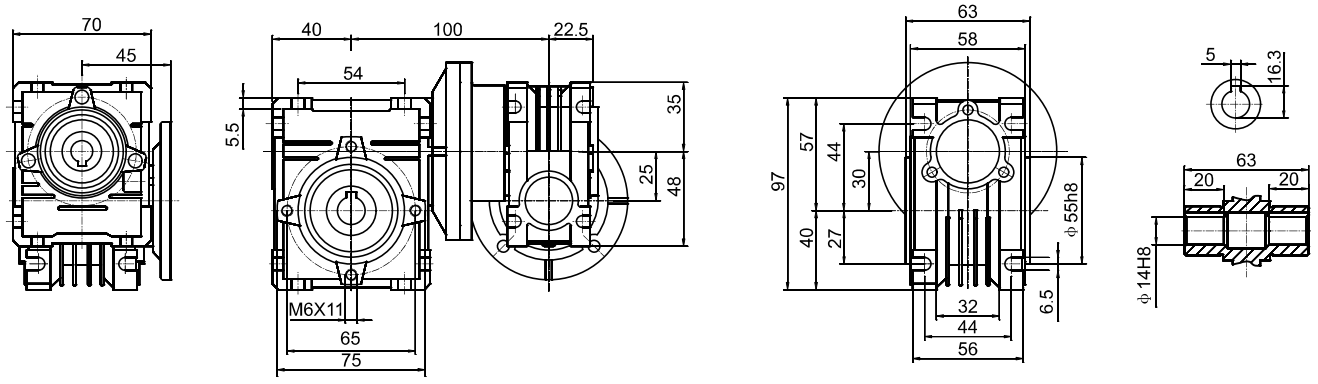


重量（不包含马达）≈200kg

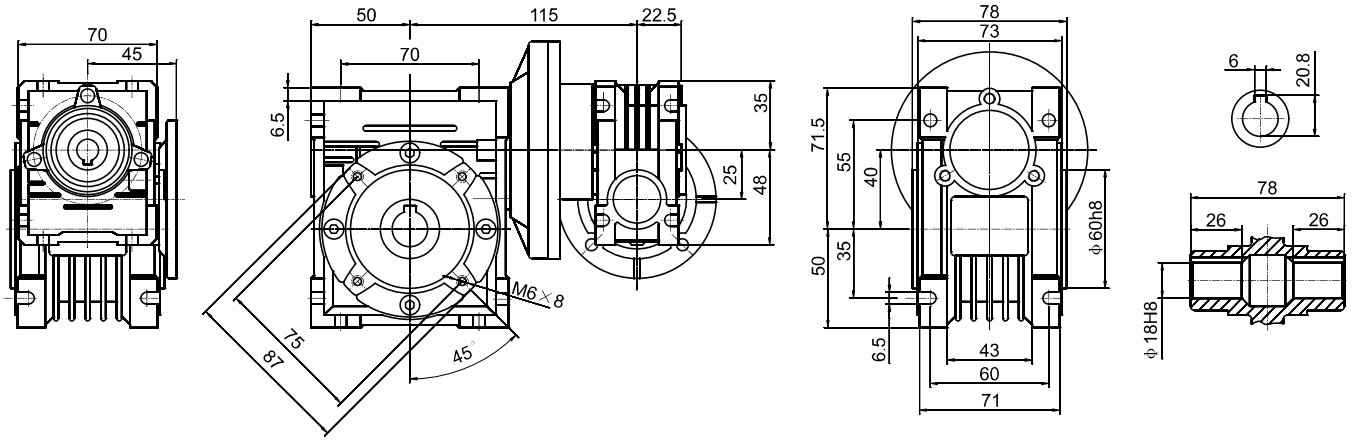
Weight without motor ≈200kg

IEC	DE8	b	t	P	M	N	S	T	G
100/112B5	28	8	31.3	250	215	180	13.5	4	237
132B5	38	10	41.3	300	265	230	13.5	4.5	237
160B5	42	12	45.3	350	300	250	18	6	247
180B5	48	14	51.8	350	300	250	18	6	247

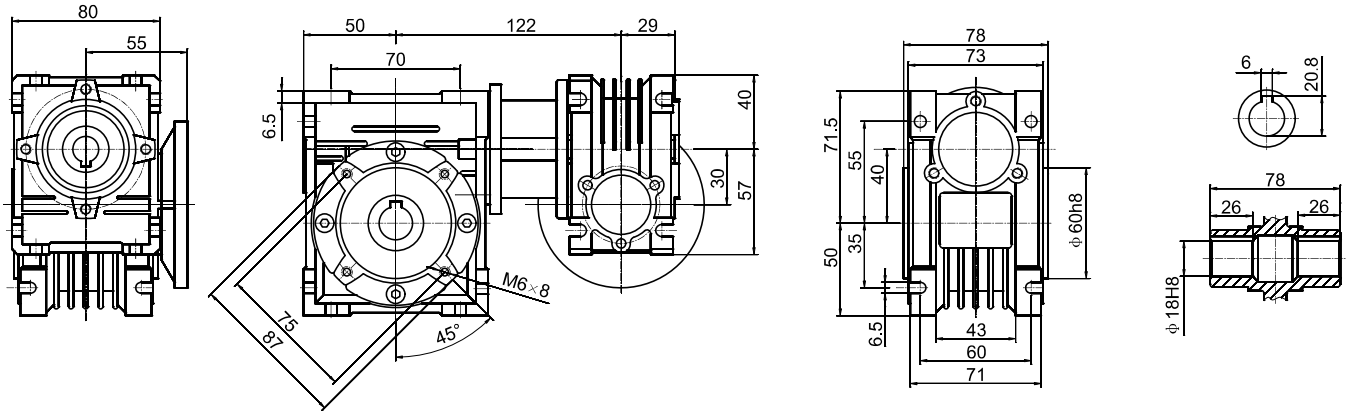
WMRV25/30



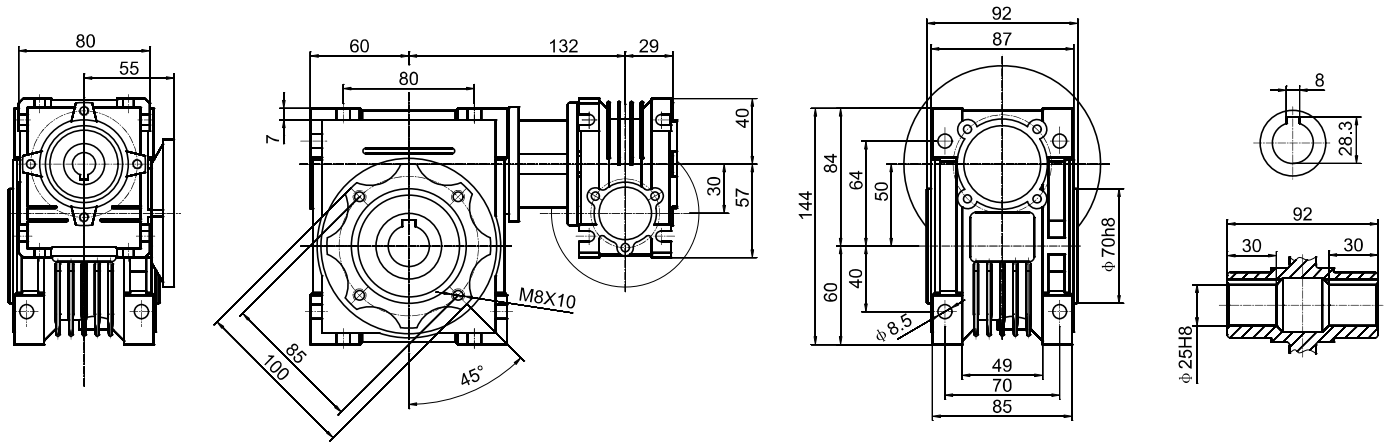
WMRV25/40



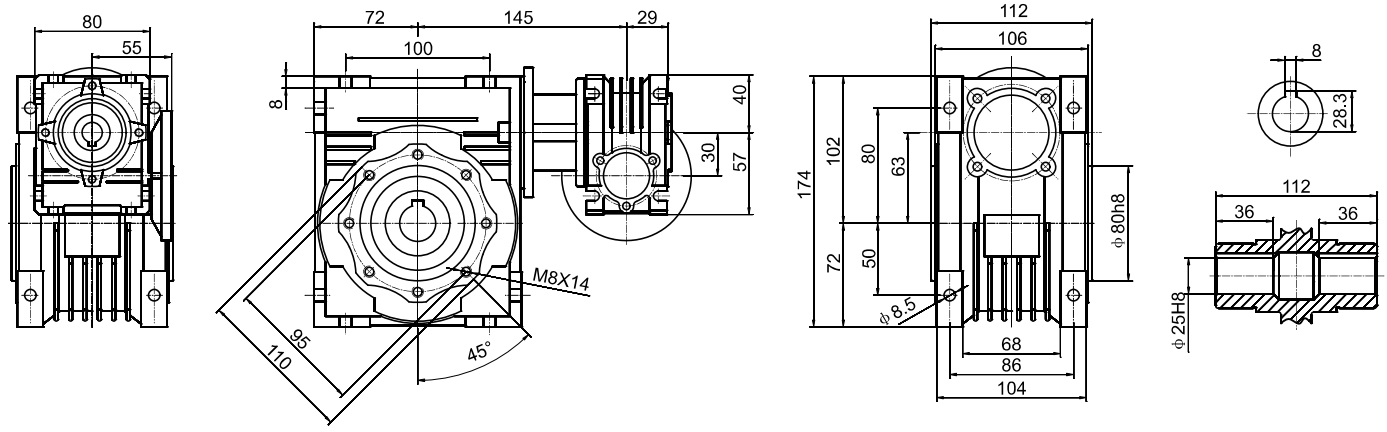
WMRV30/40



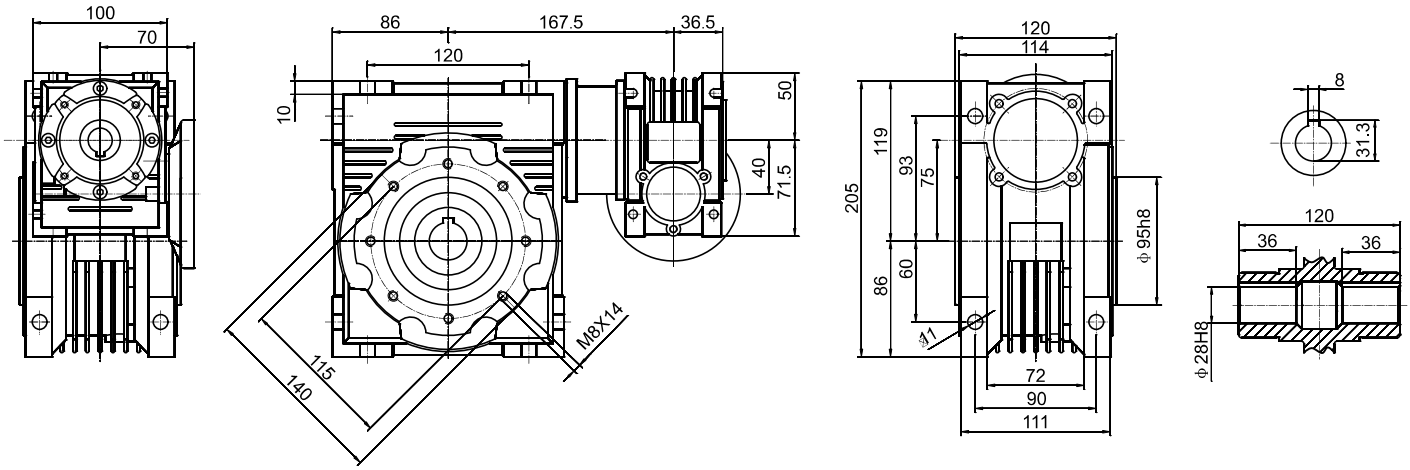
WMRV30/50



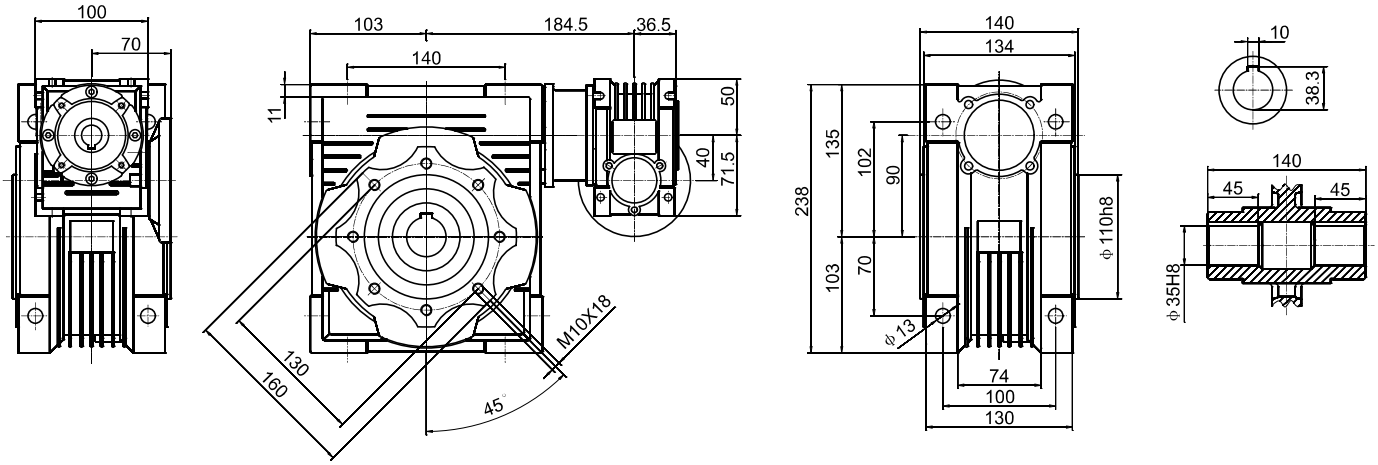
WMRV30/63



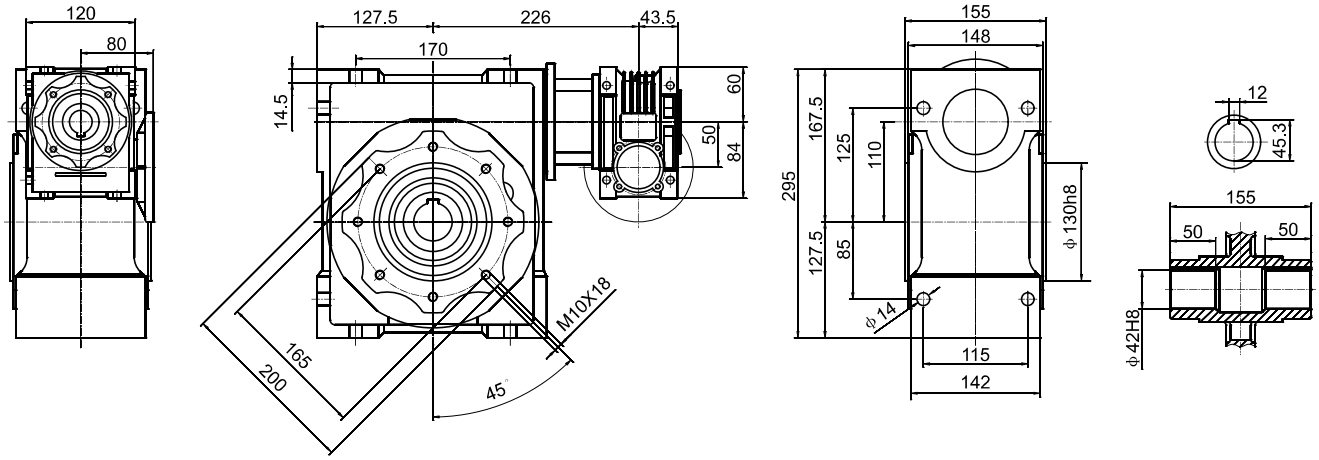
WMRV40/75



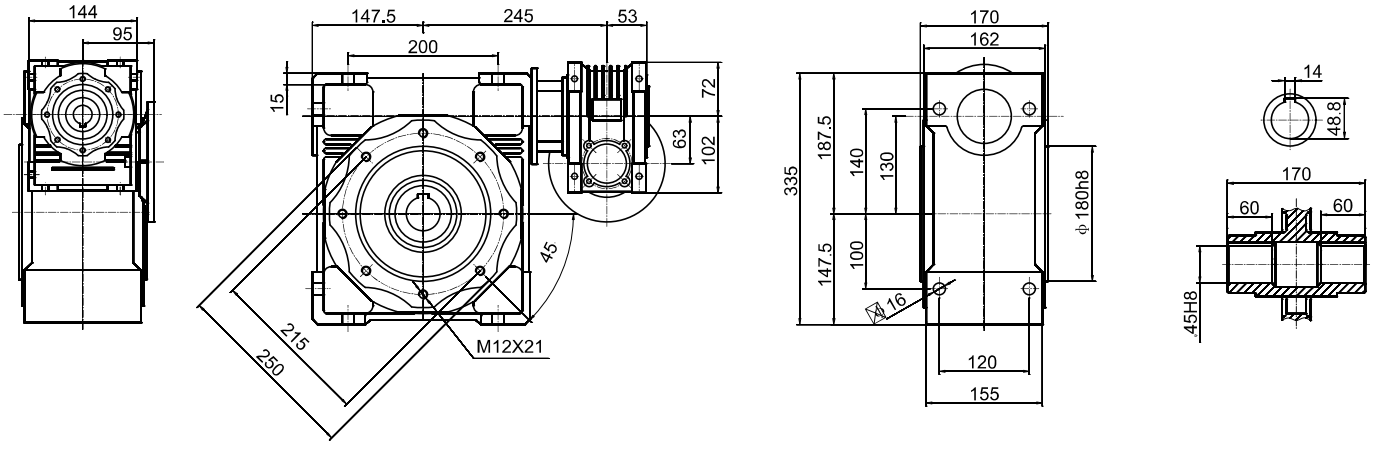
WMRV40/90



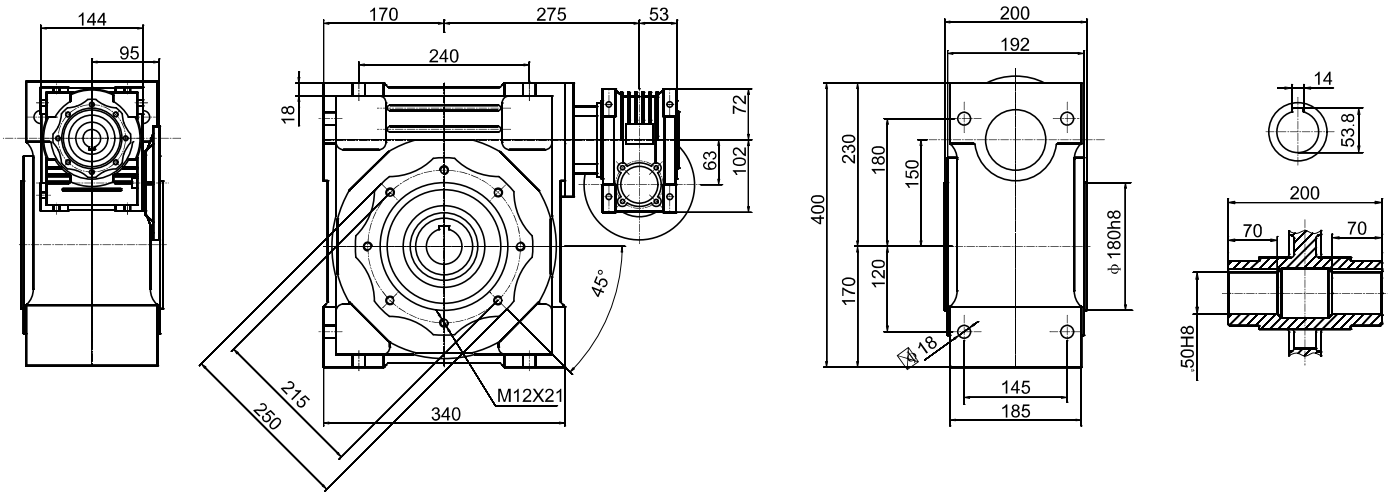
WMRV50/110

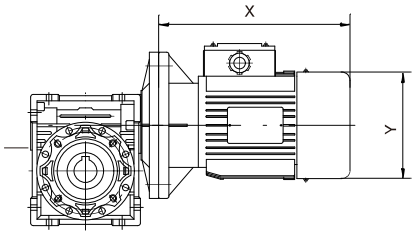


WMRV63/130



WMRV63/150


144
95
170
275
53
240
18
72
63
102
45°
215
250
340
M12X21
200
192
230
180
150
400
170
120
18
145
185
ϕ180h8
14
53.8
200
70
70
50H8

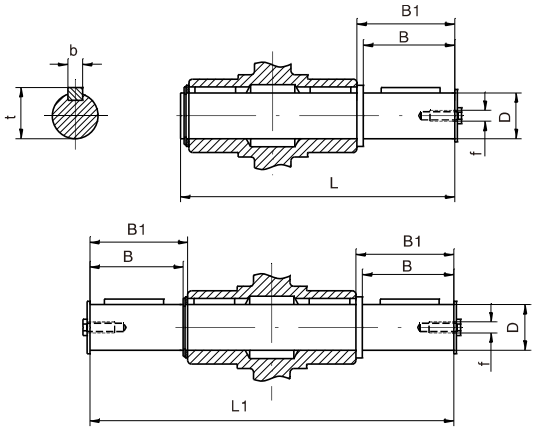


电动机外形尺寸一览表
Overall dimensions for electric motor

机座号	56		63		71		80		90		100		112	132		160		180	
功率（kw）	0.06	0.09	0.12	0.18	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3	4	5.5	7.5	11	15	18.5	22
X	175		200		240		245		270	295	315		340	390	430	520	565	580	615
Y	120		130		140		160		175		195		225	275		320		360	

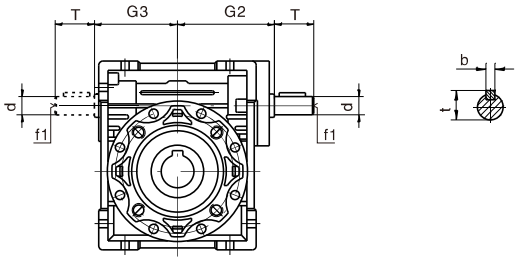
单向/双向输出轴尺寸
Dimensions of single/double output shaft

型号 Type	D(h6)	B	B1	L	L1	f	b	t
25	11	23	25.5	81	101	–	4	12.5
30	14	30	32.5	102	128	M6	5	16
40	18	40	43	128	164	M6	6	20.5
50	25	50	53.5	153	199	M10	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
130	45	80	85	265	340	M16	14	48.5
150	50	102	110	324	420	M20	14	53.5
185	60	112	120	374	480	M20	18	64



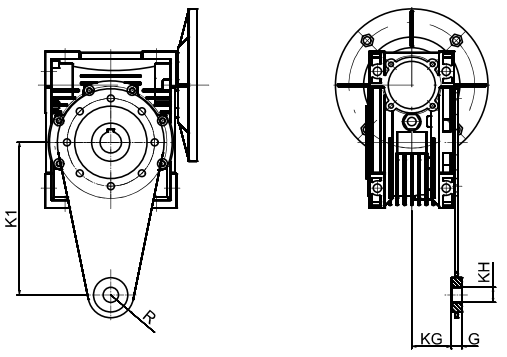
延伸蜗杆尺寸
Dimensions of extension worm shafts

型号 Type	G3	G2	T	d(j6)	b	t	f1
25	38	42	18	9	3	10.2	–
30	45	51	20	9	3	10.2	–
40	53	60	23	11	4	12.5	M6
50	64	74	30	14	5	16	M6
63	75	90	40	19	6	21.5	M6
75	90	105	50	24	8	27	M8
90	108	125	50	24	8	27	M8
110	135	142	60	28	8	31	M10
130	155	162	80	30	8	33	M10
150	210	195	80	35	10	38	M12
185	240	240	80	40	12	43	M16



转矩臂尺寸
Dimensions of torque arms

型号 Type	K1	R	KH	G	KG
25	70	15	8	14	17.5
30	85	15	8	14	24
40	100	18	10	14	31.5
50	100	18	10	14	38.5
63	150	18	10	14	49
75	200	30	20	25	47.5
90	200	30	20	25	57.5
110	250	35	25	30	62
130	250	35	25	30	69
150	250	35	25	30	84



微型蜗杆减速机与无级变速机（基本型）组合型技术参数
The technical data of unit which is consisted of Worm micreducer and Variator (basic type)

微型蜗杆减速机与无级变速机（基本型）组合技术参数见表11
By table 1 can find technical data of unit which is consisted of Worm microreducer and Variator (basic type)

组合型外形及安装尺寸
The overall and mounting demensions table of unit

组合型外形及安装尺寸见图11、表12
By chart 11and table 12,can find overall and mounting demensions of unit
单向/双向输出轴尺寸见图5、表8
By shart 5 and table 8,can find dimensions of fingle/double output shaft
延伸蜗杆轴尺寸见图6，表9
By chart 6 and table 9,can find dimensions of extebtion shaft
转矩臂尺寸见图7，表10
By chart 7 and table 10,can find dimensions of torque arms

组合型结构形式代号
Structure mounting position code of unit

组合型结构形式见图13
By chart13,can find overall structure mounting position

标记方式 Model designation

□ □ — □ — □ — □ — □ — □ — □ — □

MBN型
Mmoodel MBN
MB型
Model MB
机座规格02–40
Type 02–40
电机类型及功率（四级）Y(KW)
Electric motor type and powerY(KE)
不配电机省略
Omiting without electric motor
安装形式
Mounting without electric motor
WMRV型
Model WMRV
机座规格25–130
Type 25–130

输入、输出轴要求：YZ
Input and output shaft Code:
YZ
DZ1/DZ2
DZ1/DZ2
SZ
SZ
不配省略
Omiting without it
安装用附件要求：F1/FL1
Accessory for mounting:F1/FL1
F2/FL2
F2/FL2
TA
TA
不配省略
Omiting without it
公称传动比7.5–100
Nominal ratio 7.5–100

标记示例 Example of sign

MBN02–Y0.18–S1–WMRV40–7.5–F2–DZ
意为MBN型02号无级变速机配Y系列 0.18KW电机与WMRV40,i=7.5,带F2输出法兰，单输出轴的蜗杆减速机的组合机，S1安装形式。
MBN02–Y0.18–S1–WMRV40–7.5–F2–DZ
Means:mbn02 variator equippde with electric motor:0.18KW in series Yand NBRV40,Output flang:single output shaft:DZ Mounting position:S1

微型蜗杆减速机与无级变速器（基本型）组合技术参数 表11
The technical data of unit which is consisted of Worm microreducer and Variator(basic type) Table11

MBN、MB			02	04	07		15		22	40	
输入功率(kw)(1400r/min)			0.18	0.37	0.55	0.75	1.1	1.5	2.2	3	4
WMRV	I	n2/min	M2 N.m	M2 N.m	M2 N.m	M2 N.m	M2 N.m	M2 N.m	M2 N.m	M2 N.m	M2 N.m
			sf	sf	sf	sf	sf	sf	sf	sf	sf
40	7.5	128.7~25.7	9~18								
			1.4								
	10	96.5~19.3	12~24								
			1.2								
	15	64.4~13	17~34								
			1.1								
	20	48~9.7	22~43								
			0.9								
	25	38.6~7.7	27~52								
			0.7								
	30	32.2~64	31~60								
			0.7								
	40	24~4.8	38~73								
			0.5								
	50	19.3~3.9	46~88								
			0.4								
50	7.5	128.7~25.7		19~38							
				1.5							
	10	96.5~19.3		26~50							
				1.1							
	15	64.4~13		37~71							
				0.9							
	20	48~9.7		47~91							
				0.8							
	25	38.6~7.7		57~110							
				0.6							
	30	32.2~64		65~125							
				0.7							
	40	24~4.8	38~74	79~153							
			1	0.5							
	50	19.3~3.9	46~88	94~182							
			0.8	0.4							
	60	16~3.2	51~98								
			0.7								
	80	12~2.4	64~124								
			0.5								
	100	9.7~1.9	72~140								
			0.4								
63	7.5	128.7~25.7			29~56	39~77					
					1.8	1.3					
	10	96.5~19.3			38~74	52~102					
					1.4	1					
	15	64.4~13			55~107	75~146					
					1.1	0.8					
	20	48~9.7			72~139	99~190					
					1	0.7					
	25	38.6~7.7			87~167	118~229					
					0.8	0.5					
	30	32.2~64			98~191	134~260					
					0.8	0.6					
	40	24~4.8		84~162	125~241	171~328					
				0.9	0.5	0.4					
	50	19.3~3.9		99~191	147~284	200~387					
				0.7	0.5	0.3					
	60	16~3.2		110~212	164~315						
				0.6	0.4						
	80	12~2.4		142~273							
				0.5							
	100	9.7~1.9		152~295							
				0.4							
75	7.5	128.7~25.7					58~114	80~156			
							1.6	1.1			
	10	96.5~19.3					78~151	107~206			
							1.3	0.9			
	15	64.4~13					113~219	155~299			
							0.9	0.6			
	20	48~9.7					147~282	200~385			
							0.7	0.5			
	25	38.6~7.7					178~344	243~469			
							0.6	0.4			
	30	32.2~64					203~392	277~535			
							0.6	0.4			
	40	24~4.8		*86~166	129~248	176~338	255~496				
				1.3	0.8	0.6	0.4				

注：i系指WMRV的传动比，总传动比（1.45~7.25）×i_0。sf为n2≤n2max/1.93（即最大输出扭矩）时的工作系数，*为特殊配置。
I means the transmission ratio of model WMRV,total ratio is (1.45~7.25)i,Sf is the service factor when n2 less than or equate n2max/1.93(M2max)

微型蜗杆减速机与无级变速器（基本型）组合技术参数
The technical data of unit which is consisted of Worm microreducer and Variator(basic type)

表11
Table11

MBN、MB			02	04	07		15		22	40	
输入功率(kw)(1400r/min)			0.18	0.37	0.55	0.75	1.1	1.5	2.2	3	4
WMRV	I	n2/min	M2 N.m sf	M2 N.m sf	M2 N.m sf	M2 N.m sf	M2 N.m sf	M2 N.m sf	M2 N.m sf	M2 N.m sf	M2 N.m sf
75	50	19.3~3.9		*103~199 1	153~297 0.7	209~405 0.5					
	60	16~3.2		*115~222 0.9	172~330 0.6	234~451 0.4					
	80	12~2.4		*149~287 0.7	222~427 0.4						
	100	9.7~1.9		*164~318 0.5							
90	7.5	128.7~25.7					60~116 2	81~158 1.5	*119~232 1		
	10	96.5~19.3					79~153 1.7	108~209 1.3	*158~306 0.9		
	15	64.4~13					115~222 1.4	156~303 1	*230~444 0.7		
	20	48~9.7					150~289 1.2	205~394 0.9	*308~592 0.6		
	25	38.6~7.7					182~353 0.9	243~481 0.7	*374~723 0.5		
	30	32.2~6.4					208~403 1	284~549 0.7			
	40	24~4.8			134~258 1.4	183~352 1	269~516 0.7	367~704 0.5			
	50	19.3~3.9			160~310 1.1	219~422 0.8	321~620 0.5	438~845 0.4			
	60	16~3.2			183~351 0.9	249~479 0.6					
	80	12~2.4			233~447 0.6	318~610 0.5					
	100	9.7~1.9			261~508 0.5	357~692 0.4					
110	7.5	128.7~25.7							119~232 2	162~317 1.5	216~422 1.1
	10	96.5~19.3							158~306 1.7	216~418 1.2	288~557 0.9
	15	64.4~13							230~444 1.3	313~606 0.9	418~808 0.7
	20	48~9.7							308~592 1	415~798 0.7	554~1064 0.5
	25	38.6~7.7					187~361 1.6	249~493 1.2	374~723 0.8	511~986 0.6	681~1315 0.4
	30	32.2~6.4					213~413 1.5	291~563 1.1	427~826 0.8	583~1127 0.5	
	40	24~4.8					279~537 1.1	381~732 0.8	559~1074 0.5	763~1465 0.4	
	50	19.3~3.9					334~645 0.9	456~880 0.7			
	60	16~3.2					381~733 0.7	521~1000 0.5			
	80	12~2.4					495~950 0.5				
	100	9.7~1.9					559~1085 0.4				
130	7.5	128.7~25.7									216~422 1.5
	10	96.5~19.3								164~320 2	288~557 1.2
	15	64.4~13								216~418 1.6	418~808 0.9
	20	48~9.7								317~627 1.2	561~1077 0.7
	25	38.6~7.7							374~723 1.2	420~808 0.9	681~1315 0.6
	30	32.2~6.4							427~826 1.2	511~1010 0.9	778~1503 0.6
	40	24~4.8					279~537 1.9	381~732 1.4	559~1074 1	583~1127 0.9	1017~1954 0.5
	50	19.3~3.9					334~645 1.5	456~880 1.1	669~1291 0.7	763~1465 0.7	
	60	16~3.2					382~733 1.2	521~1000 0.9	764~1467 0.6	912~1761 0.5	
	80	12~2.4					502~964 0.9	685~1315 0.6	1004~1929 0.4		
	100	9.7~1.9					568~1102 0.6	774~1503 0.5	1136~2204 0.3		

MBN/MB +WMRV 组合型外形及安装尺寸表
The overall and mounting demensions table of unit

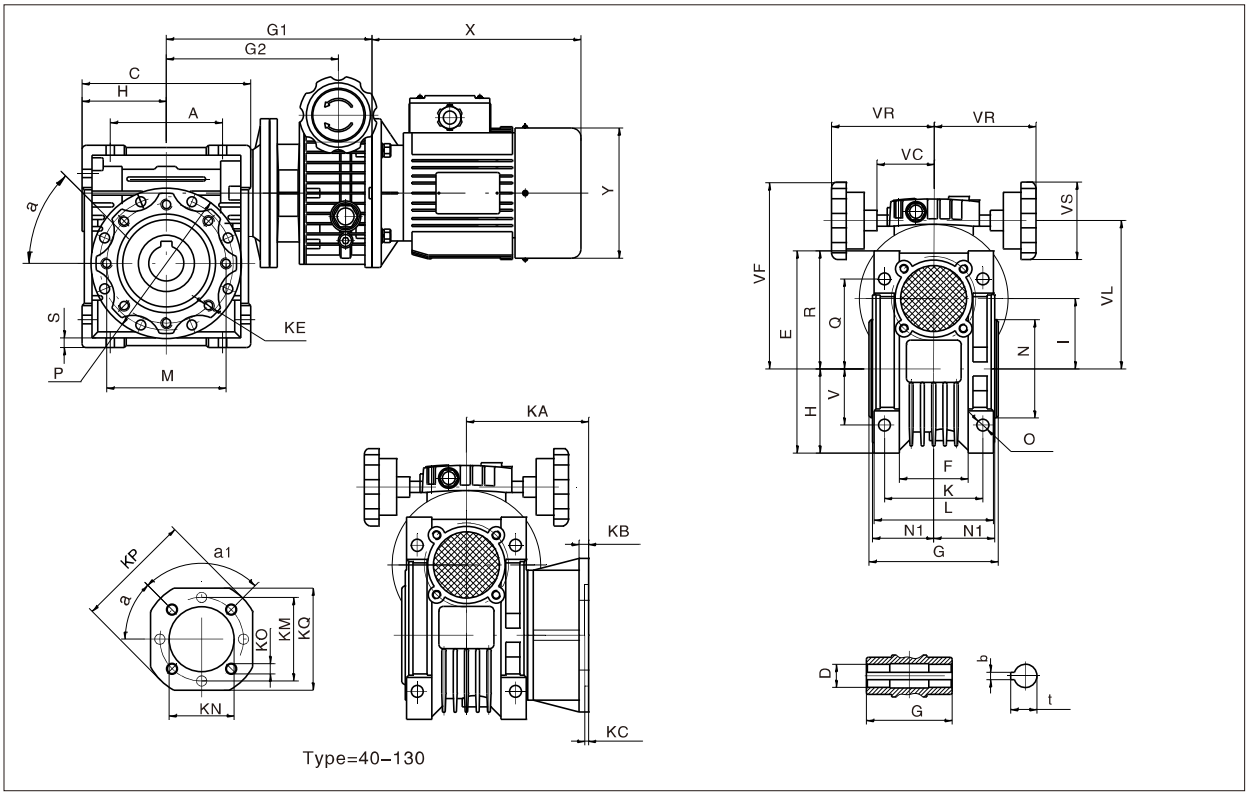
表12
Table 12

MBN/MB +WMRV	A	C	D(H7)	E	F	G	G1	G2		H	I	L	M	N(h8)	N1	O	P	Q	R	S	T	V	X
								MB	MBN														
02+40	70	101	18	121.5	43	78	182.5		134	50	40	71	75	60	36.5	7	87	55	71.5	6.5	23	35	227
02+50	80	121.5	25	144	49	92	192.5		144	60	50	85	85	70	43.5	8.5	100	64	84	7	30	40	
04+50							190		154														245
04+63	100	147.5	25	174	67	112	205		169	72	63	103	95	80	53	8.5	110	80	102	8	40	50	
07+63							238		184														250
04+75	120	174	28	205	72	120	*223		187	86	75	113	115	95	57	11	140	93	119	10	50	60	245
07+75							252		207														250
15+75							285	229															285
07+90	140	208	35	238	72	140	269		224	103	90	130	130	110	67	13	160	102	135	11	50	70	250
15+90							302	246															285
22+90							*338	270															320
15+110	170	252.5	42	294		155	333	262		127.5	110	142	165	130	74	14	200	125	167.5	15	60	85	285
22+110							368	291															320
40+110																							340
15+130	200	292.5	45	335	79	170	353	282		147.5	130	155	215	180	81	16	250	140	187.5	15	80	100	285
22+130							388	311															320
40+130																							340

MBN/MB +WMRV	K	KA		KB	KC	KE	a	a1	KM	KN (H8)	KO	KP	KQ	b	t	VC	VF		VL		VR	VS
		F	FL														MB	MBN	MB	MBN		
02+40	60	67	97	7	4	M6×8(n.4)	45°	90°	87	60	9(n.4)	110	95	6	20.8	71		151		117	110	85
02+50	70	90	120	9	5	M8×10(n.4)			90	70	11(n.4)	125	110	8	28.3			161		127		
04+50																		173		139		
04+63	85	82	112	10	6	M8×14(n.8)			150	115	11(n.4)	180	142		28.3			186		152		
07+63																83		203		170	124.5	110
04+75	90	111		13	6				165	130	14(n.4)	200	170		31.3	71		198		164	110	85
07+75																83		215		182	124.5	110
15+75																97.5	238		196		138	
07+90	100	111		13		M10×18(n.8)			175	152		210	200	10	38.3	83		226		197	124.5	
15+90																97.5	253		211		138	
22+90																	286		241		143	
15+110	116	139		15					220	170	14(n.8)	270	250	12	45.3		273		231		138	
22+110																	306		261		143	
40+110																						
15+130	120	151.5		15		M12×20(n.8)			255	180	16(n.8)	320	290	14	48.8		293		251			
22+130																	336		281			
40+130																						

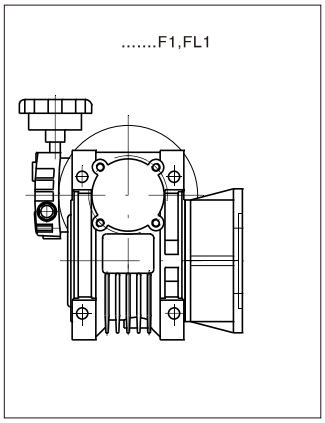
注：带*者尺寸为特殊配置
The demensions with * are special requirement

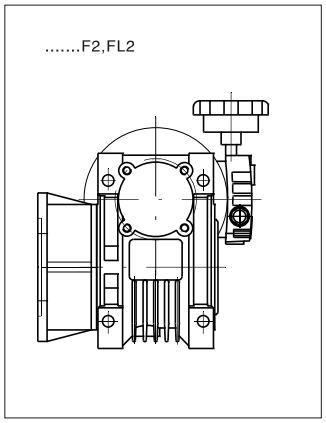
图11
Chart11

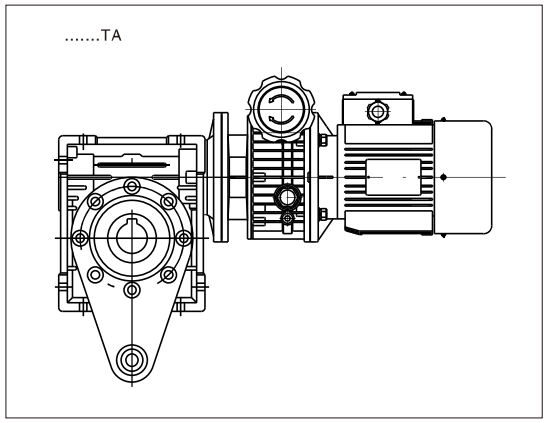


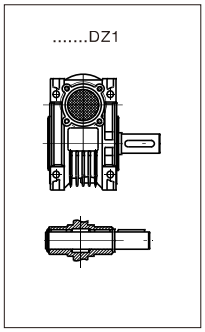
Type=40–130

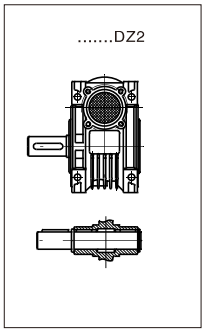
图12
Chart12

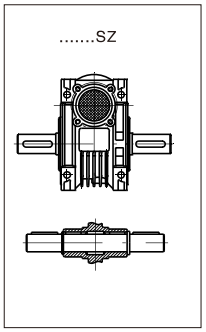


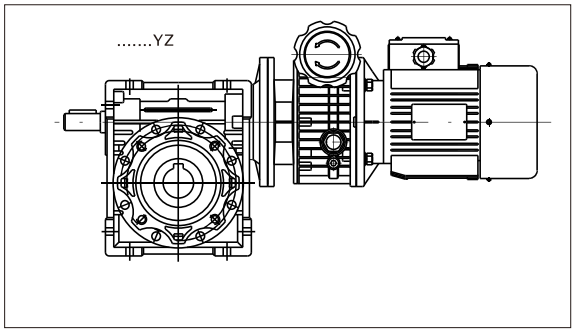








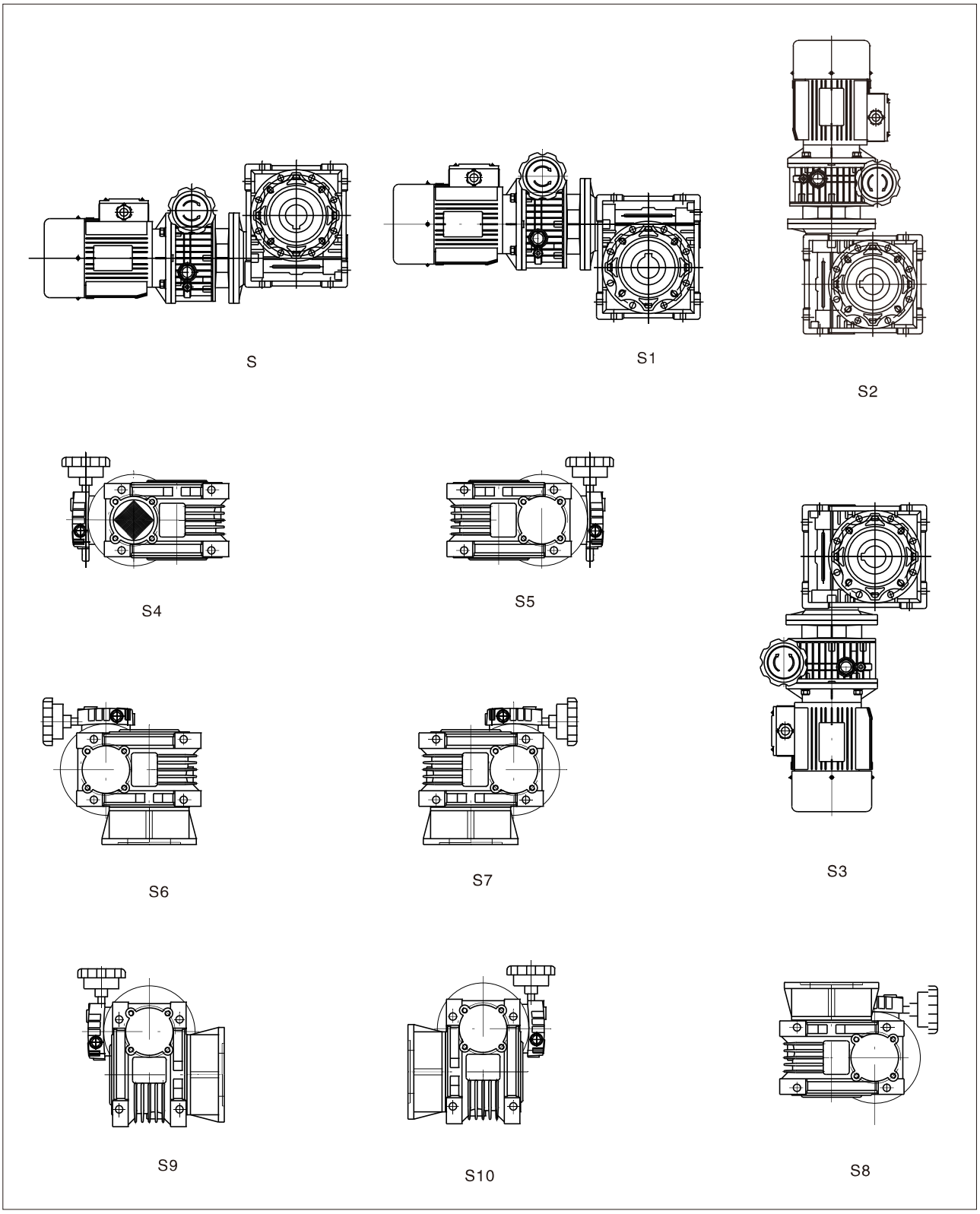




变速机与蜗箱组合型：结构安装形式代号图例

The unit of variator plus worm microreducer structure and mounting position code

图13
Chart 13



PC系列齿轮减速机的结构性能
Structural Performance of PC Serial Gear Reducer

结构特点
Structural feature

PC系列减速机是采用模块化结构设计的单级齿轮传动减速机–即PC063型单级齿轮传动减速机的传动比i=3.0;PC071型单级齿轮传动减速机的传动比i=3.0；PC080型单级齿轮传动减速机的传动比i=3.0;PC090型单级齿轮传动减速机的传动i=2.42;(详细参数见后面“技术参数”表）。PC系列减速机可以独立供货，也可以直接与WMRV系列蜗杆减速机组合

PC serial gear reducer is a single–stage gear driving one adopting modularized structural design.i.e PC063 single–stage gear driving reducer,its transmission ration i=3.0;PC071 single–stage gear driving reducer,its transmission ratio i=3.1;PC080 single–stage gear driving reducer,its transmission raton i=3.1;PC090 single–stage gear driving reducer.its transmission ration i=2.42; (the detailed data shown in the following table of technical data).(For the form of PC+WMRV combination,its detailed data seen in the following table of “The Combination Form of PC+WMRV reducer”).
The connection method PC serial top reducer and WMRV serial worm reducer is comparatively simple,similar to the connection form of B14.

减速机主要件的材料
Yhe materials for main parts on the reducer;

1.压铸铝合金（ZL106)箱体。
2.20CrMnMo齿轮合金钢表面处理（渗碳淬火），渐开线齿形磨削（磨齿）。
3.减速机输出轴采用40Cr中碳钢热处理（调质.表面淬火处理).
1.Die–casting aluminum alloy (ZL106)case
2.20CrMnMo gear alloy steel,surface treatment(cementing&hardening).involute tooth shape grinding(grinding gear teeth);
3.The output shaft of reducer is made of 40Cr and adopts the heat treatment for medium carbon steel (seasoning and surface hardening treatment).

PC系列齿轮减速机的电机安装
The installation of the motor on PC serial gear speed reducer;

为了正确将小齿轮安装在电机轴上，请遵循以下几点要求：
1.全面清洗电机的输出轴。
2.取下电机输出轴上的平键。
3.加热轴套①至100℃~120℃,按下图示讲轴套①装在电机的输出轴上.
4.参考装轴套①的方法装上小齿轮③.
5.装上垫圈④,拧紧沉头螺钉⑤.(沉头螺钉要涂上螺纹紧固胶防松)
6.因PC减速机已注满润滑油,小心取出图示②处密封端盖.(PC减速机出厂时配了电机,无此工序.)
7.装上图示②骨架油封和电机，注意不要损坏骨架油封。
注意：PC系列减速机所采用的是高质量的标准电机，可保证电机无振动，低噪音运行。