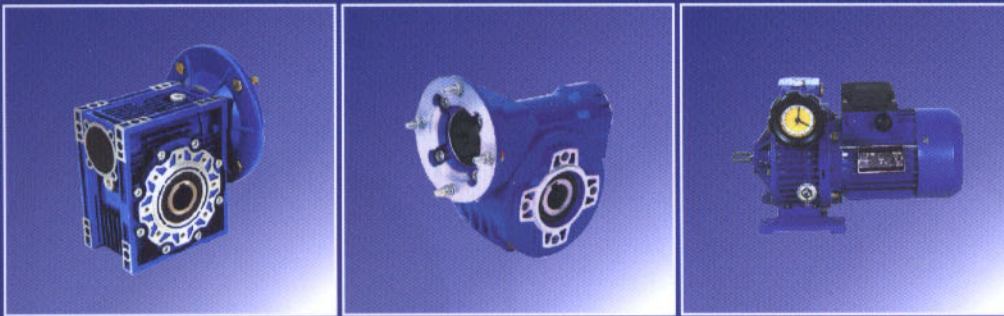


CEW

گيركس حلزونی، الكتروموتور، گيركس، دور متغير و

JGG

中国名牌产品
中国驰名商标
国家级高新技术企业
ISO9001 ISO14001



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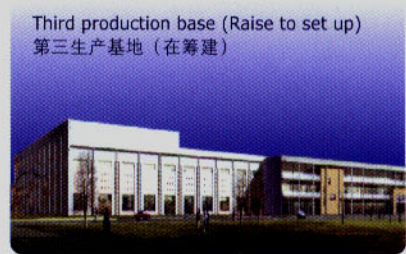
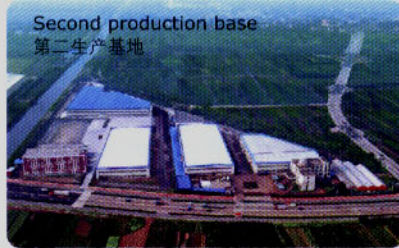
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Group Profile 集团简介

Thirty Years' hard-working has accomplished our leadership in power transmission industry.

30年诚信经营，恒星-中国传动行业的领导者。



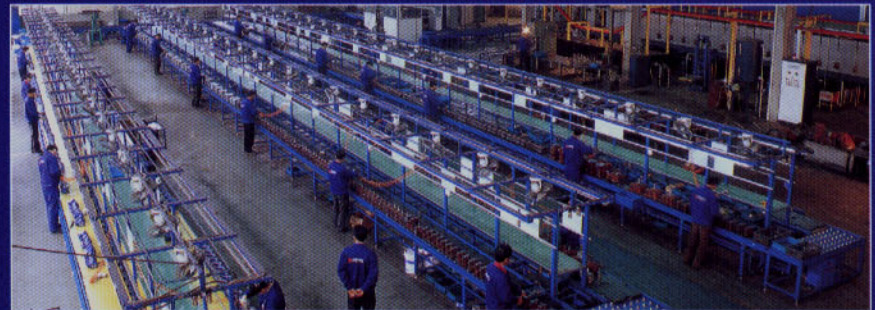
恒星科技控股集团是亚洲最大的传动减速机械专业生产厂家之一，历经30余载的发展，已成为一家集科、工、贸为一体的现代化集团企业。公司以研制开发传动机械为主导产业，投资开发具有前瞻性产业为辅。目前拥有总资产2亿美元，员工千余人，旗下有2家全资子公司、8家控股公司、12家参股公司，覆盖传动机械、电梯、汽车零部件、IT、房地产等五大产业。

公司拥有国际同行中领先的研发技术、制造技术和先进生产设备，目前已形成10大产品系列和8万余种规格产品，产品技术共获百余种国家专利。恒星产品80%出口欧美、东南亚等70多个国家，并覆盖全国营销网络。公司先后荣获“浙江省百强出口创汇企业”、“国家级高新技术企业”、“浙江省企业技术中心”、“中国名牌产品”、“中国驰名商标”等称号。

放眼未来，任重道远。公司将从新的起点迈步，将恒星打造成国际领先制造企业，为振兴中国民族工业做出新的贡献！



گپریکس حلزونی، الکتروموتور، گپریکس، دور متغیر و



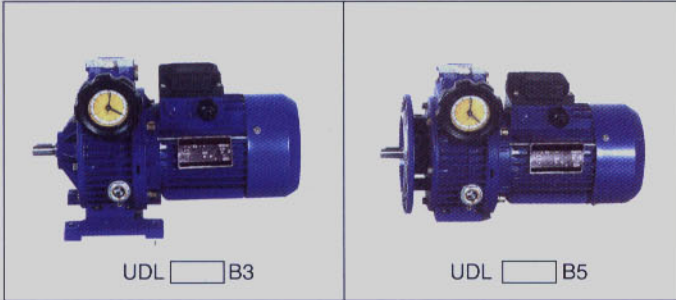
产品介绍

Products Guide

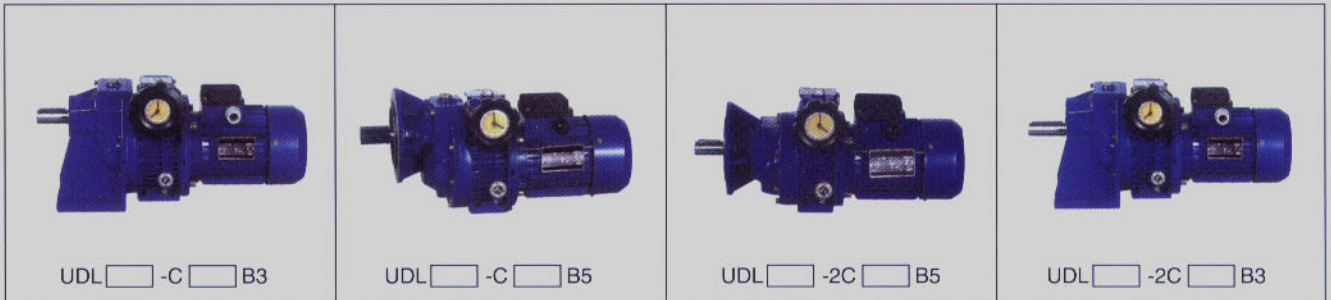
UD 系列无级变速器

UD Series Stepless Variator

基本型 Basic Model
 减速比 Ratio: 1.4 ~ 8.2



基本型与齿轮减速机组合 Basic Model-Gear Reducer
 减速比 Ratio: 2.5 ~ 20



FCN 系列减速机

FCN Series Reducer

单级 FCN 系列 Single FCN Series
 减速比 Ratio: 7.5 ~ 100



双级 FCEN 系列 Double FCEN Series
 减速比 Ratio: 100 ~ 3000



产品介绍

Products Guide

FCN 系列减速机

FCN Series Reducer

双级 FCEN 系列 Double FCEN Series

减速比 Ratio: 100 ~ 3000



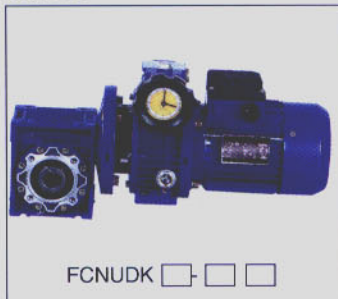
双级 FCFN 系列 Double FCFN Series

减速比 Ratio: 72.6 ~ 317



蜗轮与无级基本型组合 Worm-Variator Basic Model

减速比 Ratio: 10.5 ~ 820

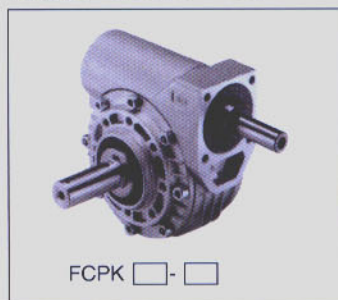


FCP 系列减速机

FCP Series Reducer

单级 FCP 系列 Single FCP Series

减速比 Ratio: 7 ~ 100



配件 Fitting



UD 系列无级变速器 UD Series Stepless Variator

概述

UD 系列无级变速器:即行星锥盘无级变速器，是为适应社会需求，并结合国外技术开发的新一代产品。可广泛应用于运输、陶瓷、包装、化工、轻纺、食品、医药、印刷、橡塑、机床及各种需调速的自动生产线、运输线、装配流水线等场合。产品主要特点如下：

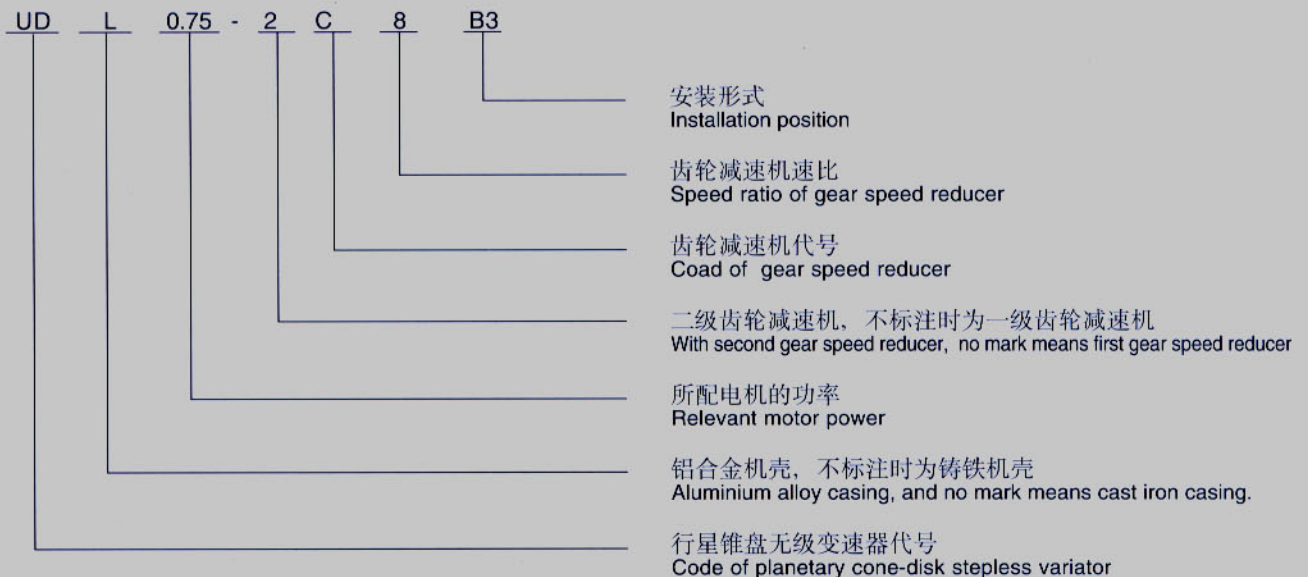
- 1.调速精度高，达到 0.5 ~ 1 转；
- 2.变速范围大，速比可在 1/1.4 ~ 1/7 之间任意调节；
- 3.强度高，寿命长；
- 4.运转平稳、噪音低、性能稳定，可连续运转工作，还可正反向运转；
- 5.调速方便，结构紧凑、体积小；
- 6.全密封，环境适应性强；
- 7.适应性好，与减速机组合可实现低速无级变速；
- 8.采用优质铝合金压铸成型，且外型美观、重量轻、永不生锈。

Summary

UD series planet cone-disk stepless variator is a new generation of products developed by ourselves on the basis of introducing foreign advanced technology. UD series stepless variator are widely used for conveying, ceramics, packing, chemical, textile, foodstuffs, medicine, printing, rubber, Machine-tools, and all kinds of automatic production lines, pipelines and assembly lines which need speed-regulation, etc. Its main features are follows:

- 1.High speed-regulating precision: up to 0.5j«1 rotation.
- 2.Large speed-changing range: The speed ratio ranges from 1/1.4 to 1/7 freely.
- 3.High in strength and long in service life.
- 4.Smooth in driving, low in noise, stable in performance, continuous in running and front-to-back in running direction.
- 5.Convenient to regulate the speed, and compact in structure and small in volume.
- 6.Full in sealing and suitable for any environment.
- 7.Easy in adaptation: it can be combined with all kinds of speed reducers, as to achieve low stepless speed-changing.
- 8.Made of high-quality aluminium alloy diecast in to forming, good-looking in appearance, light in weight and it never gets rusty.

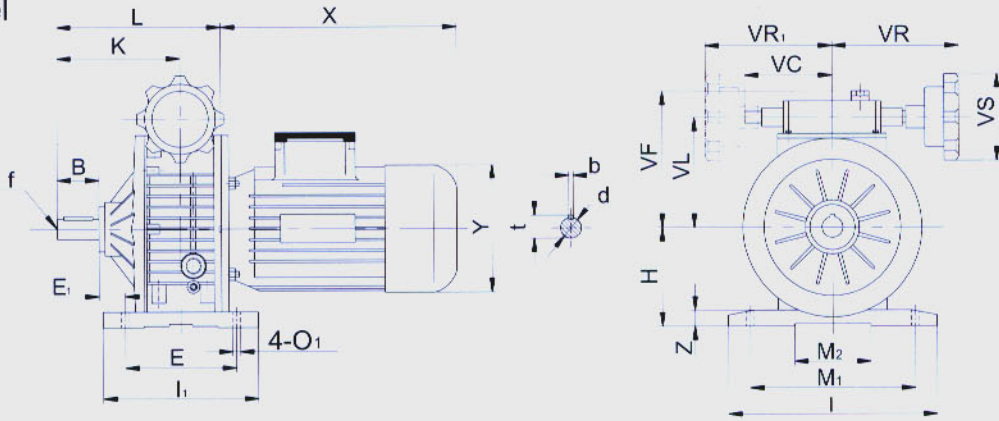
型号及表示方法 Type & Expressions



UD 基本型外形及安装尺寸

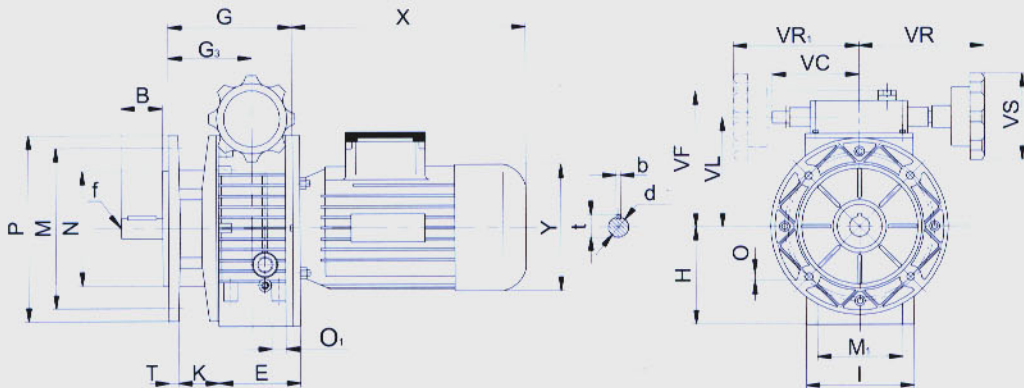
UD basic model installation dimensions

B3 型 Model



型号Type	B	d(j6)	E	E ₁	H	I	I ₁	K	L	M ₁	M ₂	O ₁	VC	VF	VL	VR	VR ₁	VS	b	f	t	X	Y	Z
UDL0.18B3	23	11	105	17.5	80	145	120	87.5	135.5	110	71	9	71	111	78	110	110	85	4	-	12.5	200	120	10
UDL0.37B3	30	14	104	20	93	149	125	104	140	120	96	9	71	123	90	110	110	85	5	M6	16	227	141	10
UDL0.75B3	40	19	125	26	113	190	150	125.5	179	160	135	11	79	140	107	120	120	110	6	M6	21.5	268	160	15
UD1.1B3	40	24	105	34.5	100	207	130	136	187	160	115	13	-	124	102	150	-	110	8	M8	27	265	195	15
UD1.5B3	50	24	115	53.5	123	241	150	165	238	190	143	13	-	144	122	150	-	110	8	M8	27	290	195	18
UD2.2B3	60	30	230	25	150	300	270	191	268	245	190	14	-	188	150	160	-	110	8	M8	33	320	215	25
UD3.0B3	60	30	230	25	150	300	270	191	268	245	190	14	-	188	150	160	-	110	8	M8	33	320	215	25
UD4.0B3	60	30	230	25	150	300	270	191	268	245	190	14	-	188	150	160	-	110	8	M8	33	340	240	25
UD5.5B3	70	35	250	33	200	365	290	201	319	315	245	18	-	-	192	194	-	110	10	M10	38	395	275	30
UD7.5B3	70	35	250	33	200	365	290	201	319	315	245	18	-	-	192	194	-	110	10	M10	38	435	275	30

B5 型 Model

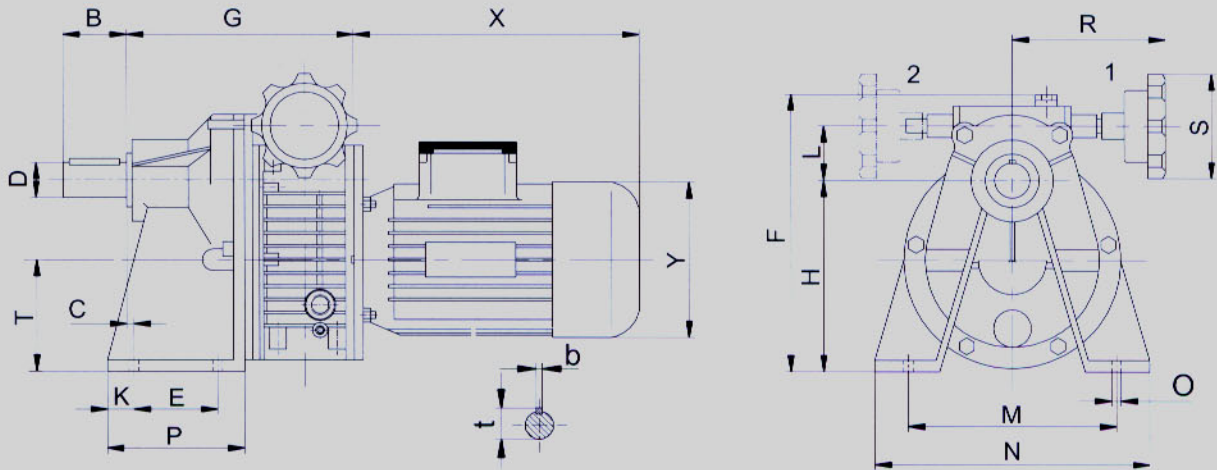


型号Type	B	d(j6)	E	G	G ₁	H	I	M	M ₁	N	D	D ₁	P	T	K	VC	VF	VL	VR	VR ₁	VS	b	f	t	X	Y
UDL0.18B5	23	11	50	112.5	64.5	70	72	115	60	95	9	M6	140	3.5	46	71	111	78	110	110	85	4	-	12.5	200	120
UDL0.37B5	30	14	40	110	74	80	90	130	77	110	9	M8	180	3.5	53	71	123	90	110	110	85	5	M6	16	227	141
UDL0.75B5	40	19	58	139	85.5	100	98	165	84	130	11	M8	200	3.5	60	79	140	107	120	120	110	6	M6	21.5	268	160
UD1.1B5	40	24	-	147	95	98	207	165	-	130	11	-	200	3.5	-	-	124	102	150	-	110	8	M8	27	265	195
UD1.5B5	50	24	-	188	115	126	241	165	-	130	11	-	200	3.5	-	-	144	122	150	-	110	8	M8	27	290	195
UD2.2B5	60	30	-	208	131	150	270	265	-	230	15	-	300	4	-	-	188	150	160	-	110	8	M8	33	320	215
UD3.0B5	60	30	-	208	131	150	270	265	-	230	15	-	300	4	-	-	188	150	160	-	110	8	M8	33	320	215
UD4.0B5	60	30	-	208	131	150	270	265	-	230	15	-	300	4	-	-	188	150	160	-	110	8	M8	33	340	240
UD5.5B5	70	35	-	244	131	200	-	300	-	250	19	-	350	5	-	-	-	192	194	-	110	10	M10	38	395	275
UD7.5B5	70	35	-	244	131	200	-	300	-	250	19	-	350	5	-	-	-	192	194	-	110	10	M10	38	435	275

基本型与一级齿轮减速机组合外形及安装尺寸

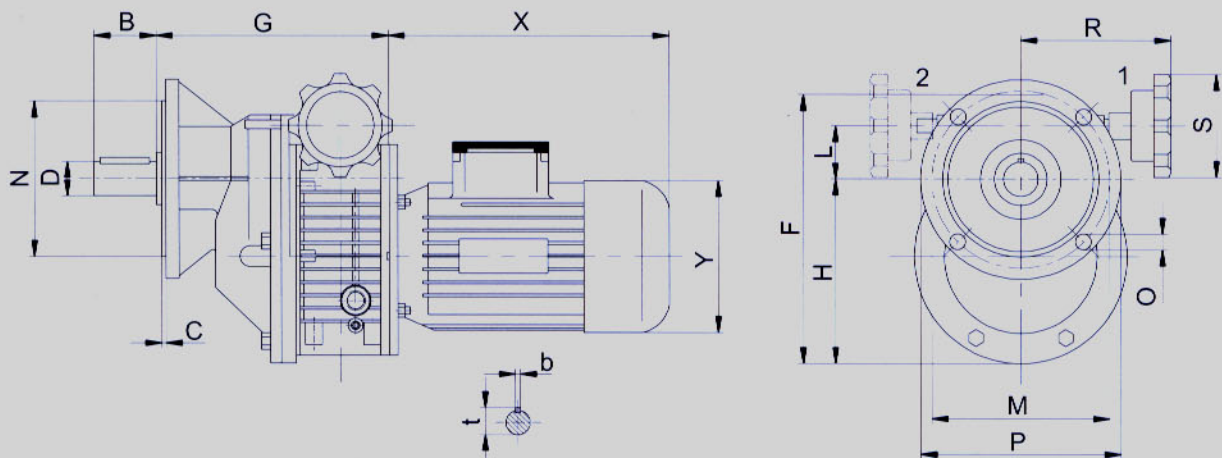
Basic model-single stage gear reducer installation dimensions

B3 型 Model



型号Type	B	C	D	t	b	E	F	G	H	Y	L	M	N	O	P	R	S	T	X	K
UDL0.18-CB3	40	18	19	21.5	6	45	162	189	108	120	33	115	130	9	80	110	85	66	200	16
UDL0.37-CB3	50	6	24	27	8	70	187	190	130	141	39	150	190	10	110	110	85	79	227	15
UDL0.75-CB3	60	7	28	31	8	70	228	225	160	160	46	165	210	12	130	130	110	99	268	25

B5 型 Model



型号Type	B	C	D	t	b	F	G	H	Y	L	M	N	O	P	R	S	X
UDL0.18-CB5	40	3	19	21.5	6	176	191	105	120	33	115	95	9	140	110	85	200
UDL0.37-CB5	50	4	24	27	8	208	192	128	141	39	130	110	10.5	160	110	85	227
UDL0.75-CB5	60	4	28	31	8	255	227	155	160	46	165	130	12.5	200	130	110	268

基本型

Basic Model

输入 Input	型号 Type	减速比 Ratio	输出 Output	
			n_2 (r/min)	M_2 (N.m)
0.18KW	UDL0.18	1.6-8.2	880-170	1.5-3
0.37KW	UDL0.37	1.4-7	1000-200	3-6
0.55KW	UDL0.55	1.4-7	1000-200	4-8
0.75KW	UDL0.75	1.4-7	1000-200	6-12
1.1KW	UD1.1	1.4-7	1000-200	9-18
1.5KW	UD1.5	1.4-7	1000-200	12-24
2.2KW	UD2.2	1.4-7	1000-200	18-36
3.0KW	UD3.0	1.4-7	1000-200	24-48
4.0KW	UD4.0	1.4-7	1000-200	32-64
5.5KW	UD5.5	1.4-7	1000-200	45-90
7.5KW	UD7.5	1.4-7	1000-200	59-118

基本型与齿轮减速机组合

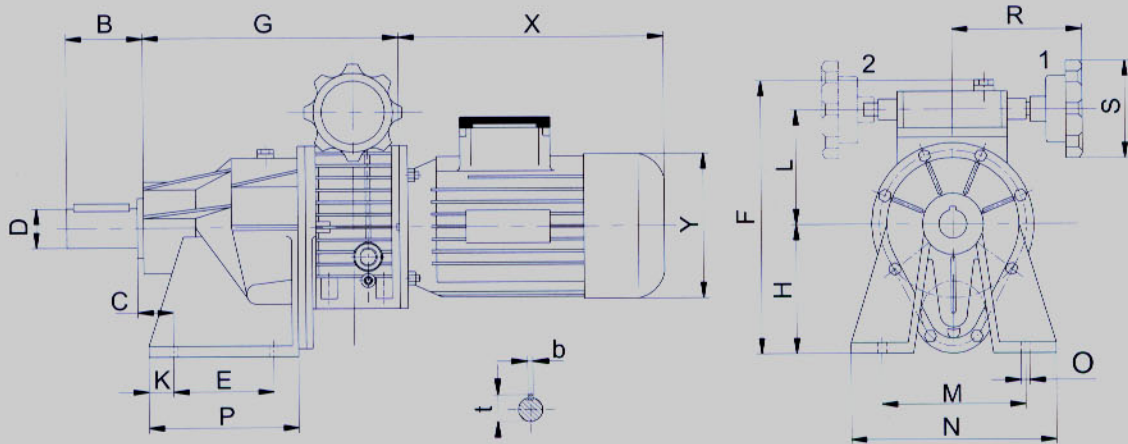
Basic model-gear speed reducer

输入 Input	型号 Type	减速比 Ratio	输出 Output	
			n_2 (r/min)	M_2 (N.m)
0.18KW 4P $n_1=1400$ r/min	UDL0.18-C	2.5	352-68	3.5-7.4
		3.3	266-51.5	4.7-10
		5	176-34	7-15
	UDL0.18-2C	8	110-21	10-20
		11	80-15.5	14-28
		13.3	66-13	17-34
0.37KW 4P $n_1=1400$ r/min	UDL0.37-C	16.6	53-10	21-42
		20	44-8.5	25-50
		2.5	400-80	7.3-15
	UDL0.37-2C	3.3	300-60	9.5-20
		5	200-40	15-30
		8	125-25	20-40
0.75KW 4P $n_1=1400$ r/min	UDL0.75-C	11	90-18	28-56
		13.3	75-15	34-68
		16.6	60-12	42-84
	UDL0.75-2C	20	50-10	53-106
		2.5	400-80	15-29
		3.3	300-60	19-38
0.75KW 4P $n_1=1400$ r/min	UDL0.75-C	5	200-40	30-60
		8	125-25	40-80
		11	90-18	54-108
	UDL0.75-2C	13.3	75-15	68-136
		16.6	60-12	84-168
		20	50-10	96-140

基本型与二级齿轮减速机组合外形及安装尺寸

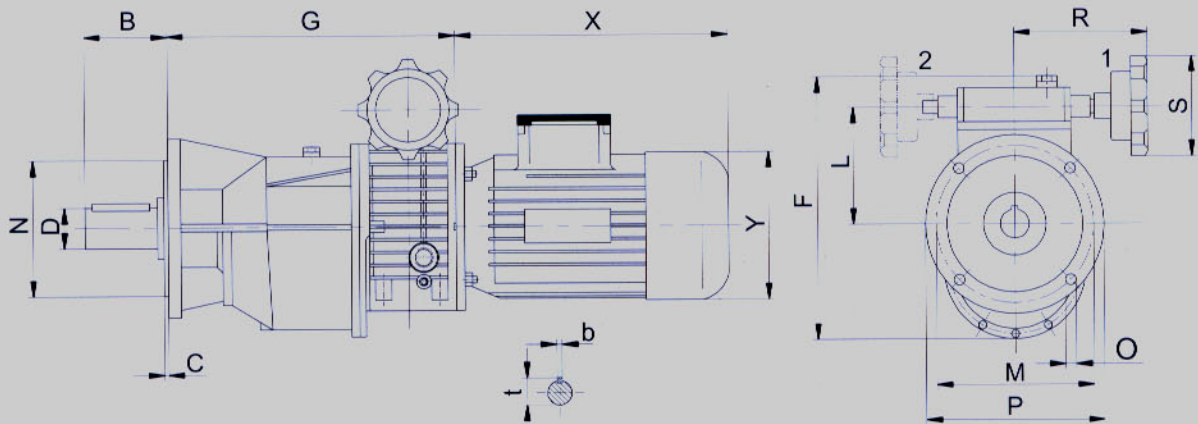
Basic model-double stage gear reducer installation dimensions

B3 型 Model



型号Type	B	C	D	t	b	E	F	G	H	Y	L	M	N	O	P	R	S	X	K
UDL0.18-2CB3	40	27	19	21.5	6	70	201	229	105	120	78	105	130	9	120	110	85	200	21
UDL0.37-2CB3	55	25	28	31	8	85	216	238	110	141	90	150	190	10	140	110	85	227	19
UDL0.75-2CB3	65	34	32	35	10	90	261	278	154	160	107	185	230	12	150	130	110	268	21

B5 型 Model



型号Type	B	C	D	t	b	F	G	Y	L	M	N	O	P	R	S	X
UDL0.18-2CB5	40	3	19	21.5	6	198	231	120	78	115	95	9	140	110	85	200
UDL0.37-2CB5	65	4	28	31	8	223	240	141	90	130	110	10.5	160	110	85	227
UDL0.75-2CB5	65	4	32	35	10	262	280	160	107	165	130	12.5	200	130	110	268

使用说明 Usage specifications

- 1、联轴器与电动机联接时应使轴线保持同心，安装误差不应大于所用联轴器的允许误差值。
- 2、输出轴装联轴器或带轮时，用轴端螺孔压入，或加热装配，严禁锤击。
- 3、机械无级变速器不宜用于可能超负载或堵转使用场合。
- 4、调速应在运转中进行，严禁停车时转动调速手轮。
- 5、操作盒下的两端调速限位螺钉已调整好，请勿再动。
- 6、本机不宜工作在高于 40℃ 的环境中，温升不得高于 45℃。

变速器跑合（空车运转）开始时，温度可高于正常工作环境温度约 40~50℃。跑合 60~80 小时后，温升逐渐下降，此后，温度高于环境温度约 20℃，并保持稳定的温升。跑合时的高温对部件的使用寿命并无有害影响（建议：在使用前进行空车运转）。

- 7、变速器采用润滑油油浴润滑。润滑油牌号为 Ub-3。使用前请检查油位。
- 8、出厂前润滑油已加入，首次使用 1000 小时后应更换润滑油。
- 9、变速器内润滑油应保持在油标的三分之一高度，用户应经常检查油位高度，严禁在润滑不良的情况下使用。操作盒上透气螺母出厂时为防止搬运中漏油已旋紧，运转时须松开，严禁未松开使用。

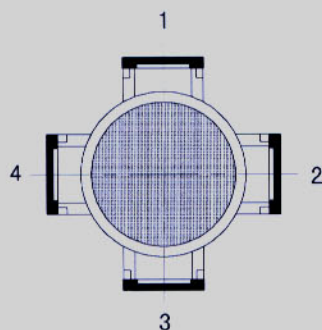
1. The shaft lines should be kept concentric when the coupling is connected with a motor. The installation error should be no more than the tolerance value of the coupling.
2. When the output shaft is installed with the coupling or belt wheel, they should be press into the screw hole on shaft end, or assembled by heating. No hammering on it.
3. The mechanical stepless speed variator is not used in such a occasion where overload or running-blockage happen to occur.
4. Speed-regulation should be effected in running. No turning the hand wheel of speed-regulation when the machine stops.
5. The banking screws of speed-regualtion on two ends under the operating box are well adjusted. Please don't touch them.
6. This set is not suited to work in the environment of above 40℃, especially no more than 45℃ when the temperature goes up.

When the variator starts to work (without load), the temperature rise higher than normal, up to 40~50℃ above the environment temperature. After 60~80 hours running, the temperature will decrease gradually. Finally, the temperature will be about 20℃ higher than surrounding and keep stable. The high temperature at beginning do not damage any parts of variator and do not affect its service life. (Suggestion: running without load at first.)

7. The liquid lubricating oil is used for the speed variator. Its trade mark is Ub-3. please check up the oil level before use.
8. The machine is filled with lubricating oil before leaving the factory. When it starts to work up to 1000 hours for the first time, its lubricating oil should be replaced.
9. The lubricating oil level inside the speed variator should be kept at the height of one-third in the oil scale. Users should usually check up the height of oil level.

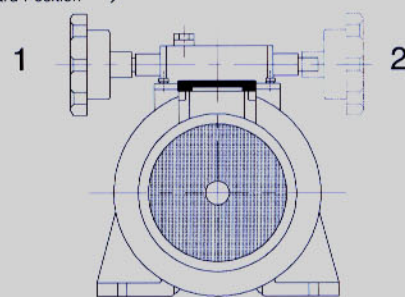
It is strictly prohibited to operate it short of lubricating oil. The air screw nut on the operating box is screwed up for preventing from oil leakage in moving when leaving the factory.

It should be loosed when it start to run. It is strictly forbidden to use it before loosing.



电机接线盒位置图
Position diagram for motor terminal box

(基本位置)
Standard Position



手轮位置图
Hand wheel position diagram

FCN 系列减速机 FCN Series Reducer

概述

FCN 系列减速机是我厂在引进国外技术的基础上开发的一代产品。主要特点如下：

1. 优质铝合金铸造，重量轻，不生锈；
2. 输出扭矩大；
3. 传动平稳，噪音小；
4. 散热性能好；
5. 美观耐用，体积小；
6. 可适用全方位安装。

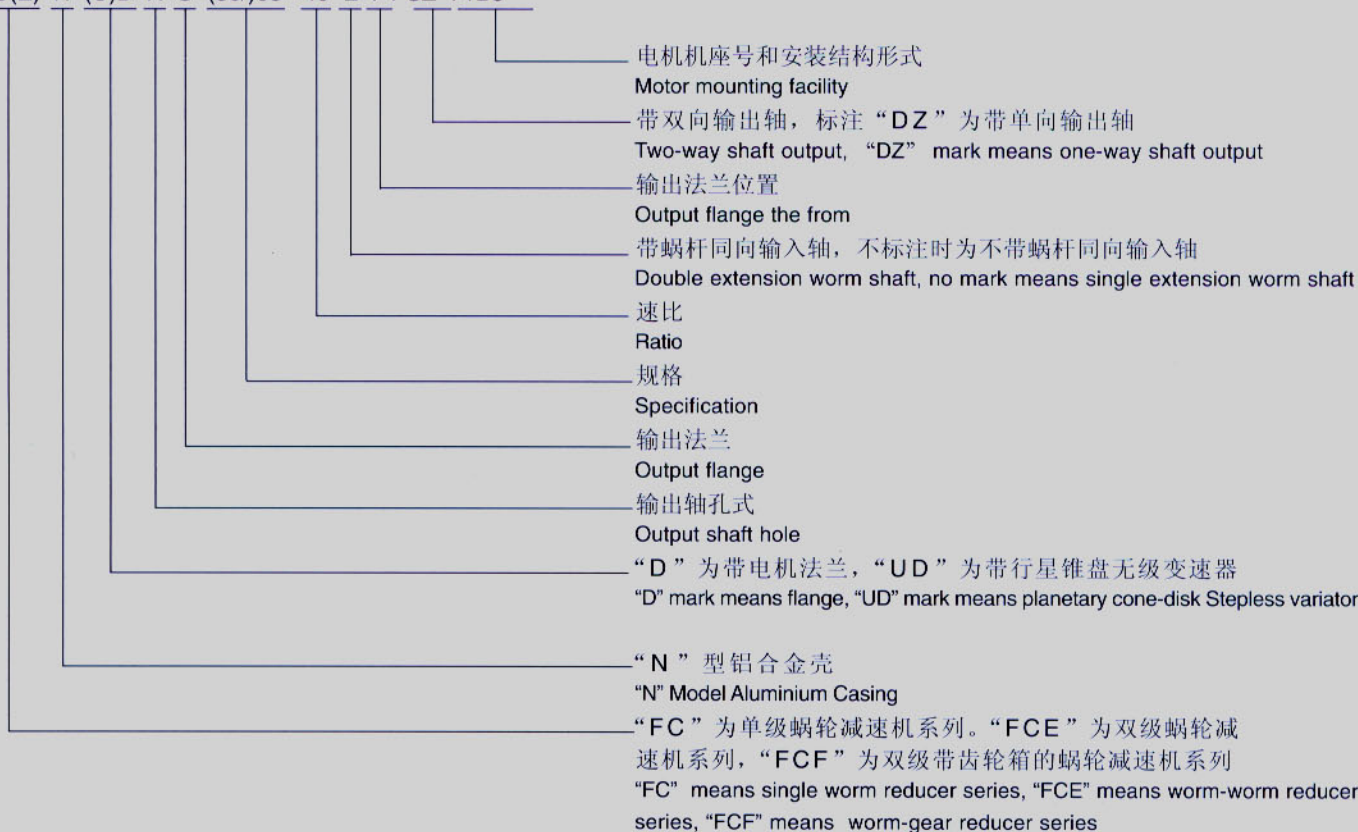
Summary

FCN series reducer is a new-generation of products developed by our factory on the basis of introducing foreign advanced technology, its main features are as follows:

1. Made of high-quality aluminium alloy, light weight and non-rusting.
2. Large output torque.
3. Smooth running and low noise.
4. High radiating efficiency.
5. Good-looking appearance, durable service life and small volume.
6. Suitable for omnibearing installation.

型号及表示方法 Type & Expressions

FC(E) N (U)D K O (30/63 - 40 E F1 SZ 71B5



注：关于规格之说明
 单级用“中心距”表示
 蜗轮 / 蜗轮组合用“中心距 / 中心距”表示
 蜗轮 / 齿轮组合用“中心距 / 机座号”表示
 蜗轮 / 无级组合用“中心距 / 入功率”表示

Note: For specification
 Single type is the “center distance”
 Worm-worm is the “center distance/center distance”
 Worm-gear is the “center distance/frame number”
 Worm-variator is the “center distance/input power”

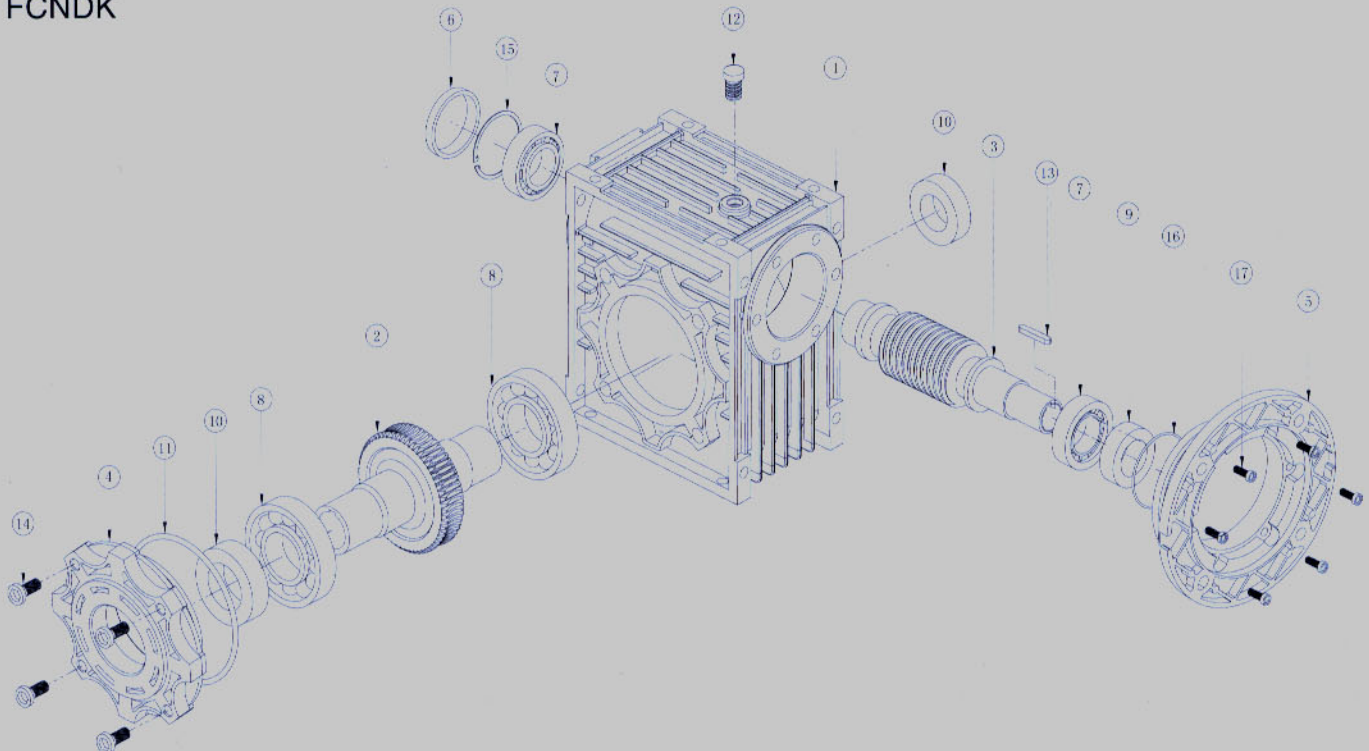
单级 FCN 系列 Single FCN Series

主要指标 Main specifications

中心距 Center distance(mm)									
25	30	40	50	63	75	90	110	130	
速 比 Ratio									
7.5	10	15	20	25	30	40	50	60	
80	100								

序号 No.	名称	Parts	序号 No.	名称	Parts
1	箱体	Frame	10	油封	Oil seri
2	蜗轮	Worm wheel	11	O型密封圈	Oring
3	蜗杆	Worm shaft	12	螺塞	Oil plug
4	端盖	Output shaft cover	13	平键	Key
5	法兰	Flange	14	内六角螺钉	Intl.hex screw
6	密封端盖	Seal cover	15	孔用挡圈	Snap ring
7	轴承	Bearing	16	O型密封圈	Oring
8	轴承	Bearing	17	内六角螺钉	Intl.hex screw
9	油封	Oil seri			

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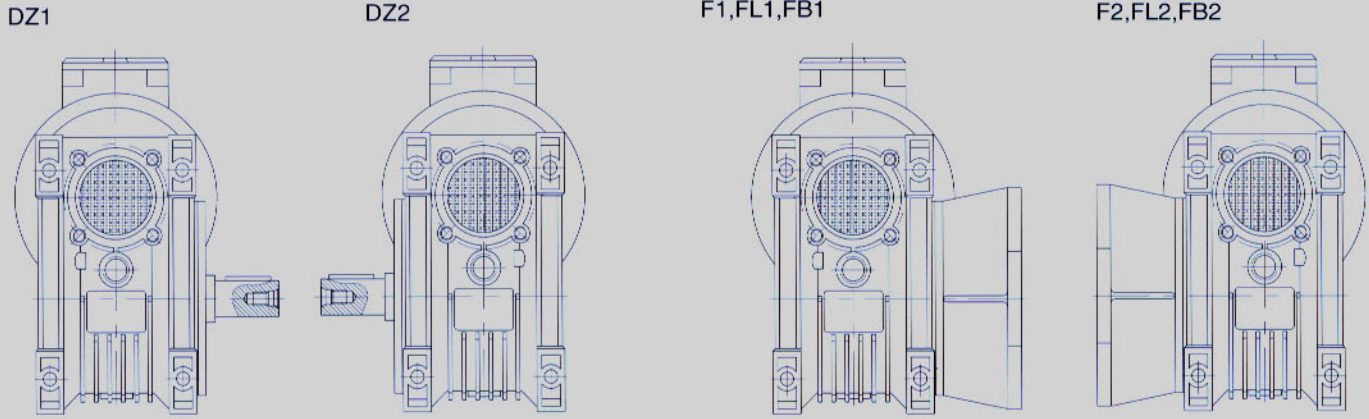


单向输出轴位置图

Position diagram for one-way output shaft

输出法兰位置图

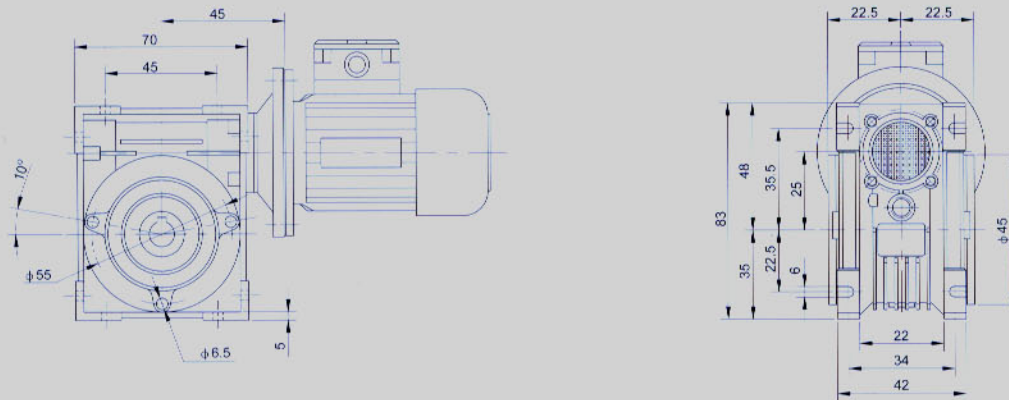
Position diagram for output flange



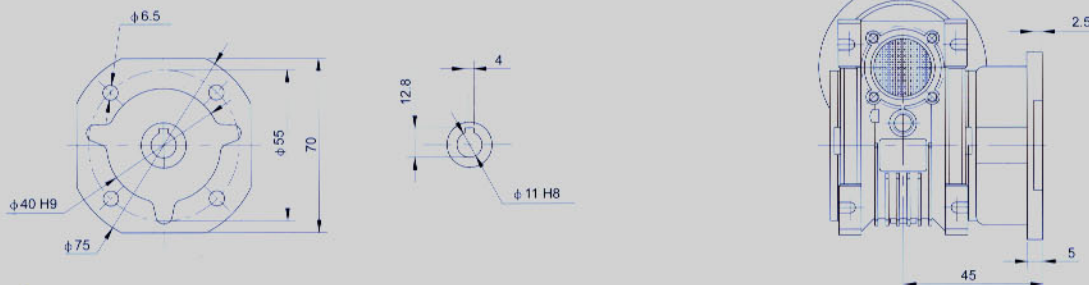
单级 FCN 系列外形及安装尺寸

Single FCN series installation dimensions

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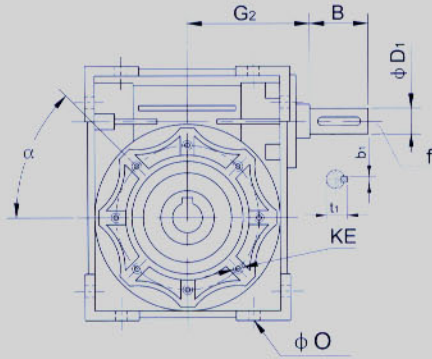


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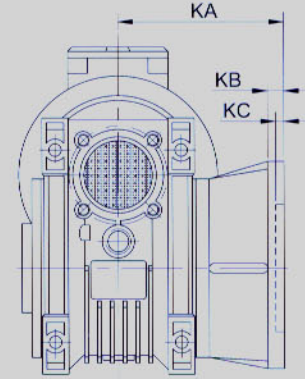
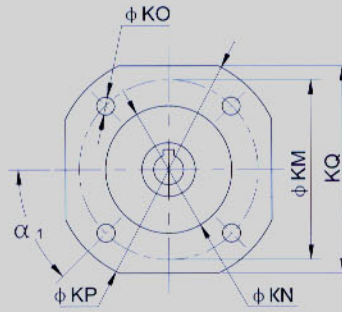


单级 FCN 系列外形及安装尺寸 Single FCN series installation dimensions

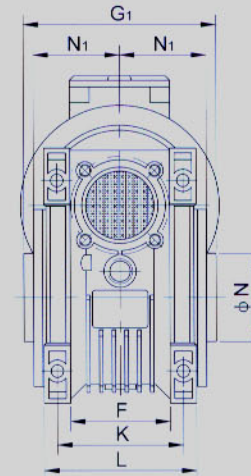
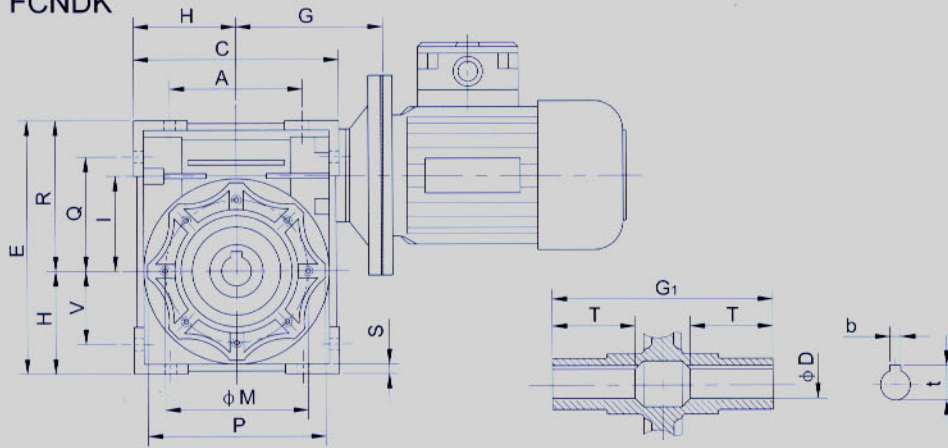
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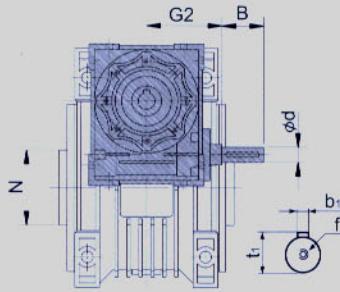
型号 Size	A	B	C	D (H7)	D ₁ (J6)	E	F	G	G ₁	G ₂	H	I	L	M	N (h8)	N ₁	O	P	Q	R
30	54	20	80	14	9	97	32	55	63	51	40	30	56	65	55	29	6.5	75	44	57
40	70	23	100	18(19)	11	121.5	43	70	78	60	50	40	71	75	60	36.5	6.5	87	55	71.5
50	80	30	120	25(24)	14	144	49	80	92	74	60	50	85	85	70	43.5	8.5	100	64	84
63	100	40	144	25(28)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

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

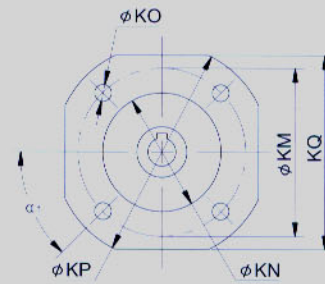
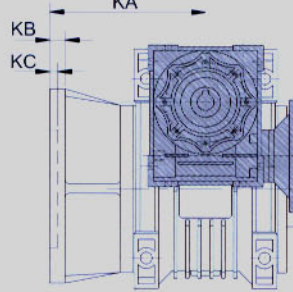
注:重量 (Kg) 不含电机 Notes: Weight without motor

双级 FCEN (蜗轮 - 蜗轮组合) 系列外形及安装尺寸 Double FCEN (worm-worm) series installation dimensions

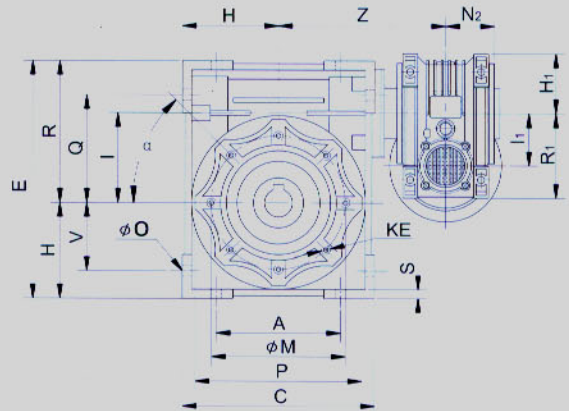
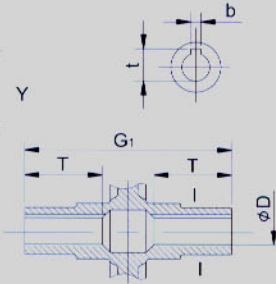
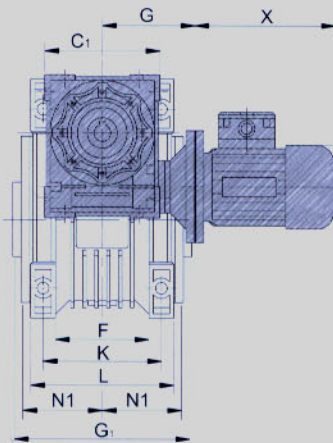
FCENK



FCENDKO



FCENDK

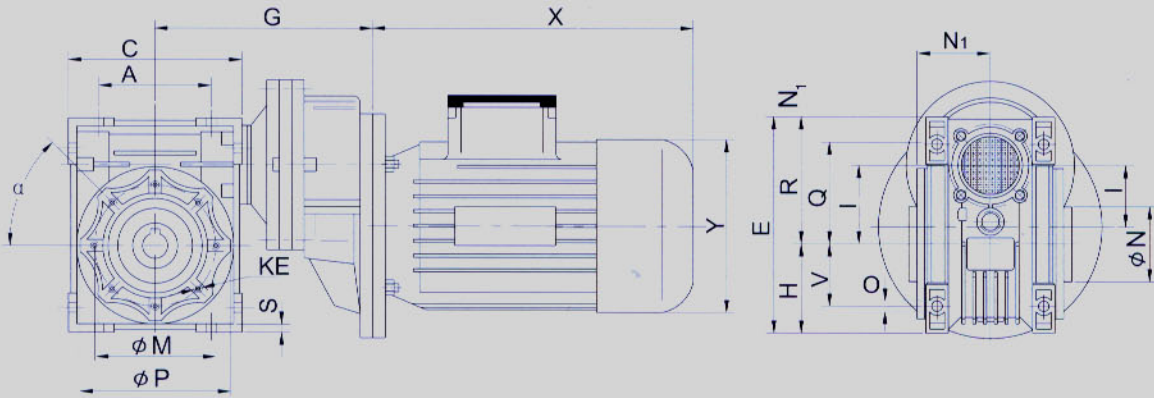


型号 Size	A	B	C	C ₁	D(H7)	d (j6)	E	F	G	G ₁	G ₂	H	H ₁	I	I ₁	L	M	N(n8)	N ₁	N ₂	O	P	Q	R	R ₁	S	T	V	Z	K	KA		
	F	FB	FL																													F	FB
25/30	54	-	80	70	14	-	97	32	45	63	-	40	35	30	25	56	65	55	29	22.5	6.5	75	44	57	48	5.5	21	27	100	44	54.5	-	-
25/40	70	-	100	70	18(19)	-	121.5	43	45	78	-	50	35	40	25	71	75	60	36.5	22.5	6.5	87	55	71.5	48	6.5	26	35	115	60	67	76.5	97
30/40	70	20	100	80	18(19)	9	121.5	43	55	78	51	50	40	40	30	71	75	60	36.5	29	6.5	87	55	71.5	57	6.5	26	35	120	60	67	76.5	97
30/50	80	20	120	80	25(24)	9	144	49	55	92	51	60	40	50	30	85	85	70	43.5	29	8.5	100	64	84	57	7	30	40	130	70	90	87.5	120
30/63	100	20	144	80	25(28)	9	174	67	55	112	51	72	40	63	30	103	95	80	53	29	8.5	110	80	102	57	8	36	50	145	85	82	99	112
40/75	120	23	172	100	28(35)	11	205	72	70	120	60	86	50	75	40	112	115	95	57	36.5	11	140	93	119	71.5	10	40	60	165	90	111	-	-
40/90	140	23	208	100	35(38)	11	238	74	70	140	60	103	50	90	40	130	130	110	67	36.5	13	160	102	135	71.5	11	45	70	182	100	111	-	-
50/110	170	30	252.5	120	42	14	295	-	80	155	74	127.5	60	110	50	144	165	130	74	43.5	14	200	125	167.5	84	14	50	85	225	115	131	-	-
63/130	200	40	292.5	144	45	19	335	-	95	170	90	147.5	72	130	63	155	215	180	81	53	16	250	140	187.5	102	15	60	100	245	120	140	-	-
63/150	240	40	340	144	50	19	400	-	95	200	90	170	72	150	63	185	215	180	96	53	18	250	180	230	102	18	72.5	120	275	145	155	-	-

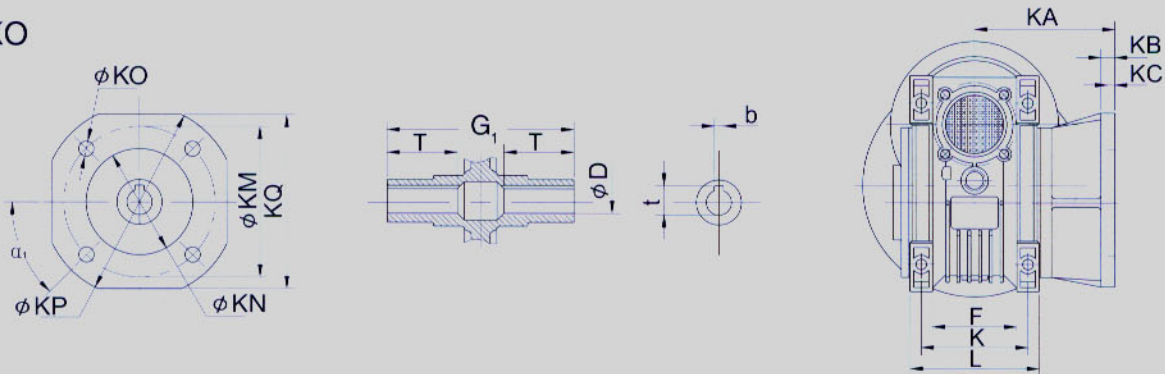
KB	KC	KE	alpha	alpha ₁	KM			KN(H8)			KO			KP			KQ			b	b ₁	f	t	t ₁	Kg	
					F	FB	FL	F	FB	FL	F	FB	FL	F	FB	FL	F	FB	FL							
6	-	4	M6 × 11(n,4)	0°	90°	68	-	-	50	-	-	6.5(n,4)	-	-	80	-	-	70	-	-	5	-	-	16.3	-	2.1
7	9	7	4(5) M6 × 8(n,4)	45°	90°	87	115	87	60	95	60	9(n,4)	9.5(n,4)	9(n,4)	110	140	110	95	-	95	6(6)	-	-	20.8(21.8)	-	3.2
7	9	7	4(5) M6 × 8(n,4)	45°	90°	87	115	87	60	95	60	9(n,4)	9.5(n,4)	9(n,4)	110	140	110	110	-	110	6(6)	3	-	20.8(21.8)	10.2	3.9
9	10	9	5(5) M8 × 10(n,4)	45°	90°	90	130	90	70	110	70	11(n,4)	9.5(n,4)	11(n,4)	125	160	125	110	-	110	8(8)	3	-	28.3(27.3)	10.2	5.0
10	11	10	6(5) M8 × 14(n,8)	45°	90°	150	165	150	115	130	115	11(n,4)	11(n,4)	11(n,4)	180	200	180	142	-	142	8(8)	3	-	28.3(31.3)	10.2	7.8
13	-	-	6 M8 × 14(n,8)	45°	90°	165	-	-	130	-	-	14(n,4)	-	-	200	-	-	170	-	-	8(10)	4	-	31.3(38.3)	12.5	12.0
13	-	-	6 M10 × 18(n,8)	45°	90°	175	-	-	152	-	-	14(n,4)	-	-	210	-	-	200	-	-	10(10)	4	-	38.3(41.3)	12.5	16.0
15	-	-	6 M10 × 18(n,8)	45°	45°	230	-	-	170	-	-	14(n,8)	-	-	280	-	-	260	-	-	12	5	M6	45.3	16.0	39.2
15	-	-	6 M12 × 21(n,8)	45°	22.5°	255	-	-	180	-	-	16(n,8)	-	-	320	-	-	290	-	-	14	6	M6	48.8	21.5	55.0
15	-	-	6 M12 × 21(n,8)	45°	22.5°	255	-	-	180	-	-	16(n,8)	-	-	320	-	-	290	-	-	14	6	M6	53.8	21.5	93

双级 FCFN (蜗轮 - 齿轮组合) 系列外形及安装尺寸 Double FCFN (worm-gear) series installation dimensions

FCFNDK



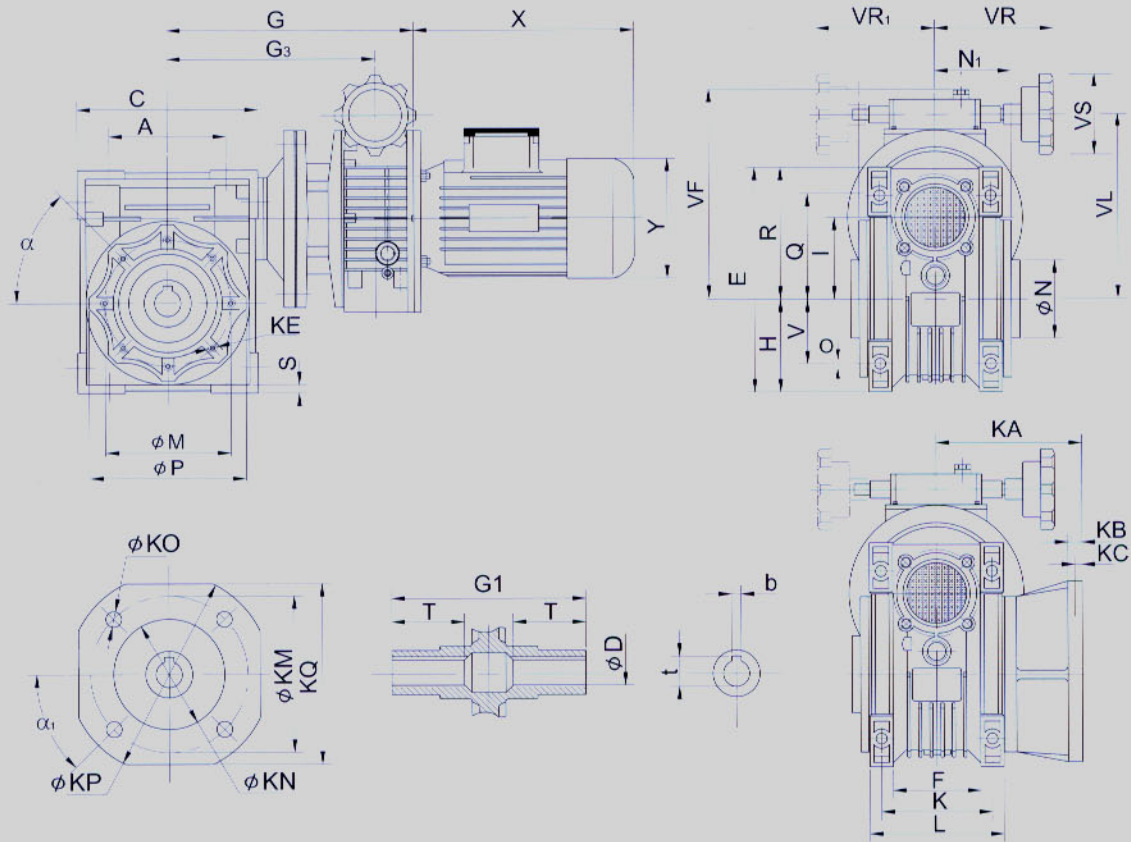
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型号 Size	A	C	D(H7)	E	F	G	G ₁	H	I	I ₁	L	M	N(hB)	N ₁	O	P	Q	R	S	T	V	K	KA			KB			KC	KE	α	α ₁
																							F	FB	FL	F	FB	FL				
40/63	70	100	18(19)	121.5	43	123	78	50	40	40	71	75	60	36.5	6.5	87	55	71.5	6.5	26	35	60	67	76.5	97	7	9	7	4(5)	M6 × 8(n.4)	45°	45°
50/63	80	120	25(24)	144	49	133	92	60	50	40	85	85	70	43.5	8.5	100	64	84	7	30	40	70	90	87.5	120	9	10	9	5(5)	M8 × 10(n.4)	45°	45°
50/71	80	120	25(24)	144	49	143	92	60	50	50	85	85	70	43.5	8.5	100	64	84	7	30	40	70	90	87.5	120	9	10	9	5(5)	M8 × 10(n.4)	45°	45°
63/63	100	144	25(28)	174	67	148	112	72	63	40	103	95	80	53	8.5	110	80	102	8	36	50	85	82	99	112	10	11	10	6(5)	M8 × 14(n.8)	45°	45°
63/71	100	144	25(28)	174	67	158	112	72	63	50	103	95	80	53	8.5	110	80	102	8	36	50	85	82	99	112	10	11	10	6(5)	M8 × 14(n.8)	45°	45°
75/71	120	172	28(35)	205	72	176	120	86	75	50	112	115	95	57	11	140	93	119	10	40	60	90	111	-	-	13	-	-	6	M8 × 14(n.8)	45°	45°
75/80	120	172	28(35)	205	72	186	120	86	75	63	112	115	95	57	11	140	93	119	10	40	60	90	111	-	-	13	-	-	6	M8 × 14(n.8)	45°	45°
90/71	140	208	35(38)	238	74	193	140	103	90	50	130	130	110	67	13	160	102	135	11	45	70	100	111	-	-	13	-	-	6	M10 × 18(n.8)	45°	45°
90/80	140	208	35(38)	238	74	203	140	103	90	63	130	130	110	67	13	160	102	135	11	45	70	100	111	-	-	13	-	-	6	M10 × 18(n.8)	45°	45°
110/80(90)	170	252.5	42	295	-	233	155	127.5	110	63	144	165	130	74	14	200	125	167.5	14	50	85	115	131	-	-	15	-	-	6	M10 × 18(n.8)	45°	45°
130/80(90)	200	292.5	45	335	-	253	170	147.5	130	63	155	215	180	81	16	250	140	187.5	15	60	100	120	140	-	-	15	-	-	6	M12 × 21(n.8)	45°	45°

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

FCNUD (无级 - 蜗轮组合) 系列外形及安装尺寸 FCNUD (worm-variator) series installaiton dimensions



型号 Size	a	a ₁	A	K	KC			KE	KM			KN(HB)			KO			M	N _(n,8)	N ₁	O	O ₁	S	V	b	D(H7)	t	T
					F	FB	FL		F	FB	FL	F	FB	FL														
40/0.18	45°	45°	70	60	4	5	4	M6 × 8(n,4)	87	115	87	60	95	60	9(n,4)	9.5(n,4)	9(n,4)	75	60	36.5	6.5	55	6.5	35	6(6)	18(19)	20.8(21.8)	26
50/0.18	45°	45°	80	70	5	5	5	M8 × 10(n,4)	90	130	90	70	110	70	11(n,4)	9.5(n,4)	11(n,4)	85	70	43.5	8.5	64	7	40	8(8)	25(24)	28.3(27.3)	30
50/0.37	45°	45°	100	85	6	5	6	M8 × 14(n,8)	150	165	150	115	130	115	11(n,4)	11(n,4)	11(n,4)	95	80	53	8.5	80	8	50	8(8)	25(28)	28.3(31.3)	36
63/0.37																												
63/0.55																												
63/0.75																												
75/0.37																												
75/0.55	45°	45°	120	90	6	-	-	M8 × 14(n,8)	165	-	-	130	-	-	14(n,4)	-	-	115	95	57	11	93	10	60	8(10)	28(35)	31.3(38.3)	40
75/0.75																												
75/1.1																												
75/1.5																												
90/0.55																												
90/0.75	45°	45°	140	100	6	-	-	M10 × 18(n,8)	175	-	-	152	-	-	14(n,4)	-	-	130	110	67	13	102	11	70	10(10)	35(38)	38.3(41.3)	45
90/1.1																												
90/1.5																												
110/1.1																												
110/1.5																												
110/2.2	45°	45°	170	115	6	-	-	M10 × 18(n,8)	230	-	-	170	-	-	14(n,8)	-	-	165	130	74	14	125	14	85	12	42	45.3	50
110/3.0																												
110/4.0																												
130/1.5																												
130/2.2																												
130/3.0	45°	22.5	200	120	6	-	-	M12 × 21(n,8)	255	-	-	180	-	-	16(n,8)	-	-	215	180	81	16	140	15	100	14	45	48.8	60
130/4.0																												

续上表 continuous

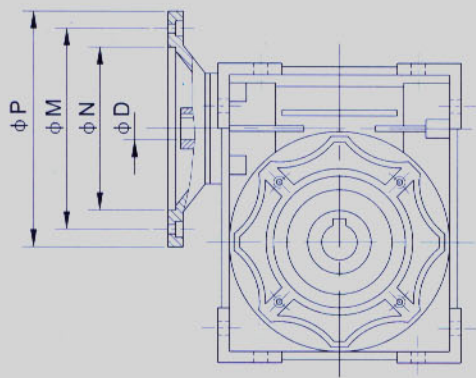
型号 Size	C	E	F	G	G ₁	G ₂	H	I	KA			KB			KP			KQ			L	P	R	VF	VL	VS	VR	VR
									F	FB	FL	F	FB	FL	F	FB	FL	F	FB	FL								
40/0.18	100	121.5	43	183	78	134	50	40	67	76.5	97	7	9	7	110	140	110	95	-	95	71	87	71.5	151	118	85	110	110
50/0.18	120	144	49	193	92	145	60	50	90	87.5	120	9	10	9	125	160	125	110	-	110	85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

电机外形尺寸 Motor size

机座号 Frame No.	63	71	80	90S	90L	100L	100L	112M
4P 电机功率 /KW Power	0.18	0.37	0.75	1.1	1.5	2.2	3.0	4.0
X	200	227	268	265	290	320	320	340
Y	120	141	160	195	195	215	215	240

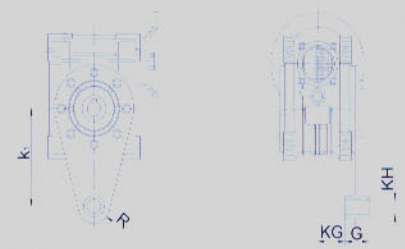
附属尺寸 Accessories dimensions

电机直联尺寸(D)
Motor Mounting Facility



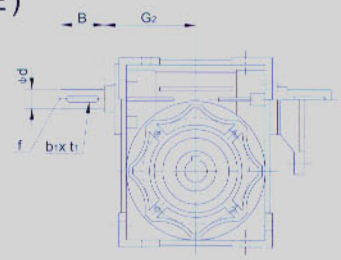
型号 Size	PAM IEC	N	M	P	7.5	10	15	20	25	30	40	50	60	80	100
					D										
25	56B14	50	65	80	9	9	9	9	-	9	9	9	9	-	-
30	63B5	95	115	140	11	11	11	11	11	11	11	11	-	-	-
	63B14	60	75	90	-	-	-	-	-	-	-	-	-	-	-
	56B5	80	100	120	9	9	9	9	9	9	9	9	9	9	-
40	56B14	50	65	80	-	-	-	-	-	-	-	-	-	-	-
	71B5	110	130	160	14	14	14	14	14	14	14	-	-	-	-
	71B14	70	85	105	-	-	-	-	-	-	-	-	-	-	-
	63B5	95	115	140	11	11	11	11	11	11	11	11	11	11	11
	63B14	60	75	90	-	-	-	-	-	-	-	-	-	-	-
50	56B5	80	100	120	-	-	-	-	-	-	-	9	9	9	9
	80B5	130	165	200	19	19	19	19	19	-	-	-	-	-	-
	80B14	80	100	120	-	-	-	-	-	-	-	-	-	-	-
	71B5	110	130	160	14	14	14	14	14	14	14	14	14	-	-
	71B14	70	85	105	-	-	-	-	-	-	-	-	-	-	-
63	63B5	95	115	140	-	-	-	-	-	11	11	11	11	11	11
	90B5	130	165	200	24	24	24	24	24	24	-	-	-	-	-
	90B14	95	115	140	-	-	-	-	-	-	-	-	-	-	-
	80B5	130	165	200	19	19	19	19	19	19	19	19	19	-	-
	80B14	80	100	120	-	-	-	-	-	-	-	-	-	-	-
75	71B5	110	130	160	-	-	-	-	-	14	14	14	14	14	14
	100/112B5	180	215	250	28	28	28	-	-	-	-	-	-	-	-
	100/112B14	110	130	160	-	-	-	-	-	-	-	-	-	-	-
	90B5	130	165	200	24	24	24	24	24	24	24	-	-	-	-
	90B14	95	115	140	-	-	-	-	-	-	-	-	-	-	-
90	80B5	130	165	200	-	-	-	-	-	19	19	19	19	19	19
	80B14	80	100	120	-	-	-	-	-	-	-	-	-	-	-
	71B5	110	130	160	-	-	-	-	-	14	14	14	14	14	14
	100/112B5	180	215	250	28	28	28	28	28	28	-	-	-	-	-
	100/112B14	110	130	160	-	-	-	-	-	-	-	-	-	-	-
110	90B5	130	165	200	24	24	24	24	24	24	24	24	24	24	24
	80B5	130	165	200	-	-	-	-	-	-	-	-	-	19	19
	132B5	230	265	300	38	38	38	38	38	38	38	-	-	-	-
	100/112B5	180	215	250	28	28	28	28	28	28	28	28	28	28	28
130	90B5	130	165	200	-	-	-	-	-	-	-	-	-	24	24
	160B5	250	300	350	42	42	42	42	42	42	42	42	42	42	42
	132B5	230	265	300	-	-	-	-	-	38	38	38	38	38	38
150	100/112B5	180	215	250	-	-	-	-	-	-	-	-	-	28	28
	132B5	230	265	300	-	-	-	-	-	38	38	38	38	38	38

扭力臂
Torque Arm



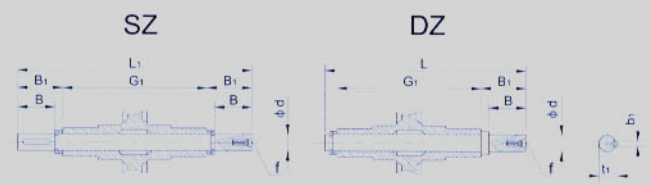
型号 Size	K	G	KG	KH	R
25	70	14	17.5	8	15
30	85	14	24	8	15
40	100	14	31.5	10	18
50	100	14	38.5	10	18
63	150	14	49	10	18
75	200	25	47.5	20	30
90	200	25	57.5	20	30
110	250	30	62	25	35
130	250	30	69	25	35
150	250	30	84	25	35

蜗杆同向输入轴尺寸(E)
Double Worm Shaft



型号 Size	G ₂	d (j6)	B	f	b ₁	t ₁
30	45	9	20	-	3	10.2
40	53	11	23	-	4	12.5
50	64	14	30	M6	5	16
63	75	19	40	M6	6	21.5
75	90	24	50	M8	8	27
90	108	24	50	M8	8	27
110	135	28	60	M10	8	31
130	155	30	80	M10	8	33
150	175	35	80	M12	10	38

单向(DZ)、双向(SZ) 输出轴尺寸
Sizes of Single(DZ) & Double(SZ) Output shaft



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

单级 FCN 系列性能参数 Performance parameter of Single FCN series

入功率 input	型号 Size	i	n_2 (r/min)	M_2 (N·m)
0.06kw 4P $n_1=1400r/min$	25	7.5	186.7	2.6
	30	7.5	186.7	2.6
	25	10	140	3.4
	30	10	140	3.4
	25	15	93.3	4.9
	30	15	93.3	4.7
	25	20	70	6.1
	30	20	70	6
	30	25	56	7
	25	30	46.7	8.2
	30	30	46.7	8
	25	40	35	10.2
	30	40	35	9.7
	25	50	28	11
	30	50	28	11.3
	40	50	28	12.7
	25	60	23.3	11
	30	60	23.3	12.5
40	60	23.3	14.2	
30	80	17.5	12.5	
40	80	17.5	17	
40	100	14	19.2	
0.09kw 4P $n_1=1400r/min$	25	7.5	186.7	3.9
	30	7.5	186.7	3.9
	25	10	140	5.1
	30	10	140	5
	25	15	93.3	7.3
	30	15	93.3	7.1
	25	20	70	9.2
	30	20	70	9
	30	25	56	10.4
	25	30	46.7	12.3
	30	30	46.7	12
	25	40	35	13
	30	40	35	14.5
	30	50	28	16.9
	40	50	28	19
	30	60	23.3	16.9
	40	60	23.3	21.4
	40	80	17.5	25.5
40	100	14	28.9	
0.12kw 4P $n_1=1400r/min$	30	7.5	186.7	5.2
	40	7.5	186.7	5.3
	30	10	140	6.7
	40	10	140	7
	30	15	93.3	9.5
	40	15	93.3	10.1
	30	20	70	12
	40	20	70	12.8
	30	25	56	13.9
	40	25	56	15.3
	30	30	46.7	16
	40	30	46.7	17.2
	30	40	35	17
	40	40	35	21.3
	50	40	35	21.9
	40	50	28	25.4
	50	50	28	25.8
	40	60	23.3	28.5

入功率 input	型号 Size	i	n_2 (r/min)	M_2 (N·m)
0.12kw 4P $n_1=1400r/min$	50	60	23.3	29
	40	80	17.5	34.1
	50	80	17.5	34.7
	50	100	14	40.1
0.18kw 4P $n_1=1400r/min$	30	7.5	186.7	8
	40	7.5	186.7	8
	30	10	140	10
	40	10	140	10
	30	15	93.3	14
	40	15	93.3	15
	30	20	70	18
	40	20	70	19
	30	25	56	20
	40	25	56	23
	40	30	46.7	26
	50	40	35	32
	40	40	35	32
	40	50	28	38
	50	50	28	38
	50	60	23.3	34
	50	80	17.5	53
	50	100	14	55
0.25kw 4P $n_1=1400r/min$	40	7.5	186.7	11
	50	7.5	186.7	11
	40	10	140	14
	50	10	140	14
	40	15	93.3	20
	50	15	93.3	21
	40	20	70	26
	50	20	70	26
	40	25	56	31
	50	25	56	32
	40	30	46.7	36
	50	30	46.7	36
	40	40	35	44
	50	40	35	45
	50	50	28	53
	50	60	23.3	60
	50	80	17.5	65
	63	80	17.5	77
63	100	14	85	
0.37kw 4P $n_1=1400r/min$	40	7.5	186.7	16
	50	7.5	186.7	16
	40	10	140	21
	50	10	140	21
	40	15	93.3	30
	50	15	93.3	31
	40	20	70	39
	50	20	70	39
	50	25	56	47
	50	30	46.7	54
	50	40	35	66
	63	40	35	70
	50	50	28	73
	63	50	28	83
	63	60	23.3	95
	63	80	17.5	114
	63	100	14	118

单级 FCN 系列性能参数 Performance parameter of Single FCN Series

入功率 Input	型号 Size	l	n_2 (r/min)	M_2 (N·m)
0.55kw 4P $n_1=1400r/min$	40	7.5	186.7	24.5
	50	7.5	186.7	25
	40	10	140	32
	50	10	140	32
	50	15	93.3	46
	63	15	93.3	46
	50	20	70	59
	63	20	70	60
	63	25	56	72
	63	30	46.7	80
	63	40	35	104
	75	40	35	108
	63	50	28	123
	75	50	28	129
	75	60	23.3	146
	75	80	17.5	180
75	100	14	180	
0.75kw 4P $n_1=1400r/min$	50	7.5	186.7	34
	63	7.5	186.7	33
	50	10	140	44
	63	10	140	44
	50	15	93.3	63
	63	15	93.3	63
	63	20	70	82
	63	25	56	99
	63	30	46.7	109
	75	30	46.7	116
	63	40	35	143
	75	40	35	147
	75	50	28	176
	90	50	28	184
	75	60	23.3	200
	90	60	23.3	212
90	80	17.5	257	
90	100	14	270	
1.1kw 4P $n_1=1400r/min$	63	7.5	186.7	49
	75	7.5	186.7	49
	63	10	140	65
	75	10	140	66
	63	15	93.3	93
	75	15	93.3	95
	63	20	70	121
	75	20	70	122
	75	25	56	149
	75	30	46.7	170
	75	40	35	216
	90	40	35	225
	90	50	28	271
	90	60	23.3	311
	110	60	23.3	324
	110	80	17.5	410
110	100	14	460	
1.5kw 4P $n_1=1400r/min$	75	7.5	186.7	67
	75	10	140	90
	75	15	93.3	130
	75	20	70	167
	75	25	56	200
	90	25	56	209
	75	30	46.7	230
	90	30	46.7	236
	90	40	35	306
	90	50	28	369
	110	50	28	375
	110	60	23.3	442
	110	80	17.5	490
	130	80	17.5	547
	130	100	14	652
	2.2kw 4P $n_1=1400r/min$	90	7.5	186.7
110		7.5	186.7	101
90		10	140	133
110		15	140	133

入功率 Input	型号 Size	l	n_2 (r/min)	M_2 (N·m)	
2.2kw 4P $n_1=1400r/min$	90	15	93.3	193	
	110	15	93.3	193	
	90	20	70	251	
	110	20	70	256	
	90	25	56	307	
	110	25	56	316	
	90	30	46.7	346	
	110	30	46.7	355	
	110	40	35	462	
	150	50	28	570	
	130	60	23.3	650	
	150	60	23.3	657	
	130	80	17.5	803	
	150	80	17.5	816	
	150	100	14	960	
	3kw 4P $n_1=1400r/min$	110	7.5	186.7	138
110		10	140	182	
110		15	93.3	263	
110		20	70	348	
110		25	56	430	
110		30	46.7	484	
110		40	35	631	
130		40	35	638	
130		50	28	767	
150		50	28	778	
130		60	23.3	884	
150		60	23.3	896	
150		80	17.5	1110	
110		7.5	186.7	184	
130		7.5	186.7	186	
4kw 4P $n_1=1400r/min$		110	10	140	243
	130	10	140	243	
	110	15	93.3	352	
	130	15	93.3	357	
	110	20	70	464	
	130	20	70	466	
	110	25	56	573	
	130	25	56	573	
	110	30	46.7	646	
	130	30	46.7	655	
	130	40	35	850	
	130	50	28	1023	
	150	50	28	1037	
	150	60	23.3	1195	
	5.5kw 4P $n_1=1400r/min$	110	7.5	186.7	253
		130	7.5	186.7	256
110		10	140	334	
130		10	140	334	
110		15	93.3	484	
130		15	93.3	490	
130		20	70	645	
150		20	70	645	
130		25	56	788	
150		25	56	788	
130		30	46.7	900	
150		30	46.7	934	
150		40	35	1171	
110		7.5	186.7	345	
130		7.5	186.7	349	
7.5kw 4P $n_1=1400r/min$		110	10	140	455
	130	10	140	455	
	130	15	93.3	667	
	150	20	70	880	
	150	25	56	1074	
	11kw 4P $n_1=1400r/min$	150	7.5	186.7	512
		150	10	140	675
		150	15	93.3	990
150		20	70	1171	
15kw 4P $n_1=1400r/min$	150	7.5	186.7	698	
	150	10	140	921	

双级 FCEN (蜗轮 - 蜗轮) 系列性能参数 ($n_1=1400r/m$)
 Performance parameter of Double FCEN (worm-worm) Series

型号 Size	i	$n_2(r/min)$	kW_1	$M_2(N \cdot m)$	i_1	i_2
25/30	100	14.0	0.09	30	10	10
	150	9.3	0.06	28	7.5	20
	200	7.0	0.06	28	10	20
	250	5.6	0.06	35	10	25
	300	4.7	0.06	31	10	30
	400	3.5	0.06	28	20	20
	500	2.8	0.06	34	20	25
	600	2.3	0.06	31	20	30
	750	1.9	0.06	34	30	25
	900	1.6	0.06	31	30	30
	1200	1.2	0.06	28	30	40
	1500	0.9	0.06	26	30	50
	1800	0.8	0.06	31	60	30
	2400	0.6	0.06	28	60	40
3000	0.5	0.06	26	60	50	
25/40	300	4.7	0.06	59	10	30
	400	3.5	0.06	63	10	40
	500	2.8	0.06	57	10	50
	600	2.3	0.06	65	15	40
	750	1.9	0.06	60	15	50
	900	1.6	0.06	73	30	30
	1200	1.2	0.06	65	30	40
	1500	0.9	0.06	60	30	50
	1800	0.8	0.06	56	30	60
	2400	0.6	0.06	56	40	60
3000	0.5	0.06	60	60	50	
30/40	300	4.7	0.09	70	10	30
	400	3.5	0.06	63	10	40
	500	2.8	0.06	57	20	25
	600	2.3	0.06	72	20	30
	750	1.9	0.06	72	25	30
	900	1.6	0.06	73	30	30
	1200	1.2	0.06	65	30	40
	1500	0.9	0.06	73	50	30
	1800	0.8	0.06	73	60	30
	2400	0.6	0.06	65	60	40
3200	0.4	0.06	65	80	40	
30/50	300	4.7	0.18	142	10	30
	400	3.5	0.12	127	10	40
	500	2.8	0.09	123	10	50
	600	2.3	0.09	143	20	30
	750	1.9	0.09	148	25	30
	900	1.6	0.06	141	30	30
	1200	1.2	0.06	118	30	40
	1500	0.9	0.06	139	50	30
	1800	0.8	0.06	155	60	30
	2400	0.6	0.06	124	60	40
3000	0.5	0.06	120	60	50	
30/63	300	4.7	0.22	210	7.5	40
	400	3.5	0.18	222	10	40
	500	2.8	0.18	205	10	50
	600	2.3	0.12	208	15	40
	750	1.9	0.12	216	15	50
	900	1.6	0.09	200	15	60
	1200	1.2	0.09	236	30	40
	1500	0.9	0.06	204	30	50
	1800	0.8	0.06	202	30	60
	2400	0.6	0.06	220	60	40
3000	0.5	0.06	223	60	50	

型号 Size	i	$n_2(r/min)$	kW_1	$M_2(N \cdot m)$	i_1	i_2	
40/75	300	4.7	0.37	405	10	30	
	400	3.5	0.25	336	10	40	
	500	2.8	0.25	307	10	50	
	600	2.3	0.18	362	20	30	
	750	1.9	0.18	391	25	30	
	900	1.6	0.12	325	30	30	
	1200	1.2	0.12	359	30	40	
	1500	0.9	0.09	360	50	30	
	1800	0.8	0.09	404	60	30	
	2400	0.6	0.06	330	60	40	
	3000	0.5	0.06	301	60	50	
	40/90	300	4.7	0.37	402	7.5	40
		400	3.5	0.37	523	10	40
		500	2.8	0.37	550	10	50
600		2.3	0.37	605	15	40	
750		1.9	0.25	538	15	50	
900		1.6	0.25	533	15	60	
1200		1.2	0.18	629	30	40	
1500		0.9	0.18	588	30	50	
1800		0.8	0.12	492	30	60	
2400		0.6	0.12	625	60	40	
3000	0.5	0.09	548	60	50		
50/110	300	4.7	0.75	817	10	30	
	400	3.5	0.75	1013	10	40	
	500	2.8	0.55	984	10	50	
	600	2.3	0.55	1062	15	40	
	750	1.9	0.55	1128	25	30	
	900	1.6	0.37	1079	30	30	
	1200	1.2	0.25	943	30	40	
	1500	0.9	0.25	1064	50	30	
	1800	0.8	0.25	1075	60	30	
	2400	0.6	0.18	1001	60	40	
3000	0.5	0.12	884	60	50		
63/130	300	4.7	1.50	1789	10	30	
	400	3.5	1.00	1519	10	40	
	500	2.8	1.00	1629	10	50	
	600	2.3	0.75	1631	15	40	
	750	1.9	0.75	1804	25	30	
	900	1.6	0.75	1826	30	30	
	1200	1.2	0.55	1705	30	40	
	1500	0.9	0.37	1674	50	30	
	1800	0.8	0.37	1698	60	30	
	2400	0.6	0.25	1624	60	40	
3000	0.5	0.25	1548	60	50		
63/150	200	7	1.5	1317	10	20	
	250	5.6	1.5	1602	10	25	
	300	4.7	1.5	1860	10	30	
	400	3.5	1.5	2208	10	40	
	500	2.8	1.1	1893	20	25	
	600	2.3	1.1	2242	20	30	
	750	1.9	0.75	1783	25	30	
	900	1.6	0.75	1994	30	30	
	1200	1.2	0.75	2680	30	40	
	1500	0.9	0.75	2700	50	30	
	1800	0.8	0.37	1775	60	30	
	2400	0.6	0.37	2141	60	40	
	3000	0.5	0.25	1713	60	50	

双级 FCFN (蜗轮 - 齿轮) 系列性能参数($n_1=1400r/m$) Performance parameter of Double FCFN (worm-gear)Series

型号 Size	减速比 $i(i, x_i)$ Ratio	输入功率(kw) Input Power	输出Output			
			$n_2(r/min)$	$M_2(N.m)$		
40/63	75(3x25)	0.12	18.7	42		
		0.18		49		
	90(3x30)	0.12	15.6	45		
		0.18		61		
	120(3x40)	0.12	11.7	50		
		0.18		52		
	150(3x50)	0.12	9.3	7.8	46	
	180(3x60)			5.8	40	
240(3x80)	4.7			36		
300(3x100)						
50/	63	75(3x25)	0.18	18.7	62	
	71	79.3(3.17x25)	0.25	17.7	91	
	63	90(3x30)	0.18	15.6	69	
	71	95.1(3.17x30)	0.25	14.7	102	
	63	120(3x40)	0.18	11.7	85	
	71	126.8(3.17x40)	0.25	11	100	
	63	150(3x50)	0.12	9.3	66	
			0.18		89	
		180(3x60)	0.12	7.8	74	
			0.18		88	
0.12			78			
0.18			76			
300(3x100)	0.12	4.7	65			
	0.18					
63/	71	79.3(3.17x25)	0.25	17.7	94	
			0.37		139	
		95.1(3.17x30)	0.25		14.7	103
			0.37		153	
	126.8(3.17x40)	0.25	11	129		
		0.37		191		
	63	150(3x50)	0.18	9.3	101	
	71	158.5(3.17x50)	0.25	8.8	148	
			0.37		176	
	63	180(3x60)	0.18	7.8	115	
	71	190.2(3.17x60)	0.25	7.4	151	
	75/	80	240(3x80)	0.12	5.8	90
				0.18		136
		71	253.6(3.17x80)	0.25	5.5	139
			0.37	101		
63	300(3x100)	0.12	4.7	121		
71	317(3.17x100)	0.25	4.4	128		
75/	80	75(3x25)	0.55	18.7	201	
			0.75		247	
			0.92		269	
	71	79.3(3.17x25)	0.37	17.7	143	
					225	
	80	90(3x30)	0.55	15.6	307	
			0.75		300	
	71	95.1(3.17x30)	0.37	14.7	160	
					278	
		120(3x40)	0.55	11.7	198	
			0.75		260	
		126.8(3.17x40)	0.37	11	156	
			0.55		231	
	71	158.5(3.17x50)	0.25	8.8	156	
		0.37		231		

型号 Size	减速比 $i(i, x_i)$ Ratio	输入功率(kw) Input Power	输出Output		
			$n_2(r/min)$	$M_2(N.m)$	
75/71	190.2(3.17x60)	0.25	7.4	178	
		0.37		236	
	253.6(3.17x80)	0.25	5.5	208	
		0.37	4.4	214	
90/	90(3x30)	0.55	15.6	235	
		0.75		320	
	120(3x40)	0.55	11.7	291	
		0.75		397	
	150(3x50)	0.55	9.3	347	
		0.75		426	
	180(3x60)	0.55	7.8	390	
		0.75		425	
	71	190.2(3.17x60)	0.37	7.4	278
	80	240(3x80)	0.55	5.8	374
71	253.6(3.17x80)	0.37	5.5	332	
		0.37		4.4	345
110/	90	72.6(2.42x30)	1.1	19.3	384
			1.5		524
			1.8		629
	80	75(3x25)	0.75	18.7	293
			1.1		498
	90	96.8(2.42x40)	1.5	14.5	679
			1.8		815
	80	120(3x40)	0.75	11.7	421
	90	121(2.42x50)	1.1	11.6	587
			1.5		801
			1.8		768
		145.2(2.42x60)	1.1	9.6	673
			1.5		733
			1.8		496
80	150(3x50)	0.75	9.3	496	
		1.1		417	
90	180(3x60)	0.55	7.8	569	
		0.75		648	
80	193.6(2.42x80)	1.1	7.2	648	
		1.5		503	
	240(3x80)	0.75	5.8	617	
		0.55		585	
130/	90	72.6(2.42x30)	1.1	19.3	390
			1.5		531
			1.8		638
	96.8(2.42x40)	1.1	14.5	498	
		1.5		679	
		1.8		815	
	121(2.42x50)	1.1	11.6	596	
		1.5		813	
		1.8		976	
	145.2(2.42x60)	1.1	9.6	673	
		1.5		917	
		1.8		1101	
	193.6(2.42x80)	1.1	7.2	826	
		1.5		1013	
80	240(3x80)	0.75	5.8	698	
90	242(2.42x100)	1.1	5.8	848	
80	300(3x100)	0.55	4.7	585	
		0.75		797	

FCNUD (蜗轮 - 无级组合) 系列性能参数 Performance parameter of FCNUD (worm-variator) series

输入 Input	型号 Size	减速比 Ratio	输出 Output		
			n_2 (r/min)	M_2 (N.m)	
$P_1=0.18\text{kw}$ 4p $n_1=1400\text{r/min}$	40/0.18	7.5	117-22.7	9-18	
	40/0.18	10	88-17	12-23	
	40/0.18	15	58.7-11.3	17-32	
	40/0.18	20	44-8.5	22-40	
	40/0.18	25	35.2-6.8	27-47	
	40/0.18	30	29.3-5.7	30-51	
	40/0.18	40	22-4.3	37-62	
	50/0.18	40	22-4.3	38-63	
	50/0.18	50	17.6-3.4	43-60	
	50/0.18	50	17.6-3.4	44-73	
	50/0.18	60	14.7-2.8	50-80	
	50/0.18	80	11-2.1	59-82	
	50/0.18	100	8.8-1.7	66-79	
	50/0.37	7.5	133-26.7	19-36	
$P_1=0.37\text{kw}$ 4p $n_1=1400\text{r/min}$	50/0.37	10	100-20	25-47	
	50/0.37	15	66.7-13.3	36-65	
	50/0.37	20	50-10	46-82	
	50/0.37	25	40-8	55-97	
	50/0.37	30	33.3-6.7	61-107	
	50/0.37	40	25-5	76-124	
	63/0.37	40	25-5	79-134	
	50/0.37	50	20-4	89-120	
	63/0.37	50	20-4	92-155	
	63/0.37	60	16.7-3.3	104-173	
	63/0.37	80	12.5-2.5	125-173	
	63/0.37	100	10-2	139-150	
	63/0.55	7.5	133-26.7	26-49	
	63/0.55	10	100-20	34-63	
$P_1=0.55\text{kw}$ 4p $n_1=1400\text{r/min}$	63/0.55	15	66.7-13.3	48-88	
	63/0.55	20	50-10	62-112	
	63/0.55	25	40-8	75-133	
	63/0.55	30	33.3-6.7	81-146	
	63/0.55	40	25-5	105-179	
	63/0.55	50	20-4	123-207	
	75/0.55	50	20-4	129-216	
	75/0.55	60	16.7-3.3	146-242	
	75/0.55	80	12.5-2.5	176-250	
	90/0.55	80	12.5-2.5	189-309	
	90/0.55	100	10-2	218-350	
	$P_1=0.75\text{kw}$ 4p $n_1=1400\text{r/min}$	63/0.75	7.5	133-26.7	39-73
		63/0.75	10	100-20	51-94
		63/0.75	15	66.7-13.3	72-132
63/0.75		20	50-10	92-168	
63/0.75		25	40-8	112-199	
63/0.75		30	33.3-6.7	126-219	
63/0.75		40	25-5	156-232	
63/0.75		50	20-4	185-310	
75/0.75		50	20-4	192-320	
75/0.75		60	16.7-3.3	219-300	
90/0.75		60	16.7-3.3	230-389	
90/0.75		80	12.5-2.5	265-428	
110/0.75		80	12.5-2.5	302-503	
90/0.75		100	10-2	303-410	
110/0.75	100	10-2	348-575		
$P_1=1.1\text{kw}$ 4p $n_1=1400\text{r/min}$	75/1.1	7.5	133-26.7	59-111	
	75/1.1	10	100-20	77-144	
	90/1.1	10	100-20	78-146	
	75/1.1	15	66.7-13.3	110-203	
	90/1.1	15	66.7-13.3	113-208	
	75/1.1	20	50-10	142-258	
	90/1.1	20	50-10	146-266	
	75/1.1	25	40-8	172-308	
	90/1.1	25	40-8	177-320	
	75/1.1	30	33.3-6.7	195-340	
	90/1.1	30	33.3-6.7	202-356	
	75/1.1	40	25-5	245-360	
	90/1.1	40	25-5	256-442	

输入 Input	型号 Size	减速比 Ratio	输出 Output		
			n_2 (r/min)	M_2 (N.m)	
$P_1=1.1\text{kw}$ 4p $n_1=1400\text{r/min}$	90/1.1	50	20-4	304-517	
	110/1.1	50	20-4	320-550	
	110/1.1	60	16.7-3.3	368-625	
	130/1.1	60	16.7-3.3	373-623	
	110/1.1	80	12.5-2.5	455-754	
	130/1.1	80	12.5-2.5	460-749	
	110/1.1	100	10-2	522-710	
	130/1.1	100	10-2	531-868	
	75/1.5	7.5	133-26.7	78-148	
	90/1.5	7.5	133-26.7	77-150	
	75/1.5	10	100-20	102-192	
	90/1.5	10	100-20	104-195	
	75/1.5	15	66.7-13.3	147-270	
	90/1.5	15	66.7-13.3	150-277	
$P_1=1.5\text{kw}$ 4p $n_1=1400\text{r/min}$	75/1.5	20	50-10	190-344	
	90/1.5	20	50-10	194-355	
	75/1.5	25	40-8	229-330	
	90/1.5	25	40-8	236-427	
	75/1.5	30	33.3-6.7	260-390	
	90/1.5	30	33.3-6.7	270-474	
	75/1.5	40	25-5	327-360	
	90/1.5	40	25-5	341-589	
	90/1.5	50	20-4	406-560	
	110/1.5	50	20-4	426-733	
	110/1.5	60	16.7-3.3	490-833	
	130/1.5	60	16.7-3.3	498-831	
	130/1.5	80	12.5-2.5	614-999	
	130/1.5	100	10-2	696-1100	
$P_1=2.2\text{kw}$ 4p $n_1=1400\text{r/min}$	110/2.2	7.5	133-26.7	120-226	
	110/2.2	10	100-20	157-294	
	110/2.2	15	66.7-13.3	228-418	
	110/2.2	20	50-10	298-549	
	110/2.2	25	40-8	364-664	
	110/2.2	30	33.3-6.7	413-717	
	110/2.2	40	25-5	533-931	
	130/2.2	40	25-5	542-932	
	130/2.2	50	20-4	648-1097	
	130/2.2	60	16.7-3.3	746-1246	
	130/2.2	80	12.5-2.5	921-1499	
	130/2.2	100	10-2	1040-1100	
	$P_1=3.0\text{kw}$ 4p $n_1=1400\text{r/min}$	110/3.0	7.5	133-26.7	160-302
		130/3.0	7.5	133-26.7	160-301
110/3.0		10	100-20	210-392	
130/3.0		10	100-20	211-395	
110/3.0		15	66.7-13.3	304-558	
130/3.0		15	66.7-13.3	307-563	
110/3.0		20	50-10	398-732	
130/3.0		20	50-10	402-733	
110/3.0		25	40-8	485-885	
130/3.0		25	40-8	490-885	
110/3.0		30	33.3-6.7	547-956	
130/3.0		30	33.3-6.7	562-973	
110/3.0		40	25-5	711-1030	
130/3.0		40	25-5	720-1242	
$P_1=4.0\text{kw}$ 4p $n_1=1400\text{r/min}$	130/3.0	50	20-4	864-1463	
	110/4.0	7.5	133-26.7	213-402	
	130/4.0	7.5	133-26.7	214-401	
	110/4.0	10	100-20	279-523	
	130/4.0	10	100-20	281-527	
	110/4.0	15	66.7-13.3	405-744	
	130/4.0	15	66.7-13.3	410-751	
	110/4.0	20	50-10	530-975	
	130/4.0	20	50-10	536-978	
	110/4.0	25	40-8	647-1020	
	130/4.0	25	40-8	653-1180	
	130/4.0	30	33.3-6.7	749-1298	
	130/4.0	40	25-5	960-1650	

FCP 系列减速机 FCP Series Reducer

概述

FCP 系列减速机是我厂在原有产品 FCN 系列减速机的基础上，为适应客户需求而开发的新型减速机。它的外形更加小巧美观。

Summary

To fit the requirement of the customer. We have also developed a new generation worm gear speed reducer FCP based on our former product FCN.

型号及表示方法 Type & Expressions

FC(E) P D K O (30)/63 - 40 E F1 SZ 71B5



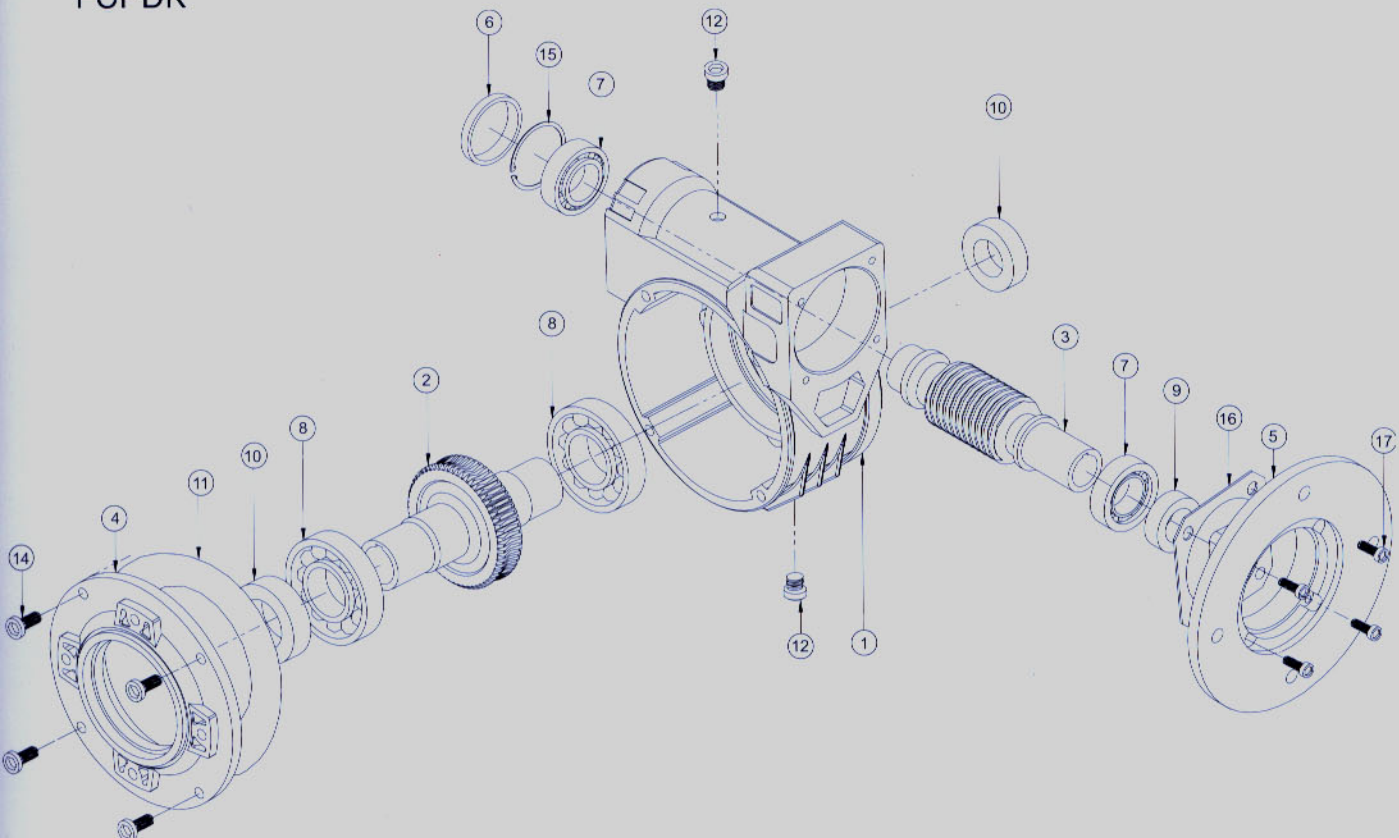
单级 FCP 系列 Single FCP Series

主要指标 Main specifications

中心距 Center distance(mm)						
30	45	50	63	63A	85	110

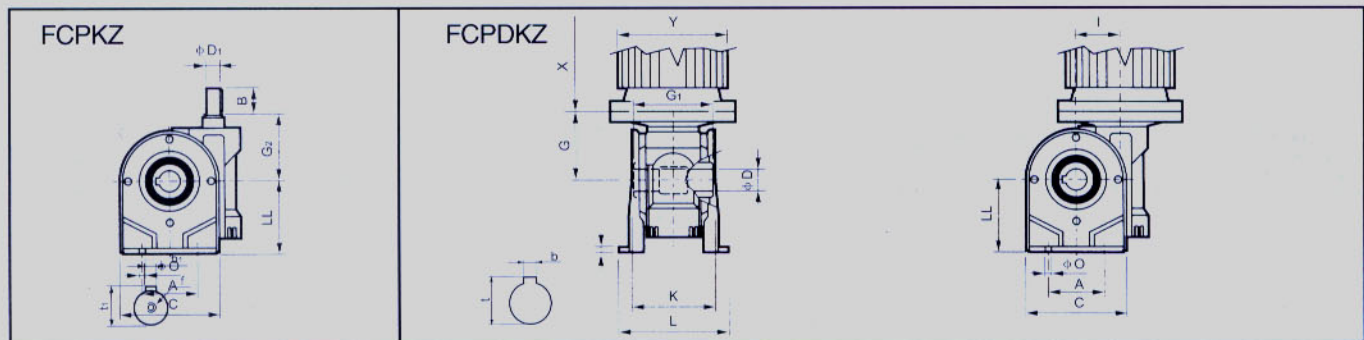
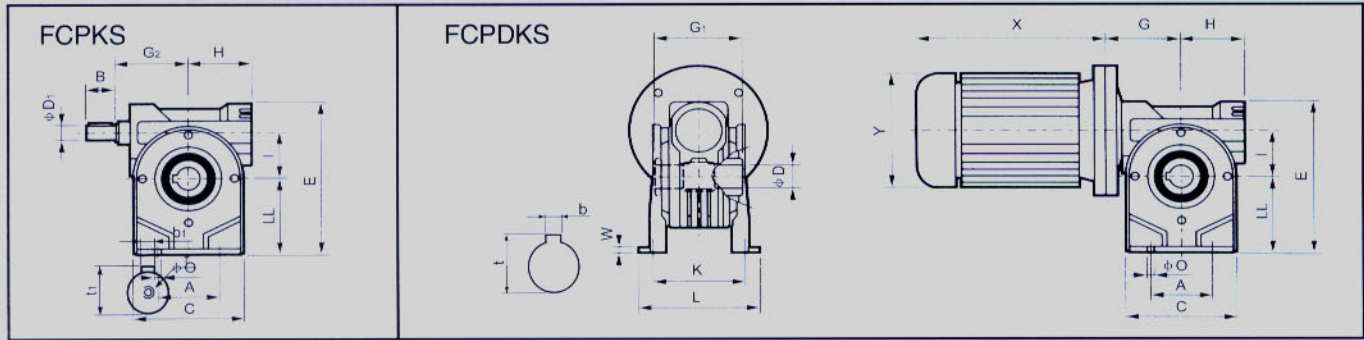
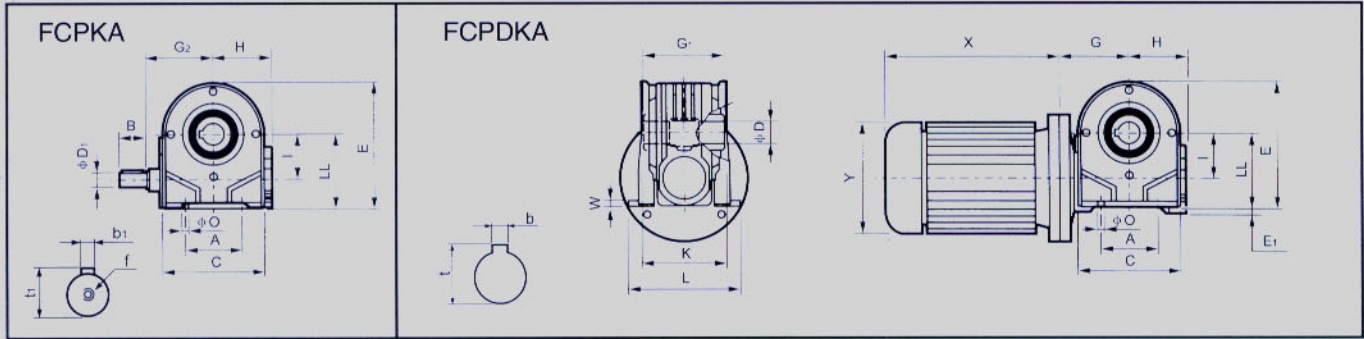
序号 No.	零件	Parts
1	箱体	Frame
2	蜗轮	Worm wheel
3	蜗杆	Worm shaft
5	法兰	Flange
6	密封端盖	Seal cover
7	轴承	Bearing
8	轴承	Bearing
9	油封	Oil seal
10	油封	Oil seal
11	密封垫	O-ring
12	螺塞	Oil Plug
13	平键	Key
14	内六角螺钉	Intl.hex screw
15	孔用挡圈	Snap Ring
16	密封垫	O-ring
17	内六角螺钉	Intl.hex screw

FCPDK



外形及安装尺寸 Installation dimensions

单级 FCP 系列 Single FCP Series



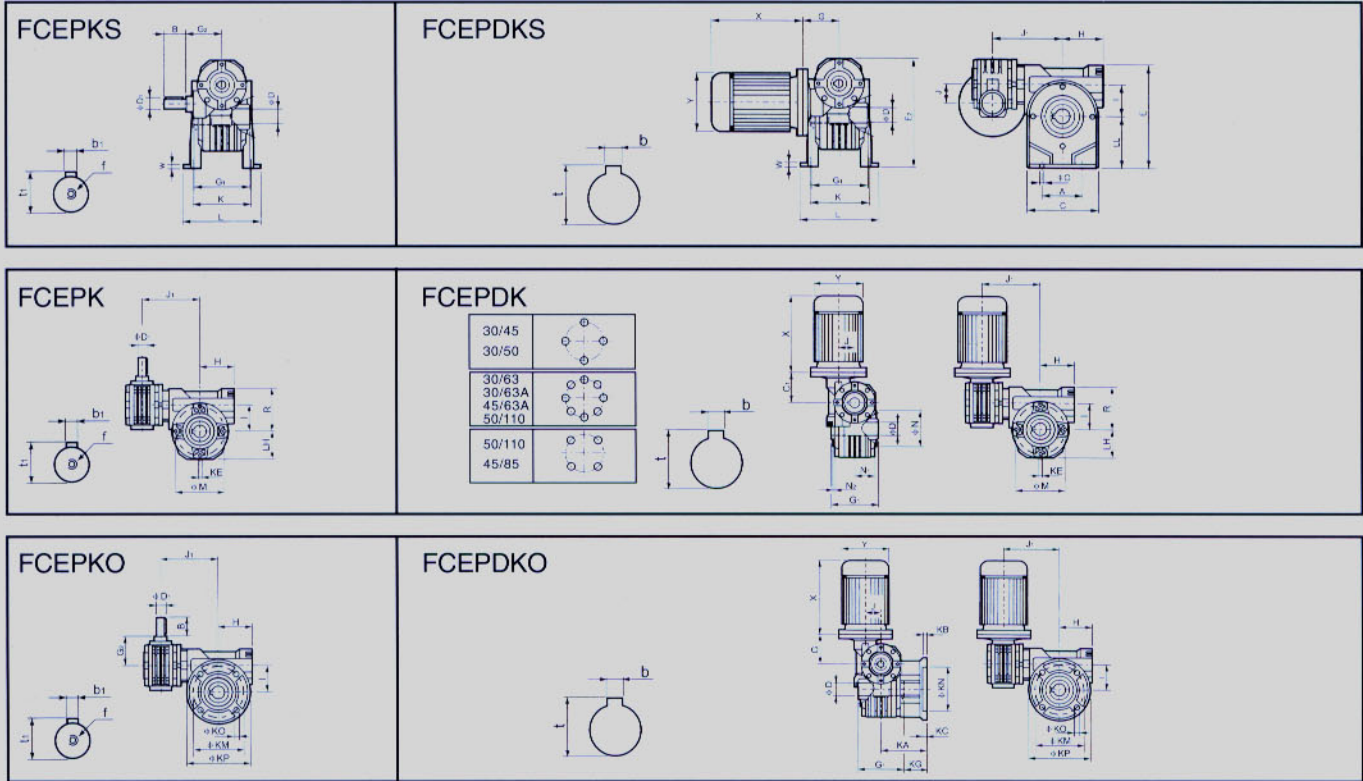
型号 Size	A		B		C		E		E1		E2		G		G1		G2		H		I		K		L		LL		O		W		输入轴 Input Shaft				出力孔 Output Hole				重量 kg weight
	S	T	S	T	S	T	S	T	S	T	S	T	S	T	S	T	S	T	S	T	S	T	S	T	S	T	S	T	S	T	S	T	S	T	S	T	S	T	S	T	
	50	52	70	78	90	106	103	1	94	91	62.5	55	58	46	30	65	66	66	87	55	52	6.5	3	9	3	10.2				14	5	16.3	1								
30	50	52	70	78	90	106	103	1	94	91	62.5	55	58	46	30	65	66	66	87	55	52	6.5	3	9	3	10.2				14	5	16.3	1								
45	50	52	70	78	90	106	103	1	94	91	62.5	55	58	46	30	65	66	66	87	55	52	6.5	3	9	3	10.2				14	5	16.3	1								
45	50	52	70	78	90	106	103	1	94	91	62.5	55	58	46	30	65	66	66	87	55	52	6.5	3	9	3	10.2				14	5	16.3	1								
50	63	65	85	30	113	110	163	166	138.5	139.5	81.5	81	74.5	65	50	96	100	96	123	114	82	85	10.5	10	3.5	10	16	14	5	18	16	M6	M5	25	24	8	28.3	27.3	3		
63	95	45	133	200	170	99.5	120	93	79	63	110	111	144	100	10.5	4	18	19	6	20.5	21.5	M6	M8	25	8	28.3	6														
63A	120	45	156	215	170	185	99.5	120	93	79	63	115	142	115	11	12	18	19	6	20.5	21.5	M6	M8	28	8	31.3	6														
85	140	50	180	280	236.5	124	135	112	98	85	145	182	142	10.5	5	25	24	8	28	27	M8		35	10	38.3	11															
110	200	56	240	340	342	266	268	148	155	138	125	110	180	160	224	190	170	172	13	14	22	18	25	28	8	28	31	M8	42	12	45.3	35									

注: 1) "S" 表示标准型尺寸, "T" 表示特殊型尺寸;
2) "重量(kg)" 表示不带电机法兰的重量。

Notes: 1) "S" means the standard type, "T" means the special type;
2) Weight without flange.

外形及安装尺寸 Installation dimensions

双级 FCEP(蜗轮-蜗轮) 系列 Double FCEP (worm-worm) Series



标准型 Standard Type

型号 Size	A	B	C	E	E ₁	G	G ₁	G ₂	H	I	J	J ₁	K	L	LH	LL	M	N	N ₁	N ₂	O	KE	R	W	输出法兰 Output Flange										输入轴 Input			出力孔 Output Hole		重量 kg
																									KA	KB	KC	KM	KN	KO	KP	D	b ₁	f	D	b	t			
30/45	50-52	20	98	144	141	62.5	65	58	55	45	30	105.5	80-81	100	49	72	65	50	35	2	10.5	4-M6 × 14	72	3	60.5	90.5	9	9	87	60	8.5	110	9	3	10.2	18	6	20.8	3.6	
30/50	63-65	20	113	163	171	62.5	81	58	65	50	30	110	98-100	123	54.5	82	94	68	38	3	10.5	4-M6 × 9	81	3.5	85	114.5	12	9	90	70	10.5	123	9	3	10.2	25	8	28.3	4.2	
30/63	95	20	133	200	202	62.5	120	58	79	63	30	141	110-111	144	70	100	90	75	45	5	10.5	8-M8 × 17	100	4	86	116	13	7	150	115	10.5	175	9	3	10.2	25	8	28.3	7.5	
30/63A	120	20	156	215	217	62.5	120	58	79	63	30	141	115	142	70	115	90	75	45	5	11	8-M8 × 17	100	12	85	111	13	7	165	130	13	200	9	3	10.2	28	8	31.3	7.5	
45/63	95	30	133	200	212	74	120	68	79	63	45	146	110-111	144	70	100	90	75	45	5	10.5	8-M8 × 17	100	4	86	116	13	7	150	115	10.5	175	11	4	12.5	25	8	28.3	8.9	
45/63A	120	30	156	215	227	74	120	68	79	63	45	146	115	142	70	115	90	75	45	5	11	8-M8 × 17	100	12	85	111	13	7	165	130	13	200	11	4	12.5	28	8	31.3	8.9	
45/85	140	30	180	280	276	74	135	68	98	85	45	171.7	145	182	94.5	142	130	110	64	3.5	10.5	4-M10 × 18	138	5	108	148.5	16	5	176	152	13	205	11	4	12.5	35	10	38.3	19.5	
50/110	200	30	240	340	335	81.5	155	74.5	125	110	50	218	180	224	120	170	165	130	74	3.5	13	8-M12 × 30	170	22	131.5	179.5	16.5	11	230	170	13	270	16	5	18	M6	42	12	45.3	38

特殊型 Special Type

型号 Size	A	C	E	K	L	LL	O	W	输出法兰 Output Flange																输入轴 Input			出力孔 Output		重量 kg												
									KA				KB				KC				KG				KM				KN				KO				KP					
									F1	F2	F3	F4	F1	F2	F3	F4	F1	F2	F3	F4	F1	F2	F3	F4	F1	F2	F3	F4	F1	F2	F3	F4	F1	F2	F3	F4	D ₁	Shaft b ₁	f	D	Hole b	t
30/45	70	90	143	84	100	71	8	8	83.5	60.5	51.5	11	9	8	4	9	3	41	19	19	115	87	100	95	60	80	9	8.5	9	140	110	120	9	3	10.2	19	6	21.8				
30/50	85	110	166	96	114	85	10	10	83.5	76.5	66.5	11	12	10	4	9	4	43	36	26	130	90	115	110	70	95	10	10.5	10	160	123	140	9	3	10.2	24	8	27.3				
30/63	95	133	200	110-111	144	100	10.5	4	102	116	82	13	13	11	7	7	5	42	56	22	165	150	130	130	115	110	13	11	10	200	175	160	9	3	10.2	25	8	28.3				
30/63A	120	156	215	115	142	115	11	12	111	116	84.5	13	13	13.5	7	7	5	51	56	24.5	165	150	130	130	115	110	13	11	11	200	175	160	9	3	10.2	28	8	31.3				
45/63	95	133	200	110-111	144	100	10.5	4	102	116	82	13	13	11	7	7	5	42	56	22	165	150	130	130	115	110	13	11	10	200	175	160	11	4	12.5	25	8	28.3				
45/63A	120	156	215	115	142	115	11	12	111	116	84.5	13	13	13.5	7	7	5	51	56	24.5	165	150	130	130	115	110	13	11	11	200	175	160	11	4	12.5	28	8	31.3				
45/85	140	180	280	145	182	142	10.5	5	117.5	147.5	13	15	13	15	5	9	5	50	80	39	165	180	165	130	152	130	115	12.5	13	200	205	200	11	4	12.5	35	10	38.3				
50/110	200	240	342	160	190	172	14	18	150	178	130	106.5	18	15	18	13	5	95	5	72.5	100.5	52.5	215	230	215	180	170	180	15	13	15	250	270	250	14	5	16	M5	42	12	45.3	

注: 1) 标准型尺寸中: "FC", "FL" 表示不同规格的法兰;

2) 特殊型尺寸中: "F1, F2, F3, F4" 表示不同规格的法兰;

3) "重量(kg)" 表示标准型不带法兰的重量.

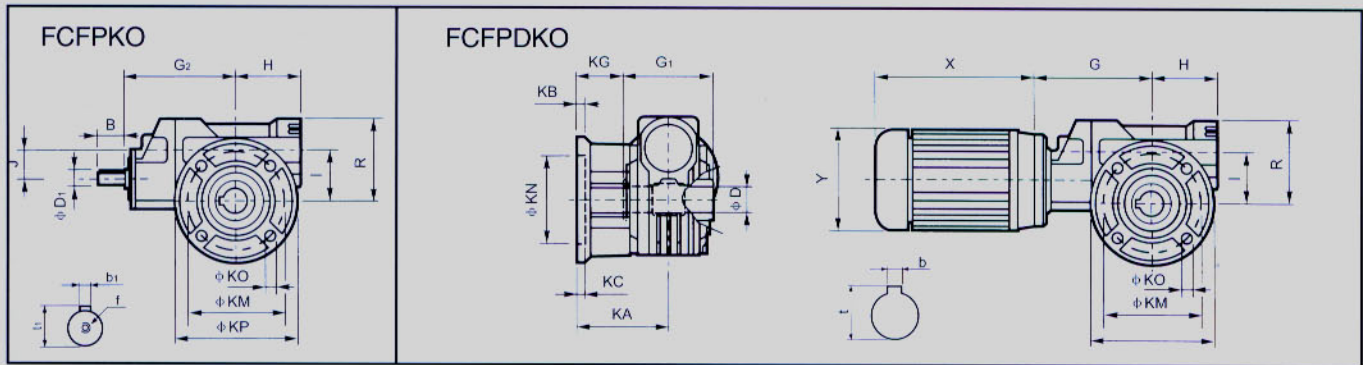
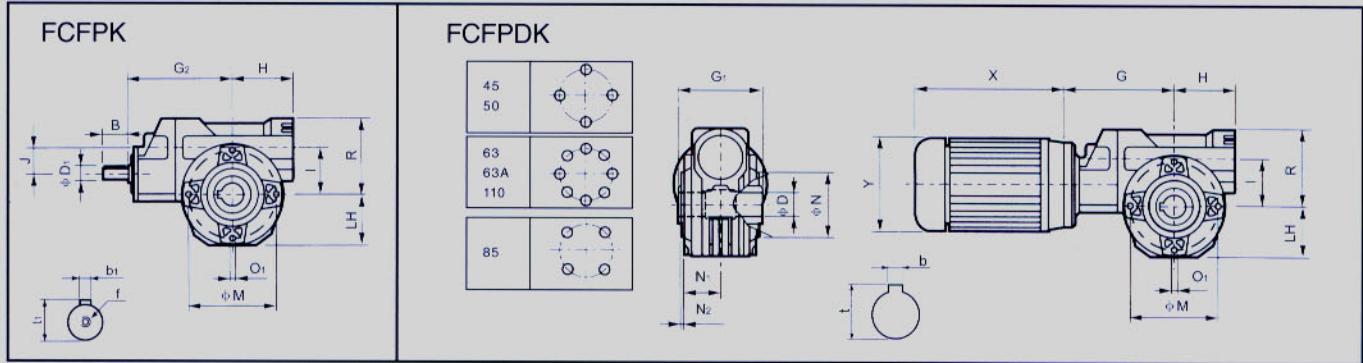
Notes: 1) Standard type: "FC", "FL" represent different types of flange;

2) Special type: "F1, F2, F3, F4" represent different types of flange;

3) Weight without flange.

外形及安装尺寸 Installation dimensions

双级 FCFP(蜗轮 - 齿轮)系列 Double FCFP (worm-gear)Series



标准型 Standard Type

型号 Size	B		G		G1		G2		H	I	J	LH	M	N	N1	N2	O1	R	输出法兰 Output Flange								输入轴 Input Shaft						出力孔 Output			重量 kg weight								
	P	M	P	M	P	M	KA												KB				KC				KM				KN				KO		KP		D	b	t			
	P	M	P	M	P	M	FC	FL											KB	KC	KM	KN	KO	KP	D1	b1	t1	f	M	P	M	P	M	M	M									
45	25	136	65	135	55	45	28	49	65	50	35	2	4-M6 × 14	72	60.5	90.5	9	9	87	60	8.5	110	14	5	16	M5	18	6	20.8	3.2														
50	25	141	81	135	65	50	28	54.5	94	68	38	3	4-M6 × 9	81	85	114.5	12	9	90	70	10.5	123	14	5	16	M5	25	8	28.3	3.8														
63	35	25	178.2	159.8	120	170	153.7	79	63	38	70	90	75	45	5	8-M8 × 17	100	86	116	13	7	150	115	10.5	175	19	14	6	5	21.5	16	M6	M5	25	8	28.3	7.8	7.3						
63A	35	25	178.2	159.8	120	170	153.7	79	63	38	70	90	75	45	5	8-M8 × 17	100	85	111	13	7	165	130	13	200	19	14	6	5	21.5	16	M6	M5	28	8	31.3	7.8	7.3						
85	35	196.5	135	187.5	98	85	38	94.5	130	110	64	3.5	4-M10 × 18	138	108	148.5	16	5	176	152	13	205	19	6	21.5	M6	35	10	38.3	19.3														
110	50	239	155	225	125	110	48	120	165	130	74	3.5	8-M12 × 30	170	131.5	179.5	16.5	11	230	170	13	270	24	8	27	M6	42	12	45.3	41														

特殊型 Special Type

型号 Size	输出法兰 Output Flange																								出力孔 Output Hole											
	KA				KB				KC				KG				KM				KN				KO				KP				D	b	t	
	F1	F2	F3	F4	F1	F2	F3	F4	F1	F2	F3	F4	F1	F2	F3	F4	F1	F2	F3	F4	F1	F2	F3	F4	F1	F2	F3	F4								
45	73.5	60.5	51.5		11	9	8		4	9	3		41	19	19		115	87	100		95	60	80		9	8.5	9		140	110	120		19	6	21.8	
50	83.5	76.5	66.5		11	12	10		4	9	4		43	36	26		130	90	115		110	70	95		10	10.5	10		160	123	140		24	8	27.3	
63	102	116	82		13	13	11		7	7	5		42	56	22		165	150	130		130	115	110		13	11	10		200	175	160		25	8	28.3	
63A	111	116	84.5		13	13	13.5		7	7	5		51	56	24.5		165	150	130		130	115	110		13	11	11		200	175	160		28	8	31.3	
85	117.5	147.5		106.5	13	15			13	5	9		5	50	80		39	165	180		165	130	152		130	11.5	12.5		13	200	205		200	35	10	38.3
110	150	178	130		18	15	18		5	9.5	5		72.5	100.5	52.5		215	230	215		180	170	180		15	13	15		250	270	250		42	12	45.3	

注: 1) "P" 表示速比为 1/29.9 - 1/111, "M" 表示速比为 1/139 - 1/434;

2) 标准型尺寸中: "FC"、"FL" 表示不同规格的法兰;

3) 特殊型尺寸中: "F1, F2, F3, F4" 表示不同规格的法兰;

4) "重量(kg)" 表示标准型不带法兰的重量。

Notes: 1) "P" means ratio range 1/29.9-1/111, "M" means ratio range 1/139-1/434;

2) Standard type: "FC", "FL" represent different types of flange;

3) Special type: "F1, F2, F3, F4" represent different types of flange;

4) Weight without flange.

附属尺寸 Accessories' dimensions

电机直联尺寸

Motor mounting facility dimensions

外形 Chart	电机功率 power (kW)	IEC Frame	B5、B14		B5		B14			
			D	N	M	P	N	M	P	
	0.06	56	9	80	100	120	50	65	80	
	0.09									
	0.12	63	11	90	115	140	60	75	90	
	0.18									
	0.25	71	14	110	130	160	70	85	105	
	0.37									
	0.55	80	19	130	165	200	80	100	120	
	0.75									
	1.1	90	24	130	165	200	95	115	140	
	1.5									
	1.8									
	2.2	100	28	180	215	250	110	130	160	
	3.0									
	4.0	112								
	5.5	132	38	230	265	300				
7.5										

扭力臂

Torque arm

外形 Chart	型号 Size			A	d	d ₀	D ₁	D ₂	D ₃	G	R	δ
	FCP	FCEP	FCFP									
	30			100	80	7	50	8	65	14	18	4
	45	30/45	45	100	90	7	50	8	65	14	18	4
	50	30/50	50	100	110	7	68	8	94	14	18	4
	63	30/63 45/63	63	150	110	9	75	10	90	20	30	6
	63A	30/63A 45/63A	63A	150	110	9	75	20	90	20	30	6
	85	45/85	85	200	160	11	110	20	130	25	40	6
	110	50/110	110	250	200	13	130	20	165	25	41	6

单向(DZ)、双向(SZ)输出轴尺寸

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

外形 Chart	型号 Size			d (h6)	B	B ₁	G ₁	L	L ₁	b ₁	t ₁
	FCP	FCEP	FCFP								
	30			14	25	35.5	55	95	126	5	16
	45	30/45	45	18	32	43	65	113	151	6	20.5
				(19)	(40)	(58.5)		(128.5)	(182)		(21.5)
	50	30/50	50	25	52	60	81	146	200	8	28
				(24)	(50)	(68.5)		(155)	(218)		(27)
	63	30/63 45/63	63	25	60	63	120	190	246.4	8	28
	63A	30/63A 45/63A	63A	28	60	63	120	191	247	8	31
85	45/85	85	35	60	73.5	135	214	282	10	38	
110	50/110	110	42	75	96.5	155	260	348	12	45	

蜗杆同向输入轴尺寸

Double Worm shaft

外形 Chart	型号 Size			d (h6)	B	G ₂
	FCP	FCEP	FCFP			
	30			9	20	47
	45	30/45	45	11	30	56
				9	20	47
	50	30/50	50	16	30	67
				9	20	47
	63	30/63 45/63	63	18	45	81
				9	20	47
	63A	30/63A 45/63A	63A	18	45	81
				11	30	56
	85	45/85	85	25	50	100
11				30	56	
110	50/110	110	25	60	127	
			16	30	67	

不带电机法兰型性能参数($n_1=1400r/min$)
 Performance parameter of type without flange
 单级 FCP 系列 Single FCP Series

型号 Size	减速比 i Ratio	输入功率(kw) InputPower	输出Output	
			n_2 (r/min)	M_2 (N · m)
30	7	0.42	200	16
	10.6	0.28	132	16
	15	0.24	93	18
	19	0.2	74	18
	30	0.16	47	20
	39	0.13	36	19
	61	0.09	23	19
	80	0.06	17.5	15
45	7	0.76	200	29
	10	0.54	140	29
	14	0.39	100	29
	21	0.41	67	39
	28	0.31	50	39
	37	0.25	38	39
	46	0.21	30	39
	60	0.17	23	39
	70	0.11	20	29
	102	0.08	13.7	28
50	7	1.4	200	54
	10	1.1	140	59
	14	0.86	100	65
	18	0.64	78	59
	26	0.52	54	63
	36	0.41	39	69
	43	0.34	33	65
	60	0.25	23	59
	68	0.21	21	55
	80	0.18	17.5	54
	100	0.14	14	49
63	7	3	200	119
	10	2.3	140	128
	15	1.6	93	131
	19	1.3	74	131
	24	1.1	58	135
	30	0.92	47	139
	36	0.84	39	140
	45	0.63	31	129
	67	0.43	21	118

型号 Size	减速比 i Ratio	输入功率(kw) InputPower	输出Output	
			n_2 (r/min)	M_2 (N · m)
63	80	0.36	17.5	113
	94	0.31	14	103
63A	7	3.9	200	155
	10	3	140	165
	15	2.1	93	169
	19	1.7	74	169
	24	1.4	58	176
	30	1.2	47	180
	36	1.1	39	181
	45	0.82	31	167
	67	0.55	21	151
	80	0.47	17.5	146
85	7	5.8	200	245
	10	4.9	140	270
	14	3.9	100	290
	20	2.6	70	280
	22	2.4	64	280
	28	2.3	50	330
	38	1.7	37	320
	46	1.4	30	310
	52	1.2	27	275
	67	0.93	21	275
110	7	10.9	200	460
	10	8.5	140	500
	16	5.7	88	510
	20	4.6	70	520
	23	3.9	61	490
	30	4	47	620
	38	3.2	37	610
	45	2.5	31	570
	53	2.3	26	590
	64	1.7	22	510

不带电机法兰型性能参数

Performance parameter of type without flange

双级 FCEP(蜗轮 - 蜗轮) 系列 Double FCEP (worm-worm) Series

型号 Size	减速比 i Ratio	输入功率(kw) Input Power	输出 Output	
			n_2 (r/min)	M_2 (N · m)
30/45	133	0.13	10.5	60
	190	0.1	7.4	60
	266	0.07	5.3	60
	399	0.06	3.5	60
	532	0.05	2.6	60
	703	0.04	2	60
	874	0.04	1.6	60
	1092	0.03	1.3	60
	1443	0.03	1	60
	1794	0.02	0.8	60
2340	0.02	0.6	60	
30/50	252	0.12	5.6	95
	382	0.09	3.7	95
	540	0.07	2.6	95
	684	0.06	2	95
	817	0.05	1.7	95
	1140	0.04	1.2	95
	1404	0.04	1	95
	1677	0.03	0.8	95
2340	0.03	0.6	90	
30/63	252	0.25	5.6	200
	382	0.19	3.7	200
	540	0.15	2.6	200
	684	0.12	2	200
	1080	0.09	1.3	200
	1404	0.08	1	200
	2745	0.05	0.5	200
30/63A	252	0.32	5.6	252
	382	0.24	3.7	252
	540	0.19	2.6	252
	684	0.16	2	252
	1080	0.11	1.3	252
	1404	0.1	1	252
	2745	0.05	0.5	210
45/63	252	0.29	5.6	230
	360	0.22	3.9	230
	504	0.17	2.8	230

型号 Size	减速比 i Ratio	输入功率(kw) Input Power	输出 Output	
			n_2 (r/min)	M_2 (N · m)
45/63	756	0.14	1.9	230
	1008	0.11	1.4	230
	1332	0.09	1.1	230
	1656	0.07	0.8	230
	2160	0.06	0.6	230
	2520	0.06	0.6	230
	2520	0.06	0.6	230
45/63A	252	0.34	5.6	264
	360	0.26	3.9	264
	504	0.2	2.8	264
	756	0.16	1.9	264
	1008	0.12	1.4	264
	1332	0.1	1.1	264
	1656	0.08	0.8	264
	2160	0.06	0.6	264
	2520	0.06	0.6	264
	2520	0.06	0.6	264
45/85	140	0.58	10	320
	196	0.46	7.1	320
	280	0.5	5	450
	392	0.39	3.6	450
	588	0.31	2.4	450
	784	0.25	1.8	450
	1036	0.2	1.4	450
	1288	0.17	1.1	450
	1960	0.12	0.7	450
	2856	0.09	0.5	450
50/110	210	0.96	6.7	750
	300	0.85	4.7	850
	420	0.62	3.3	850
	540	0.55	2.6	850
	780	0.42	1.8	850
	1080	0.31	1.3	850
	1290	0.28	1.1	850
	1800	0.24	0.8	850
	2040	0.21	0.7	850
	2400	0.19	0.6	850
3000	0.17	0.5	850	

不带电机法兰型性能参数($n_1=1400r/min$)
Performance parameter of type without flange

双级 FCFP(蜗轮 - 齿轮)系列 Double FCFP (worm-gear)Series

型号 Size	减速比 i Ratio	输入功率(kw) InputPower	输出Output	
			$n_2(r/min)$	$M_2(N \cdot m)$
45	30.1	0.33	47	50
	43	0.24	33	50
	60.2	0.2	23	50
	90.3	0.14	15.5	50
	120	0.11	11.6	50
	159	0.09	8.8	50
	198	0.08	7.1	50
	258	0.06	5.4	50
	301	0.04	4.7	35
	439	0.03	3.2	35
50	30.1	0.45	47	70
	43	0.32	33	70
	60.2	0.25	23	70
	77.4	0.25	18.1	80
	112	0.17	12.5	80
	155	0.14	9	80
	185	0.11	7.6	70
	258	0.08	5.4	70
	292	0.07	4.8	60
	344	0.04	4.1	40
430	0.04	3.3	40	
63	29.9	0.99	47	150
	37.7	0.8	37	150
	47.1	0.76	30	170
	56.6	0.69	25	170
	70.7	0.57	19.8	170
	87.8	0.39	15.9	170
	111	0.32	12.6	170
	139	0.27	10.1	170
	166	0.25	8.4	170
	208	0.18	6.7	170
	310	0.14	4.5	150
	370	0.12	3.8	150
	434	0.1	3.2	125
63A	29.9	1.09	47	165
	37.7	0.88	37	165

型号 Size	减速比 i Ratio	输入功率(kw) InputPower	输出Output		
			$n_2(r/min)$	$M_2(N \cdot m)$	
63A	47.1	0.83	30	187	
	56.6	0.76	25	187	
	70.7	0.64	19.8	187	
	87.8	0.46	15.9	198	
	111	0.37	12.6	198	
	139	0.32	10.1	198	
	166	0.29	8.4	198	
	208	0.23	6.7	176	
	310	0.16	4.5	176	
	370	0.15	3.8	176	
	434	0.1	3.2	130	
	85	59.7	1.39	23.5	380
		72.3	1.17	19.4	370
81.7		1.12	17.1	380	
105		0.81	13.3	350	
176		0.53	8	400	
213		0.43	6.6	370	
240		0.44	5.8	380	
328		0.32	4.3	380	
422		0.23	3.3	350	
466		0.21	3	300	
605		0.18	2.3	300	
110		42	3	33	650
		48	2.7	29	650
	63	2.3	22	680	
	80	2	17.5	730	
	94	1.4	14.9	600	
	125	1.1	11.2	650	
	164	0.92	8.5	680	
	207	0.83	6.8	730	
	245	0.58	5.7	600	
	289	0.55	4.8	600	
	349	0.41	4	540	
	458	0.32	3.1	500	
	540	0.29	2.6	500	

带电机法兰型性能参数 Performance parameter of type with flange

FCP、FCEP、FCFP 系列 Series

输入 Input	型号 Type			减速比 i Ratio	输出 Output	
	FCP	FCEP	FCFP		n_2 (r/min)	M_2 (N·m)
P ₁ =0.06kw 4p n ₁ =1400r/min	30			7	200	2
	30			10.6	132	3
	30			15	93	4
	30			19	74	5
	30			30	46.7	8
	30			39	35.9	9
	30			61	23	12
	30			80	17.5	16
		30/45		133	10.5	27
		30/45		190	7.4	37
		30/50		252	5.6	48
		30/45		266	5.3	49
		30/50		382	3.7	66
		30/45		399	3.5	59
		30/45		532	2.6	72
		30/63		540	2.6	82
		30/50		540	2.6	86
		30/63A		684	2	95
		30/63		684	2	95
		30/50		684	2	101
	30/50		817	1.7	107	
	30/63A		1080	1.3	133	
	30/63		1080	1.3	133	
	30/50		1140	1.2	126	
	30/63A		1404	1	155	
	30/63		1404	1	155	
	30/63A		2745	0.51	258	
	30/63		2745	0.51	258	
P ₁ =0.09kw 4p n ₁ =1400r/min	30			7	200	3
	30			10.6	132	5
	30			15	93	7
	30			19	74	8
	30			30	46.7	11
	30			39	35.9	14
	30			61	23	19
		30/45		133	10.5	41
		30/45		190	7.4	56
		30/50		252	5.6	73
		30/63		382	3.7	96
		30/50		382	3.7	98
		30/63A		540	2.6	123
		30/63		540	2.6	123
		30/63A		684	2	143
		30/63		684	2	143
		30/63A		1080	1.3	199
		30/63		1080	1.3	199
	30/63A		1404	1	233	
	30/63		1404	1	233	
P ₁ =0.12kw 4p n ₁ =1400r/min	30			7	200	5
				10	140	7
	30			10.6	132	7
	45			14	100	10

输入 Input	型号 Type			减速比 i Ratio	输出 Output	
	FCP	FCEP	FCFP		n_2 (r/min)	M_2 (N·m)
P ₁ =0.12kw 4p n ₁ =1400r/min	30			15	93	10
	30			19	74	12
	45			28	50	16
	30			30	46.7	16
			45	30.1	46.5	20
			50	30.1	46.5	20
	50			36	38.9	22
	45			37	37.8	21
	30			39	35.9	20
			45	43	32.6	27
			50	43	32.6	29
	50			43	32.6	25
	45			46	30.4	24
			45	60.2	23.3	32
	50			60	23.3	31
			50	60.2	23.3	37
	45			60	23.3	30
	50			68	20.6	34
	45			70	20	34
			50	77.4	18.1	42
	63			80	17.5	40
	50			80	17.5	38
			63	87.8	15.9	57
			45	90.3	15.5	46
	63A			94	14.9	43
	63			94	14.9	43
	50			100	14	44
			63	111	12.6	70
			63A	111	12.6	69
			50	112	12.5	61
		45	120	11.7	56	
	30/45		133	10.5	59	
		63	139	10.1	83	
		63A	139	10.1	81	
		50	155	9	77	
		63	166	8.4	90	
		63A	166	8.4	88	
		50	185	7.6	80	
	45/85		196	7.1	90	
		63A	208	6.7	101	
		63	208	6.7	109	
	45/63A		252	5.6	103	
	30/63A		252	5.6	103	
	45/63		252	5.6	103	
	30/63		252	5.6	103	
	30/50		252	5.6	105	
		63	310	4.5	140	
		63A	310	4.5	140	
		85	328	4.3	154	
	45/63		360	3.9	134	
	45/63A		360	3.9	134	
		63A	370	3.8	154	

带电机法兰型性能参数

Performance parameter of type with flange

FCP、FCEP、FCFP 系列 Series

输入 Input	型号 Type			减速比 i Ratio	输出 Output	
	FCP	FCEP	FCFP		n_2 (r/min)	M_2 (N·m)
$P_i=0.12\text{kw}$ 4p $n_1=1400\text{r/min}$			63	370	3.8	157
		30/63A		382	3.7	139
		30/63		382	3.7	139
		45/85		392	3.6	153
			85	422	3.3	195
			85	433	3.2	173
			63A	434	3.2	162
			63	434	3.2	162
		45/63A		504	2.8	174
		45/63		504	2.8	174
		30/63		540	2.6	177
		30/63A		540	2.6	177
		45/85		588	2.4	193
			85	605	2.3	215
		30/63A		684	2	206
		30/63		684	2	206
		45/63A		756	1.9	221
		45/63		756	1.9	221
		45/85		784	1.8	236
		45/63A		1008	1.4	277
		45/63		1008	1.4	277
		45/85		1036	1.4	303
		50/110		1080	1.3	354
		30/63A		1080	1.3	287
		45/85		1288	1.1	343
		50/110		1290	1.1	400
		50/110		1800	0.78	479
		45/85		1960	0.71	487
	50/110		2040	0.69	543	
	50/110		2400	0.58	596	
	50/110		3000	0.47	693	
$P_i=0.18\text{kw}$ 4p $n_1=1400\text{r/min}$	45			7	200	7
	30			7	200	7
	45			10	140	10
	30			10.6	132	10
	45			14	100	13
	30			15	93	13
	30			19	74	16
	45			21	67	17
	50			26	54	22
	45			28	50	22
	30			30	46.7	23
			50	30.1	46.5	28
			45	30.1	46.5	27
				36	38.9	30
				37	37.8	29
				43	32.6	35
			50	43	32.6	40
			45	43	32.6	38
	45			46	30.4	33
			50	60.2	23.3	51
	50			60	23.3	43

输入 Input	型号 Type			减速比 i Ratio	输出 Output	
	FCP	FCEP	FCFP		n_2 (r/min)	M_2 (N·m)
$P_i=0.18\text{kw}$ 4p $n_1=1400\text{r/min}$			45	60.2	23.3	44
	45			60	23.3	41
	63A			67	20.9	49
	63			67	20.9	49
	50			68	20.6	48
			50	77.4	18.1	58
	63A			80	17.5	56
	63			80	17.5	56
	50			80	17.5	53
			63A	87.8	15.9	78
			63	87.8	15.9	79
			45	90.3	15.5	63
	63A			94	14.9	60
	63			94	14.9	60
	50			100	14	61
			63A	111	12.6	95
			63	111	12.6	97
			50	112	12.5	84
			63A	139	10.1	113
			63	139	10.1	114
			50	155	9	107
			63A	166	8.4	122
			63	166	8.4	124
			85	176	8	136
			45/85	196	7.1	125
			63A	208	6.7	140
			63	208	6.7	151
			85	213	6.6	157
			85	240	5.8	156
			45/63A	252	5.6	142
			30/63A	252	5.6	142
			45/63	252	5.6	142
			30/63	252	5.6	142
			45/85	280	5	162
			63A	310	4.5	194
			63	310	4.5	194
			85	328	4.3	213
			45/63A	360	3.9	186
			45/63	360	3.9	186
			63A	370	3.8	214
			30/63A	382	3.7	192
			30/63	382	3.7	192
		45/85	392	3.6	212	
		85	422	3.3	269	
		85	466	3	257	
		45/63A	504	2.8	241	
		45/63	504	2.8	241	
		30/63A	540	2.6	245	
		30/63	540	2.6	245	
		45/85	588	2.4	267	
		85	605	2.3	297	
		30/63A	684	2	286	

带电机法兰型性能参数

Performance parameter of type with flange

FCP、FCEP、FCFP 系列 Series

输入 Input	型号 Type			减速比 i Ratio	输出 Output	
	FCP	FCEP	FCFP		n_2 (r/min)	M_2 (N·m)
$P_1=0.18\text{kw}$ 4p $n_1=1400\text{r/min}$		45/63A		756	1.9	306
		45/63		756	1.9	306
		50/110		780	1.8	364
		45/85		784	1.8	327
		45/85		1036	1.4	420
		50/110		1080	1.3	491
		45/85		1288	1.1	474
		50/110		1290	1.1	554
		50/110		1800	0.78	663
		50/110		2040	0.69	751
		50/110		2400	0.58	825
		50/110		3000	0.47	958
$P_1=0.25\text{kw}$ 4p $n_1=1400\text{r/min}$	45			7	200	10
	45			10	140	13
	50			14	100	19
	45			14	100	18
	50			18	78	23
	45			21	67	24
	50			26	54	31
	45			28	50	31
			50	30.1	46.5	39
			45	30.1	46.5	38
		50		36	38.9	42
	45			37	37.8	40
			50	43	32.6	55
		50		43	32.6	48
			45	43	32.6	53
		63		45	31.1	51
	45			46	30.4	46
			63A	55.8	25.1	61
			63	55.8	25.1	61
			50	60.2	23.3	71
		50		60	23.3	59
		63A		67	20.9	69
		63		67	20.9	69
		50		68	20.6	66
			63A	70.7	19.8	74
			63	70.7	19.8	75
		63A		80	17.5	78
		63		80	17.5	78
			63A	87.8	15.9	108
			63	87.8	15.9	109
			50	77.4	18.1	81
		63A		94	14.9	83
	63		94	14.9	83	
	85		96	14.6	87	
		63A	111	12.6	133	
		63	111	12.6	134	
		63A	139	10.1	156	
		63	139	10.1	159	
		45/85	140	10	138	
		63A	166	8.4	170	

输入 Input	型号 Type			减速比 i Ratio	输出 Output	
	FCP	FCEP	FCFP		n_2 (r/min)	M_2 (N·m)
$P_1=0.25\text{kw}$ 4p $n_1=1400\text{r/min}$			63	166	8.4	173
			85	176	8	189
		45/85		196	7.1	174
			63A	208	6.7	195
			85	213	6.6	218
			85	240	5.8	217
			110	245	5.7	259
		45/63A		252	5.6	198
		45/63		252	5.6	198
		45/85		280	5	224
			110	289	4.8	271
			85	328	4.3	296
			110	349	4	327
		45/63A		360	3.9	258
		45/63		360	3.9	258
		45/85		392	3.6	294
		50/110		420	3.3	337
			85	422	3.3	374
			110	458	3.1	398
			85	466	3	358
		45/63A		504	2.8	335
		50/110		540	2.6	387
			110	540	2.6	433
		45/85		588	2.4	371
	50/110		780	1.8	505	
	45/85		784	1.8	455	
	45/85		1036	1.4	583	
	50/110		1080	1.3	681	
	50/110		1290	1.1	770	
	50/110		1800	0.78	921	
	50/110		2040	0.69	1044	
$P_1=0.37\text{kw}$ 4p $n_1=1400\text{r/min}$	50			7	200	14
	45			7	200	14
	50			10	140	20
	45			10	140	20
	50			14	100	28
	45			14	100	27
	63			15	93	30
	50			18	78	34
	45			21	67	36
	50			26	54	45
	45			28	50	46
			63A	29.5	47.5	55
			63	29.5	47.5	55
		63		30	46.7	56
			50	30.1	46.5	58
			45	30.1	46.5	56
		63A		36	38.9	62
		63		36	38.9	62
			63A	37.7	37.1	69
			63	37.7	37.1	69
			50	43	32.6	81

带电机法兰型性能参数

Performance parameter of type with flange

FCP、FCEP、FCFP 系列 Series

输入 Input	型号 Type			减速比 i Ratio	输出 Output	
	FCP	FCEP	FCFP		n_2 (r/min)	M_2 (N.m)
$P_1=0.37kw$ 4p $n_1=1400r/min$	63A			45	31.1	75
	63			45	31.1	75
			63A	47.1	29.7	83
			63	47.1	29.7	83
			63A	56.6	24.7	91
			63	56.6	24.7	91
	85			67	20.9	110
	63A			67	20.9	101
	63			67	20.9	101
			63A	70.7	19.8	109
			63	70.7	19.8	111
	85			74	18.9	108
	63A			80	17.5	115
	63			80	17.5	115
			85	81.7	17.1	126
			63A	87.8	15.9	160
			63	87.8	15.9	162
	63A			94	14.9	123
	63			94	14.9	123
	85			96	14.6	128
			85	105	13.3	159
			63A	111	12.6	196
			63	111	12.6	199
			110	125	11.2	224
			63A	139	10.1	232
		45/85		140	10	205
			110	164	8.5	273
			63A	166	8.4	251
			85	176	8	280
		45/85		196	7.1	257
			110	207	6.8	329
		50/110		210	6.7	292
			85	213	6.6	323
			110	245	5.7	383
		45/63A		252	5.6	293
		45/63		252	5.6	293
			85	256	5.5	342
		45/85		280	5	332
			110	289	4.8	401
		50/110		300	4.7	371
		85	328	4.3	439	
		110	349	4	484	
	45/85		392	3.6	435	
	50/110		420	3.3	498	
		110	458	3.1	590	
	50/110		540	2.6	572	
		110	540	2.6	641	
	45/85		588	2.4	549	
	50/110		780	1.8	748	
	50/110		1080	1.3	1009	
$P_1=0.55kw$ 4p $n_1=1400r/min$	50			7	200	22
	50			10	140	30
	50			14	100	41

输入 Input	型号 Type			减速比 i Ratio	输出 Output	
	FCP	FCEP	FCFP		n_2 (r/min)	M_2 (N.m)
$P_1=0.55kw$ 4p $n_1=1400r/min$	63			15	93	44
	50			18	78	51
	63A			19	74	56
	63			19	74	56
	63A			24	58	68
	63			24	58	68
	50			26	54	67
			63A	29.9	46.8	83
			63	29.9	46.8	83
	63A			30	46.7	83
	63			30	46.7	83
	63A			36	38.9	92
	63			36	38.9	92
			63A	37.7	37.1	103
			63	37.7	37.1	103
	63A			45	31.1	111
	63			45	31.1	111
	85			46	30.4	117
			63A	47.1	29.7	124
			63	47.1	29.7	124
	85			52	26.9	129
			63A	56.6	24.7	136
			63	56.6	24.7	136
			85	59.7	23.5	150
	110			64	21.9	166
	85			67	20.9	163
	63A			67	20.9	151
	63			67	20.9	151
			63A	70.7	19.8	162
			63	70.7	19.8	164
			85	72.3	19.4	174
	85			74	18.9	161
	63A			80	17.5	171
	85			81.7	17.1	187
	110			84	16.7	205
			63A	87.8	15.9	237
			110	94	14.9	233
	85			96	14.6	191
	110			99	14.1	233
			85	105	13.3	236
		110	125	11.2	333	
		110	164	8.5	406	
		85	176	8	416	
		110	207	6.8	489	
	50/110		210	6.7	433	
		85	213	6.6	479	
		110	245	5.7	570	
		110	289	4.8	596	
	50/110		300	4.7	552	
	50/110		420	3.3	741	
	50/110		540	2.6	851	
	50/110		780	1.8	1112	

带电机法兰型性能参数

Performance parameter of type with flange

FCP、FCEP、FCFP 系列 Series

输入 Input	型号 Type			减速比 i Ratio	输出 Output	
	FCP	FCEP	FCFP		n_2 (r/min)	M_2 (N.m)
P _i =0.75kw 4P n _i =1400r/min	63			7	200	30
	50			7	200	29
	63			10	140	41
	50			10	140	41
	50			14	100	57
	63A			15	93	61
	63			15	93	61
	50			18	78	69
	63A			19	74	76
	63			19	74	76
	85			22	64	88
	63A			24	58	92
	63			24	58	92
	85			28	50	107
			63A	29.9	46.8	113
			63	29.9	46.8	113
	63A			30	46.7	114
	63			30	46.7	114
	63A			36	38.9	125
	63			36	38.9	125
			63A	37.7	37.1	141
			63	37.7	37.1	141
	85			38	36.8	138
	63A			45	31.1	152
	63			45	31.1	152
	85			46	30.4	160
			63A	47.1	29.7	169
			63	47.1	29.7	169
	85			52	26.9	176
			63A	56.6	24.7	185
			63	56.6	24.7	185
			85	59.7	23.5	205
			110	63	22.2	222
	110			64	21.9	226
	85			67	20.9	223
			63A	70.7	19.8	221
			63	70.7	19.8	224
			85	72.3	19.4	237
	85			74	18.9	220
			110	80	17.5	270
		85	81.7	17.1	255	
110			84	16.7	279	
		110	94	14.9	317	
85			96	14.6	260	
110			99	14.1	304	
		85	105	13.3	322	
		110	125	11.2	454	
		110	164	8.5	554	
		110	207	6.8	667	
	50/110		210	6.7	591	
		110	245	5.7	777	
	50/110		300	4.7	752	
	50/110		420	3.3	1010	

输入 Input	型号 Type			减速比 i Ratio	输出 Output	
	FCP	FCEP	FCFP		n_2 (r/min)	M_2 (N.m)
P _i =1.1kw 4P n _i =1400r/min	63A			7	200	44
	63			7	200	44
	63A			10	140	61
	63			10	140	61
	85			14	100	82
	63A			15	93	89
	63			15	93	89
	63A			19	74	111
	63			19	74	111
	85			20	70	119
	85			22	64	129
	63A			24	58	135
	63			24	58	135
	85			28	50	158
			63A	29.9	46.8	166
			63	29.9	46.8	166
	63A			30	46.7	167
	63			30	46.7	167
	63A			36	38.9	184
	63			36	38.9	184
			63A	37.7	37.1	207
	110			38	36.8	214
	85			38	36.8	202
			110	42	33.3	240
	110			45	31.1	246
	85			46	30.4	235
			63A	47.1	29.7	247
			110	48	29.2	267
	85			52	26.9	258
	110			53	26.4	278
			85	59.7	23.5	300
			110	63	22.2	326
	110			64	21.9	331
	85			67	20.9	327
			85	72.3	19.4	347
	85			74	18.9	322
			110	80	17.5	396
			85	81.7	17.1	374
	110			84	16.7	410
			110	94	14.9	466
110			99	14.1	446	
		110	125	11.2	666	
		110	164	8.5	812	
85			7	200	63	
63A			7	200	59	
63			7	200	59	
85			10	140	82	
63A			10	140	83	
63			10	140	83	
85			14	100	112	
63A			15	93	121	
63			15	93	121	
63A			19	74	152	

带电机法兰型性能参数

Performance parameter of type with flange

FCP、FCEP、FCFP 系列 Series

输入 Input	型号 Type			减速比 i Ratio	输出 Output	
	FCP	FCEP	FCFP		n_2 (r/min)	M_2 (N.m)
$P_1=1.5kw$ 4p $n_1=1400r/min$	63			19	74	152
	110			20	70	168
	85			20	70	162
	85			22	64	176
	110			23	61	188
	63A			24	58	184
	85			28	50	215
	110			30	46.7	233
	63A			30	46.7	227
	110			38	36.8	292
	85			38	36.8	276
			110	42	33.3	327
	110			45	31.3	336
	85			46	30.4	320
			110	48	29.2	363
	85			52	26.9	351
	110			53	26.4	380
			85	59.7	23.5	409
			110	63	22.2	445
	$P_1=1.8kw$ 4p $n_1=1400r/min$	110			64	21.9
			85	72.3	19.4	473
			110	80	17.5	540
110				84	16.7	559
			110	94	14.9	635
110				99	14.1	608
63A				7	200	71
63				7	200	71
63A				10	140	99
63				10	140	99
85				14	100	134
63A				15	93	146
63				15	93	146
63A				19	74	182
110				20	70	201
85				20	70	194
85				22	64	211
110				23	61	226
63A				24	58	221
85				28	50	258
110			30	46.7	280	
110			38	36.8	350	
85			38	36.8	331	
		110	42	33.3	392	
110			45	31.1	403	
85			46	30.4	384	
		110	48	29.2	436	
110			53	26.4	456	
		85	59.7	23.5	491	
		110	63	22.2	534	
110			64	21.9	542	
		110	80	17.5	648	
		110	94	14.9	762	

输入 Input	型号 Type			减速比 i Ratio	输出 Output		
	FCP	FCEP	FCFP		n_2 (r/min)	M_2 (N.m)	
$P_1=2.2kw$ 4p $n_1=1400r/min$	85			7	200	92	
	110			10	140	129	
	85			10	140	120	
	85			14	100	164	
	110			16	88	197	
	110			20	70	246	
	85			20	70	237	
	85			22	64	258	
	110			23	61	276	
	85			28	50	315	
	110			30	46.7	342	
	110			38	36.8	428	
			110	42	33.3	479	
	110			45	31.1	193	
			110	48	29.2	533	
	110			53	26.4	557	
			110	63	22.2	652	
			110	80	17.5	792	
	$P_1=3.0kw$ 4p $n_1=1400r/min$	110			7	200	126
		85			7	200	126
110				10	140	176	
85				10	140	164	
85				14	100	223	
110				16	88	268	
110				20	70	336	
85				20	70	323	
85				22	64	351	
110				23	61	377	
85				28	50	430	
110				30	46.7	467	
110				38	36.8	583	
			110	42	33.3	653	
110				45	31.1	672	
			110	48	29.2	727	
110				53	26.4	759	
			110	63	22.2	890	
$P_1=4.0kw$ 4p $n_1=1400r/min$		110			7	200	168
		85			7	200	168
	110			10	140	235	
	85			10	140	218	
	85			14	100	298	
	110			16	88	358	
	110			20	70	447	
	110			23	61	502	
	110			30	46.7	622	
	110			38	36.8	778	
	110			7	200	231	
	$P_1=5.5kw$ 4p $n_1=1400r/min$	110			10	140	323
		110			16	88	492
		110			7	200	315
		110			10	140	440
	$P_1=7.5kw$ 4p $n_1=1400r/min$	110			16	88	671

产品型号国内外对照表
Model comparative table

产品系列 Product series	恒星减速机 Fixedstar Reducer	国外企业 Overseas co.	国内企业 Domestic co.	
无级变速器 Stepless variator	UDL0.18	TK/02	UDL0.18	MBN02
	UDL0.37	TK/05	UDL0.37	MBN04
	UDL0.55	TK/10	UDL0.55	MBN07
	UDL0.75	TK/10	UDL0.75	MBN07
	UD1.1	TK/20	UD1.1	MB15
	UD1.5	TK/20	UD1.5	MB15
	UD2.2	TK/30	UD2.2	MB22
	UD3.0	TK/40	UD3.0	MB40
	UD4.0	TK/40	UD4.0	MB40
	UD5.5	TK/100	UD5.5	MB55
UD7.5	TK/100	UD7.5	MB75	
无级-齿轮组合 Variator-gear reducer	UDL0.18-c		UDL0.18-c	MBN02-c
	UDL0.18-2c		UDL0.18-2c	MBN02-2c
	UDL0.37-c		UDL0.37-c	MBN04-c
	UDL0.37-2c		UDL0.37-2c	MBN04-2c
	UDL0.75-c		UDL0.75-c	MBN07-c
UDL0.75-2c		UDL0.75-2c	MBN07-2c	
无级-蜗轮组合 Variator-worm reducer	FCNUD40/0.18		UDL0.18-NMRV040	MBN02-RW40
	FCNUD50/0.37		UDL0.37-NMRV050	MBN04-RW50
	FCNUD60/0.55		UDL0.55-NMRV063	MBN07-RW63
	FCNUD75/0.75		UDL0.75-NMRV075	MBN07-RW75
	FCNUD90/1.1		UD1.1-NMRV090	MBN15-RW90
	FCNUD110/2.2		UD2.2-NMRV110	MBN22-RW110
FCNUD130/3.0		UD3.0-NMRV130	MBN40-RW130	
蜗轮减速机 Worm reducer	FCNK25	NRV025	NRV025	WJZ25
	FCNK30	NRV030	NRV030	WJZ30
	FCNK40	NRV040	NRV040	WJZ40
	FCNK50	NRV050	NRV050	WJZ50
	FCNK63	NRV063	NRV063	WJZ63
	FCNK75	NRV075	NRV075	WJZ75
	FCNK90	NRV090	NRV090	WJZ90
	FCNK110	NRV110	NRV110	WJZ110
	FCNK130	NRV130	NRV130	WJZ130
	FCNDK25	NMRV025	NMRV025	RW25
	FCNDK30	NMRV030	NMRV030	RW30
	FCNDK40	NMRV040	NMRV040	RW40
	FCNDK50	NMRV050	NMRV050	RW50
	FCNDK63	NMRV063	NMRV063	RW63
	FCNDK75	NMRV075	NMRV075	RW75
	FCNDK90	NMRV090	NMRV090	RW90
	FCNDK110	NMRV110	NMRV110	RW110
	FCNDK130	NMRV130	NMRV130	RW130
	FCNDK150	NMRV150		
	FCPK30	R30		
	FCPK45	R45		
	FCPK50	R50		
	FCPK63	R63		
	FCPK63A	R63A		
	FCPK85	R85		
	FCPK110	R110		
	FCPDK30	P30		
FCPDK45	P45			
FCPDK50	P50			
FCPDK63	P63			
FCPDK63A	P63A			
FCPDK85	P85			
FCPDK110	P110			

润滑油 lubricants

减速机类别 Reductortype	UD 系列无级变速器 UD series stepless variator	FCN系列蜗轮减速机 Series of FCN reducer				FCP系列蜗轮减速机 Series of FCP reducer	
		25 - 90	110 - 130		30 - 63A	85 - 110	
润滑油的种类 Type of cubricant	合成油 Syntheticoil	合成油 Syntheticoil	合成油 Syntheticoil	矿物油 Mineral lubrication oil		润滑脂 Grease	合成油 Syntheticoil
环境温度 AmbientTemperature	-25℃ ~ +40℃	-25℃ ~ +50℃	-25℃ ~ +50℃	-5℃ ~ +40℃	-15℃ ~ +40℃	-5℃ ~ +40℃	-15℃ ~ +25℃
ISO VG	VG320	VG320	VG320	VG460	VG220		VG220
壳牌 	A.T.F.Dexron	Tivela Oil WB	Tivela Oil WB	Omala Oil 460	Omala Oil 220	TivelaCompound A	Tivela Oil WB
莫比尔 Mobil	A.T.F.220	Glygoyle30		Mobil gear 634	Mobil gear 630	Glygoyle Grease 00	Glygoyle 30 SHC 630
埃索 	A.T.F.Dexron	S220	S220	Spartan EP 460	Spartan EP 220	GreaseS420	
英国石油 BP	Autran DX	Energol SGXP 320		Energol GRXP 460	Energol GRXP 220		Energol GRXP 220

润滑油量表 Oil capacities

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

型号Size	30	45	50	63	63A	85	110
	油脂量(kg)	0.065	0.09	0.16	0.38	0.38	
油量(l)						1.2	2.8/1.8




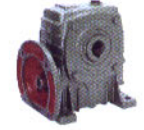








使用说明 Usage specifications

1. 减速机要放在平整或刚性支撑面的地方，且避免周围一切可预见的震动，最好用垫圈预紧地脚螺栓。
2. 减速机在户外工作时，要做好防晒、防撞和防雨措施。
3. 减速机的输出轴端安装小齿轮、联轴器或带轮时，要采用轴端螺孔压入方式，严禁锤击。
4. 减速机首次运行 150 小时，应重新更换润滑油。以后换油周期约为 4000 小时。
5. 箱体内应保留足够的润滑油，并定时检查。
6. 避免合成油与矿物油混合使用。

1. Make sure that the reducer is located onto a flat and non-flexible surface and subject to any vibration be foreseen, it is advisable to fix the screw heads by means of cut washers.
2. For outdoor applications provide suitable protections against the atmosphere and direct precipitation. For applications in humid environments, provide appropriate protections onto the reducer machined surfaces.
3. During mounting of pinions, couplings or pulleys onto the gearbox shafts, try to avoid any impact by using the appropriate pullers located in the threaded holes at the ends of the same shafts.
4. When reducer starts to work up to 150 hours, its lubrication oil should be replaced. After that, the cycle of oil replacement is about 4000 hours.
5. Lubricating oil should be kept enough in the casing and checked at a fixed time.
6. Avoid mixing synthetic and mineral lubricants.

其它产品 Other Products

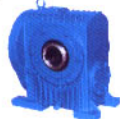



普通蜗輪減速機 Common fried dumpling reducer

FCA 	FCDA 	FCKA 	FCDKA 	FCS 	FCDS 
FCO 	FCDO 	FCW 	FCWD 	FCEA 	FCEDA 



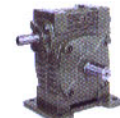


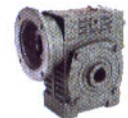








圆弧圆柱蜗杆减速机 Arc gear cylindrical worm reducer

CWU 	CWO 	CWS 	SCW 
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平面包络环面蜗杆减速机 Plane enveloping toroidal worm reducer

RD 	TPU 	TPS 	LHJ 
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英制蜗輪減速機 Inch size reducer

FCUY 	FCQY 	FCWSY 	FCWDY 	FCWKY 	FCWDKY 
FCWOY 	FCWDKOY 	FCAY 	FCDSY 	FCR68 	FCR65 
FCG 	FCDG 				

润滑油 lubricants

减速机类别 Reduocertype	UD 系列无级变速器 UD series stepless variator	FCN系列蜗轮减速机 Series of FCN reducer				FCP系列蜗轮减速机 Series of FCP reducer	
		25 - 90	110 - 130		30 - 63A	85 - 110	
润滑油的种类 Type of cubricant	合成油 Syntheticoil	合成油 Syntheticoil	合成油 Syntheticoil	矿物油 Mineral lubrication oil		润滑脂 Grease	合成油 Syntheticoil
环境温度 AmbientTemperature	-25℃ ~ +40℃	-25℃ ~ +50℃	-25℃ ~ +50℃	-5℃ ~ +40℃	-15℃ ~ +40℃	-5℃ ~ +40℃	-15℃ ~ +25℃
ISO VG	VG320	VG320	VG320	VG460	VG220		VG220
壳牌 	A.T.F.Dexron	Tivela Oil WB	Tivela Oil WB	Omala Oil 460	Omala Oil 220	Tivela Compound A	Tivela Oil WB
莫比尔 	A.T.F.220	Glygoyle30		Mobil gear 634	Mobil gear 630	Glygoyle Grease 00	Glygoyle 30 SHC 630
埃索 	A.T.F.Dexron	S220	S220	Spartan EP 460	Spartan EP 220	Grease S420	
英国石油 	Autran DX	Energol SGXP 320		Energol GRXP 460	Energol GRXP 220		Energol GRXP 220

润滑油量表 Oil capacities

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

型号Size	30	45	50	63	63A	85	110
油脂量(kg)	0.065	0.09	0.16	0.38	0.38		
油量(l)						1.2	2.8/1.8

使用说明 Usage specifications

1. 减速机要放在平整或刚性支撑面的地方，且避免周围一切可预见的震动，最好用垫圈预紧地脚螺栓。
2. 减速机在户外工作时，要做好防晒、防撞和防雨措施。
3. 减速机的输出轴端安装小齿轮、联轴器或带轮时，要采用轴端螺孔压入方式，严禁锤击。
4. 减速机首次运行 150 小时，应重新更换润滑油。以后换油周期约为 4000 小时。
5. 箱体内应保留足够的润滑油，并定时检查。
6. 避免合成油与矿物油混合使用。

1. Make sure that the reducer is located onto a flat and non-flexible surface and subject to any vibration be foreseen, it is advisable to fix the screw heads by means of cut washers.
2. For outdoor applications provide suitable protections against the atmosphere and direct precipitation. For applications in humid environments, provide appropriate protections onto the reducer machined surfaces.
3. During mounting of pinions, couplings or pulleys onto the gearbox shafts, try to avoid any impact by using the appropriate pullers located in the threaded holes at the ends of the same shafts.
4. When reducer starts to work up to 150 hours, its lubrication oil should be replaced. After that, the cycle of oil replacement is about 4000 hours.
5. Lubricating oil should be kept enough in the casing and checked at a fixed time.
6. Avoid mixing synthetic and mineral lubricants.

润滑油 lubricants

减速机类别 Reductortype	UD 系列无级变速机 UD series stepless variator	FCN系列蜗轮减速机 Series of FCN reducer				FCP系列蜗轮减速机 Series of FCP reducer	
		25 - 90	110 - 130		30 - 63A	85 - 110	
润滑油的种类 Type of cubricant	合成油 Syntheticoil	合成油 Syntheticoil	合成油 Syntheticoil	矿物油 Mineral lubrication oil		润滑脂 Grease	合成油 Syntheticoil
环境温度 Ambient Temperature	-25℃ - +40℃	-25℃ - +50℃	-25℃ - +50℃	-5℃ - +40℃	-15℃ - +40℃	-5℃ - +40℃	-15℃ - +25℃
ISO VG	VG320	VG320	VG320	VG460	VG220		VG220
 壳牌 Shell	A.T.F.Dexron	Tivela Oil WB	Tivela Oil WB	Omala Oil 460	Omala Oil 220	Tivela Compound A	Tivela Oil WB
 莫比尔 Mobil	A.T.F.220	Glygoyle 30		Mobil gear 634	Mobil gear 630	Glygoyle Grease 00	Glygoyle 30 SHC 630
 埃索 Esso	A.T.F.Dexron	S220	S220	Spartan EP 460	Spartan EP 220	Grease S420	
英国石油 BP	Autran DX	Energol SGXP 320		Energol GRXP 460	Energol GRXP 220		Energol GRXP 220

润滑油量表 Oil capacities

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

型号Size	30	45	50	63	63A	85	110
	油脂量(kg)	0.065	0.09	0.16	0.38	0.38	
油量(l)						1.2	2.8/1.8













使用说明 Usage specifications

1. 减速机要放在平整或刚性支撑面的地方，且避免周围一切可预见的震动，最好用垫圈预紧地脚螺栓。
2. 减速机在户外工作时，要做好防晒、防撞和防雨措施。
3. 减速机的输出轴端安装小齿轮、联轴器或带轮时，要采用轴端螺孔压入方式，严禁锤击。
4. 减速机首次运行 150 小时，应重新更换润滑油。以后换油周期约为 4000 小时。
5. 箱体内应保留足够的润滑油，并定时检查。
6. 避免合成油与矿物油混合使用。


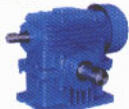


1. Make sure that the reducer is located onto a flat and non-flexible surface and subject to any vibration be foreseen, it is advisable to fix the screw heads by means of cut washers.
2. For outdoor applications provide suitable protections against the atmosphere and direct precipitation. For applications in humid environments, provide appropriate protections onto the reducer machined surfaces.
3. During mounting of pinions, couplings or pulleys onto the gearbox shafts, try to avoid any impact by using the appropriate pullers located in the threaded holes at the ends of the same shafts.
4. When reducer starts to work up to 150 hours, its lubrication oil should be replaced. After that, the cycle of oil replacement is about 4000 hours.
5. Lubricating oil should be kept enough in the casing and checked at a fixed time.
6. Avoid mixing synthetic and mineral lubricants.

其他产品 Other Products





普通蜗輪減速機 Common fried dumpling reducer

FCA 	FCDA 	FCKA 	FCDKA 	FCS 	FCDS 
FCO 	FCDO 	FCW 	FCWD 	FCEA 	FCEDA 





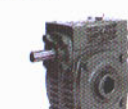









圆弧圆柱蜗杆减速机 Arc gear cylindrical worm reducer

CWU 	CWO 	CWS 	SCW 
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平面包络环面蜗杆减速机 Plane enveloping toroidal worm reducer





RD 	TPU 	TPS 	LHJ 
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英制蜗輪減速機 Inch size reducer

FCUY 	FCQY 	FCWSY 	FCWDY 	FCWKY 	FCWDKY 
FCWOY 	FCWDKOY 	FCAY 	FCDSY 	FCR68 	FCR65 
FCG 	FCDG 				

其它产品 Other Products







斜齿轮减速机 Helical gear reducer

FR..DT/DV.. 	FR..LS(M).. 	FR..AD.. 	SMR 
--	--	---	--

自动开门机 Automatic gate opener

FC220 	FCYK 	FC220B 	FC220Z 	FC220P 	FC220DC 
--	---	---	---	---	--

摆线针轮减速机 Aluminum casing reducer

BWD 	BWED 	BLD 	BLED 	SWL- I 	SWL- II 
---	--	---	--	--	---

丝杆升降机 Screw actuator

弹性联轴器 Flexible coupling

FCL 
--

阀门启闭器 Valve open-shut reducer

FL 

FCWGO 
--

FCWG 

EPS减速机 EPS Reducer

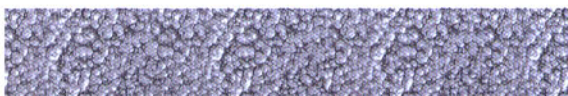
EPS 
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产品标准颜色

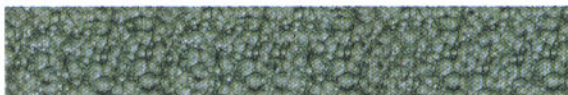
Standard Color Of Products

代码 code 颜色 color

Y



G



B



R



印刷原因，颜色与实物稍有差异。

Due to printing limitation the color do not match the actual products exactly

