

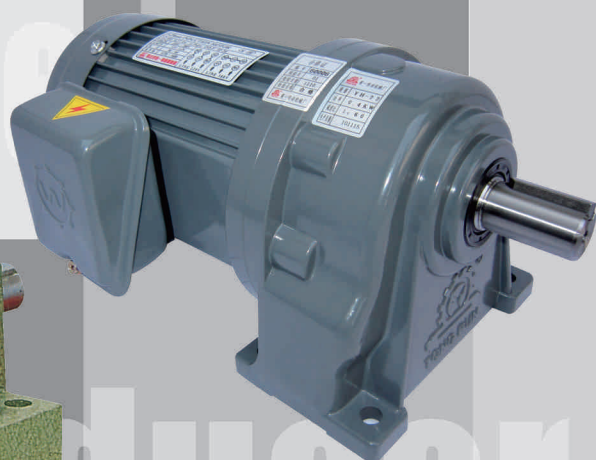
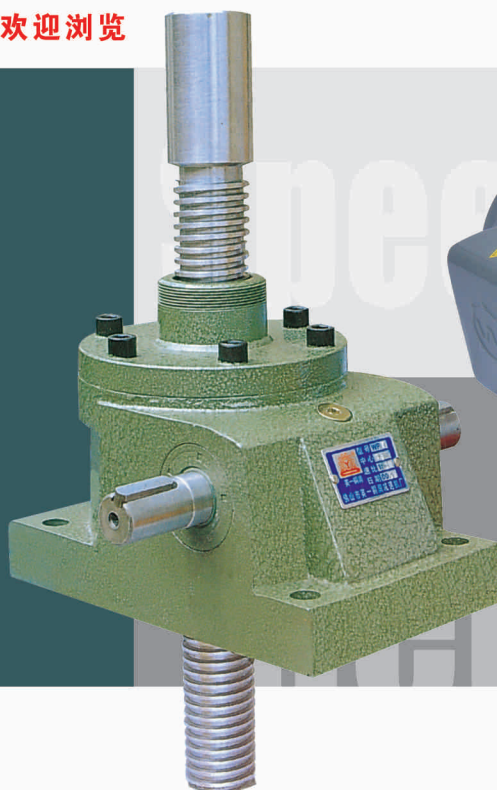
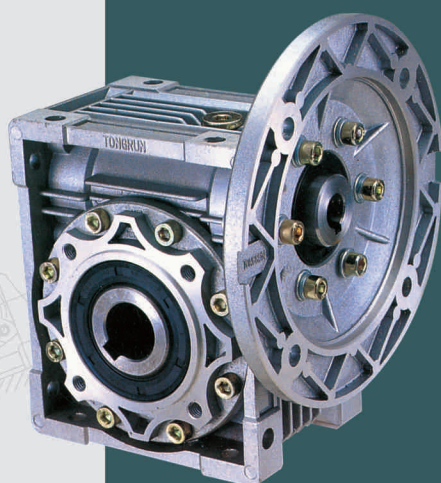


英一传动机械

YINGYI TRANSMISSION MACHINERY

掌控驱动核心技术

www.zh-yingyi.com 欢迎浏览



十八年的品质经验服务全球
Speed Reducer
1988



发展历程

Dares to challenge
合作 团结 发展 交流 共赢

1988 年创立英一五金厂，业务以对外加工齿轮、链轮为主。
Establish "Yingyi Hardware Factory" in 1988
1992 年研发第一台齿轮减速机JZQ系列。
Develop "JZQ Gear Reducer" in 1992
1999 年更名为佛山市禅城区英一铜润减速机厂。
Rename "Yingyi Tongrun Speed Reducer Factory" in 1999
1999 年研发第一台蜗轮蜗杆减速机WP系列。
Develop "WP Cast Iron Worm Gearbox" in 1999
2001 年研发第一台螺旋升降减速机WPT系列。
Develop "WPT Worm Screw Jack" in 2001
2003 年开发第一台微型铝合金蜗轮蜗杆减速机RV系列。
Develop "NMRV Worm Gear Box" in 2003
2003 年注册 "TONGRUN" 商标品牌。
Registered Trademark "TONGRUN" in 2003
2006 年参加上海亚洲国际动力传动与控制技术展览会。
The First Time Attend PTC Exhibition in 2006
2007 年乔迁新厂，更名为 "佛山市英一传动机械厂"，位于佛山市南海区狮山镇，占地30余亩，建成园林式园区。
Rename "Yingyi Transmission Machinery", Build "Yingyi Industry Zone-20,000m²" in 2007
2008 年引进意大利先进减速机壳体生产设备。
Import Italy Equipment for Housing Processing in 2008
2008 年注册 "英一" 商标品牌。
Registered Trademark "YINGYI" in 2008
2009 年引进台湾技术研发推出YH系列高效率齿轮减速马达。
Develop YH Helical Gear Motor Reducer Based on Taiwan Technical in 2009
2010 年引进日本、德国先进齿轮加工设备。
Import Germany & Japan Equipment for Gear & Shaft Processing in 2010
2010 年当选佛山市机械装备行业协会副会长单位。
Be elected as Vice-Chairman of the FMEIA
2011 年引进瑞典先进三坐标检测仪、德国成套齿轮检测仪器设备。
Import Sweden Coordinate Measuring Machine & Germany Measuring Machine for Gear & Shaft in 2011
2012 年通过ISO9001-2008质量管理体系认证。
Became ISO9001-2008 Certificated Company in 2012
2013 年通过安全生产标准化建设企业认证。
Became Government Certificated Work Safety & Standardization enterprises in 2013
2013 年参加陶瓷工业展，YH系列齿轮减速马达得到新老客户一致好评和热烈反响。
Improved Helical Gear Reducer is warmly responded in Ceramics China 2013 Exhibition



RV系列蜗杆减速机 是英一传动凭借国际先进减速机制造技术，按照 Q/ZJ 1-2000 技术质量标准制造，产品通过 ISO9001 质量体系认证，符合国家 GB10085-88 圆柱蜗轮蜗杆制造标准。主要有以下突出特点：

外形采用“方箱形”结构，其中 RV30-RV90 箱体采用优质压铸铝成型；RV110-RV130 箱体采用高强度铸铁件，整机外形结构紧凑美观、体积小、散热快、安装灵活。

蜗杆采用优质钢材经特殊热处理工艺，表面硬度高，弹性好；蜗轮啮合部分采用官方检验合格的优质耐磨铜材，产品各项性能指标高居同类产品前列。

蜗轮蜗杆采用进口设备精密加工制造和精密啮合检测，保证整机传动平稳、温升高、噪音小、效率高、寿命长。

蜗轮蜗杆输入、输出部分采用精密光整处理，接触面光洁度高，使用高质量的轴承和密封件，提升产品档次，无渗漏，更长的使用寿命。

本产品目前已广泛应用于各类行业生产工艺装备的机械减速装置，深受用户的好评，是目前现代工业装备实现大扭矩、大速比低噪音、高稳定机械减速传动控制装置的最佳选择。

RV series worm reducer is promoted by YINGYI transmission combining at home and abroad advanced gear reducer manufacture technology, it is ISO9001: 2008 certificated and conform to national standard GB 10085-88(cylindrical worm gear), has the following outstanding advantages:

RV reducer has cubic structure, RV30-RV90 is high class die cast aluminium material body and RV 110-RV130 cast iron material. it is owns advantages of good appearance, small volume, quick radiating, flexible mounting.

The worm shafts has special heat treatment with fine alloy steel; the meshing of the worm wheel has official testing passed fine copper alloy. their performances are advantageous over other supplier in china.

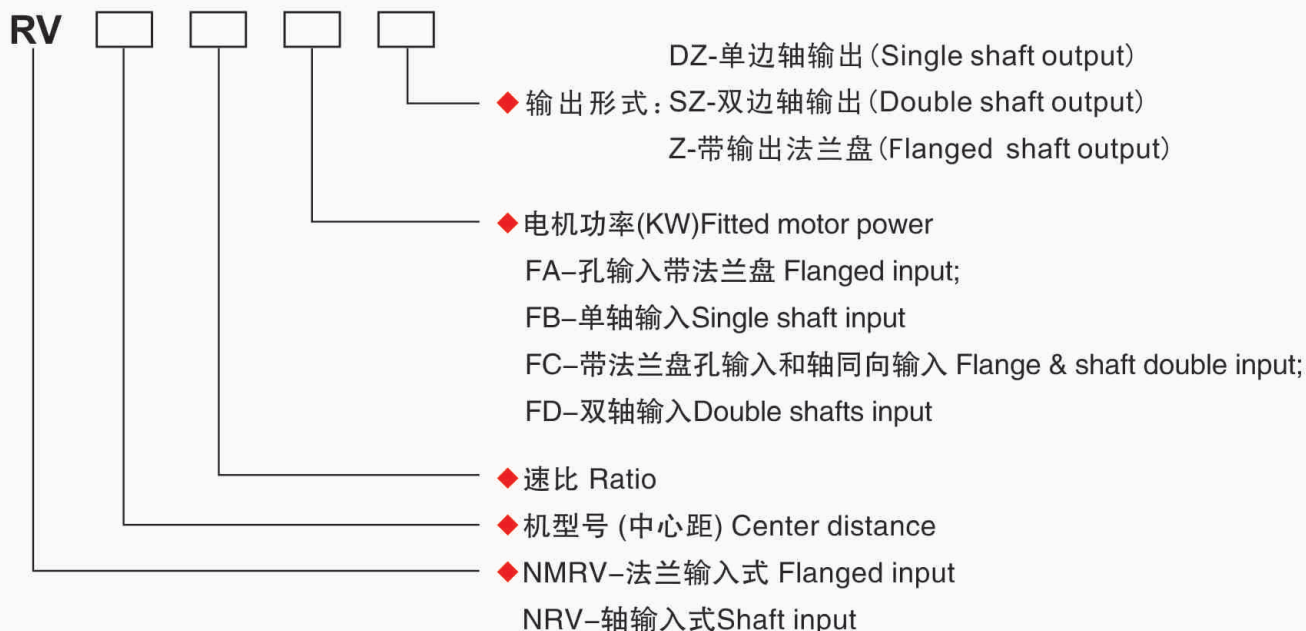
The worm shafts and worm gear adopt precision and meshing to ensure the stable transmission, low temperature, low noisy level, high efficiency and long service life.

The input and output parts are treated smooth, and dustproof with high class precision bearings and seals to prevent from oil leakage to increase the quality and its service life.

The products are widely used in various sectors of production process for preparing a mechanical speed reducer, praised by users, is the modern industry equipments to realize high torque, low speed noise, high stability and mechanical speed reducing transmission control device is the best choice.



1. RV减速机型号表示方法 (MODEL DESIGNATION)

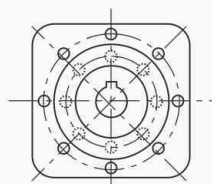
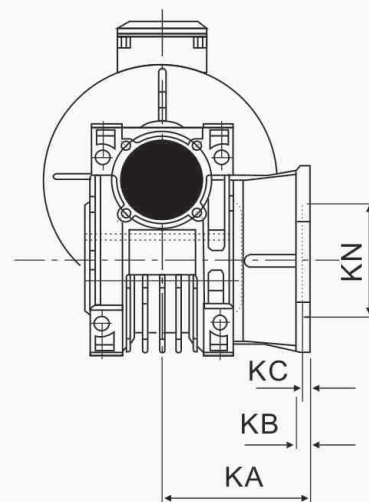
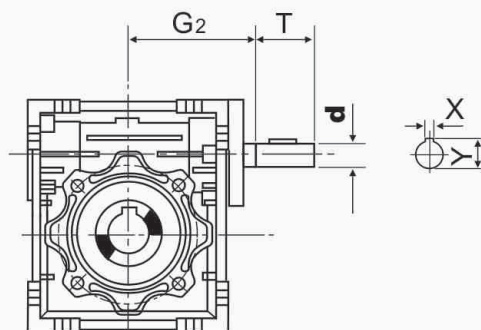


2. 示例 (EXAMPLE)

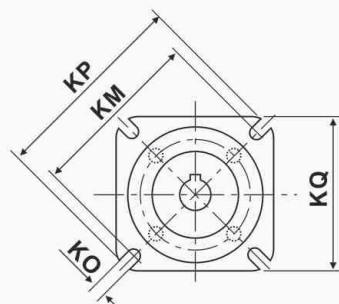


3. 外形及安装尺寸 DIMENSIONS

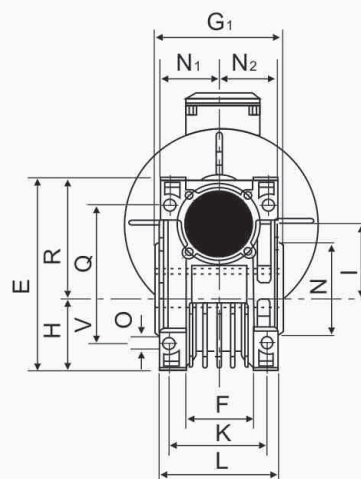
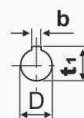
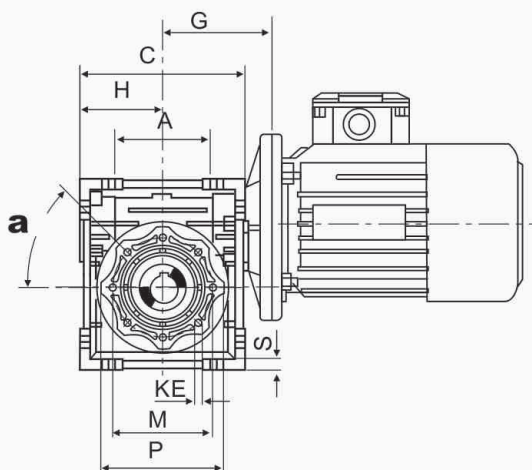
RV30-RV130



型号(中心距):110-130
Model:RV110-RV130



型号(中心距):30-90
Model:RV30-RV90

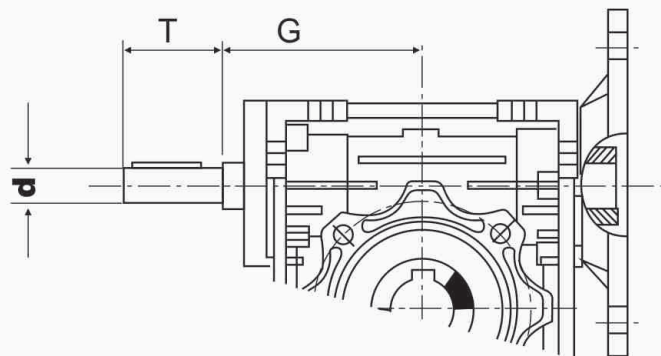


尺寸Size 型号Type	A	C	D	E	F	G	H	I	L	M	N	O	P	Q	R	S	T	V	K
30	54	80	14	97	32	56	40	30	56	65	55	7	75	44	57	6	20	27	44
40	70	101	¹⁸ ₍₁₉₎	121	43	72	51	40	71	75	60	7	87	55	71	6.5	23	35	60
50	80	121	25	144	49	80	60	50	85	85	70	8.5	100	64	84	9	30	40	70
63	100	147	25	174	67	102.5	72	63	103	95	80	8.5	110	80	102	9	40	50	85
75	120	174	28	205	72	124	86	75	113	115	95	11	140	93	119	10	50	60	90
90	140	208	35	238	73	146	103	90	138	130	110	13	150	102	135	14	50	70	100
110	170	256	42	298	•	171	128	110	148	165	130	14	185	125	170	18	60	85	115
130	200	292.5	45	334	•	180	147.5	130	154	215	180	16	250	140	186.5	20	80	100	120

尺寸Size 型号Type	G ₁	G ₂	N ₁	KA	KB	KC	KE	a	KM	KN	KO	KP	KQ	d	b	t ₁	X	Y
30	63	50	29	54.5	6	4	M6X11(n.4)	0°	68	50	6.5(4/90°)	80	70	9	5	16.3	3	10.2
40	80	68	36.5	76	7	4	M6X8(n.4)	45°	87	60	9(4/90°)	110	95	11	6	^{20.8} _(21.8)	4	12.5
50	92	75	43.5	90	9	5	M8X10(n.4)	45°	90	70	11(4/90°)	125	110	14	8	28.3	5	16
63	112	92	53	96	13	5	M8X14(n.8)	45°	150	115	12(4/90°)	180	142	19	8	28.3	6	21.5
75	118	105	57	110	13	6	M8X14(n.8)	45°	165	130	14(4/90°)	200	170	24	8	31.3	8	27
90	140	125	67	110	13	6	M10X18(n.8)	45°	175	152	14(4/90°)	205	168	24	10	38.3	8	27
110	160	142	74	142	15	6	M10X24(n.8)	45°	220	170	14(8/45°)	265		28	12	45.3	8	31
130	170	162	80.5	151.5	15	6	M12X26(n.8)	45°	255	180	16(8/45°)	320	290	30	14	48.8	8	33

4.同向输入轴尺寸(同向轴输入速度与电机速度相同) DOUBLE EXTENSION WORM SHAFT(SPEED IS SAME AS MOTOR S)

尺寸Size 型号Type	G	d	T
30	45	9	20
40	55	11	23
50	64	14	30
63	75	19	40
75	90	24	50
90	108	24	50
110	135	28	60
130	155	30	80



5.转矩功率参数表(配4极1400RPM电机)

DATE TABLE (WITH 4 POLES, 1400RPM MOTOR)

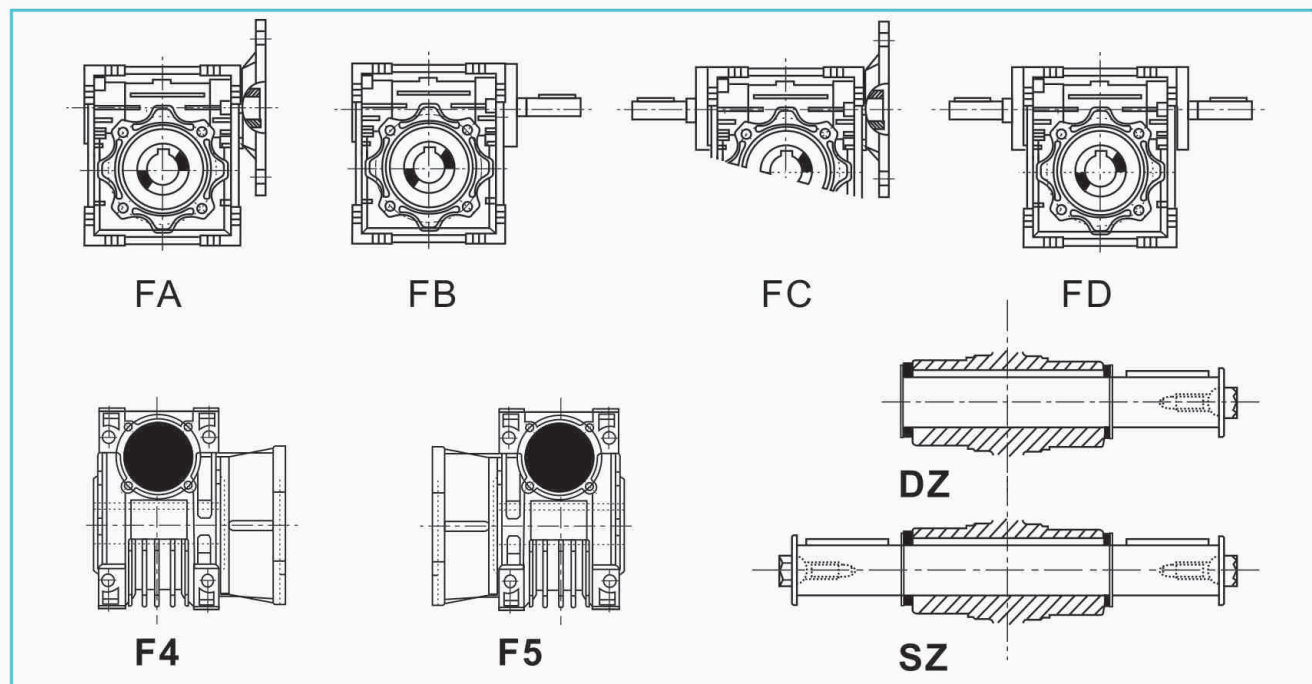
中心距(TYPE) 30			
i	n ₂	KW	M ₂
7.5	186.7	0.18	7
10	140	0.18	9
15	93.3	0.18	13
20	70	0.18	17
25	56	0.18	21
30	46.7	0.18	24
40	35	0.12	19
50	28	0.12	23
60	23.3	0.09	19
80	17.5	0.06	14
中心距(TYPE) 40			
i	n ₂	KW	M ₂
7.5	186.7	0.37	16
10	140	0.37	27
15	93.3	0.37	28
20	70	0.37	39
25	56	0.18	47
30	46.7	0.18	53
40	35	0.18	44
50	28	0.18	47
60	23.3	0.18	43
80	17.5	0.9	34
100	14	0.9	38
中心距(TYPE) 50			
i	n ₂	KW	M ₂
7.5	186.7	0.75	33
10	140	0.75	42
15	93.3	0.75	58
20	70	0.75	81
25	56	0.37	71
30	46.7	0.37	81
40	35	0.37	101
50	28	0.37	80
60	23.3	0.37	89
80	17.5	0.18	72
100	14	0.18	60

中心距(TYPE) 63			
i	n ₂	KW	M ₂
7.5	186.7	1.50	68
10	140	1.50	88
15	93.3	1.50	126
20	70	1.50	166
25	56	0.75	146
30	46.7	0.75	167
40	35	0.75	207
50	28	0.37	124
60	23.3	0.37	140
80	17.5	0.37	115
100	14	0.37	129
中心距(TYPE) 75			
i	n ₂	KW	M ₂
7.5	186.7	2.2	182
10	140	2.2	180
15	93.3	2.2	261
20	70	1.50	240
25	56	1.50	205
30	46.7	1.50	337
40	35	0.75	216
50	28	0.75	264
60	23.3	0.75	279
80	17.5	0.37	180
100	14	0.37	206
中心距(TYPE) 90			
i	n ₂	KW	M ₂
7.5	186.7	4	180
10	140	4	296
15	93.3	4	342
20	70	4	458
25	56	2.2	420
30	46.7	2.2	479
40	35	1.25	433
50	28	1.25	492
60	23.3	1.50	424
80	17.5	0.75	365
100	14	0.75	302

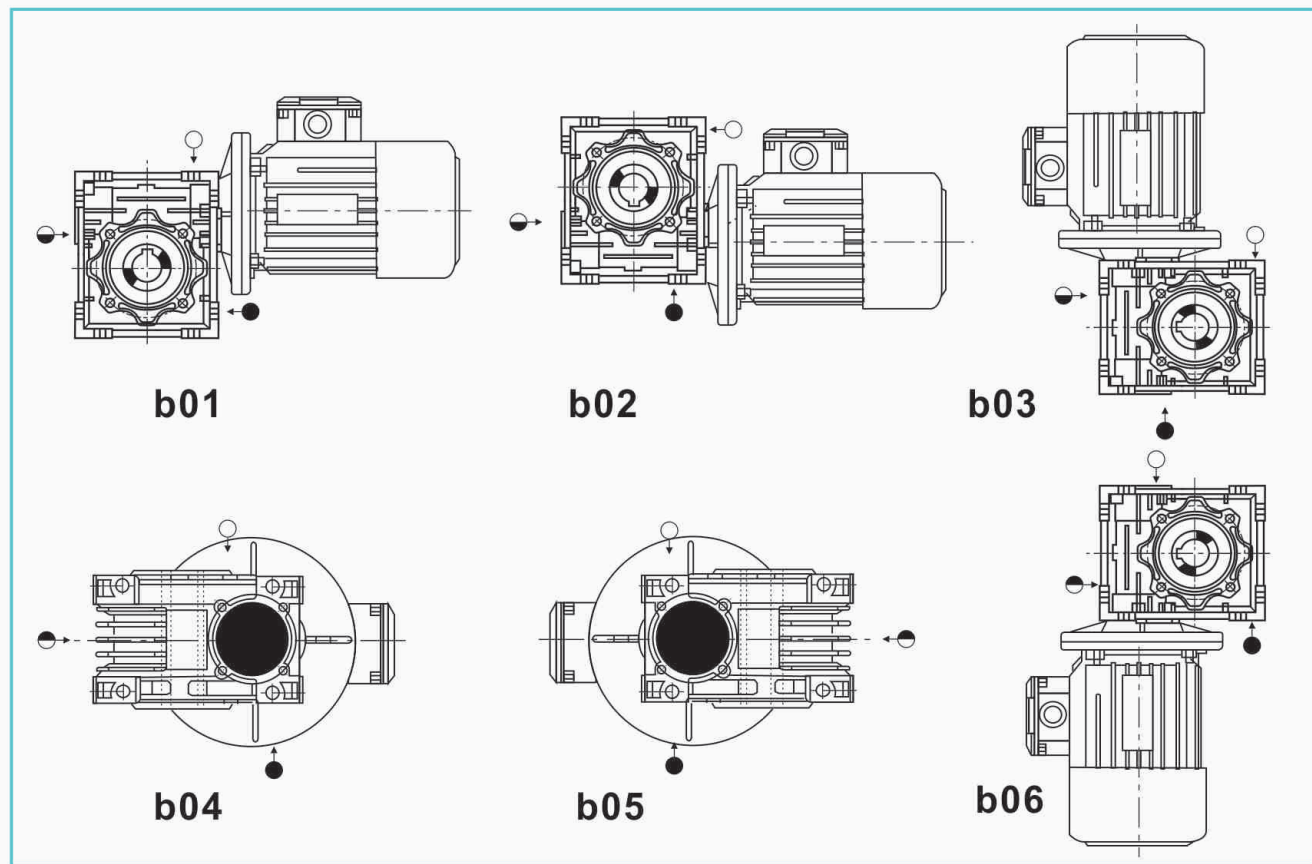
中心距(TYPE) 110			
i	n ₂	KW	M ₂
7.5	186.7	7.50	345
10	140	7.50	455
15	93.3	5.50	484
20	70	5.50	638
25	56	4	790
30	46.7	4	647
40	35	2.2	638
50	28	2.2	767
60	23.3	2.20	648
80	17.5	1.50	548
100	14	0.75	473
中心距(TYPE) 130			
i	n ₂	KW	M ₂
7.5	186.7	7.50	343
10	140	7.50	453
15	93.3	7.50	664
20	70	7.50	864
25	56	7.50	1074
30	46.7	5.50	900
40	35	5.50	1171
50	28	4	1379
60	23.3	4	1179
80	17.5	2.20	816
100	14	1.50	966

注:	单位	Note	unit
n ₁ =输入速度	RPM	n ₁ =1400 Input speed	
n ₂ =输出速度	RPM	n ₂ =output speed	
M ₂ =输出扭矩	NM	M ₂ =output torque	

6. 输入输出图表 (INPUT/OUTPUT CHART)

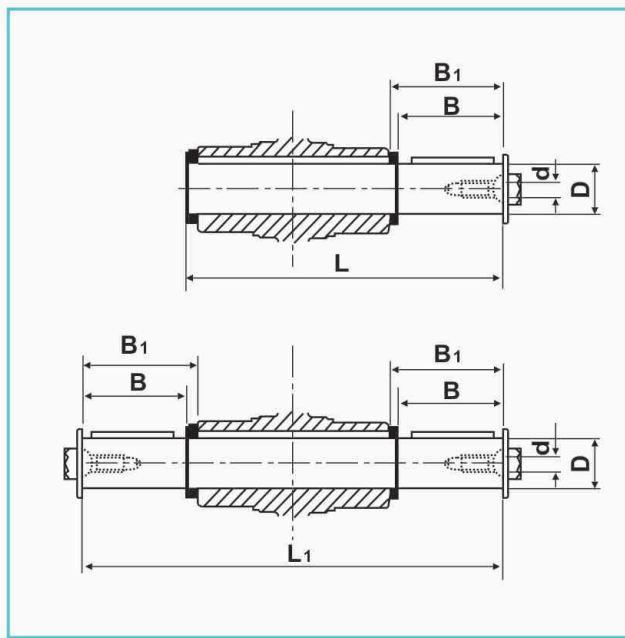


7. 安装型式 (MOUNTING POSITIONS)



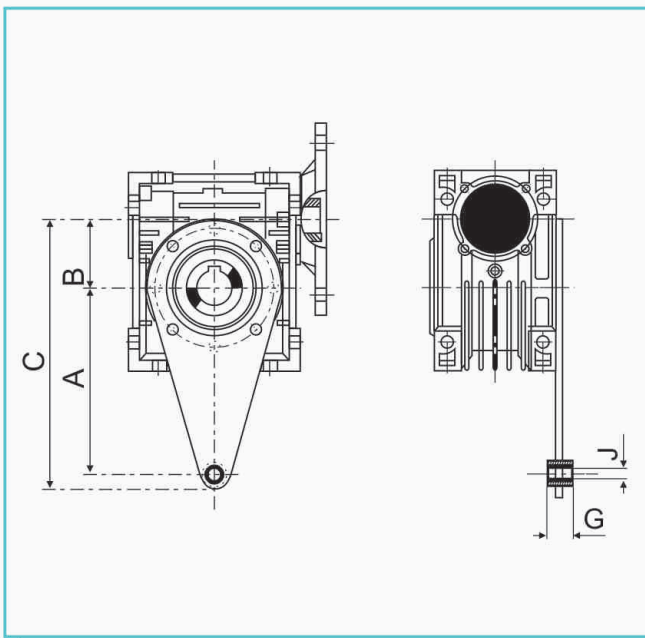
8.单向/双向输出轴尺寸(SINGLE/DOUBLE EXTENSION OUTPUT AXIS SIZE)

型号 Type	D(h6)	B	B ₁	L	L ₁	d
30	14	30	32.5	102	128	M6
40	18 (19)	40	43	128	164	M6
50	25	50	53.5	153	199	M10
63	25	50	53.5	173	219	M10
75	28	60	63.5	192	247	M10
90	35	80	84.5	234	308	M12
110	42	80	84.5	249	324	M16
130	45	80	85	264	340	M16



9.扭力臂尺寸 (TORQUE ARM)

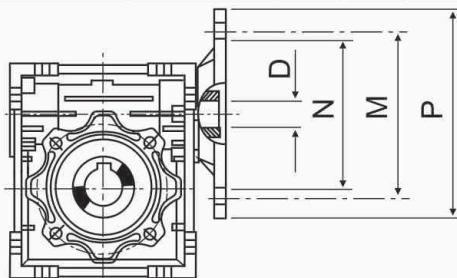
型号 Type	A	B	C	G	J
30	85	38	138	14	8
40	85	48.5	151.5	14	10
50	100	50	168	14	10
63	150	55	223	14	10
75	200	70	300	25	20
90	200	80	310	25	20
110	250	100	385	30	25
130	250	125	410	30	25



10. 安装规格轴心尺-D

MOTOR MOUNTING FACILITY HOLLOW INPUT SHAFT DIMETER-D

中心距 TYPE	安装规格MOUNTING FLANGE SIZE					减速比i RATIO											
	法兰型号 FLANGE SIZE	功率KW (4极)	N	M	P	7.5	10	15	30	20	40	25	50	60	80	100	
			95	115	140	轴芯尺寸D INPUT SHAFT HOLLOW DIA.(mm)											
30	63B14	0.12/0.18	60	75	90	11	11	11	11	11	11	11	11	-	-	-	
	56B5	0.06/0.09	80	100	120	9	9	9	9	9	9	9	9	9	9	-	
	56B14		50	65	80												
	71B5		110	130	160												
40	71B14	0.25/0.37	70	85	105	14	14	14	14	14	14	14	14	-	-	-	
	63B5	0.12/0.18	95	115	140	11	11	11	11	11	11	11	11	11	11	11	
	63B14		60	75	90												
	56B5	0.06/0.09	80	100	120	-	-	-	-	-	-	-	9	9	11	9	
	80B5		130	165	200										9		
50	80B14	0.55/0.75	80	100	120	19	19	19	19	19	19	-	-	-	-	-	
	71B5	0.25/0.37	110	130	160	14	14	14	14	14	14	14	14	14	14	14	
	71B14		70	85	105												
	63B5		0.12/0.18	95	115												140
	90B5		130	165	200										11		
63	90B14	1.1/1.5	95	115	140	24	24	24	24	24	24	-	-	-	-	-	
	80B5	0.55/0.75	130	165	200	19	19	19	19	19	19	19	19	19	19	19	
	80B14		80	100	120												
	71B5		110	130	160												-
	71B14	0.25/0.37	70	85	105	-	-	-	-	-	-	-	14	14	14	14	14
	100/112B5		180	215	250											14	
75	100/112B14	2.2/4	110	130	160	28	28	28	28	-	-	-	-	-	-	-	
	90B5	1.1/1.5	130	165	200	24	24	24	24	24	24	24	24	24	24	24	
	90B14		95	115	140												
	80B5		130	165	200												-
	80B14	0.55/0.75	80	100	120	-	-	-	-	-	-	-	-	14	14	14	14
	71B5	0.25/0.37	110	130	160	-	-	-	-	-	-	-	-	14	14	14	14
100/112B5		180	215	250										14			
90	100/112B14	2.2/4	110	130	160	28	28	28	28	28	28	-	-	-	-	-	
	90B5	1.1/1.5	130	165	200	24	24	24	24	24	24	24	24	24	24	24	
	90B14		95	115	140												
	80B5		130	165	200												-
	80B14	0.55/0.75	80	100	120	-	-	-	-	-	-	-	-	-	19	19	
	132B5	5.5/7.5	230	265	300	38	38	38	38	-	-	-	-	-	-	19	-
110	100/112B5	2.2/4	180	215	250	28	28	28	28	28	28	28	28	28	28	-	-
	90B5	1.1/1.5	130	165	200	-	-	-	-	24	24	24	24	24	24	-	24
	80B5	0.55/0.75	130	165	200	-	-	-	-	-	-	-	-	-	-	24	19
	132B5	5.5/7.5	230	265	300	38	38	38	38	38	38	-	-	-	-	19	-
130	100/112B5	2.2/4	180	215	250	-	-	-	-	28	28	28	28	28	28	-	28
	90B5	1.1/1.5	130	165	200	-	-	-	-	-	-	-	-	-	-	28	24
																24	



RV系列连体蜗轮减速机 RV DOUBLE-STAGE WORM GEARBOX

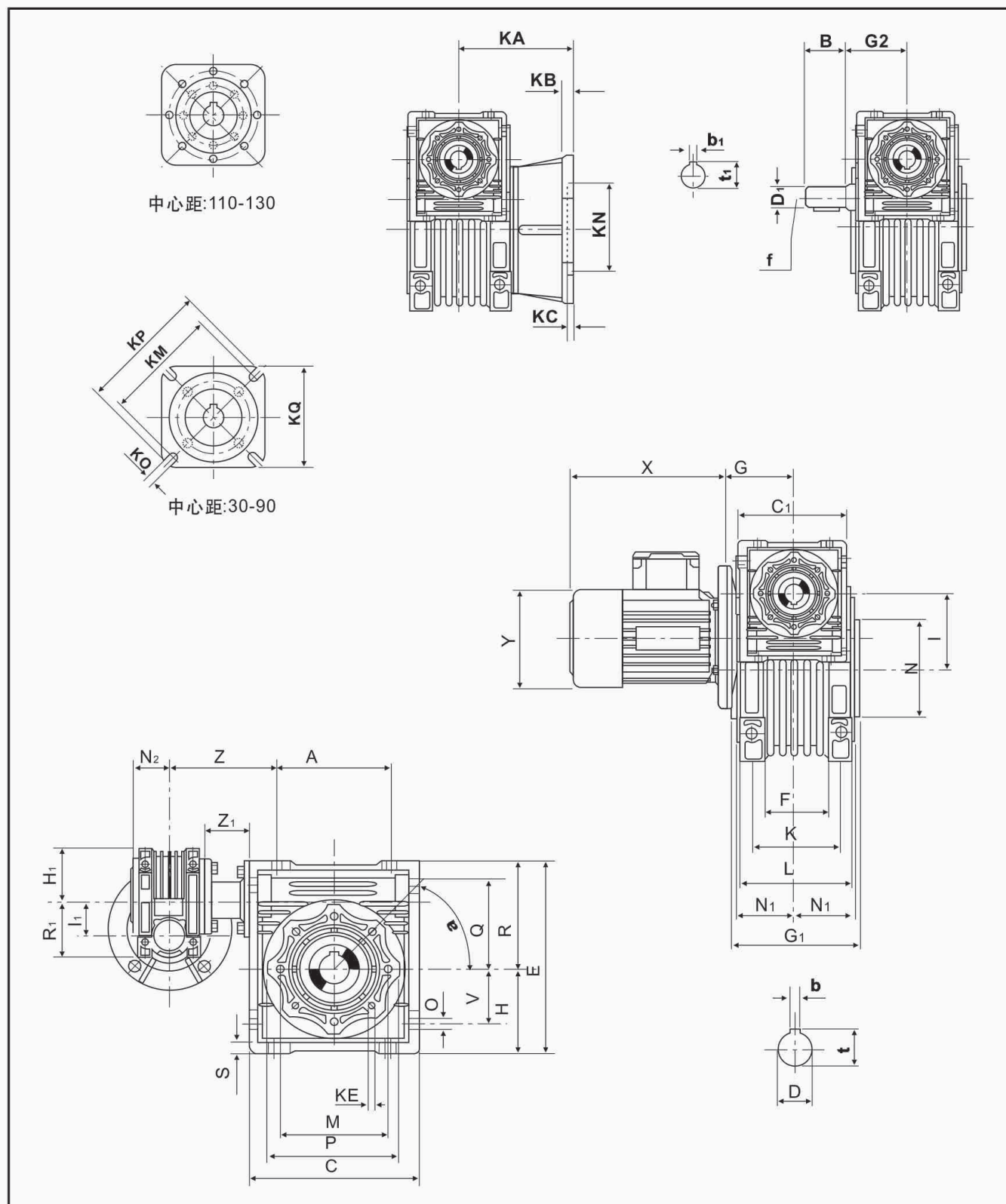


11. 常用组合机型参数表 PERFORMANCE PARAMATER FOR DOUBLE-STAGE WORM REDUCER COMBINATION

机型组合	i	n ₂	KW ₁	M ₂ (N.m)	i ₁	i ₂
30/40	300	4.7	0.08	73	10	30
	400	3.5	0.06	65	10	40
	500	2.8	0.04	61	10	50
	600	2.3	0.04	73	20	30
	750	1.9	0.04	73	25	30
	900	1.6	0.03	73	30	30
	1200	1.2	0.02	65	30	40
	1500	0.93	0.02	73	50	30
	1800	0.78	0.02	73	60	30
	2400	0.58	0.01	65	60	40
	3200	0.47	0.01	65	80	40
	4000	0.35	0.01	33	50	80
40/50	300	4.7	0.15	145	10	30
	400	3.5	0.1	124	10	40
	500	2.8	0.09	120	10	50
	600	2.3	0.08	145	20	30
	750	1.9	0.07	145	25	30
	900	1.6	0.06	145	30	30
	1200	1.2	0.04	124	30	40
	1500	0.93	0.04	145	50	30
	1800	0.78	0.04	145	60	30
	2400	0.58	0.03	124	60	40
	3200	0.47	0.02	120	60	50
	4000	0.35	0.02	82	50	80
40/63	300	4.7	0.24	230	7.5	40
	400	3.5	0.19	230	10	40
	500	2.8	0.15	216	10	50
	600	2.3	0.13	230	15	40
	750	1.9	0.11	216	15	50
	900	1.6	0.09	198	15	60
	1200	1.2	0.08	230	30	40
	1500	0.93	0.06	216	30	50
	1800	0.78	0.05	198	30	60
	2400	0.58	0.05	230	60	40
	3200	0.47	0.04	216	60	50
	4000	0.35	0.03	172	50	80
50/75	300	4.7	0.36	390	10	30
	400	3.5	0.27	360	10	40
	500	2.8	0.21	320	10	50
	600	2.3	0.19	390	20	30
	750	1.9	0.16	390	25	30
	900	1.6	0.14	390	30	30
	1200	1.2	0.11	360	30	40
	1500	0.93	0.1	390	50	30
	1800	0.78	0.09	390	60	30
	2400	0.58	0.07	360	60	40
	3200	0.47	0.05	320	60	50
	4000	0.35	0.04	250	50	80
63/110	300	4.7	0.95	1100	10	30
	400	3.5	0.69	1030	10	40
	500	2.8	0.56	1000	10	50
	600	2.3	0.48	1030	15	40
	750	1.9	0.43	1100	25	30
	900	1.6	0.38	1100	30	30
	1200	1.2	0.27	1030	30	40
	1500	0.93	0.26	1100	50	30
	1800	0.78	0.23	1100	60	30
	2400	0.58	0.17	1030	60	40
	3200	0.47	0.14	1000	60	50
	4000	0.35	0.12	780	50	80
75/130	300	4.7	1.48	1760	10	30
	400	3.5	1.09	1650	10	40
	500	2.8	0.86	1550	10	50
	600	2.3	0.76	1650	15	40
	750	1.9	0.66	1760	25	30
	900	1.6	0.58	1760	30	30
	1200	1.2	0.43	1650	30	40
	1500	0.93	0.39	1760	50	30
	1800	0.78	0.35	1760	60	30
	2400	0.58	0.25	1650	60	40
	3200	0.47	0.2	1550	60	50
	4000	0.35	0.15	1220	50	80
50/75	300	4.7	0.36	390	10	30
	400	3.5	0.27	360	10	40
	500	2.8	0.21	320	10	50
	600	2.3	0.19	390	20	30
	750	1.9	0.16	390	25	30
	900	1.6	0.14	390	30	30
	1200	1.2	0.11	360	30	40
	1500	0.93	0.1	390	50	30
	1800	0.78	0.09	390	60	30
	2400	0.58	0.07	360	60	40
	3200	0.47	0.05	320	60	50
	4000	0.35	0.04	250	50	80
63/110	300	4.7	0.95	1100	10	30
	400	3.5	0.69	1030	10	40
	500	2.8	0.56	1000	10	50
	600	2.3	0.48	1030	15	40
	750	1.9	0.43	1100	25	30
	900	1.6	0.38	1100	30	30
	1200	1.2	0.27	1030	30	40
	1500	0.93	0.26	1100	50	30
	1800	0.78	0.23	1100	60	30
	2400	0.58	0.17	1030	60	40
	3200	0.47	0.14	1000	60	50
	4000	0.35	0.12	780	50	80
75/130	300	4.7	1.48	1760	10	30
	400	3.5	1.09	1650	10	40
	500	2.8	0.86	1550	10	50
	600	2.3	0.76	1650	15	40
	750	1.9	0.66	1760	25	30
	900	1.6	0.58	1760	30	30
	1200	1.2	0.43	1650	30	40
	1500	0.93	0.39	1760	50	30
	1800	0.78	0.35	1760	60	30
	2400	0.58	0.25	1650	60	40
	3200	0.47	0.2	1550	60	50
	4000	0.35	0.15	1220	50	80
50/75	300	4.7	0.36	390	10	30
	400	3.5	0.27	360	10	40
	500	2.8	0.21	320	10	50
	600	2.3	0.19	390	20	30
	750	1.9	0.16	390	25	30
	900	1.6	0.14	390	30	30
	1200	1.2	0.11	360	30	40
	1500	0.93	0.1	390	50	30
	1800	0.78	0.09	390	60	30
	2400	0.58	0.07	360	60	40
	3200	0.47	0.05	320	60	50
	4000	0.35	0.04	250	50	80
63/110	300	4.7	0.95	1100	10	30
	400	3.5	0.69	1030	10	40
	500	2.8	0.56	1000	10	50
	600	2.3	0.48	1030	15	40
	750	1.9	0.43	1100	25	30
	900	1.6	0.38	1100	30	30
	1200	1.2	0.27	1030	30	40
	1500	0.93	0.26	1100	50	30
	1800	0.78	0.23	1100	60	30
	2400	0.58	0.17	1030	60	40
	3200	0.47	0.14	1000	60	50
	4000	0.35	0.12	780	50	80
75/130	300	4.7	1.48	1760	10	30
	400	3.5	1.09	1650	10	40
	500	2.8	0.86	1550	10	50
	600	2.3	0.76	1650	15	40
	750	1.9	0.66	1760	25	30
	900	1.6	0.58	1760	30	30
	1200	1.2	0.43	1650	30	40
	1500	0.93	0.39	1760	50	30
	1800	0.78	0.35	1760	60	30
	2400	0.58	0.25	1650	60	40
	3200	0.47	0.2	1550	60	50
	4000	0.35	0.15	1220	50	80

表中所列为常用组合型式, 用户可根据实际需要选择30.40.50.63.75.90.110.130为单元机的其它组合型式。
Above date for mormal combination, we can also make different combination as per customer request.

12. 外形及安装图表 (DIMENSIONS)



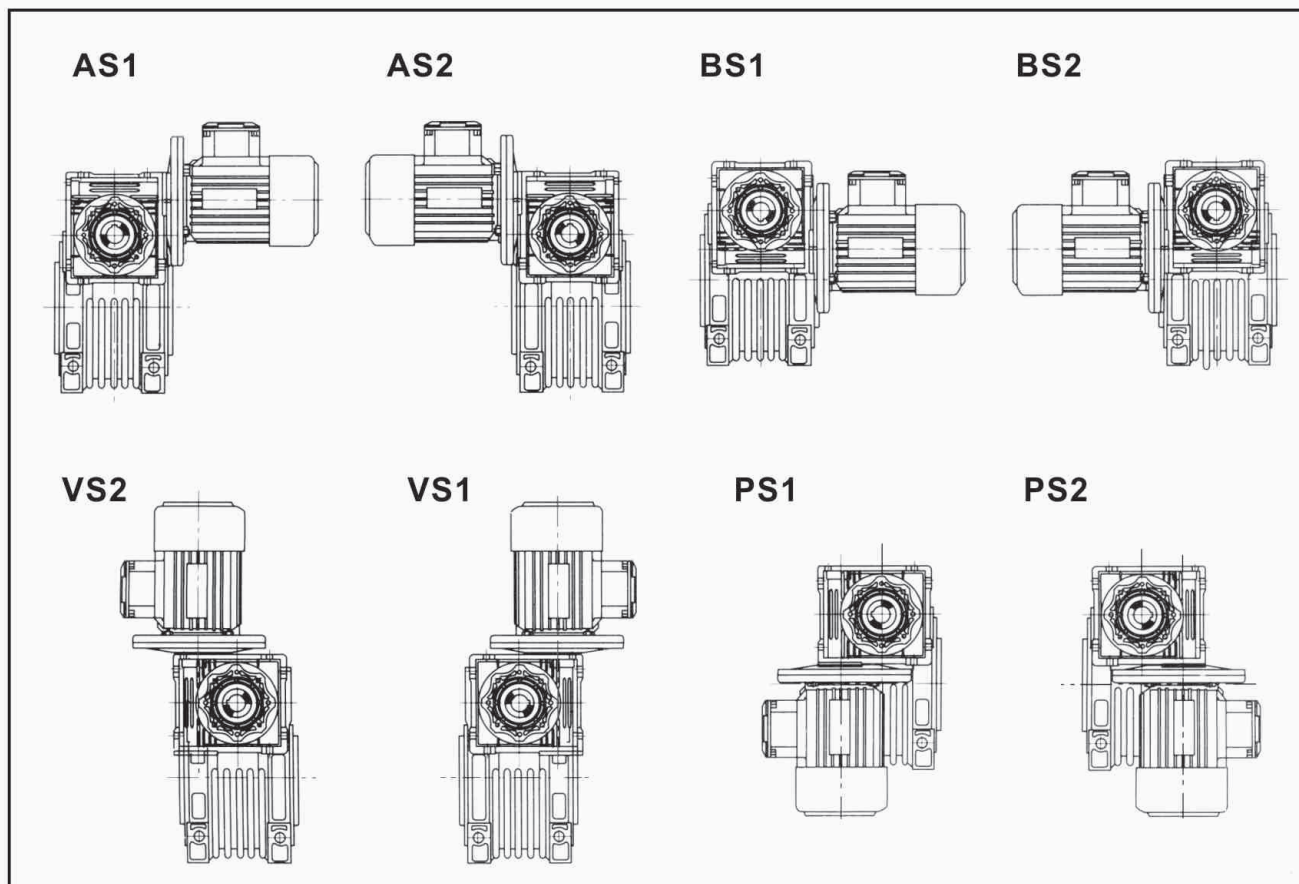
RV系列连体蜗轮减速机

RV DOUBLE-STAGE WORM GEARBOX



型号Type 安装尺寸 Size	30/40	40/50	40/63	50/75	63/110	75/130
A	70	80	100	120	170	200
B	20	23	23	30	40	50
C	100	120	144	172	252.5	292.5
C₁	80	100	100	120	144	172
D(H8)	8(19)	25	25	28	42	45
D1(j6)	9	11	11	14	19	24
E	121.5	144	174	205	295	335
F	43	49	67	72	-	-
G	70	80	95	112.5	160	180
G₁	78	92	112	120	155	170
G₂	50	54	54	64	75.5	90
H	50	60	72	86	127.5	147.5
H₁	50	50	50	60	72	86
I	40	50	63	75	110	130
I₁	40	40	40	50	63	75
L	71	85	103	112	142	154
M	75	85	95	115	165	215
N(H8)	60	70	80	95	130	180
N₁	37	43.5	53	57	74	80.5
N₂	29	37	37	43.5	53	57
O	7	9	9	11	14	16
P	87	100	110	140	200	250
Q	56	64	80	93	125	140
R	71.5	84	102	119	167.5	187.5
R₁	57	71.5	71.5	84	102	119
S	6.5	7	8	10	14	15
V	34	40	50	60	85	100
Z	122	135	151	174	226	250
Z₁	41	41	45	43	66	66
K	60	70	85	90	115	120
KE	4-M6	8-M8	8-M8	8-M8	8-M10	8-M12
a	45°	45°	45°	45°	45°	45°
KA	67	90	82	111	139	151.5
KB	7	9	10	13	15	15
KC	4	5	6	6	6	6
a₁	45°	45°	45°	45°	45°	45°
KM	87	90	150	165	220	255
KN(H8)	60	70	115	130	170	180
KO	4 / Ø9	4 / Ø11	4 / Ø11	4 / Ø14	8 / Ø14	8 / Ø16
KP	110	125	180	200	270	320
KQ	95	110	142	170	250	290
b	6	8	8	8	12	14
b₁	3	4	4	5	6	8
f	M5	M5	M5	M6	M8	M10
t	21.8	28.3	28.3	31.3	45.3	48.8
t₁	10.2	12.5	12.5	16	21.5	27

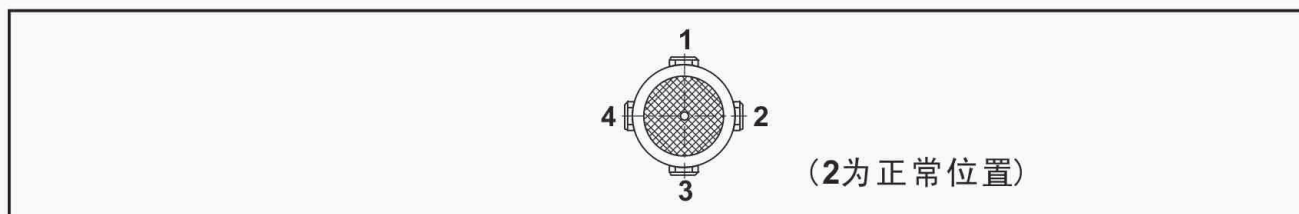
13. 带电机安装型式 (MOUNTING POSITIONS WITH MOTOR)



14. 输出法兰安装型式 (MOUNTING POSITIONS OF OUTPUT FLANGE)



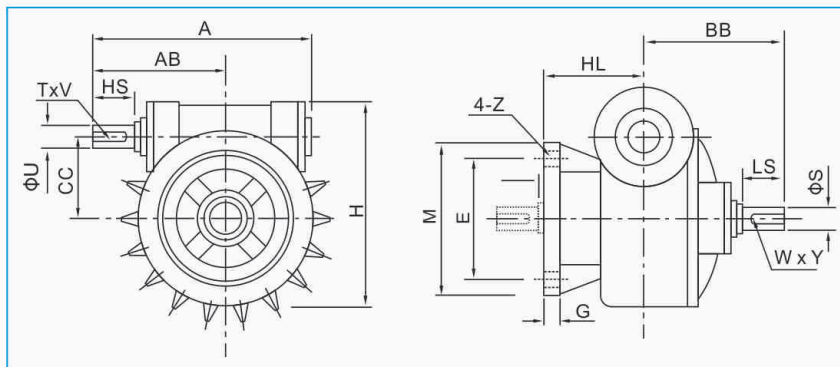
15. 电机接线位置 (POSITIONS OF MOTOR JUNCTION BOX)



WP蜗轮减速机系列 WP WORM GEARBOX REDUCER



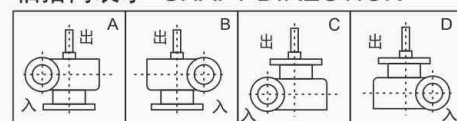
WP型



WP 80 - 30 - B

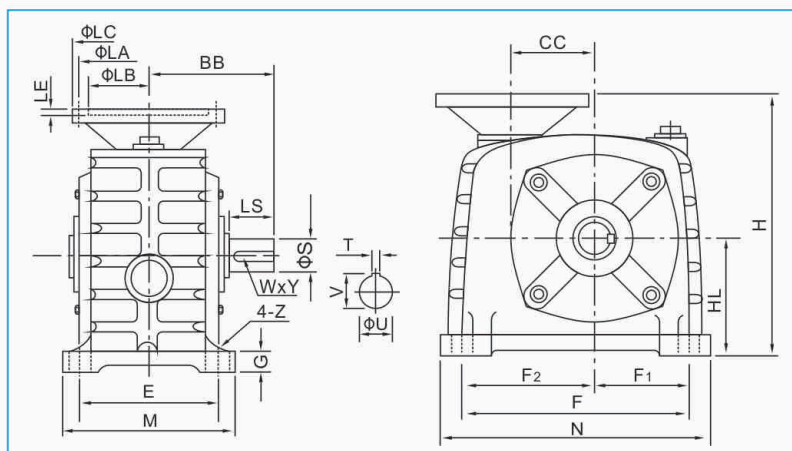
- ◆轴指向: B (Shaft direction: B)
- ◆减速比: 30 (Ratio: 30)
- ◆中心距: 80 (Center distance: 80)
- ◆机型代号: 盘型蜗轮减速机
(Type: WP worm gearbox)

轴指向表示 SHAFT DIRECTION



型号 size	减速比 ratio	A	AB	BB	CC	H	HL	M	E	G	Z	入力轴 input shaft			出力轴 output shaft			重量 weight (kg)
												HS	U	TxV	LS	S	WxY	
80	1/10 1/20 1/25 1/30	1/40 1/50 1/60	259	161	142	80	220	90	180	150	16	50	22	6 x 3.5	65	32	10 x 5	20
100	1/10 1/20 1/25 1/30	1/40 1/50 1/60	313	180	165	100	266	105	200	166.88	18	50	25	8 x 4	75	38	10 x 5	29

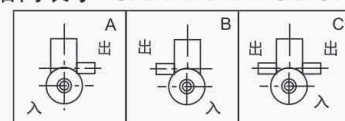
WPDT型



WPDT 50 - 20 - A

- ◆轴指向: A (Shaft direction: A)
- ◆减速比: 20 (Ratio: 20)
- ◆中心距: 50 (Center distance: 50)
- ◆机型代号: 开门机蜗轮减速机
(Type: WPDT worm gearbox for door barrier)

轴指向表示 SHAFT DIRECTION



型号 size	入功率 input(kw)	减速比 ratio	BB	CC	H	HL	M	N	E	F	F ₁	F ₂	G	Z	电机法兰 flange					入力轴 input shaft		出力轴 output shaft			重量 weight (kg)
															LA	LB	LC	LE	LZ	U	TxV	LS	S	WxY	
50	0.18	1/10 1/15 1/20	97	50	170	50	130	170	95	130	48	93	16	12	115	95	140	4	M8	11	4 x 12.8	40	17	5 x 3	11.3
	172				130										110	160	14			5 x 16.3					
60	0.37	1/25 1/30	110	60	183	60	130	200	105	160	58	102	18	12	130	110	160	4	M8	14	5 x 16.3	50	22	6 x 3.5	16.6
	0.55				194										165	130	200			19	6 x 21.8				
70	0.37	1/50 1/60	130	70	207	70	160	230	120	190	75	115	18	13	130	110	160	4	M8	14	5 x 16.3	60	28	8 x 4	20
	0.75				218										165	130	200			19	6 x 21.8				



润滑油的选定

Choice of lubricant

合理选用润滑油，能防止减速机蜗轮与蜗杆副的过度磨损，确保减速机的正常运行，充分发挥其效能。蜗轮减速机运转前应注入N680润滑油至油标中心点之上。首次使用48小时后，需更换润滑油，以后每500小时至1000小时换油一次。

In order to ensure the normal operation of worm gear reducer effectively, it should be chosen the lubricant rationally that can prevent the wear of reducer excessively.

Added the N680 lubricant over the center line of oil gauge before operate worm gear reducer. It should replace the lubricant which have worked for 48 hours on the first time, then change the lubricant again each 500 to 1000 hours.

下表为“英一牌”蜗轮蜗杆减速机润滑油的选定：

Choosing the lubricant for “TONG RUN” worm gear reducer follow the table.:

荷重 (LOAD)	周围温度 AMBIENT TEMPERATURE	中国石油 KUO-KUANG BRAND	SHELL OIL	MOBIL OIL	GB3141-82	AGMA	ISOVG
普通荷重 COMMON LOAD	-30℃~-15℃	HD-100	Shell Omala 100	Gear 627	N-100	5	VG-100
	-15℃~5℃	HD-150	Shell Omala 150	Gear 629	N-150	7	VG-150
	5℃~25℃	HD-220	Shell Omala 220	Gear 630	N-220	7EP	VG-220
	25℃~40℃	HD-320	Shell Omala 320	Gear 632	N-320	6	VG-320
	40℃~65℃	HD-460	Shell Omala 460	Gear 634	N-460	8	VG-460
超负荷 HEAVY LOAD	-30℃~-15℃	HD-150	Shell Omala 150	Gear 629	N-150	7	VG-150
	-15℃~5℃	HD-220	Shell Omala 2200	Gear 630	N-220	7EP	VG-220
	5℃~25℃	HD-320	Shell Omala 320	Gear 632	N-320	6	VG-320
	25℃~40℃	HD-460	Shell Omala 460	Gear 634	N-460	8	VG-460
	40℃~65℃	HD-680	Shell Omala 680	Gear 636	N-680	8EP	VG-680

下表为“英一牌”齿轮减速机润滑油的选定：

Choosing the lubricant for “TONG RUN” gear wheel reducer follow the table.

齿轮工作条件 Gear working conditions			推荐使用的润滑油类型 Recommend the type of lubricant
齿面的接触应力/MPa Extreme pressure	齿轮状况 Gear condition	使用工况 Working condition	
<350		一般齿轮传动 General Gear transmission	抗氧防锈工业齿轮油 Antirust antioxidant mineral oils
350~500	变位系数相同 The same coefficient 变位系数不同 The different coefficient	一般齿轮传动 General Gear transmission 有冲击的传动 Impact of transmission	抗氧防锈工业齿轮油 Antirust antioxidant mineral oils
500~750 750~1100	调质处理表面淬火 Quenching and tempering treatment	适用化工机械，矿井提升机， 露天采掘机等 Using in chemical engineering machinery, mine hoist, open-air mining machine and so on	中负荷工业齿轮油 Middling load mineral oils
>1100		冶金轧钢等 Metallurgy, rolling steel and so on	重负荷工业齿轮油 Heavy load mineral oils

故障原因及解决办法

Solutions and Reasons for Gearbox

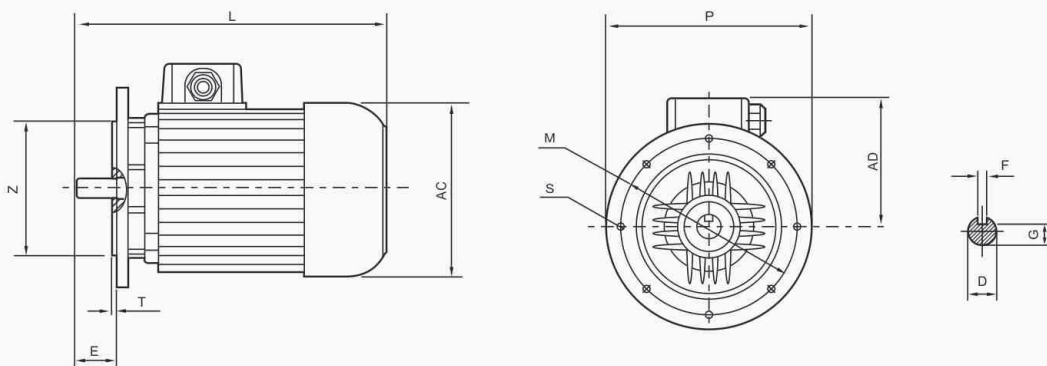
故障类型 Tapy of malfunction	故障原因 Reasons of malfunction	解决办法 Solutions of malfunction
过热 Overheating	1. 原动机、减速机、工作机连接不当 2. 超负荷运转 3. 油封过度磨擦 4. 润滑油过少或过多 5. 润滑油杂质多或润滑性差 6. 造型不当	1. 调整至适当位置，使三者相联，轴线同轴； 2. 适当调整负荷 3. 在油封唇口处滴润滑油 4. 按油标指示点调整油量 5. 清洗油池，更换新油 6. 更换机型
振动 Vibration	1. 原动机、减速机、工作机固定不良 2. 蜗轮副齿部磨耗或损伤 3. 轴承磨损 4. 螺栓松脱	1. 查出固定不良部位，正确固紧 2. 更换蜗轮副(需要时本公司配合) 3. 更换轴承 4. 固紧螺栓
杂音 Noise	1. 轴承损伤或间隙过大 2. 蜗轮副齿契合不良 3. 润滑油不足 4. 机体内有异物	1. 更换轴承 2. 修整齿面或更换蜗轮副(请与本公司联系) 3. 按油标指示点补加润滑油 4. 倒净润滑油带出异物，重加清洁润滑油
漏油 Oil leakage	1. 油封唇口磨损 2. 油封档轴颈磨损 3. 油量过多 4. 放油螺塞未旋紧 5. 油标破损	1. 更换油封 2. 更换输出轴或输入轴 3. 按油标指示点补加润滑油 4. 螺纹处加密密封胶，旋紧螺塞 5. 更换油标
蜗轮副齿面 磨损过快 The auxiliary surface of worm wear quickly	1. 超负荷运转 2. 润滑油不符合要求 3. 润滑油不足 4. 未按规定适时换油，润滑油劣化 5. 运转温度过高	1. 调整至适当负荷 2. 更换合适的润滑油 3. 按规定要求适时换油 1) 按“过热”故障处理 2) 采取合适措施，降低环境温度。

注：如果发生其他故障无法解决时，请随时与我们联系，以便提供咨询服务。

Note: If occurrence other the breakdown can't solve, please at any time with we contact, for the purpose of offering consnct the service.

电动机型号参数表

Motor coefficient tables



B5型机座安装型式 / B5 Mounting position

机座号 Frame size	4极 4P	6极 6P	外型尺寸 Forfilomtry			安装尺寸 Mounted size					轴伸尺寸 Shaft Extension				重量 kg
	KW	KW	AC	AD	L	P	N	T	M	S	E	F	D	G	
56	0.06	-	108	83	204	φ120	φ80	3	φ100	4xφ7	20	3	9	7.2	2.2
	0.09														
63	0.12	-	121	88	211	φ140	φ95	3	φ115	4xφ9	23	4	11	8.5	6.7
	0.18														
	0.25														
71	0.25	0.18	138	93	247	φ160	φ110	3.5	φ130	4xφ10	30	5	14	11	7.5
	0.37	0.25													
	0.55	0.25													
80	0.55	0.25	154	108	270	φ200	φ130	3.5	φ165	4xφ10	40	6	19	15.5	18
	0.75	0.37													
	1.1	0.75													
90S	1.1	0.75	174	116	312	φ200	φ130	3.5	φ165	4xφ10	50	8	24	20	22
90L	1.5	1.1	174	116	339	φ200	φ130	3.5	φ165	4xφ10	50	8	24	20	27
100	2.2	1.5	184	137	379	φ250	φ180	4	φ215	4xφ15	60	8	28	24	38
	3														
112	4	2.2	207	143	395	φ250	φ180	4	φ215	4xφ15	60	8	28	24	49
132S	5.5	3	244	165	505	φ300	φ230	4	φ265	4xφ15	80	10	38	33	67
132M	7.5	4	244	165	505	φ300	φ230	4	φ265	4xφ15	80	10	38	33	80
		5.5													
160M	11	7.5	325	255	600	φ350	φ250	5	φ300	4xφ19	110	12	42	37	126
160L	15	11			645										139

注: 4极三相异步电动机同步转速1500r/min.380V.50HZ
6极三相异步电动机同步转速1000r/min.380V.50HZ
56~71机座为铝合金外壳;80~160机座为铸铁外壳。

Note: 4P 3-Phase driving induction motor rotation synchronization speed is 1500r/min.380V.50HZ.
6P 3-Phase driving induction motor rotation synchronization speed is 1000r/min.380V.50HZ.
56~71 are aluminum alloy boxes;80~160 are cast iron boxes.

企业荣誉

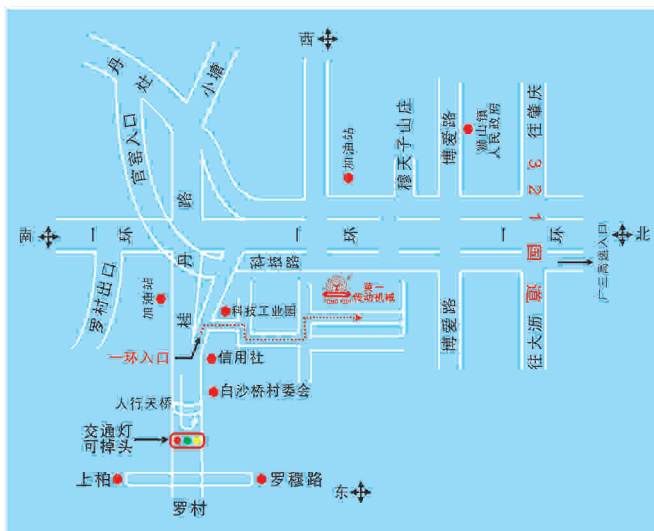
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Speed

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Speed Reducer
1988



佛山市英一传动机械厂
FOSHAN YINGYI TRANSMISSION MACHINERY

厂址: 佛山市南海区狮山镇白沙桥村第三工业区
Add: FOSHAN CITY, GUANGDONG PROVINCE, CHINA
电话/Tel: 0086-(0)757-86698221 86680276
传真/Fax: 0086-(0)757-86698261
邮箱/E-mail: yingyichuandong@163.com
网址/Web: www.zh-yingyi.com

佛山市英一传动机械厂位于广东省佛山市南海区狮山镇。企业创立于1988年，是一家通过了ISO9001-2008质量管理体系认证的减速机专业研发制造生产企业。公司占地20000余平方米，拥有数控锯床，数控车床，数控加工中心，数控精密滚齿机，莱斯豪尔磨齿机等先进的减速机生产整线。同时拥有尖端的三坐标检测仪、刀具、齿轮、蜗轮、蜗杆综合检测等仪器设备。公司拥有一支高水平的专业团队服务于减速机设计，生产，销售和客户服务的整个过程。

英一的产品和服务以市场需求为导向，经过多年开发延伸，产品包括：YH系列硬齿面齿轮减速马达、WPT螺旋升降器、JZQ齿轮减速机、RV蜗轮蜗杆减速机和特殊行业减速机等系列产品。广泛用于：陶瓷生产，不锈钢板材处理、玻璃、食品、包装、石材、环保、医疗、木工等行业设备。深受客户欢迎和好评。

英一传动秉承“诚信公平，信守合同，质量第一，客户至上”的经营理念。贯穿售前、售中、售后的热忱服务为企业树立了良好的形象，赢得了海内外新老客户的信赖和支持。经过不懈的努力，人才结构和加工设备不断得到提升，结合严格的质量管理手段和精细的控制流程确保产品质量持续稳定，使到英一品牌在不断提升。我们将一如既往地以优质的产品，合理的价格，准时的货期，忠实的服务广大客户，全方位满足客户的需求是英一传动机械厂永远的追求。

竭诚欢迎广大客户朋友光临指导！

Foshan YINGYI Transmission Machinery Factory is an ISO9001: 2008 certificated leading gear speed reducer manufacturer & supplier in South China, Established in 1988, INGYI owned 20,000m² industrial zone, with full set of CNC sawing machine, CNC lathe, CNC machining centers, precision CNC hobbing machine, precision CNC gear grinding machine, coordinate measuring machine and other comprehensive equipments, for inspecting tools, worm gears and shafts. Also YINGYI's experienced work team services at reducer designing, manufacturing and selling.

According to market demand, YINGYI supply YH helical gear motors, WPT worm screw jacks, JZQ gear reducers, NMRV worm gearboxes and other special reducers. They are widely be used in ceramic, glassing & Stainless Steel Plate processing, other equipments as food making, packing, environmental protection, stone, medical, chemical, woodworking, printing, textile.....

Adhering to "Integrity and Fairness, Comply with the contract, Quality first, Customer first", YINGYI has won great praise and has build best impressions with its dedicated services before and after sales. YINGYI devote to brand developm ent by improving its talent team and modernize management system, YINGYI will continue offering quality reducers, reasonable price. delivery punctually. Meet comprehensive demand for transmission solution is a everlasting pursuit for Yingyi Transmission Machinery.