▶ WB系列产品代号编写方法论 / Compiling metho of WB series product code number

WB E 1065 - W D - 187 - 60 - B3

- 安装方位 / Mounting position
- 电机功率（输入轴型省略） / Montor power（Omit expression with input shaft）
- 减速比 / ratio
- 输入端形式：D-配电机型，Y-配法兰型，输入轴型省略 / Type of input:D-montor-style，Y-flange-style，Omit expression with input shaft
- 安装形式：W-卧式，L-立式，L_1-方形法兰 / Structrure code: W-Horizontal，L-Vertical，L_1-Flange of quadrate
- 机型号 / type
- 减速级数：E-双级，单级省略 / Transmission stage code,omit expression singlestage,2-stage:e
- 减速机代号 / Series code

▶ 使用与维护 / Use and maintance

1 工作环境温度不大于40℃。	1/ the ambient temperature less than 40℃
2 减速机最高工作温度不大于80℃。	2/ the working temperature less than 80℃
3 减速机出厂已加注润滑油。	3/ reducer are supplied with oil
4 减速机使用油品见说明书。	4/ the type of the oil see product sample others

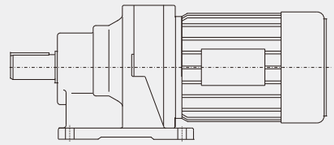
▶ 其他说明 / others

1 用户要求特殊定制时，请详细注明。	1/please sign clearly if customers need specia design

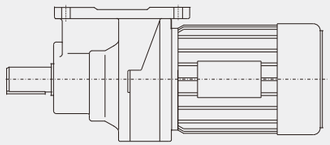
DOFINE 东方传动
WB 微型摆线针轮减速机
WB series cyloidal micoro-reducer

▶ 安装方位 / mounting positions

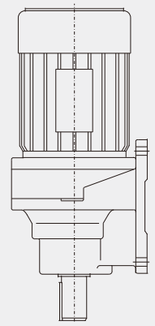
B3



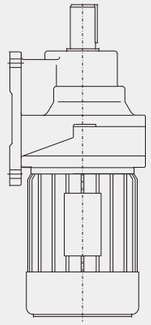
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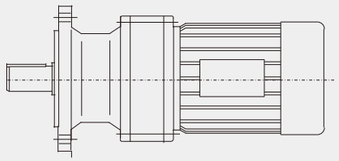
V5



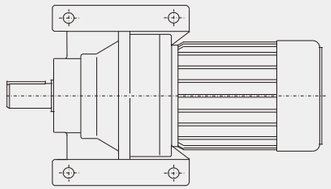
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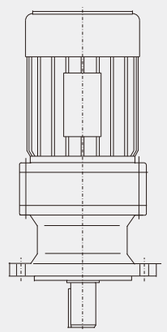
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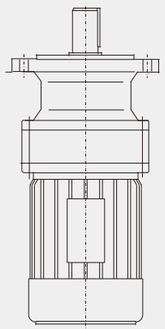
B51



V1



V3



▶ Wb单级减速机型号规格 / MODEL & SPECIFION OF WB SPEED REDUCER

机型 Model	电子类型 Model of motr功率（W）Power				传动比 Rebuction ratio										低速轴许用扭 ALLowable torque of Slow-speed shaft(N.m)
	三相 Three-phase	单相 Single-phase	直流 Direct current	制动 Brake	9	11	17	23	29	35	43	59	71	87	
65	40	40※			○	○	○	○	○	○	○				25
	60	60※	50		○	○	○	○	○	○	●				
	90	90※	80		○	○	○	○	○	●	△				
	120				○	○	○	○	●	△	△				
85	90	90▲	80		○	○	○	○	○	○	○				60
	120	120▲	123		○	○	○	○	○	○	●				
	180		185	180	○	○	○	○	○	●	△				
	250			250	○	○	○	○	●	△	△				
	370			370	○	○	○	●	△	△	△				
100	180	180★	185	180	○	○	○	○	○	○	○	○			120
	250	250★		250	○	○	○	○	○	○	○	●			
	370	370★	355	370	○	○	○	○	○	○	●	△			
	550			550	○	○	○	○	●	●	△	△			
	750				○	○	○	●	△	△	△	△			
120	370	370★		370	○	○	○	○	○	○	○	●	△		150
	550	550★		550	○	○	○	○	○	●	●	△	△		
	750	750★		750	○	○	○	○	●	△	△	△	△		
	1100				○	○	○	●	△	△	△	△	△		
150	550	550★		550	○	○	○	○	○	○	○	△	●	△	250
	750	750★		750	○	○	○	○	○	○	○	●	△	△	
	1100			1100	○	○	○	○	○	●	△	△	△	△	
	1500			1500	○	○	○	●	●	△	△	△	△	△	
	2200			2200	○	○	●	△	△	△	△	△	△	△	
输出轴转数 Output shaft revoluon(r/min)	电机转数 Revolution of moor 1400r/min				155	127	82	60	48	40	32	23	20	17	
	电机转数 Revolution of moor 950r/min				105	86	56	41	33	27	22	16	13	11	

▶ WBE 双极减速机型号规格 MODEL & SPECIFCATION OF WBE DOUBLE SPEED REDUCER

机型 Model	电子类型 Model of motr功率（W）Power				传动比 Rebuction ratio										低速轴许用扭 ALLowable torque of Slow-speed shaft(N.m)
	三相 Three-phase	单相 Single-phase	直流 Direct current	制动 Brake	(11×11) 121	(11×17) 187	(17×17) 289	(11×35) 385	(11×43) 473	(17×35) 595	(17×43) 731	(23×43) 989	(35×35) 1225	(43×43) 1849	
1065	40	40※			○	○	○	○	○	●	△	△	△	△	120
	60	60※	50		○	○	●	△	△	△	△	△	△	△	
	90	90※	80		○	●	△	△	△	△	△	△	△	△	
	120				●	△	△	△	△	△	△	△	△	△	
1285	90	90▲	80		○	○	○	●	△	△	△	△	△	△	150
	120	120▲	123		○	○	●	○	△	△	△	△	△	△	
	180		185	180	○	●	△	△	△	△	△	△	△	△	
	250			250	●	△	△	△	△	△	△	△	△	△	
	370			370	△	△	△	△	△	△	△	△	△	△	
1510	180	180★	185	180	○	○	●	△	△	△	△	△	△	△	250
	250	250★		250	○	●	△	△	△	△	△	△	△	△	
	370	370★	355	370	●	△	△	△	△	△	△	△	△	△	
	550			550	△	△	△	△	△	△	△	△	△	△	
	750				△	△	△	△	△	△	△	△	△	△	
当电机转数1400r/min时输出轴转数 The output shaft rsvolution while the motor revolution is 1400r/min					11.5	7.5	4.8	3.6	3	2.3	1.9	1.4	1.1	0.7	

注：双级减速比由两单级比组合而成，上表中未列出的亦可生产。
Note:The double step reducing ratio consists of the both mono-step reducing ratio.The unlisted on the above table alos can be produced

DOFINE 东方传动

WB 微型摆线针轮减速机
WB series cyloidal micoro-reducer

▶ 型号规格表选型说明 / Explananon of iiodel specification tkble

A、根据机型大小不同，在同一机型中的不同减速比所选用的电机功率也不同，表中列出了根据同一机型中的不同电机功率所配置的减速比。表中标有●者是表示可使用电机全容量。标有○者是表示所配置的电机功率小于减速器的设计功率，用于有制动器电机，由于起动停止频繁及制动转矩产生过负荷的场合。标有△者是表示所配置的电机功率大于减速器的设计功率，减速器应在许用扭矩范围内使用，或在输出轴上设安全过载装置，以防止减速器过大力矩。

B、上表中已列有各机械输出轴的许用扭矩，选用时，实际工作扭矩应≤本机的额定扭矩，最大的瞬时负荷应≤本机额定负荷的150%。

C、上表中电机栏中带※者为单机电容运转电动机，带▲者为单相电阻起动电动机，带★者为单相电容起动电动机。

D、选取机型的，应注意使用电动的起动扭矩大小，考虑起动、制动、正反转频繁情况等因素。一般用三相异步电动机的起动转矩，在稳定负荷不超过电动机额定值或有轻微的冲击负荷每日工作8小时的工作场合，工作系数将取K=1。在起动扭矩大或正反转频繁的恶劣条件情况下，工作系数取K>1。将工作系数K乘以所需功率作为选择机型的设计功率。设计功率=KX所需功率。

A、According the ditferent size of maehine model, the seleetable motor power of the differentredueing speed ratio at the same ma-chine model is also difeerent. The table lists out the redueing ratio of the differentmotor power ac-marks "●" meads to use the motorfullcapac'ity. "○"means the fitled motor power islessthanthedesiSned power ot thereductqr. Use sforthebrakemotorbeca Luse of frequent stopping and overloadbrake torque"△" meansthe fitted motor power is larger thanthedesignedpowet of the reductor. Thereductnrshould be used within the raner of theallowablc totqueor inslalled the safe device nn the output shaft, avoid producing the aver large torque of lte redtictor.

B、The abpve tab;e jas; osted the aiipwabietprqie pftje varopis. Aejome. Pde; pitfit siare. Wjote se; ectomg. Theactual working drive torque should be less than or equal to the rated torque of this maehine, the max conslant load should be lese lthan or equal to 15% of the rated load.

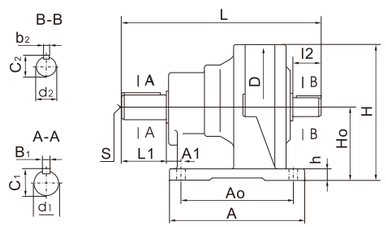
C、"※"listed on the above table means themodo-phase capacity running motor. "▲"means themono-phase resistant starting motor. "★" means themono phase capacity startin smotor.

D、When selecting the mackine model. Pay attenlion to the size of the startin storque, coneider the negative rotary frequent circumstance etc. Gener-ally use the three-phase asyncbronous motor straight torque. The workiug coeffi-cient will be got K=1 under the condition lhat the sta-ble load doesn't exceed the rated valve of the motor or the slight impact loa 4 daily 8' hopre working state. The wolking coefficient will be got K>1 under the bad cir-eumetance of the large starting torque or frequent positive and negative retaty. The wlorking. Coeffi-cient K ismultified the meeded power will be Ihe desiened power of the selectable mackine model. The desienedpower=KX needed ppwer.

▶ 本系列减速器常用电机及电机外型尺寸一览表
Tabe ofdaity-use motor and overall size of this series seris series reductor

电机类别 Motor classi-fication	功率 Power(W)	转数 Rotational speed (r/min)	电压Voltage(V)	L2	D	配置相应机型 Fitted correspon-dence model
三相异步电动机 Three-phase asynchronous motor	40	1400	380	130	95	65 1065
	60	1400		130	95	65 1065
	90	1400		176	115	65 85 1065 1285
	120	1400		176	115	65 85 1065 1285
	180	1400		175	130	85 100 1285
	250	1400		175	130	85 100 1285
	370	1400		195	130	85 100 1285
	550	1400		210	150	100 120 1510
	750	1400		210	150	100 120 1510
	1100	1400		310	175	120 150
	1500	1400		310	175	120 150
	2200	1400		350	205	150
	3000	1400		350	205	150
6极	180	950		225	150	100 120 1510
	250	950		225	150	100 120 1510
	370	950		225	150	100 120 1510
	550	950		285	175	120 150
	750	950		285	175	120 150
	1100	950		310	175	120 150
	1500	950		350	205	120

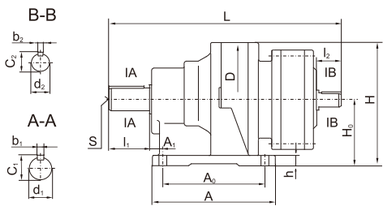
▶ 单级卧式外形及安装尺寸 / Dimensions of single stage foot-mounted cycloidal reducer



WB...-W　　WB...-WD

机型号 type	安装尺寸 mounting dimensions									轴伸尺寸 shaft dimensions								外形尺寸Overall dimensions						重量 Weight
										输出轴 Output shaft				输入轴 input shaft										
	H_0	A_0	A1	B1	B_0	h	s	n	d_0	d_1(h6)	b_1	c_1	l_1	d_2(h6)	b_2	c_2	l_2	A	B	H	D	L	L_1	kg
65	60	60	25	25	130	8	M4	4	7	12	4	13.5	20	10	3	11	16	90	150	120	110	135	95	2.5
85	70	70	30	30	150	10	M5		9	14	5	16	23	12	3	13	16	100	175	140	127	148	110	3.5
100	80	80	38	32	160	12	M6		9	18	6	20.5	25	14	4	16.5	20	110	185	155	145	174	130	7
120	100	90	58	35	150	15	M8		11	30	8	33	35	15	5	17	22	120	185	190	168	215	165	11
150	120	120	60	50	210	18	M8		15	35	10	38.5	55	20	6	22.5	30	160	250	235	210	260	200	28

▶ 双级卧式外形及安装尺寸 / Dimensions of 2-stage foot-mounted cycloidal reducer



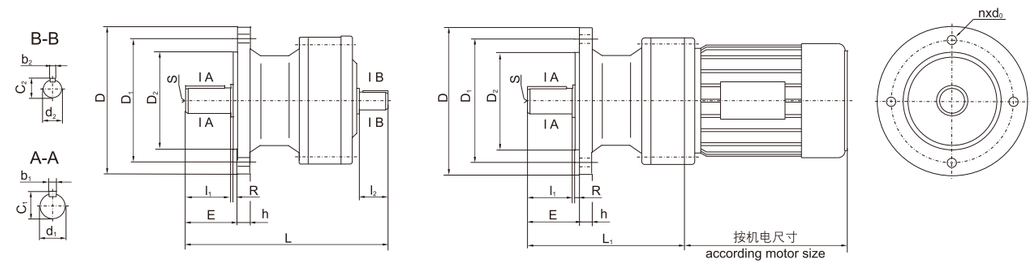
WBE...-W　　WBE...-WD

机型号 type	安装尺寸 mounting dimensions									轴伸尺寸 shaft dimensions								外形尺寸Overall dimensions						重量 Weight
										输出轴 Output shaft				输入轴 input shaft										
	H_0	A_0	A_1	B_1	B_0	h	s	n	d_0	d_1(h6)	b_1	c_1	l_1	d_2(h6)	b_2	c_2	l_2	A	B	H	D	L	L_1	kg
1065	80	80	38	32	160	12	M6	4	9	18	6	20.5	25	10	3	11	16	110	185	155	145	225	185	9
1285	100	90	58	35	150	15	M8	4	11	30	8	33	35	12	3	13	16	120	185	190	168	268	230	14
1510	120	120	60	50	210	18	M8	4	15	35	10	38.5	55	14	4	16.5	20	160	250	235	210	325	295	36

注：表中重量不包含电机重量　　Note:the weight in ()divide motor ’ s

DOFINE 东方传动
WB 微型摆线针轮减速机
WB series cyloidal micoro-reducer

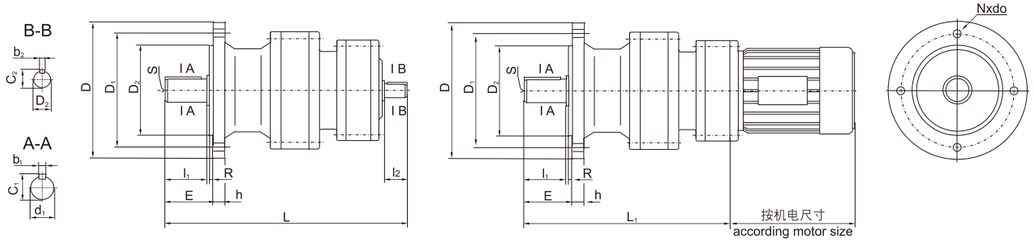
▶ 单级立式外形及安装尺寸 / Dimensions of single stage flangle-mounted cycloidal reducer



WB...-L　　WB...-LD

机型号 type	安装尺寸 mounting dimensions								轴伸尺寸 shaft dimensions								外形尺寸 over dimensions			重量 Weight
									输出轴 output shaft				输入轴 input shaft							
	D_1	D_2(h8)	E	h	R	S	n	d_0	d_1(h6)	b_1	c_1	l_1	d_2(h6)	b_2	c_2	l_2	D	L	L_1	kg
65	100	65	24	8	2.5	M4	4	7	12	4	13.5	20	10	3	11	16	120	135	95	2.5
85	120	85	27	9	2.5	M5	4	9	14	5	16	23	12	3	13	16	140	148	110	3.5
100	134	100	30	10	3	M6	4	9	18	6	20.5	25	14	4	16.5	20	160	174	130	7
120	160	140	39	10	3	M8	4	11	30	8	33	35	15	5	17	22	190	215	165	11
150	200	170	60	14	4	M8	6	11	35	10	38.5	55	20	6	22.5	30	230	260	200	28

▶ 双级立式外形及安装尺寸 / Dimensions of 2-stage flange-mounted cycloidal reducer



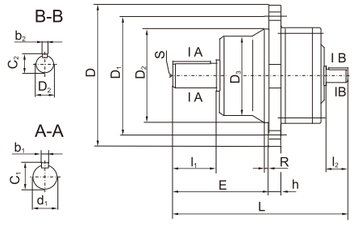
WBE...-L　　WBE...-LD

机型号 type	安装尺寸 mounting dimensions								轴伸尺寸 shaft dimensions								外形尺寸 over dimensions			重量 Weight
									输出轴 output shaft				输入轴 input shaft							
	D_1	D_2(h8)	E	h	R	S	n	d_0	d_1(h6)	b_1	c_1	l_1	d_2(h6)	b_2	c_2	l_2	D	L	L_1	kg
1065	134	100	30	10	3	M6	4	9	18	6	20.5	25	10	3	11	16	160	225	185	9
1285	160	140	39	10	3	M8	4	11	30	8	33	35	12	3	13	16	190	268	230	14
1510	200	170	60	14	4	M8	6	11	35	10	38.5	55	14	4	16.5	20	230	325	295	36

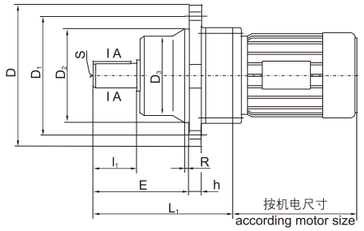
注：表中重量不包含电机重量　　Note:the weight in ()divide motor ’ s

WB 微型摆线针轮减速机
WB series cyloidal micoro-reducer

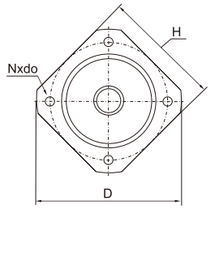
▶ 单级立式方形法兰外形及安装尺寸 / Dimensions of single stage flangle-mounted cycloidal reducer



WB...-L1

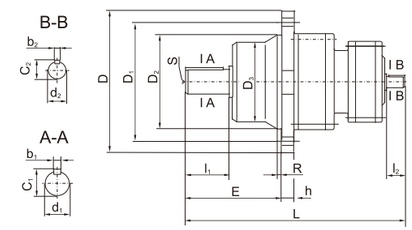


WB...-L1D

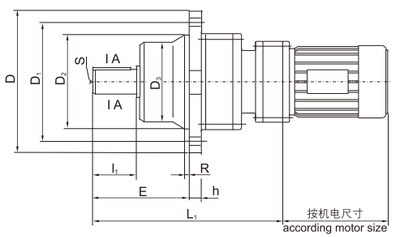


机型号 type	安装尺寸 mounting dimensions									轴伸尺寸 shaft dimensions								外形尺寸 over dimensions				重量 Weight
										输出轴 output shaft				输入轴 input shaft								
	D_1	D_2(h8)	E	h	R	S	H	n	d_0	d_1(h6)	b_1	c_1	l_1	d_2(h6)	b_2	c_2	l_2	D	D_3	L	L_1	kg
65	125	65	65	9	2.5	M4	105	4	7	12	4	13.5	20	7	3	11	16	145	50	135	95	2.5
85	140	85	82	10	2.5	M5	125		9	14	5	16	23	9	3	13	16	165	55	148	110	3.5
100	160	100	93	12	3	M6	140		9	18	6	20.5	25	9	4	16.5	20	185	65	174	130	7
120	185	120	118	12	3	M8	170		11	30	8	33	35	11	5	17	22	210	85	215	165	11
150	240	150	140	15	4	M8	210		15	35	10	38.5	55	15	6	22.5	30	270	115	260	200	28

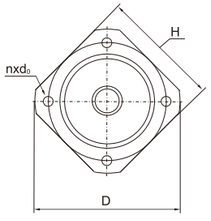
▶ 双级立式方形法兰外形及安装尺寸 / Dimensions of 2-stage flange-mounted cycloidal reducer



WBE...-L1



WBE...-L1D



机型号 type	安装尺寸 mounting dimensions									轴伸尺寸 shaft dimensions								外形尺寸 over dimensions				重量 Weight
										输出轴 output shaft				输入轴 input shaft								
	D_1	D_2(h8)	E	h	R	S	H	n	d_0	d_1(h6)	b_1	c_1	l_1	d_2(h6)	b_2	c_2	l_2	D	D_3	L	L_1	kg
1065	160	100	93	12	3	M6	140	4	9	18	6	20.5	25	10	3	11	16	185	65	225	185	9
1285	185	120	118	12	3	M8	170		11	30	8	33	35	12	3	13	16	210	85	268	230	14
1510	240	150	140	15	3	M8	210		15	35	10	38.5	55	14	4	16.5	20	270	115	325	295	36

注：表中重量不包含电机重量　　Note:the weight in ()divide motor ' s

X、B series cyloidal reducer
X、B系列摆线针轮减速机

▶ 产品特点 / characteristic

1 多齿同时啮合传动，抗过载能力强，可靠性高。
2 主要传动件采用轴承钢并经淬火磨削，高强度设计，坚固寿命长。
3 惯性小，适合启动频繁和正反转。
4 低噪高效率，一级减速可达92%以上。
5 结构紧凑，同轴输出。

1/ several tooths drive,high strengh and high credibility
2/ the material of main parts is bearing steel
3/ litter inertia adapts reducer intvertering
4/ low noise high efficiency,single stage efficiencyare more than 92%
5/ input shaft and output shaft in the same axis,small volume

▶ X、B系列产品代号编写方法 / Compiling method of X、B series Product number

X W E D 3 - 85 - 187 YB - B3

- 安装方位 Mounting position
- 电机类，普通电机省略 Mmotor series code,omit expression with yserie motor
- 减速比 ratio
- 机型号 type
- 电机功率（输入轴型省略） Montor power（Omit expression with input shaft）
- 输入端形式 D-配电机型；Y-配法兰型：输入轴型省略 Type of input:D-montor-style,Y-flange-style,Omit expression with shaft input
- 减速级数：E-双级，单级省略 Transmission stage code,omit exprexxion singlestage,2-stage
- 安装形式：W-卧式，L-立式 Structrure code: W-Horizontal, L-Vertical , L_1-Flange of quadrate
- 系列：X系列摆线针轮减速机，B系列摆线针轮减速机 Series X-X Series cyloidal reducer,B-BSeries cyloidal reducer

▶ X、B、BJ系列单级机型对照表 / X、B、BJ Various series mono-step machine model contrast

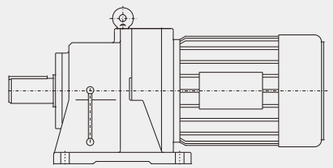
系列Series	相对应机型									
X	X2	X3	X4	X5	X6	X7	X8	X9	X10	X11
BJ	BJ2	BJ3	BJ4	BJ5	BJ6	BJ7	BJ8	BJ9	BJ10	BJ11
B		B1	B2	B3	B4		B5	B6		
B(原一机部 Former)		B15	B18	B22	B27		B33	B39	B45	B55

▶ X、B、BJ系列双级(代号E)机型对照表 / X、B、BJ Various series double-step(code E) machine model contrast table

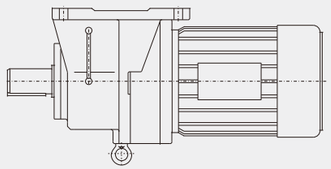
系列Series	相对应机型							
X	X42	X53	X63	X74	X85	X95	X106	X117
BJ	Bj42	Bj53	Bj63	Bj74	Bj85	Bj95	Bj106	Bj117
B		b31	b41		b52	b53	b63	
B(原一机部 Former)		b2215	b2715		b3322	b3922	b4527	

▶ 安装方位 / mounting positions

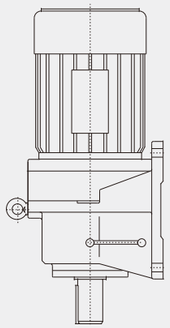
B3



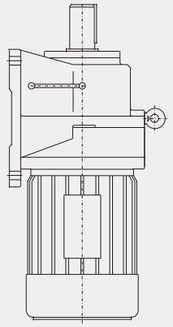
B31



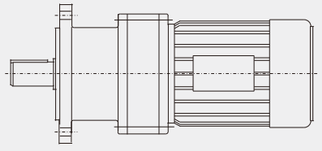
V5



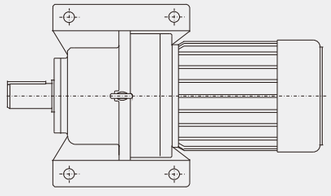
V6



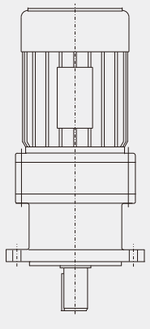
B5



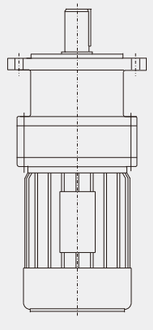
B51



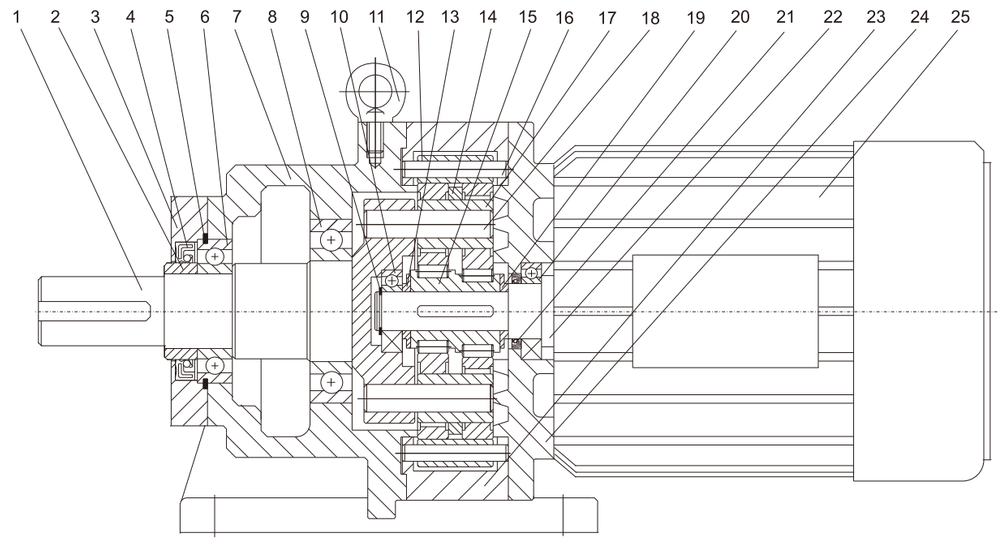
V1



V3



▶ 结构图例 / Structure chart



1 输出轴	2 紧固坏	3 压盖	1 input shaft	2 annulus	3 cover board
4 骨架油封	5 挡圈	6 轴承	4 oil seal	5 circlip	6 bearing
7 机座	8 轴承	9 挡圈	7 frame	8 bearing	9 circlip
10 轴承	11 吊环	12 针齿套	10 bearing	11 eyebolt	12 gear roller
13 垫圈	14 间隔环	15 偏心轴承	13 washer	14 annulus	15 planet carrier
16 针齿销	17 柱销套	18 轴销	16 gear pin	17 roller	18 pin
19 挡圈	20 轴承	21骨架油封	19 circlip	20 bearing	21 oil seal
22 电机轴	23 针齿壳	24端盖	22 motor shaft	23 pin wheel housing	24 input shaft
25 电机			25 motor		

▶ 使用与维护 / Use and maintance

1 工作环境温度不大于40℃。
2 减速机最高工作温度不大于80℃。
3 减速机使用油品见说明书。

1/ the ambient temperature less than 40℃.
2/ the working temperature less than 80℃.
3/ the type of the oil see product sample.

▶ 电机的选用 / About electric motor.

1 本系列减速机直联配用三相普通电机。
2 本系列减速机亦可配用其它IEC标准输出法兰电机。

1/ Y series motor are designed with gear.
2/ we can supply other series motor,IEC flange on page 16.
3/ the technical data and mounting dimensions about motor on page 16.

▶ 其他说明 / others

1 用户要求特殊定制时，请详细注明。

1/ please sign clearly if customers need specia design

► 技术参数(单级) / Technical data(single stage)

X系列(等同天津标准)		1	2	3	4	5	6	7	8	9	10	11
B系列(等同上海标准)		09	10	11	12	13	14		15	16	17	18
B系列(等同机械部标准)			12	15	18	22	27		33	39	45	55
减速比 ratic	输出轴转速r/min 4极，6极 output shaft 4 poles,6 poles / 输入功率kw input power kw / 最大许用输出转矩N.m Allowed maximum torque N.m	70	150	250	500	1000	2000	2700	4500	9000	12000	20000
9	167 / 111	0.75 0.55	1.5 1.1	2.2 1.5	4 3	11 7.5	15 11					
11	36 / 91	0.55 0.37	1.5 1.1	2.2 1.5	4 3	7.5 5.5	11 7.5	15 11	18.5 15	22 18.5	45 37	55 45
17	88 / 59		0.75 0.55	1.5 1.1								
23	60 / 40	0.37 0.25	0.55 0.37		2.2 1.5	5.5 4		11 7.5	15 11	18.5 15	30 22	45 37
29	52 / 5	0.25	0.55 0.37	1.1 0.75								
35	43 / 29				1.5 1.1	4 3	7.5 5.5				22 18.5	37 30
43	38 / 23	0.25	0.25	0.55		3 2.2	5.5 4	7.5 5.5	11 7.5	15 11		
59	25 / 17				1.1 0.75	2.2 1.5	4 3	5.5 4	7.5 5.5	11 7.5	15 11	30 22
71	21 / 14				0.75	1.5	3 2.2		5.5 4	7.5 5.5		22 18.5
87	17 / 12						2.2	4 3		5.5 4	11	18.5 15

注：配用18.5kW及18.5kW以上电机均使用6极电机，其余功率电机4极及6极均可使用。

说明：输出转矩计算公式：$M_2=KA\cdot 9550\cdot P\cdot i\cdot \eta/n_1$

KA----使用系数(见第2页)

P------电动机额定功率(kW)

I------减速机减速比

n_1---1500r/min或1000r/min

η ----传动效率 $\eta\geqslant 92\%$(i=9-43)

$\eta\geqslant 87\%$(i=59-87)

计算转矩M_2应不大于表中许用输出转矩

Note:output torque is performed using the following formula:

$M_2=KA\cdot 9550\cdot P\cdot i\cdot \eta/n_1$

KA----working service factor(on page 2)

P------motor power(kW)

i------ratio

η ----transnission effeciency

n_1----1500r/min or 1000r/min $\eta\geqslant 92\%$(i=9-43), $\eta\geqslant 87\%$(i=59-87)

The result would less than permitted output torque

DOFINE 东方传动

X、B series cyloidal reducer
X、B系列摆线针轮减速机

► 技术参数(双级) / Technical data(2-stage)

X系列(等同天津标准) X series(equivalent to tianjin standard)		31	42	53	63	74	84	85	95	106	116	117
B系列(等同上海标准) B series(equivalent to shanghai standard)		1109	120	131	141		152	153	163	163	184	
B系列(等同机械部标准) B series(equivalent to standard of ministry of machine-building industry)			1812	2215	2715		3318	3322	3922	4527	5527	
输入转速 input speed		1500r/min										
输出转速 r/min out speed r/min	减速比 ratio / 输入功率 input power KW / 最大许用输出转矩N.m Allowed maximum torque N.m	250	500	1000	2000	2700	4500	4500	9000	12000	20000	20000
12.4	121(11×11)	0.37 0.25	1.1 0.75	1.5 1.1	1.5 1.1	3 2.2	3 2.2	5.5 4	5.5 4	11 7.5	11 7.5	11 7.5
8.0	187(17×11)	0.37 0.25	0.75 0.55	1.1 0.75	1.5 1.1	3 2.2	3 2.2	4 3	5.5 4	7.5 5.5	7.5 5.5	7.5 5.5
5.2	289(17×17)	0.18 0.12	0.55 0.37	0.75 0.55	1.1 0.75	2.2 1.5	2.2 1.5	3 2.2	4 3	7.5 5.5	7.5 5.5	7.5 5.5
4.7	319(29×11)		0.37	0.75 0.55	1.1 0.75	1.5 1.1	2.2 1.5	3 2.2	4 3	7.5 5.5	7.5 5.5	7.5 5.5
3.2	473(43×11)		0.25	0.55 0.37	0.75 0.55	1.1 0.75	1.5 1.1	2.2 1.5	3 2.2	5.5 4	5.5 4	5.5 4
2.5	595(35×17)		0.25	0.55 0.37	0.55 0.37	0.75 0.55	1.5 1.1	1.5 1.1	2.2 1.5	4 3	5.5 4	5.5 4
2.0	731(43×17)		0.25	0.37	0.55 0.37	0.75 0.55	1.1 0.75	1.5 1.1	2.2 1.5	4 3	4 3	4 3
1.8	841(29×29)		0.25	0.37	0.37	0.55	1.1 0.75	1.1	1.5 1.1	3 2.2	4 3	4 3
1.5	1003(59×17)		0.25	0.37	0.37	0.55	0.75	1.1	1.5 1.1	2.2 1.5	3	3
1.2	1225(35×35)		0.25	0.37	0.37	0.55	0.75	1.1	1.1	2.2 1.5	3	3
1.0	1505(43×35)		0.25	0.37	0.37	0.55	0.75	1.1	1.1	1.5	3	3
0.8	1849(43×35)		0.25	0.37	0.37	0.55	0.75	1.1	1.1	1.5	3	3
0.7	2065(59×35)		0.25	0.37	0.37	0.55	0.75	1.1	1.1	1.5	3	3
0.6	2537(59×43)		0.25	0.37	0.37	0.55	0.75	1.1	1.1	1.5	3	3
0.4	3481(59×59)			0.37	0.37	0.55	0.75	1.1	1.1	1.5	3	3
0.3	5133(87×59)			0.37	0.37	0.55	0.75	1.1	1.1	1.5	3	3

说明：输出转矩计算公式：$M_2=KA\cdot 9550\cdot P\cdot i\cdot \eta/n_1$

KA----使用系数(见第2页)

P------电动机额定功率(kW)

I------减速机减速比

n_1---1500r/min

η ----传动效率 $\eta\geqslant 92\%$(i=9-43)

$\eta\geqslant 87\%$(i=59-87)

计算转矩M_2应不大于表中许用输出转矩

Note:output torque is performed using the following formula:

$M_2=KA\cdot 9550\cdot P\cdot i\cdot \eta/n_1$

KA----working service factor(on page 2)

P------motor power(kW)

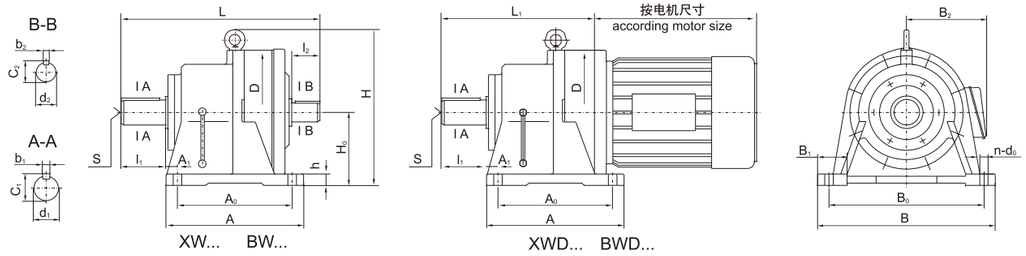
i-------ratio

n_1----1500r/min

η -----transnission effeciency $\eta\geqslant 92\%$(i=9-43), $\eta\geqslant 87\%$(i=59-87)

The result would less than permitted output torque.

► 安装及外形尺寸 / mounting dimensions



► X系列单级卧式外形及安装尺寸 / Dimensions of single stage foot–mounted cycloidal reducer in X series

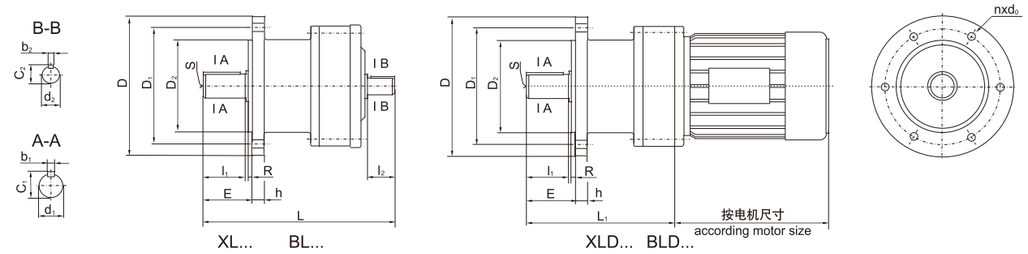
机型号 type	安装尺寸 mounting dimensions									轴伸尺寸 shaft dimensions								外形尺寸overall dimensions						重量 Weight
										输出轴 Output shaft				输入轴 input shaft										
	H_0	A_1	A_0	B_1	B_0	h	s	n	d_0	d_1(h6)	b_1	c_1	l_1	d_2(h6)	b_2	c_2	l_2	A	B	H	D	L	L_1	kg
1	100	25	90	40	150	12	M8	4	12	25	8	28	35	15	5	17	25	120	180	175	150	202	141	8
2	100	53	90	45	180	15	M8	4	12	25	8	28	34	15	5	17	25	120	210	175	168	212	156	14
3	140	95	100	55	250	20	M8	4	16	35	10	38	55	18	6	20.5	35	150	290	240	200	266	192	29
4	150	95	145	65	290	22	M10	4	16	45	14	48.5	74	22	6	24.5	40	195	330	275	240	324	240	45
5	160	115	150	75	370	25	M12	4	16	55	16	59	91	30	8	33	45	260	420	356	300	399	310	92
6	200	36	275	75	380	30	M12	4	18	65	18	69	89	35	10	38	54	335	430	425	340	470	353	131
7	220	36	320	85	420	30	M12	4	22	80	22	85	109	40	12	43	65	380	470	460	360	522	391	165
8	250	35	380	120	480	35	M16	4	22	90	25	95	120	45	14	48.5	70	440	530	529	430	581	446	245
9	290	45	480	120	560	40	M20	4	26	100	28	106	141	50	14	53.5	80	560	620	614	500	698	552	390
10	325	80	250*2	120	630	45	M24	6	30	110	28	116	150	55	16	59	100	600	690	706	580	806	610	564
11	420	122	330*2	160	800	50	2-M20	6	32	130	32	137	202	70	20	74.5	120	810	880	883	710	1042	808	1160

► B系列单级卧式外形及安装尺寸 / Dimensions of 1–stage foot–mounted cycloidal reducer in B series

机型号 type	安装尺寸 mounting dimensions									轴伸尺寸 shaft dimensions								外形尺寸overall dimensions						重量 Weight
										输出轴 Output shaft				输入轴 input shaft										
	H_0	A_1	A_0	B_1	B_0	h	s	n	d_0	d_1(h6)	b_1	c_1	l_1	d_2(h6)	b_2	c_2	l_2	A	B	H	D	L	L_1	kg
12	100	58	90	45	150	16	M8	4	11	30	8	33	35	15	5	17	25	120	185	190	168	215	161	18
15	140	95	100	55	250	20	M8	4	13	35	10	38	58	18	6	20.5	25	150	290	284	200	282	216	32
18	150	95	145	60	290	22	M10	4	17	45	14	48.5	82	22	6	24.5	40	195	330	318	240	352	276	40
22	160	113	150	75	370	25	M12	4	17	55	16	59	82	30	8	33	45	238	410	360	300	422	316	73
27	200	35	275	80	380	30	M12	4	22	70	20	74.5	105	35	10	38	54	335	430	435	340	490	383	120
33	250	35	380	85	480	35	M16	4	26	90	25	95	130	45	14	48.5	70	440	530	542	430	629	464	185
39	290	45	480	90	560	40	M20	4	26	100	28	106	165	50	14	53.5	80	560	620	619	500	730	556	330
45	325	80	250*2	105	630	45	M24	6	30	110	28	116	165	55	16	59	100	600	690	706	580	783	594	620
55	420	122	330*2	140	800	50	2-M20	6	36	130	32	137	200	70	20	74.5	120	810	880	880	710	966	733	1180

DOFINE 东方传动
X、B series cyloidal reducer
X、B系列摆线针轮减速机

► 安装及外形尺寸 / mounting dimensions



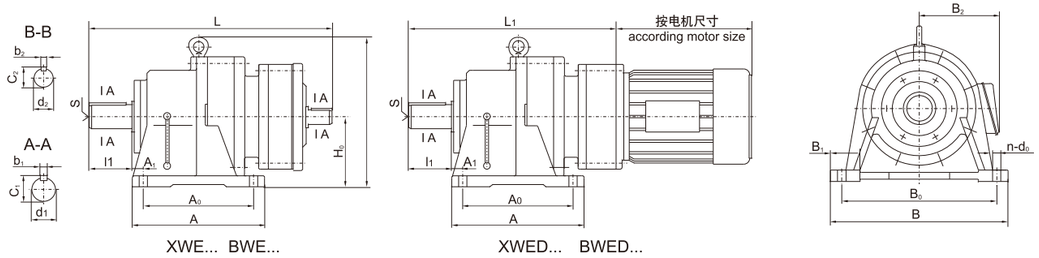
► X系列单级立式外形及安装尺寸 / Dimensions of single stage foot–mounted cycloidal reducer in X series

机型号 type	安装尺寸 mounting dimensions								轴伸尺寸 shaft dimensions								外形尺寸 overall dimensions			重量 Weight
									输出轴 Output shaft				输入轴 input shaft							
	D_1	D_2(h8)	E	h	R	S	n	d_0	d_1(h6)	b_1	c_1	l_1	d_2(h6)	b_2	c_2	l_2	D	L	L_1	kg
1	134	110	48	9	3	M8	4	12	25	8	28	35	15	5	17	25	160	202	141	8
2	160	130	42	12	3	M8	6	12	25	8	28	34	15	5	17	25	180	212	156	13
3	200	170	50	15	4	M8	6	12	35	10	38	45	18	6	20.5	35	230	266	192	26
4	230	200	79	15	4	M10	6	12	45	14	48.5	64	22	6	24.5	40	260	324	240	38
5	310	270	90	20	4	M12	6	12	55	16	59	79	30	8	33	45	340	399	310	93
6	360	316	91	22	5	M12	8	16	65	18	69	80	35	10	38	54	400	470	353	138
7	390	345	112	22	5	M12	8	18	80	22	85	98	40	12	43	65	430	522	391	160
8	450	400	111	30	6	M16	12	18	90	25	95	110	45	14	48.5	70	490	581	446	240
9	520	455	169	35	8	M20	12	22	100	28	103	130	50	14	53.5	80	580	698	552	370
10	590	520	174	40	10	M24	12	22	110	28	116	140	55	16	59	100	650	806	610	622
11	800	680	210	45	10	2-M20	12	38	130	32	137	184	70	20	74.5	120	880	1042	808	1210

► B系列单级立式外形及安装尺寸 / Dimensions of 1–stage foot–mounted cycloidal reducer in B series

机型号 type	安装尺寸 mounting dimensions								轴伸尺寸 shaft dimensions								外形尺寸 overall dimensions			重量 Weight
									输出轴 Output shaft				输入轴 input shaft							
	D_1	D_2(h8)	E	h	R	S	n	d_0	d_1(h6)	b_1	c_1	l_1	d_2(h6)	b_2	c_2	l_2	D	L	L_1	kg
12	160	140	39	12	3	M8	4	11	30	8	33	35	15	5	17	25	190	215	161	15
15	200	170	65	16	4	M8	6	14	35	10	38	58	18	6	20.5	35	230	282	216	45
18	230	200	89	20	4	M10	6	14	45	14	48.5	82	22	6	24.5	40	260	352	276	64
22	310	270	89	22	4	M12	6	14	55	16	59	82	30	8	33	45	340	422	316	111
27	360	316	114	26	5	M12	8	18	70	20	74.5	105	35	10	38	54	400	490	383	171
33	450	400	140	30	6	M16	12	22	90	25	95	130	45	14	48.5	70	490	629	464	29
39	520	455	177	35	8	M20	12	22	100	28	106	165	50	14	53.5	80	580	736	556	400
45	590	520	180	40	10	M20	12	28	110	28	116	165	55	16	59	100	650	783	594	612
55	800	680	215	45	10	2-M20	12	34	130	32	137	200	70	20	74.5	120	880	966	733	1116

▶ 安装及外形尺寸 / mounting dimensions



XWE... BWE... XWED... BWED...

▶ X系列双级卧式外形及安装尺寸 / Dimensions of 2–stage foot–mounted cycloidal reducer in X series

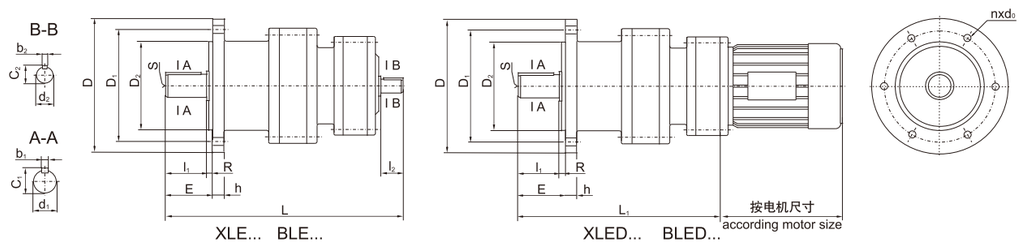
机型号 type	安装尺寸 mounting dimensions									轴伸尺寸 shaft dimensions								外形尺寸 overall dimensions						重量 Weight
										输出轴 Output shaft				输入轴 input shaft										
	H_0	A_1	A_0	B_1	B_0	h	s	n	d_0	d_1(h6)	b_1	c_1	l_1	d_2(h6)	b_2	c_2	l_2	A	B	H	D	L	L_1	kg
31	140	96	100	55	250	20	M8	4	16	35	10	38	55	15	5	17	25	150	290	240	200	310	258	37
42	150	95	145	65	290	22	M10	4	16	45	14	48.5	74	15	5	17	25	195	330	275	240	384	318	75
53	160	115	150	75	370	25	M12	4	18	55	16	59	91	18	6	20.5	35	260	420	356	300	457	398	94
63	200	36	275	75	380	30	M12	4	22	65	18	69	89	18	6	20.5	35	335	430	425	340	519	440	148
74	220	36	320	85	420	30	M12	4	22	80	22	85	109	22	6	24.5	40	380	470	460	360	589	508	193
84	250	35	380	120	480	35	M16	4	22	90	25	95	120	22	6	24.5	40	440	530	529	430	633	560	270
85	250	35	380	120	480	35	M16	4	22	90	25	95	120	30	8	33	45	440	530	529	430	656	582	310
95	290	45	480	120	560	40	M20	4	26	100	28	106	141	30	8	33	45	560	620	614	500	745	684	485
106	325	80	250*2	120	630	45	M24	6	30	110	28	116	150	35	10	38	54	600	690	706	580	855	760	650
116	420	122	330*2	160	800	50	2-M20	6	32	130	32	137	202	35	10	38	54	810	880	883	710	1066	958	1232
117	420	122	330*2	160	800	50	2-M20	6	32	130	32	137	202	40	12	43	65	810	880	883	710	1081	968	1280

▶ B系列双级卧式外形及安装尺寸 / Dimensions of 2–stage foot–mounted cycloidal reducer in B series

机型号 type	安装尺寸 mounting dimensions									轴伸尺寸 shaft dimensions								外形尺寸 overall dimensions						重量 Weight
										输出轴 Output shaft				输入轴 input shaft										
	H_0	A_1	A_0	B_1	B_0	h	s	n	d_0	d_1(h6)	b_1	c_1	l_1	d_2(h6)	b_2	c_2	l_2	A	B	H	D	L	L_1	kg
1812	150	95	145	60	290	22	M10	4	17	45	14	48.5	82	15	5	17	25	195	330	318	240	384	326	75
2215	160	113	150	75	370	25	M12	4	17	55	16	59	82	18	6	20.5	35	238	410	360	300	473	407	100
2715	200	35	275	80	380	30	M12	4	22	70	20	74.5	105	18	6	20.5	35	335	430	435	340	540	474	150
3322	250	35	380	85	480	35	M16	4	26	90	25	95	130	30	8	33	45	440	530	542	430	706	691	364
3922	290	45	480	90	560	40	M20	4	26	100	28	106	165	30	8	33	45	560	620	619	500	796	691	472
4527	325	80	250*2	105	630	45	M20	4	34	110	28	116	165	35	10	38	54	600	690	706	580	856	749	726
5527	420	122	332*2	140	800	50	2-M20	6	36	130	32	137	200	35	10	38	54	810	880	880	710	1076	975	1286

DOFINE 东方传动
X、B series cyloidal reducer
X、B系列摆线针轮减速机

▶ 安装及外形尺寸 / mounting dimensions



XLE... BLE... XLED... BLED...

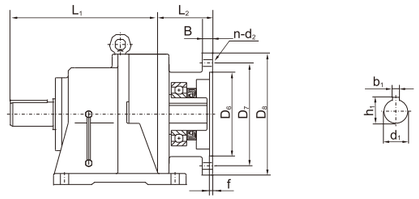
▶ X系列双级立式外形及安装尺寸 / Dimensions of 2–stage flange–mounted cycloidal reducer in X series

机型号 type	安装尺寸 mounting dimensions								轴伸尺寸 shaft dimensions								外形尺寸 overall dimensions			重量 Weight
									输出轴 Output shaft				输入轴 input shaft							
	D_1	D_2(h8)	E	h	R	S	n	d_0	d_1(h6)	b_1	c_1	l_1	d_2(h6)	b_2	c_2	l_2	D	L	L_1	kg
31	200	170	50	15	4	M8	6	12	35	10	38	45	15	5	17	25	230	310	258	35
42	230	200	79	15	4	M10	6	12	45	14	48.5	64	15	5	17	25	260	384	318	75
53	310	270	90	20	4	M12	6	12	55	16	59	79	18	6	20.5	35	340	457	400	94
63	360	316	91	22	5	M12	8	16	65	18	69	80	18	6	20.5	35	400	519	442	149
74	390	345	112	22	5	M12	8	18	80	22	85	98	22	6	24.5	40	430	589	502	193
84	450	400	111	30	6	M16	12	18	90	25	95	110	22	6	24.5	40	490	633	560	280
85	450	400	171	30	6	M16	12	18	90	25	95	110	30	8	33	45	490	656	582	310
95	520	455	169	35	8	M20	12	22	100	28	106	130	30	8	33	45	580	745	688	495
106	590	520	174	40	10	M20	12	22	110	28	116	140	35	10	38	54	650	855	760	667
116	800	680	210	45	10	2-M20	12	38	130	32	137	184	35	10	38	54	880	1066	958	1232
117	800	680	210	45	10	2-M20	12	38	130	32	137	184	40	12	43	65	880	1081	968	1290

▶ B系列双级立式外形及安装尺寸 / Dimensions of 2–stage flange–mounted cycloidal reducer in B series

机型号 type	安装尺寸 mounting dimensions								轴伸尺寸 shaft dimensions								外形尺寸 overall dimensions			重量 Weight
									输出轴 Output shaft				输入轴 input shaft							
	D_1	D_2(h8)	E	h	R	S	n	d_0	d_1(h6)	b_1	c_1	l_1	d_2(h6)	b_2	c_2	l_2	D	L	L_1	kg
1812	230	200	89	20	4	M10	6	14	45	14	48.5	82	15	5	17	25	260	384	326	72
2215	310	270	89	22	4	M12	6	14	55	16	59	82	18	6	20.5	35	340	473	407	94
2715	360	316	114	26	5	M12	8	18	70	20	74.5	105	18	6	20.5	35	400	540	747	150
3318	450	400	140	30	6	M16	12	22	90	25	95	130	22	6	24.5	40	490	633	552	280
3322	450	400	140	30	6	M16	12	22	90	25	95	130	30	8	33	45	490	706	601	364
3922	520	455	177	35	8	M20	12	22	100	28	106	165	30	8	33	45	580	796	691	472
4527	590	520	180	40	10	M20	12	28	110	28	116	165	35	10	38	54	650	886	749	696
5527	800	680	215	45	10	2-M20	12	34	130	32	137	200	35	10	38	54	880	998	891	1280

▶ 安装及外形尺寸 / Mounting dimensions

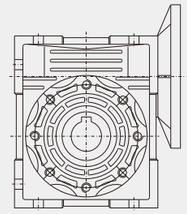


说明：本安装尺寸为IEC电机法兰连接用
Note:the dimensions are supplied for IECmotor

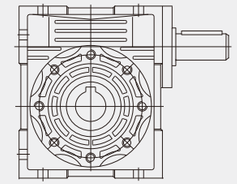
机型号type	电机功率 motro power	电机型号 motro type	尺寸 Dimensions												
			d_1		b_1	h_1	D_6		D_7	D_8	f	B	n	d_2	L_2
1	0.25	71	14	F7	5	16.3	110	H8	130	160	4	12	4	10	68
	0.37														
	0.55	801	19		6	21.8	130		165	200	4	12	4	12	78
	0.75	802													
2	0.37	71	14		5	16.3	110		130	160	4	12	4	10	70
	0.55	801	19		6	21.8	130		165	200	4	12	4	12	77
	0.75	802													
3	0.37	71	14		5	16.3	110		130	160	4	12	4	10	72
	0.55	801	19		6	21.8	130		165	200	4	12	4	12	88
	0.75	802													
	1.1	90S	24		8	27.3	130		165	200	4	15	4	12	95
	1.5	90L													
	2.2	100L	28		8	31.3	180		215	250	5	15	4	15	100
4	0.75	802	19		6	21.8	130		165	200	4	12	4	12	88
	1.1	90S	24		8	27.3	130		165	200	4	15	4	12	95
	1.5	90L													
	2.2	100L	28		8	31.3	180		215	250	5	17	4	15	112
	3	100L													
	4	112M													
	5.5	132S	38		10	41.3	230		265	300	5	17	4	15	141
5	1.5	90L	24		8	27.3	130		165	200	4	15	4	12	101
	2.2	100L	28		8	31.3	180		215	250	5	17	4	15	117
	3	100L													
	4	112M													
	5.5	132S	38		10	41.3	230		265	300	5	17	4	15	140
	7.5	132M													
6	2.2	100L	28		8	31.3	280		215	250	5	17	4	15	113
	3	100L													
	4	112M													
	5.5	132S	38		10	41.3	230		265	300	5	17	4	15	142
	7.5	132M													
	11	160M	42		12	45.3	250		300	350	6	20	4	19	185
	15	160L													
7	4	112M	28		8	31.3	180	G8	215	250	5	15	4	15	120
	5.5	132S	38		10	41.3	230		265	300	5	17	4	15	143
	7.5	132M													
	11	160M	42		12	45.3	250		300	350	6	20	4	19	185
	15	160L													
8	7.5	132M	38		10	41.3	230		265	300	5	17	4	15	142
	11	160M	42		12	45.3	250		300	350	6	20	4	19	193
	15	160L													
	18.5	200L	55		16	59.3	80		300	350	6	25	4	19	182
9	11	160M	42	E7	12	45.3	250		300	350	6	20	4	19	187
	15	160L													
10	30	200L	55		16	59.3	80		300	350	6	25	4	19	200
11		200L	55		16	59.3	80		600	350	6	25	4	19	256

▶ 结构代号 / structure code

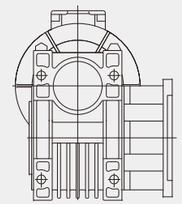
NMRV



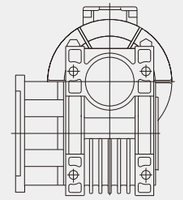
NRV



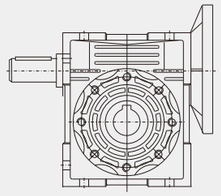
F1



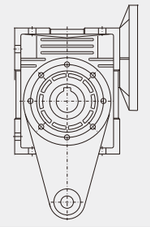
F2



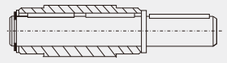
VS



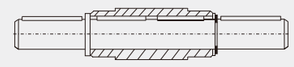
T



AS



AB



▶ 使用与维护 / Use and maintance

1 工作环境温度不大于40℃。
2 减速机最高工作温度不大于80℃。
3 减速机出厂已加注润滑油。
4 减速机使用专用润滑油。

1/ the ambient temperature less than 40℃
2/ the working temperature less than 80℃
3/ reducer are supplied with oil
4/proprietary oil to lubricate

▶ 电机的选用 / about electric motor

1 本系列减速机配用其它IEC标准输出法兰电机。

1/ this series reducers are supplied with IECstandard flange

▶ 其它说明 / other

1 用户要求特殊定制时，请详细注明。
2 本系列减速机可以双级串联使用。

1/ please sign clearly if customers need specia design
2/ this series reducer can be added in series