



浙江侨邦精密电机有限公司
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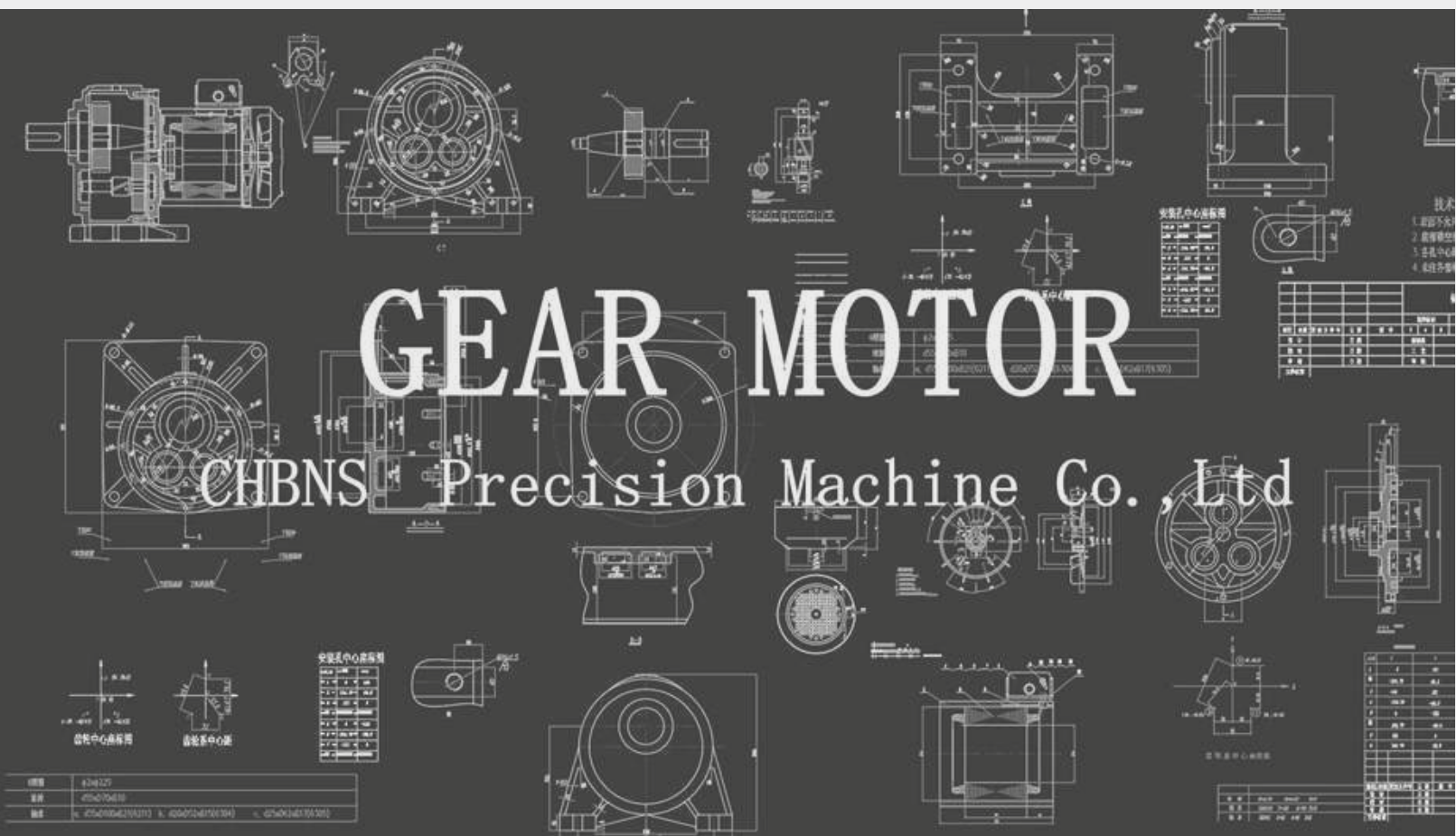
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G Series Gear Reduction Motor

G系列小型齿轮减速电机

We are committed to continuous improvement



Dedicated to exceeding your expectations

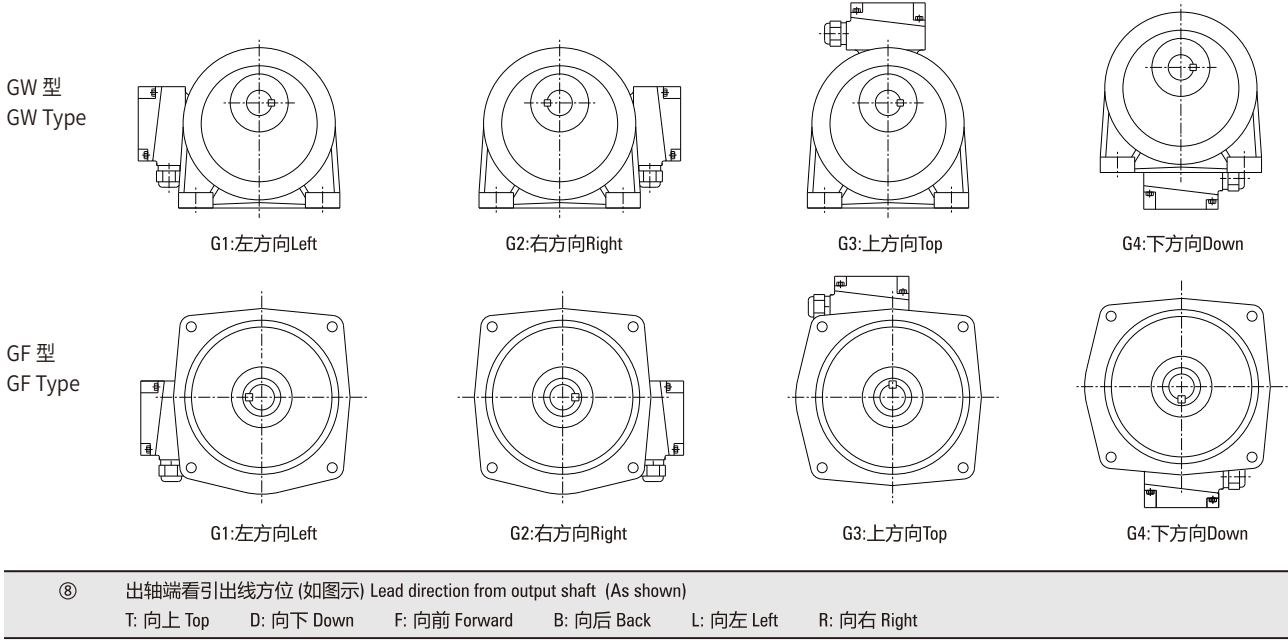
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小型交流减速电机型号说明方法
TYPE AND MOTOR MODEL

减速电机型号说明 Description Of Motor Model

GLW(GLF)	-	22	-	100	-	50	-	SZ	-	B	-	G1	-	LD	-	Q1
①		②		③		④		⑤		⑥		⑦		⑧		⑨
①	G:型号代码 L(H):箱体材质 L代表铝 H代表铸铁 G: Model code L(H): Cabinet material (L stands for aluminum, H stands for cast iron) W(F):W卧地脚安装 F立 法兰安装 W(F): W for horizontal foot mounting, F for vertical flange mounting															
②	出力轴直径 Output shaft diameter: 18 22 28 32 40 50															
③	输出功率 Output: 100W, 200W, 400W, 750W, 1100W, 1500W, 2200W, 3000W, 3700W, 5500W															
④	齿轮箱的减速比 Gear ratio: 3, 5, 10...1800															
⑤	电机的基本结构 Motor basic data: S: 三相电机 3-Phase motor, 220-240/380-415V, 50/60Hz C: 单相电机 1-Phase motor, 220V, 50/60Hz E: 单相电机 1-Phase motor, 110V, 50/60Hz DV: 单相双电压电机 Double voltage motor, 110V/220V, 50/60Hz Z: 缩框型减速电机 Light type duty (标准型省略 Standard type omit)															
⑥	刹车器 Brake unit B: DC断电刹车器 Brake unit (另配交变直快速整流器 With quick rectifier from AC to DC) YB: 手持放刹车器 Manual brake unit F1: 110V轴流风机, F2: 220V轴流风机, F3: 380V轴流风机 F1: 110V axial fan, F2: 220V axial fan, F3: 380V axial fan															
⑦	出轴端看接线盒方位 (如图示) Terminal box direction from output shaft (As shown) G1: 左方向 Left G2: 右方向 Right G3: 上方向 Top G4: 下方向 Down															



技术资料
TECHNICAL DATA

电机基本规范 Motor Specification

项目 Item	三相电机 3-Phase Motor	单相电机 1-Phase Motor
防护等级 Protection	铝合金壳接线盒为IP54, 铁壳接线盒为IP20 IP54 with alum alloy terminal box, and other is IP20	
外壳材质 Frame material	100W~3700W机壳为铝合金, 1#, 2#, 3#, 4#齿轮箱为铝合金, 5#, 6#齿轮箱为铸铁 Alum alloy for 100W~2200W frame, alum alloy for 1#, 2#, 3#, 4# gear case, 5#, 6# cast iron for others	
工作方式 Duty	连续运转 / Continuous running S1工作制 Duty: S1	
绝缘等级 INS.class	B级(F级)可选/Optional 常规B级 (F级可选) Regular class B (Class F can choose)	
适用环境 Environment	温度 / Temp:-10℃~+40℃ 湿度 / Humidity:≤90%	
使用电压 Voltage	220-240/380-415V, 50/60Hz	110V/50/60Hz, 220V/50/60Hz
极数 Pole	4P (6P)	4P
海拔 Height	≤1000m	
起动方式 Starting	全压起动 Driect start	0.1-0.2Kw单电容起动 Capacitor 0.4-1.5Kw双电容起动 Double capacitors
依据标准 Standard	GB755/IEC-60034	

单相电机配套电容值，电容运转形式 Capacitor For 1-phase Motor, C-running Type

输出功率 Output Power	运转电容 Running Capacitor	起动电容 Starting Capacitor	运转电容+起动电容 (离心开关) Running+Starting Capacitor (Ceutrifugal Switch)
100W, 1/8HP	8μF/450V	/	/
200W, 1/4HP	12μF/450V	/	/
400W, 1/2HP	/	/	15μF/450V+75μF/250V
750W, 1HP	/	/	20μF/450V+150μF/250V
1500W, 2HP	/	/	40μF/450V+200μF/250V

刹车性能说明 Function For Brake Unit

输出功率 Output Power	允许最高转速 Permit Max Rpm	刹车制动力 Torque (kg.m)	刹车间隙 Clearance (mm)	重量 Weight (kg)
1/8HP4P-1/4HP4P (100W-200W)	4000	0.15-0.4	0.25-0.5	2.0
1/2HP4P-1HP4P (400W-750W)	3600	0.25-0.7	0.25-0.5	4.3
1.5HP4P-2HP4P (1100W-1500W)	3600	0.92-2.0	0.25-0.5	6.3
3HP4P-5HP4P (2200W-3700W)	3600	1.80-3.5	0.25-0.5	7.0

接线方式
WIRING DIAGRAM

三相电机接线方式
FOR3-PHASE MOTOR

三相电机接线方式 FOR 3-PHASE MOTOR

U+Z

V+X

W+Y

A

B

C

Δ接法/220V-240V

X.Y.Z

U

V

W

A

B

C

Y接法/380V-415V

三相电机与刹车器接线方式
THE CONNECTION MODE FOR THREE PHASE MOTOR AND BRAKE

刹车器
Brake

U+Z

V+X

W+Y

A

B

C

Δ接法/220V-240V

刹车器
Brake

X.Y.Z

U

V

W

A

B

C

Y接法/380V-415V

※注: 刹车器两根电源线接任意两根接线端。
Note: Brake wires can connect to either pin.

※注: 刹车器电源线一根接电机公共端，另外一根接电机任意一组。
Note: One of brake wire connect to motor public and the other wire connects to either motor wire.

单相电机接线方式
FOR1-PHASE MOTOR
C表示电容
C FOR CAPACITOR

单相单电容连接方法
SINGLE-PHASE SINGLE-CAPACITOR CONNECTION METHOD

电容(capacitance)

蓝

黄

红

(blue)

(Yellow)

(Red)

W

V

U

220V

CW

电容(capacitance)

蓝

黄

红

(blue)

(Yellow)

(Red)

W

V

U

220V

CCW

单相双电容带电子离心开关接法
WIRING METHOD FOR SINGLE-PHASE DUAL-CAPACITOR WITH ELECTRONIC CENTRIFUGAL SWITCH

RECS

红

V₂

白

U₂黑

U₁

蓝

C_R

C_S

AC220

CW

RECS

红

V₂

白

U₁黑

U₂

蓝

C_R

C_S

AC220

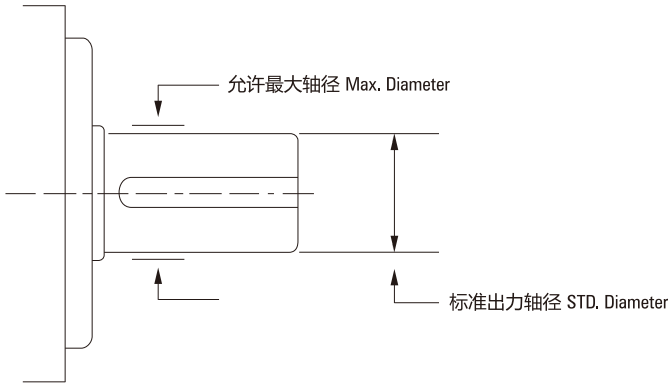
CCW

※备注：电机变频时，刹车器请单独接电源。电机使用频率低于30Hz时，必须带轴流风机，轴流风机须单独接电源。
※Note: Please connect brake wire to power single when motor frequency converts. Motor must match a separate fan when run under 30Hz.

04

技术资料
TECHNICAL DATA

■ 输出轴允许最大轴径 Available Max Output Shaft Diameter

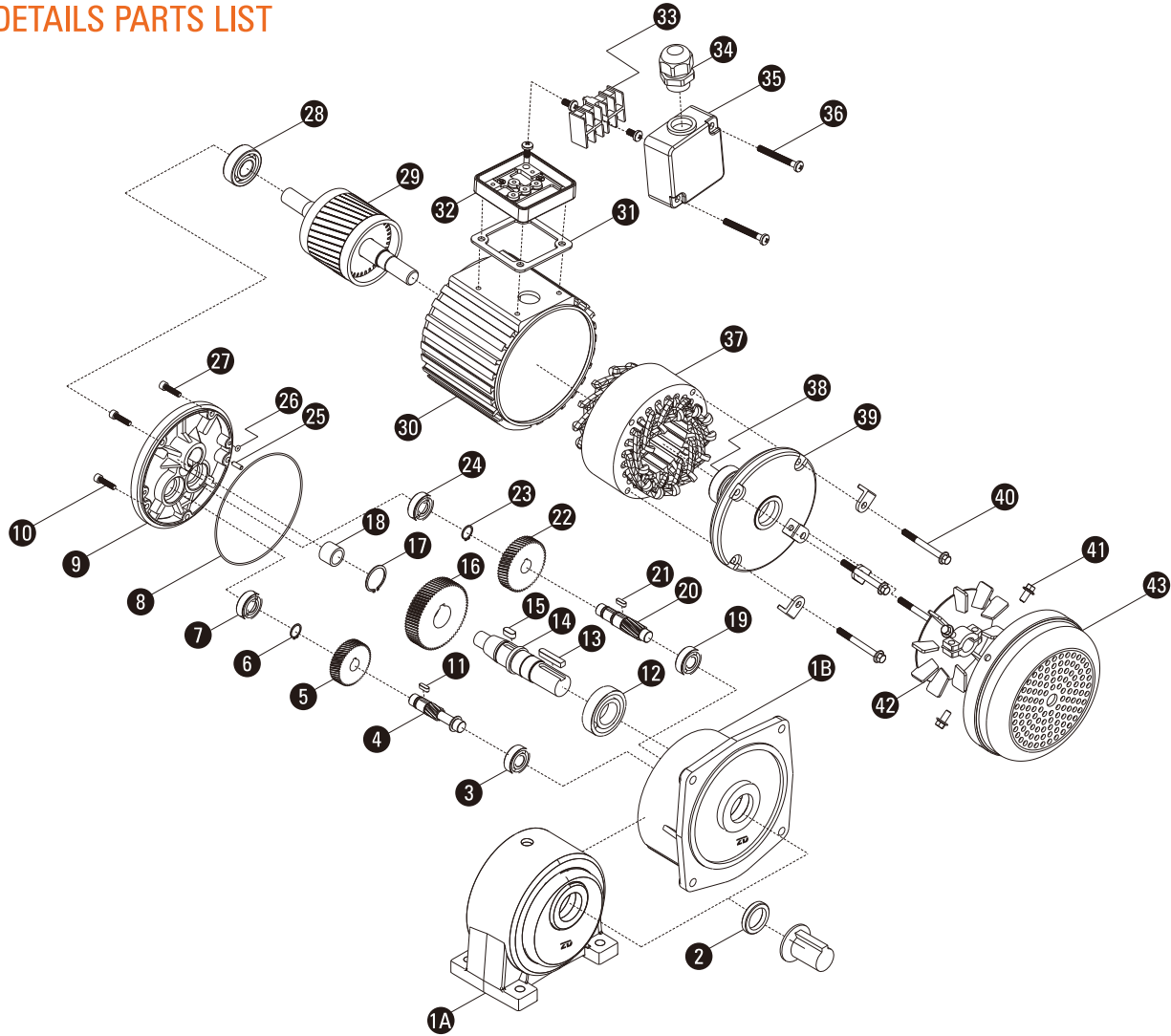


齿轮箱型号 Gear Box	标准出轴直径 Atanddre Output Shaft Dia	最大允许直径 Max Availablet Shaft Dia	输出端轴承 Output Eed Bearing
1#	Φ18	Φ20	6004
2#	Φ22	Φ25	6205
3#	Φ28	Φ30	6206
4#	Φ32	Φ35	6207
5#	Φ40	Φ45	6209
6#	Φ50	Φ55	6211

■ 减速电机各零件部分大致说明 Main Parts Notes

部件名称 Parts Name	说明 Notes
箱体 Gearbox	1#、2#、3#、4#箱体出轴直径为18、22、28、32，箱体采用铝合金，5#、6#箱体出轴直径为40、50，箱体采用铸铁。 The output shaft diameter of gearbox 1#、2#、3#、4# are 18、22、28、32 separately. The material of gearbox is Al. alloy. 5#、6# are 40、50 respectively. Gearbox is made of cast iron.
齿轮片 Gear piece	齿轮材料为40Cr，调质HB280，高精度滚齿，齿部高频淬火HRC50，齿面磨齿，齿轮精度6级。 The material 40Cr mixes to HB280, then dealt with high frequency quencher HRC50. Gear should be processed by milling with high precision. The class is 6.
齿轮轴 Gear shaft	齿轮材料为20CrMnTi，高精度滚齿，渗碳淬火HRC60，齿面二次刮削，精度6级。 The material 20CrMnTi will be changed into HRC60 through processing of cementite quencher. Gear shaft will be processed with gear hobbing. Precision class is 6.
电机轴 Motor shaft	齿轮材料为20CrMnTi，高精度滚齿，渗碳淬火HRC60，齿面二次刮削，精度6级。 The material 20CrMnTi will be changed into HRC60 through processing of cementite quencher. Gear shaft will be processed with gear hobbing. Precision class is 6.
轴承 Ball bearing	电机部分轴承采用高精度等级精密轴承，以确保长期运转寿命。 We adopt tight bearing with high precision, to make sure longterm running life.
油封 Oil seal	电机轴以耐高温油封为主，可有效防止油脂渗漏。 Gear shaft gives priority to enduring high temp, avoiding oil infiltration.
接线盒 Terminal box	有两种：一种是铝合金接线盒，有较好的防水及防尘性能，防护等级为IP54。 另外一种是铁壳的接线盒，结构轻巧，防护等级IP20。 Two type. One is Al alloy, which equipes good capability of waterproof and dustproof. Protection grade is Ip54. The other is steel case with deft structure. Protection grade is IP20.

产品结构图
DETAILS PARTS LIST



■ 明细表 Parts List

序号 Item	名称 Name	序号 Item	名称 Name	序号 Item	名称 Name
1A	卧式 Horizontal housing	15	三级小齿轴键 Key-3RD pinion	30	机壳 Shell
1B	立式 Vertical housing	16	三级大齿轮 Gear-3RD stage	31	密封垫 A seal
2	输出轴油封 Oil seal-output shaft	17	C-挡圈 Snap ring	32	接线盒底座 Junction box base
3	二级齿轴承 Bearing-2ND stage pinion	18	输出轴自润轴承 Oilless bearing	33	接线端子 Terminal block
4	二级小齿轴 Pinion-3ND stage	19	二级齿轴承 Bearing-2ND stage pinion	34	锁紧器 Locking device
5	一级大齿轮 Gear-1ST stage	20	三级小齿轴 Pinion-2ND stage	35	接线盒盖 Junction box
6	C-挡圈 Snap ring	21	三级小齿轴键 Key-3RD stage pinion	36	固定螺钉 Fixed screw
7	二级齿轴承 Bearing-2ND stage pinion	22	二级大齿轮 Gear-2RD stage	37	定子总成 Stator
8	O型圈 Oil ring	23	C-挡圈 Snap ring	38	电机轴承 Bearing of shaft
9	电机前盖 Front cover	24	三级齿轴承 Bearing-3ND stage pinion	39	后端盖 Back cover
10	内六角螺钉 Hex-head screw	25	定位销 Pin	40	固定螺栓 Fixed bolt
11	二级小齿轴键 Key-2RD stage pinion	26	O型圈 Oil ring	41	内六角螺钉 Hex-head screw
12	输出轴承 Bearing-output shaft	27	内六角螺钉 Hex-head screw	42	风叶 Fan
13	输出轴键 Key-output shaft	28	电机轴承 Bearing of shaft	43	风罩 Fan cover
14	输出轴 Output shaft	29	转子 Rotor		

安全注意事项

SAFETY CAUTIONS

总体 General	请不要在齿轮箱及电机铭牌或产品目录的规格以外使用，以免触电，受伤及损坏装置等。 Please don't use motor out of the range which is clarified in of nameplate of gear box and motor and the specification of product catalogue, avoiding getting an electric shock, hurting or damaging the device. 请不要把手指或物品进入齿轮或电机开口部分，以免触电、受伤、发生火灾及损坏装置等。 Please do not put your fingers into the opening part of gear of motor, in order to prevent getting an electric shock, hurting catching a fire or damaging device etc. 请不要使用带伤的齿轮箱或电机，以免有可能受伤，发生火灾等。 Please do not use the injured gear head or motor, in order to prevent hurting, catching a fire etc. 请不要拆下铭牌。 Please do not put off the nameplate. 若客户对产品私自进行改造的，不属于保修范围，本公司不承担任何责任。 If the products are reformed by the customers personally, it no belongs to the guarantee scope, and our company doesn't undertake any responsibility.
搬动/Moving	搬动时，若发生脱落或倾倒，是很危险的，请充分注意。 When you move it, if it shed off or tit to one side, it is very dangerous, please pay more attention.
安装 Assembly	请绝对不要在齿轮箱和电机周围放置可燃物，以免发生火灾。 Please never put the flammable thing near and motor, for fear of a fire. 请不要在电机周围放置物品，影响电机通风、冷却，甚至因异常多热而烫伤或发生火灾。 Please do not put the things around motor, otherwise it can effect ventilation and cooling, even burning or catching a fire because of too hot. 裸手请不要触碰齿轮及电机轴端部、齿轮部的键槽，以免受伤。 Please do not touch the gear, the motor shaft and the key slot of the gear with naked hand, or you may be hurt. 在食品机械等可能发生漏油的装置中，请在安装部分另加一个能盛油的油杯，防止万一漏油对产品有不良的影响。 The device may creating the smoke, such as food machine, please add an oil cup assembly part, to prevent leaking oil which may have a bad effect on the products.
对主机械的连接 Assemble to the main machine	在旋转部分，请设安全罩等，防止受伤。 Please set a safe cover above the revolving part, to prevent being hurt. 在与对方机械连接前，请确认旋转方向。若旋转方向不正确，有可能受伤或破坏装置。 Before linking to the other machine, please confirm the revolving direction is not right, it may hurt the gear motor or destroy the device.
配线/Wiring	在测试绝缘电阻时，请不要接触端子，以免触电危险。 Please don't get in touch with terminal, when you measure insure insulated resistance, preventing danger of getting an electric shock.
运转 Operation	请按照接线图或使用说明书实施与电源的连接，以免触电或发生火灾。（无端子箱的，请切实加强连接部分的绝缘） Please link with the electric source according to wire diagram and usage manual, in order to prevent getting an electric shock or catching a fire. (no terminal box, please strengthen the insulation of the connection part surely) 对电源电缆和电机引线，请不要过分弯曲、拉伸、夹紧，以免触电危险。 Referring to the electrical source cable and the motor wire, please do not bend, stretch, and clip tightly excessively, in order to prevent getting an electric shock. 接地端子应牢固接地，以免触电危险。务必使用符合铭牌要求的电源，以免烧毁电机、发生火灾。 The terminal box connecting to the ground must be firm, in order to prevent getting an electric shock. Please adopt the electrical source according to the nameplate, to avoid burning the motor and catching a fire.
日常检查保养 The daily check and maintain	在运转中，绝对不要接近或接触旋转物体（轴等）。有卷入受伤时，请马上切断电源开关，及时处理。 When operating, do not get close to or touch the revolving parts (shaft). If something or somebody engulfs or hurts, Please turn off the electrical power switch right and handle at once. 停电时，请务必切断电源开关，防止来电后伤人或破坏装置。 Please turn off the electrical source switch when electricity stops, in order to prevent hurting the person and damaging the device. 请注意：带有热保护的电机，当电机温度异常时会自动切断电源，当电机温度下降到一定值时，电机会自动恢复工作。 （注：电机在没有烧坏的情况下，会自动复原） Please note, motor with the thermal protector, when temperature of the motor is unusual, it will turn off the electrical source automatically, when the temperature of the motor fall down to a fixed data, the motor can work automatically. (Note: when the motor is not burned-not, the motor can work automatically) 在平时时，保持电机在正常的工作环境工作运转。（特殊型号除外） In daily, you should keep the motor operating in the normal work environment. (Except the special model) 检查时，请绝对不要接触旋转物体（轴等）。有可能被卷入、受伤。 While checking, please do not get close to or touch the revolving parts (shaft). Something or somebody may engulf of hurt.
接受货物时检查 Receiving confirm	请确认现货是否和订货一样。选择错误的产品，有可能导致电机受损或破坏装置等。 Please confirm if it is the right one with the order when receiving. Choosing wrong probably leads to damage of motor of damage the device and etc.

故障排除

TROUBLE SHOUTING

直流刹车故障排除

Trouble Shouting For Dc Brake Unit

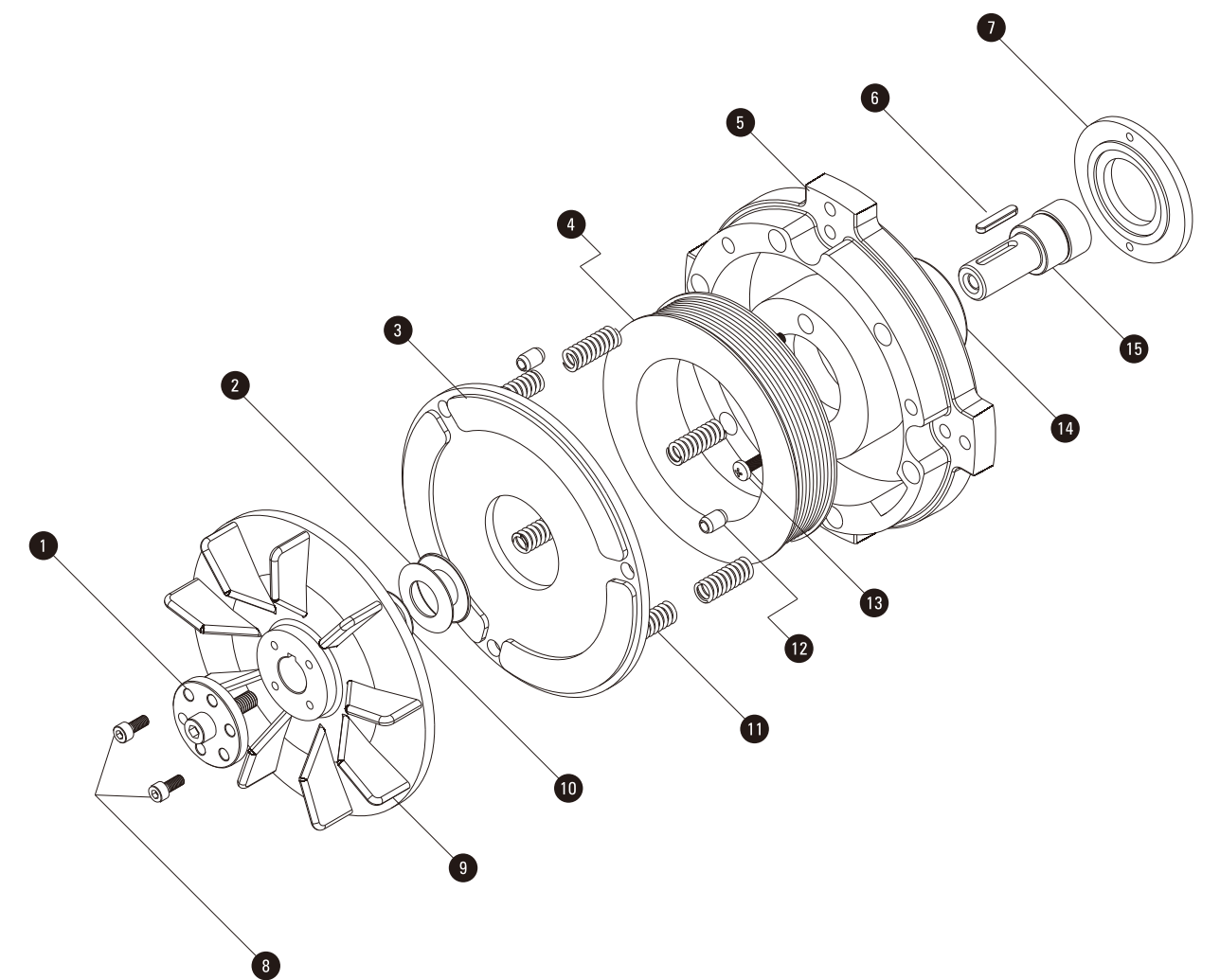
不良原因 Defective Reason	原因分析 Possible Analysis	解决方式 Solution Method
刹车器不动作 NO ACTION	未供电源 No power inside brake	供应电源 Supply power
	摩擦片磨损 Brade disc woras brake	换新刹车片 Use new brake disc
	间隙过大 Largeclearance	调整间隙 Adjust clearance
	电源供应器损坏 Power supply damage	电源供应器换新 Use new power supply
	异物入侵 Dirty inside	清洁零件 Clean aprts
	使用电压错误 Wrong voltage	使用正确电压 Correct voltage
	结线脱落 Connect wire lost	重新接线 Re-connect wire
	刹车片卡死 Brake disc worn out	清洁零件 Clean aprts
	刹车线圈烧毁 Brake coil burned-out	刹车线圈换新 Use new brake coil
刹车移动 OVER STOP	摩擦片磨损 Brake disc worn out	换新刹车片 Use new brake disc
	间隙过大 Large clearance	调整间隙 Adjust clearance
	摩擦片沾染油渍 Surface woil	清洁摩擦片 Clean brake disc
	负载过大 Over loading	重新设计 Re-design brake unit
	刹车表面歪斜 Disc surface twist	更换零件 Use new parts
	下降冲量过大 Huge momentum	机构重新设计 System re-design
	选用机型错误 Select wrong type	选用正确机型 Re-select unit
	环境温度过高 High temperature	检查环境温度 Adjust terature

减速机故障排除

Trouble Shouting For Gearmotor

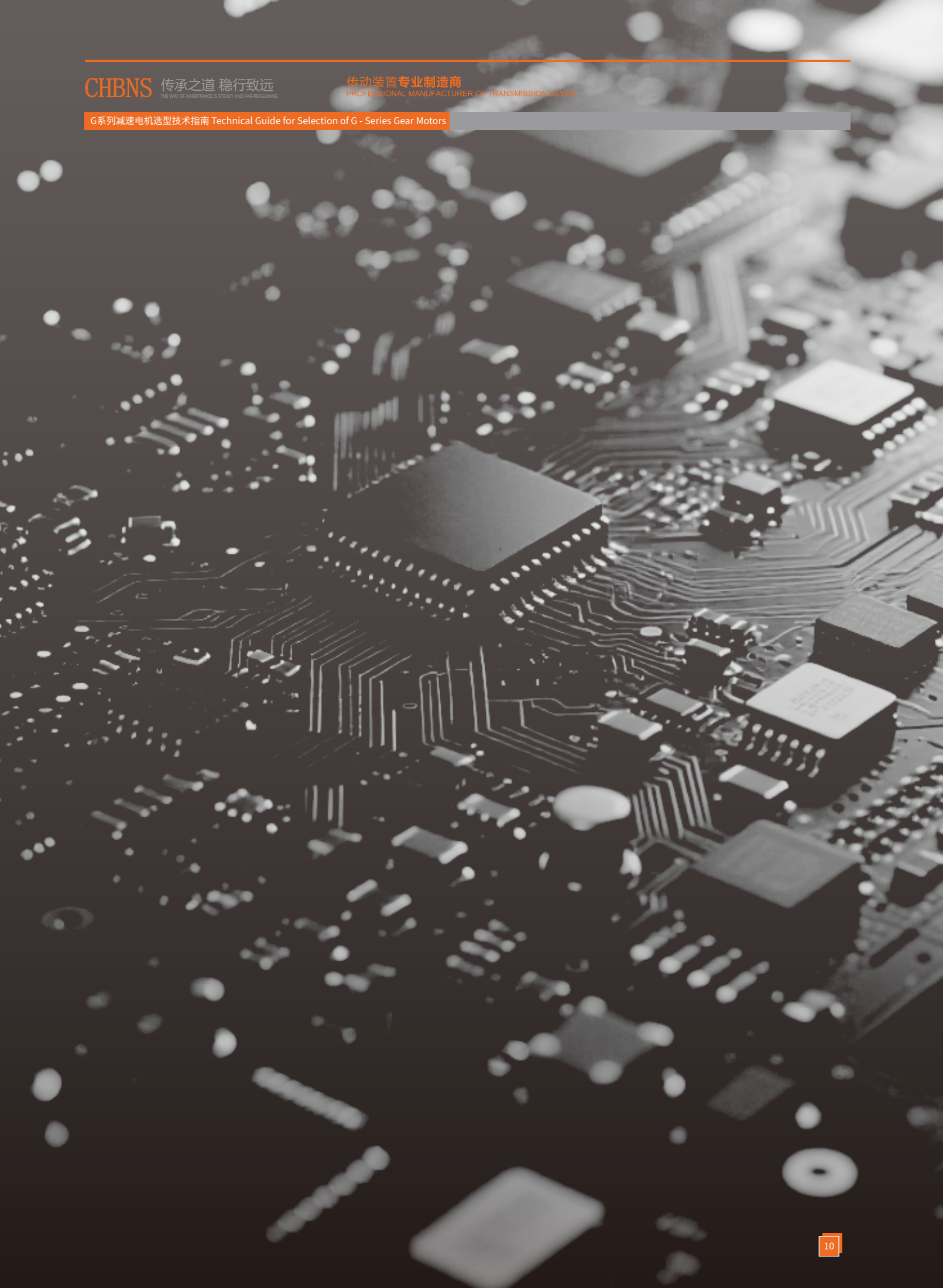
	不良原因 Defective Reason	原因分析 Possible Analysis	解决方式 Solution Method
噪音 VOISE	齿轮敲击声 Knocking	齿轮表面受伤 Hurt gear surface	更换受伤齿轮组 Replace gearset
	连续性噪音 Continually	轴承损坏 Bad bearing	更换轴承 Replace bearing
	周期性噪音 Periodically	异物附着齿面 Particle inside	检查齿轮齿面 GLWeck gear
	嘶嘶声 Neigh	油量不足 Lack If lubricant	添加润滑油 Fill with lubricant
	断续性噪音 Intermittently	润滑油不洁 Dirty lubricant	更换新润滑油 Replace lubricant
振动 VIBRATING	固定底座振动 Mounting base movement	安装平面歪斜 Bad surface mounting	重新调整固定底座 Re-ak just mounting base
	出力轴振动 Output shaft moving	轴承损坏 Bearing brolen	更换轴承 Replace bearing
	内部齿轮振动 Inside gear parts movement	齿轮受伤 Gear wounded	更换受伤齿轮 Replace wounded gear
	本体振动 Housing vibrating	齿轮组安装不良 Bad gear assembly	重新调整齿轮组 Re-adjust gear set
漏油 LEAKAGE	油封漏油 Oil seal leakage	油封硬化 Oil seal too harden	更换损坏油封 Replace wounded oil seal
	本体漏油 Housing leakage	本体有砂孔 Housing had sand hole	更换砂孔本体 Replace sand hole housing
	结合面漏油 Connect surfaxe leakage	O—型环损坏 O-ring broken broken	更换损坏 O 型环 Replace wounded O-ring
过热 OVER-HEATING	油封 Bad oil seal	油封太紧 Oil sealtoo tight	更换太紧油封 Replace tighten oil seal
	本体过热 Housing too heat	过负载 Over load running	计算负载功率 Re-calculate loading
	缺润滑油 Less lubricant	油量不足 Lack of lubricant	加入润滑油 Fill with lubricant
	电机过热 Motor too heat	电机不良 Defective motor	更换新电机 Replace new motor

刹车零件分解图
BRAKE UNIT SECTION DIAGRAM

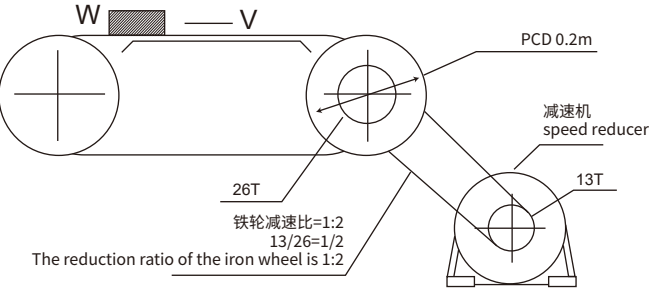


明细表 Parts List

序号 Item	名称 Name	序号 Item	名称 Name
1	调整螺栓 Gap adjustment bolt	9	散热风叶 Fan
2	碟型弹簧 Disc spring	10	调整垫圈 Adjustment washer
3	磨擦来令片 Friction brake disc	11	压力弹簧 Pressure spring
4	激磁线圈 Brake coil	12	定位销 Fixed pin
5	刹车座 Brake housing	13	固定螺丝 M fixed screw
6	平键 Key	14	轴承 Bearing
7	轴承固定盖 Fixed bearing cover	15	马达轴 Motor
8	固定螺丝 Fixed screw		



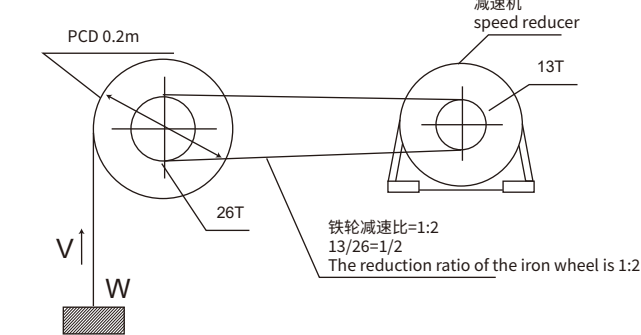
马达容量的具体计算方法
THE SPECIFIC CALCULATION METHODS FOR MOTOR CAPACITY



- ◆搬运物总重量:W=300kg
- ◆搬送速度:V=9.5m/min
- ◆与导轨之摩擦系数:μ=0.15
- ◆铁轮传动效率:η1=0.95
- ◆减速机传动效率:η2=0.9
- ◆运转时间:8 小时 / 日
- ◆启动次数:1 回 / 分, 中冲击
- ◆使用电源:三相 220V, 60Hz
- ◆Total weight of cargo: W=300kg
- ◆Carrying speed: V=9.5m/min
- ◆Friction coefficient to guidion rail: μ=0.15
- ◆GLWain pulley transmission coefficient: η1=0.95
- ◆Gear reducer transmission corfficient: η2=0.9
- ◆Operation time: 8 hour/day
- ◆Start frequency: 1 time/min, medium shock
- ◆Power: 3 phase 220V, 60Hz

项目 Item	选定之注意事项 Notices Calculation Example						计算范例 Load Condition Notices Example					
减速比 Ratio	籍由必要的入力轴转速及出力轴转速来选定减速比 1.先求出输送带滚轮转速 (n ₁) n ₁ = 搬送速度 / (滚轮直径 × π) 2.再求出减速机出力轴转速 (n ₂) n ₂ = n ₁ × (铁轮齿数 / 减速机齿数) 3.以 3Φ, 60Hz 之马达计算减速比 (τ) τ = 出力轴转速 / 入力轴转速 (马达转速 n) Reduction Ratio Notices Calculation Example The reduction ratio is based on input/output shaft revolutions. 1.Find the revolution of conveyer pulley (n ₁) first n ₁ = carrying speed/(pulley D×π) 2.Fing the output shaft revolution of gear reducer (n ₂) n ₂ = n ₁ × (GLWain pulley speed/gear number or reducer) 3.Calculate reduction ratio (π) based on 3Φ, 60Hz motor τ = output shaft revlution/input shaft revolution motor rpm n)						1.n ₁ =V/(D × π)=9.5/(0.2 × 3.14)=15 r/min(RPM) 2.n ₂ =n ₁ × (26/13)=15 × 2/1=30 r/min(RPM) 3.n ₂ /n=30/1800=1/60 (马达转速, motor RPM, input representative)					
	决定减速比后,由工作条件换算其扭矩 1.先算出输送带滚轮之扭矩 (T1) T1=(μ × 荷重 × 滚轮半径)/η1 2.再换算成减速机出轴所需扭矩 (T2) T2=(T1 × 铁轮减速比)/η2 Torque Notices Calculation Example After reduction ratio is decided, calculate the torque by the condition of the maGLWine used. 1.Find the torque of conveyer pulley (T1) T1=(μ × load × pulley radius)/η1 2.Find the torque needed from the output shaft of reducer (T2) T2=(T1 × reduction ratio of GLWain pulley)/η2						1.T1=μ×W(D/2)/η1 =0.15×300×(0.2/2)/0.95=4.8kgf - m 2.T2=(T1×1/2)/η2 =(4.8×1/2)/0.9=2.67kgf - m					
运转条件 Load conditions	原动机 Prime Morer 电动机 Electric Morer	传动机负荷等级 Driven maGLWine liad classitication	每日使用时间 Duration of service perday				T3=T2×K =2.67×1.25=3.34kgf - m					
			0.50hr	2hrs	8-10hr	10-24hr						
		均一负荷 Unitorm	0.80	0.90	1.00	1.25						
		中冲击 Medium Shock	0.90	1.00	1.25	1.50						
		重冲击 Heavy Shock	1.00	1.25	1.50	1.75						
	修正扭力 =减速机出力转扭力x系数k Corective torque=reducer shaft torque x coefficient											
马力 Horse Power	1.最后换算成马力 (HP) HP=(修正扭力 × 出力轴转数)/716.2 2.Find horse power(HP) HP=(corrective torque × revolution of output shaft)/716.2						HP=(T × N)/716.2 =(3.34 × 30)/716.2=0.14HP					
型号选定 Model Selected	根据本目录之型号速比对照表 1/4HP、减速比 1/60。GLW22 - 200 - 60S。 According to the model - reduction ration reference table, model GLW22, 1/4HP, reduction ration 1/60 are selected.											

马达容量的具体计算方法
THE SPECIFIC CALCULATION METHODS FOR MOTOR CAPACITY



- ◆搬运物总重量:W=300kg
- ◆搬送速度:V=9.5m/min
- ◆铁轮传动效率:η1=1
- ◆减速机传动效率:η2=0.9
- ◆运转时间:2 小时 / 日
- ◆启动次数:1 回 / 分, 中冲击
- ◆使用电源:三相 220V, 60Hz
- ◆Total wright of cargo: W=300kg
- ◆Carrying speed: V=9.5m/min
- ◆GLWain pulley transmission coefficient: η1=0.95
- ◆Gaar reducer transmission corfficient: η2=1
- ◆Operation time: 2 hour/day
- ◆Start frequency: 1 time/min, medium shock
- ◆Power: 3 phase 220V, 60Hz

项目 Item	选定之注意事项 Notices Calculation Example						计算范例 Load Condition Notices Example					
减速比 Ratio	籍由必要的入力轴转速及出力轴转速来选定减速比 1.先求出输送带滚轮转速 (n ₁) n ₁ = 搬送速度 / (滚轮直径 × π) 2.再求出减速机出力轴转速 (n ₂) n ₂ = n ₁ × (铁轮齿数 / 减速机齿数) 3.以 3Φ, 60Hz 之马达计算减速比 (τ) τ = 出力轴转速 / 入力轴转速 (马达转速 n) Reduction Ratio Notices Calculation Example The reduction ratio is based on input/output shaft revolutions. 1.Find the revolution of conveyer pulley (n ₁) first n ₁ = carrying speed/(pulley D×π) 2.Fing the output shaft revolution of gear reducer (n ₂) n ₂ = n ₁ × (GLWain pulley speed/gear number or reducer) 3.Calculate reduction ratio (π) based on 3Φ, 60Hz motor τ = output shaft revlution/input shaft revolution motor rpm n)						1.n ₁ =V/(D × π) =9.5/(0.2 × 3.14)=15 r/min 2.n ₂ =n ₁ /i =15/(1/2)=30 r/min 3.τ = 出力轴转速 / 入力轴转速 =30/1800=1/60 (马达转速)					
	决定减速比后,由工作条件换算其扭矩 1.先算出输送带滚轮之扭矩 (T1) T1=(μ × 荷重 × 滚轮半径)/η1 2.再换算成减速机出轴所需扭矩 (T2) T2=(T1 × 铁轮减速比)/η2 Torque Notices Calculation Example After reduction ratio is decided, calculate the torque by the condition of the maGLWine used. 1.Find the torque of conveyer pulley (T1) T1=(μ × load × pulley radius)/η1 2.Find the torque needed from the output shaft of reducer (T2) T2=(T1 × reduction ratio of GLWain pulley)/η2						1.T1=W(D/2) × (1/η1) =300 × (0.2/2)=30 kgf - m 2.T2=T1 × 1/2 × 1/η2 =30 × 1/2 × 1/0.9=16.7 kgf - m					
负荷条件 Load conditions	1.根据运转条件算出修正扭力 (T3) T3=T2 × 运转条件 (系数 K) 2.Find corrective torque (T3) according to operation condition T3=T2×operation condition(coefficient K)						T3=T2×K =16.7×1=16.7kgf - m					
马力 Horse Power	1.最后换算成马力 (HP) HP=(T × N)/716.2 1.Find horse power (HP) HP=(T × N)/716.2						HP=(T×N)/716.2 =(16.7×30)/716.2=0.69<(HP)					
型号选定 Model Selected	根据本目录之型号速比对照表 HP、减速比 1/60, 0.75kW 适用。GLW32 - 750 - 60SB。 According to the model - reduction ratio reference table, model GLW32, 1HP, reduction ratio 1/60 are selected.											

减速机用词概要

TERMINOLOGY FOR THE GEAR REDUCERS

1.减速机选择方法

减速机为配合马达机型及瓦特数依负荷状况做下列之分类:GN型→60、70、80、90 型减速箱, (配合 4W~120W电机使用, 使用滚珠轴承)。GU 型→100 型加强型减速箱, (配合70W~200W电机使用, 使用滚珠轴承)。

2.减速机配合马达之出力转矩计算方式:

转矩.....TG = TM×i×η

TG: 减速机之转矩 (kg - cm)

TM: 马达之转矩 (kg - cm)

i: 减速机之减速比

η: 减速机之传动效率

3.最大容许转矩 (下图)

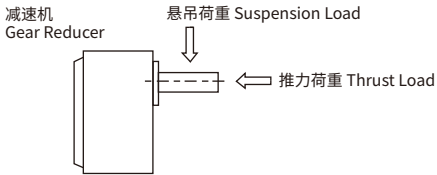
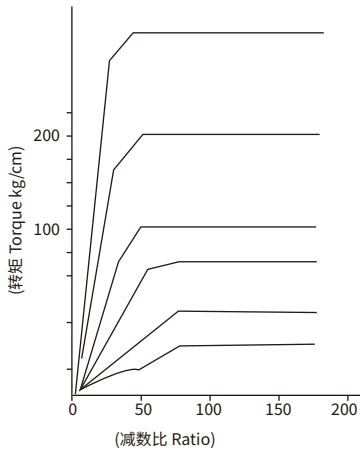
减速机之出力转矩因减速比大而增大, 但因受了齿轮之材质及其他条件之影响, 限制实际所能承受之负荷转矩, 而减速机之最大容许转矩之大小是视减速机种类与减速机之出力转矩。

TG = TM×i×η=1.9×100×0.66=125.4kg - cm

如右图所示 A4GN100K 最大容许转矩 80Kg - cm, 但计算所得之减速机出力转矩为 125kg - cm, 但是实际上减速机所能承受之负荷不可超 80kg - cm。

4.容许悬吊荷重及容许推力荷重 (下图)

减速机之出力轴使用在链条, 齿轮或皮带等传动机械上, 在一定出力轴处, 增加悬吊荷重 (同轴呈直角重) 轴承的寿命会受到悬吊荷重与出力轴间作用关系, 产生直接影响。



1.Selections of the speed reduction gearing (meGLWanism)

To coordinate between the type of motor and wattage of power used, the following classification is made according to the loading conditions: Model GN → 60, 70, 80, 90 gear box, (in cooperation with 4W~120W motor, using ball bearings). Model GU → 100 Enhanced gear box, (in cooperation with 70W~200W motor, using ball bearings).

2.Calculations of a speed reduction gear in relating to the torque of the motor output power.

Torque: TG=TM×i×η

TG=torque of the speed reduction gearing (Kg - cm)

TM: Torque fo a motor (Kg - cm)

i=Reduction ratio of the speed reduction gearing

η=transmission efficiency of the speed reduction gearing

3.Maximum allowable torque (Figure to the below)

The torque for a motor output power can be increased in accordance with the bigger reduction ratio of the speed reduction gearing.however,the practical limitation of the loading torque shall be effected by the material of the gear and some other conditions.

The Maximum allowable torque for a speed reduction gearing is also depending on the kiod of speed reduction gearing and the output power torque of the speed reduction gearing.

TG=TM×i×η=1.9×100×0.66=125.4kg - cm

The maximum allowable torque 80Kg - cm for the A4GN 100K is shownin the figure to the right, in comparing to the output power torque of the speed reduction gearing, 125Kg - cm, by calculation, In practical, however, under no way the loading of a speed reduction gearing exceed 80Kg - cm.

4.Allowable suspension load and allowable thrust load (see figure to the below):

Transmission meGLWanism suGLW as GLWain, gears, or belt can be used as an output shaft for the speed reduction gearing. Suppose the suspension load is increased (vertically to the shaft) at the output shaft whiGLW should be effected directly against the applicable life regarding to relations between suspension load and thrust load.

减速机之选用与计算技术资料

TEGLWNICAL INFORMATION ON SELECTION AND CALCULATION OF SPEED REDUCERS

1、机种选用: Selection of MaGLWine Type:

(1) 依安装方式, 使用条件来决定采用何种机种。

(2) 依输出功能及转速来决定。

(3) 依据机械的负荷扭矩来决定, 利用运转条件之安全系数 (表二) 来补正。

(4) 依转速及负荷扭矩 (图一) 修正之容量来决定。

(5) 依GD2(惯性) 与 O.H.L (超载输出能力) 相互计算来决定。

- (1) Determine the type of maGLWine to be adopted based on the installation method and operating conditions.
- (2) Determine according to the output power and rotational speed.
- (3) Determine based on the load torque of the maGLWinery, and make corrections using the safety factor for operating conditions (Table 2).
- (4) Determine based on the corrected capacity considering the rotational speed and load torque (Figure 1).
- (5) Determine through mutual calculation of GD2 (inertia) and O.H.L (Overload Output Capacity).

2、安全系数

本公司之减速机是依平均负荷(10 小时/日)运转条件设计, 依上述之条件使用时, 请依安全系数(表二)修正负荷扭矩。

The reducers of our company are designed according to the operating conditions of average load (10 hours/day). When used under the above - mentioned conditions, please correct the load torque according to the safety factor (Table 2).

负荷状态 Load Condition	安全系数Safety Factor -----Sf			用途 application
	3H 以下/日 Less than 3 hours per day	3-10H /日 3 - 10 hours per day	10H以上/日 Less than 10 hours per day	
平均负荷 Average Load	1.0	1.0	1.2	输送带, 送料机, 压出机, 水处理机 Conveyor belt, feeder, extruder, wwater treatment maGLWine
重负荷 Heavy Load	1.0	1.2	1.4	车用机械, 制纸机械, 食品机械, 制糖机械, 搅拌机, 升降机 Vehicle - used maGLWinery, paper - making maGLWinery, food maGLWinery, sugar - making maGLWinery, mixer, elevator
超重负荷 Over - heavy Load	1.2	1.35	1.6	金属加工机械, 起重机, 展磨机, 船用机械, 碎石机 Metal processing maGLWinery, crane, grinding maGLWine, marine maGLWinery, crusher

3、惯性 (GD²) Inertia (GD²)

外径大之物体连接运转, 间歇启动 (或装有刹车装置停止时) 瞬间产生扭矩, 是减速机最大的负荷, 依对方机械的惯性, 连接方式及启动的频率, 选择容许惯性值。

When an object with a large outer diameter is connected for operation, and there is intermittent starting (or when stopped with a braking device), torque is generated instantaneously, whiGLW is the maximum load on the reducer. Select the allowable inertia value according to the inertia of the counterpart maGLWinery, the connection method, and the starting frequency.

容许 GD(马达输入力端换算值)(表三)

Allowable GD (Converted Value at the Motor Shaft Input End) (Table 3)

三相 three - phase	单相 single-phase	容许 GD(kg.m ²)
0.1KW	0.1KW	0.0031
0.2KW	0.2KW	0.0035
0.4KW	0.4KW	0.0048
0.75KW	-	0.0101
1.5KW	-	0.0212
2.2KW	-	0.0262
3.7KW	-	0.0691

依据运转条件容许GD²修正系数 (表四)

Allowable GD 2 Correction Coefficient According to Operating Conditions (Table 4)

连结方式 Connection Method	使用频率 Frequency of Use	修正系数 correction coefficient
直接连结 Direct Connection	70 次/日以下 70 times per day or less	1.0
	70 次/日以上 70 times per day or more	1.5
方式不拘 Any Method	70 次/日以下 70 times per day or less	1.5
	70 次/日以上 70 times per day or more	2.0

注: 1、减速机输入转速在 1800R.P.M 以上使用时, 以上表乘以输入为容许值。
例: 输入转速 3600R.P.M, GD² = 原值 × (1800/3600)² = 1/4 原值
2、马达输入轴GD² = 输出轴之减速 例: 减速比为 1:20 时, 其值为 1/400

Note: 1. When the input speed of the reducer is above 1800 R.P.M for use, multiply the values in the above table by (1800/InputR.P.M)² to get the allowable value. Example: For an input speed of 3600 R.P.M, GD² = Originalvalue × (1800/3600)² = 1/4oftheoriginalvalue
2. The GD² of the motor input shaft = GD² oftheoutputshaft × (Reductionratio)². Example: When the reduction ratio is 1:20, its value is 1/400

4、超载输出能力 (O.H.L) Overload Output Capacity (O.H.L)

超载输出能力意即在心轴上悬垂负载作用之意, 减速机轴与对主机机械运作, 假如使用键条、输送带, 必须检讨超出负载的必要。
The overload output capacity refers to the effect of a suspended load acting on the spindle. For the operation of the reducer shaft and the main maGLWinery, if GLWains or conveyor belts are used, it is necessary to examine the need for exceeding the load.

O.H.L.=T×K1×K2/R (kg.m)

T: 减速机轴连接扭矩 (kg.m) T: The connection torque of the reducer shaft (kg.m)

R: 减速机轴被安装之链条、滑轮、齿轮等螺距圆半径 (m) R: The pitGLW circle radius (m) of the key, pulley, gear, etc., installed on the reducer shaft

K1: 连接方式之系数 (表五) K1: The coefficient of the connection method (Table 5)

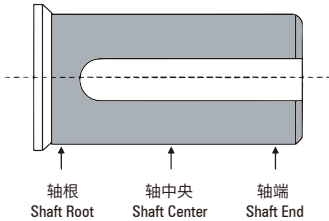
K2: 负载位置之系数 (表六) K2: The coefficient of the load position (Table 6)

上述所求之 O.H.L 性能表示负载之容许量, 请依小于 O.H.L. 之容许作业

The O.H.L performance obtained above indicates the allowable load capacity. Please operate within an allowable range that is less than the O.H.L.

连接方法 Connection Method	K1
链条、齿轮皮带 GLWain, Gear Belt	1.00
齿轮 Gear	1.25
V 型输送带 V - type Conveyor Belt	1.50
平面型输送带 Flat - type Conveyor Belt	2.50

位置 Position	K2
轴根 Shaft Root	0.75
轴中央 Shaft Center	1.00
轴端 Shaft End	1.50



单相电压全负载电流值
1-Phase/4-Poles Full Load Ampere

输出功率 Capacity	50Hz-4P			60Hz-4P		
	220V	380V	RPM	220V	380V	RPM
100W	0.60	0.40	1400	0.60	0.40	1700
200W	1.15	0.67	1400	1.10	0.63	1700
400W	2.13	1.24	1400	1.90	1.10	1700
750W	3.66	2.13	1410	3.40	1.96	1710
1500W	6.58	3.82	1410	6.10	3.53	1710
2200W	8.94	5.18	1430	8.70	5.03	1725
3700W	13.85	8.03	1440	13.5	7.81	1725

单相电压全负载电流值
1-Phase/4-Poles Full Load Ampere

输出功率 Capacity	50Hz-4P			60Hz-4P		
	110V	220V	PRM	110V	220V	PRM
100W	2.2	1.1	1400	2.0	1.0	1700
200W	4.0	2.0	1400	3.6	1.8	1700
400W	7.6	3.8	1420	6.6	3.3	1730

单相马达电容器规格
1-Phase Motor Capacitor

输出马力 Capacity	运转电容(文电型) Running capacitance (text-type)	起动电容(离心开关型) Starting capacitance (centrifugal switGLW type)	运转电容+起动电容(离心开关型) Running + starting capacitance (centrifugal switGLW type)
100W	10μf - 350V	-	-
200W	16μf - 350V	125μf - 160V	-
400W	30μf - 350V	200μf - 160V	30μf - 350V+200μf - 160V

出力轴轴径对照表
OUTPUT SHAFT DIAMETER TABLE

标准型 (Normal Duty Type)

减速比 Ratio	马力 Capacity						
	1/8HP(100W)	1/4HP(200W)	1/2HP(400W)	1HP(750W)	2HP(1500W)	3HP(2200W)	5HP(3700W)
3	18	18	22	28	32	40	40
5	18	18	22	28	32	40	40
10	18	18	22	28	32	40	40
15	18	22	28	28	32	40	50
20	18	22	28	28	32	40	50
25	18	22	28	28	32	40	50
30	18	22	28	32	32	40	50
40	18	22	28	32	40	40	50
45	18	22	28	32	40	40	50
50	18	22	28	32	40	50	50
60	18	22	28	32	40	50	50
70	22	22	28	32	40	50	
80	22	22	28	32	40	50	
90	22	22	28	32	40	50	
100	22	28	32	32	40	50	
120	22	28	32	32	50	50	
140	22	28	32	40	50		
150	22	28	32	40	50		
160	22	28	32	40	50		
180	22	28	32	40	50		
200	22	28	32	40			
250 - 1800	28	32	40	50			

轻负载缩框型(Light Duty Type)

减速比 Ratio	马力 Capacity						
	1/8HP(100W)	1/4HP(200W)	1/2HP(400W)	1HP(750W)	2HP(1500W)	3HP(2200W)	5HP(3700W)
3			18	28	32	40	40
5			18	28	32	40	40
10			18	28	32	40	40
15		18	22	28	32	40	50
20		18	22	28	32	40	50
25		18	22	28	32	40	50
30		18	22	32	32	40	50
40		18	22	32	40	40	50
45		18	22	32	40	40	50
50		18	22	32	40	50	50
60		18	22	32	40	50	50
70	18	18	22	32	40	50	
80	18	22	22	32	40	50	
90	18	22	22	32	40	50	
100	18	22	28	32	40	50	
120	18	22	28	32	50	50	
140	18	28	28	40	50		
150	18	28	28	40	50		
160	18	28	28	40	50		
180	18	28	28	40	50		
200	18	28	28	40			
250 - 1800	22	28	32	50			

- 1、缩框机型为不正当设计使用, 如非必要请勿选用。
2、马达部分提供一年保固。

- 1、Light duty type are not available for standard application design, it only suitable for special project design.
2、Provide one year guarantee for motor only.

输出扭矩表

OUTPUT TORQUE

标准型 (Normal Duty Type)

kg·m

减速比 Ratio	输出转速 Output R.P.M.		输出扭矩 Output Torque													
			0.1KW		0.2KW		0.4KW		0.75KW		1.5KW		2.2KW		3.7KW	
	Hz															
	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60
3	500	600	0.19	0.16	0.37	0.31	0.70	0.60	1.30	1.10	2.60	2.20	3.80	3.20	6.00	5.50
5	300	360	0.31	0.26	0.62	0.52	1.20	1.00	2.20	1.90	4.50	3.80	6.72	5.60	11.0	10.0
10	150	180	0.62	0.52	1.24	1.04	2.40	2.00	4.50	3.80	9.10	7.60	13.7	11.2	22.0	20.0
15	100	120	0.91	0.76	1.80	1.50	3.60	3.00	6.80	5.70	13.5	11.3	20.1	16.8	32.6	29.8
20	75	90	1.20	1.00	2.40	2.00	4.80	4.00	9.00	7.50	18.1	15.1	26.8	22.4	43.6	36.0
25	60	72	1.40	1.20	3.00	2.50	6.00	5.00	11.2	9.40	22.6	18.9	33.6	28.0	53.9	49.53
30	50	60	1.80	1.50	3.60	3.00	7.20	6.00	13.5	11.3	27.1	22.6	40.3	33.6	64.7	58.8
40	37	45	2.20	1.90	4.60	3.90	9.30	7.80	17.5	14.6	34.9	29.1	52.0	43.4	86.3	78.4
45	33	40	2.70	2.20	5.40	4.40	10.9	9.10	20.6	17.0	41.1	34.0	59.8	49.6	98.5	81.7
50	30	36	2.80	2.40	5.70	4.80	11.6	9.70	21.9	18.3	43.6	36.4	65.1	54.3	107	97.0
60	25	30	3.40	2.90	6.90	5.80	13.9	11.6	26.2	21.9	52.4	43.7	78.1	65.1	127	115
70	21	25	4.30	3.60	8.00	5.80	16.2	13.5	31.5	26.3	62.4	52.0	92.5	77.1		
80	19	23	4.80	4.00	9.20	7.70	18.4	15.4	35.5	29.6	70.8	59.0	105	87.5		
90	17	20	5.20	4.40	10.30	8.60	20.7	17.3	39.3	32.8	77.1	64.3	113	94.3		
100	15	18	5.80	4.90	11.5	9.60	23.0	19.2	43.2	36.0	83.7	69.8	126	105		
120	12	15	6.90	5.80	13.8	11.5	27.7	23.1	51.8	43.2	101	83.7				
140	11	13	8.00	6.70	16.0	13.4	32.0	26.7	59.7	49.8	116	96.8				
160	9	11	9.10	7.60	18.3	15.3	36.3	30.3	68.0	56.7	132	110				
180	8	10	10.3	8.60	20.7	17.3	40.8	34.0	76.8	64.0	148	123				
200	7	9	11.6	9.70	22.9	19.1	43.2	36.0	82.8	69.0						

1kg·m = 9.8N·m (牛顿·米)

输出轴悬垂荷重

OVERHUNG LOAD

标准型 (Normal Duty Type)

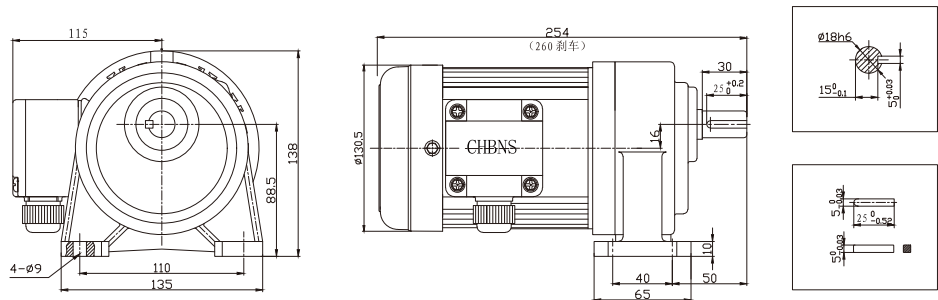
kg·m

减速比 Ratio	输出转速 Output R.P.M.		输出扭矩 Output Torque													
			0.1KW		0.2KW		0.4KW		0.75KW		1.5KW		2.2KW		3.7KW	
	Hz															
	50	60	50	60	50	60	50	60	50	60	50	60	50	60	50	60
3	500	600	30	25	30	25	54	45	60	50	145	130	165	150	200	180
5	300	360	36	30	36	30	78	70	85	75	165	150	210	180	270	225
10	150	180	70	60	70	60	150	130	180	180	280	250	210	180	270	225
15	100	120	110	90	110	100	175	160	165	160	355	348	430	360	570	550
20	75	90	150	125	135	125	190	170	175	170	369	365	490	450	780	750
25	60	72	155	140	150	140	210	180	185	180	450	430	540	500	850	830
30	50	60	160	150	170	165	235	220	415	400	480	450	650	630	1100	1050
40	38	45	160	160	180	180	270	260	430	420	580	550	690	650	1200	1100
45	33	40	170	170	180	180	335	328	440	430	590	570	710	670	1280	1200
50	30	36	170	170	180	180	350	335	450	440	600	580	820	780	1300	1250
60	25	30	180	180	180	180	350	350	450	450	630	610	850	820	1400	1350
70	21	25	180	180	180	180	350	350	460	460	670	650	900	900	1400	1400
80	18	22	180	180	180	180	350	350	460	460	680	680	1100	1100		
90	16	20	180	180	180	180	350	350	500	500	850	850	1100	1100		
100	15	18	200	200	250	250	380	380	590	590	900	900	1200	1200		
120	12	15	200	200	320	320	390	390	640	640	920	920	1200	1200		
140	11	13	200	200	320	320	400	400	679	679	920	920				
150	10	12	220	220	330	330	420	420	679	679	950	950				
160	9	11	220	220	330	330	420	420	700	700	950	950				
180	8	10	240	240	350	350	430	430	720	720	980	980				
200	7	9	240	240	350	350	430	430	720	720						
1/250-1/1800			300	300	480	480	720	720	1400	1400						

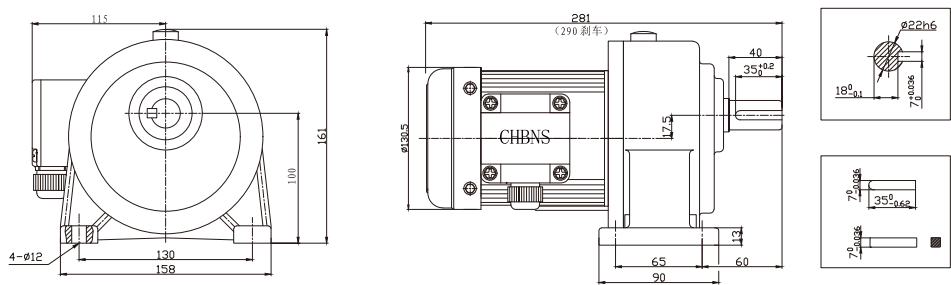
0.1KW
GLW 型卧式三相铝壳(刹车) 马达减速机
GLW Horizontal Type With Aluminum housing
3 Phase (Brake) Gear Motor



GLW18-100W-3~60
轻负载缩框型 GLW-18-100-70~170
Light-load Frame-shrunk Type



GLW22-100W-60~200

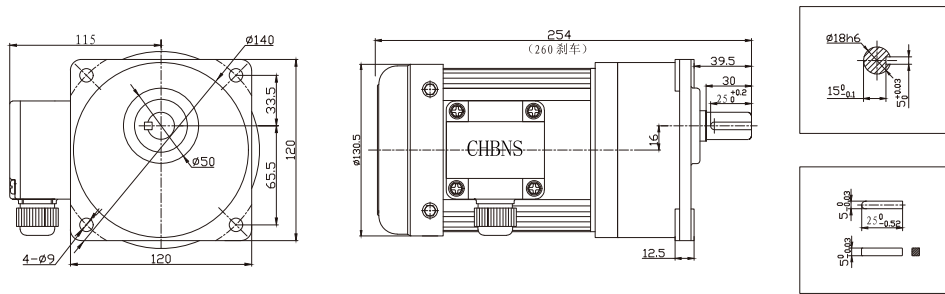


注: 缩框型为轻负载, 无大惯性场合中使用。为不正当设计, 如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.

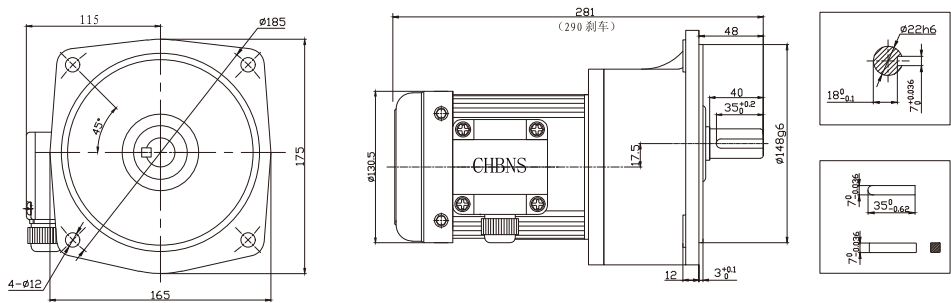
0.1KW
GLF 型立式三相铝壳(刹车) 马达减速机
GLF Vertical Type With Aluminum housing
3 Phase (Brake) Gear Motor



GLF18-100W-3~60
轻负载缩框型 GLW-18-100-70~170
Light-load Frame-shrunk Type



GLF22-100W-60~200



注: 缩框型为轻负载, 无大惯性场合中使用。为不正当设计, 如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.

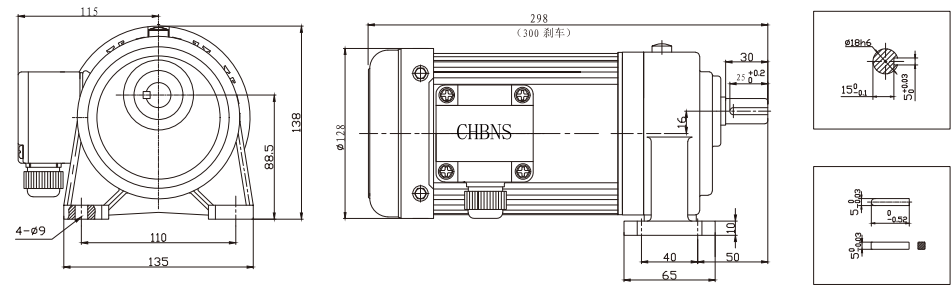
0.2KW

GLW 型卧式三相铝壳(刹车)马达减速机
GLW Horizontal Type With Aluminum housing
3 Phase (Brake) Gear Motor



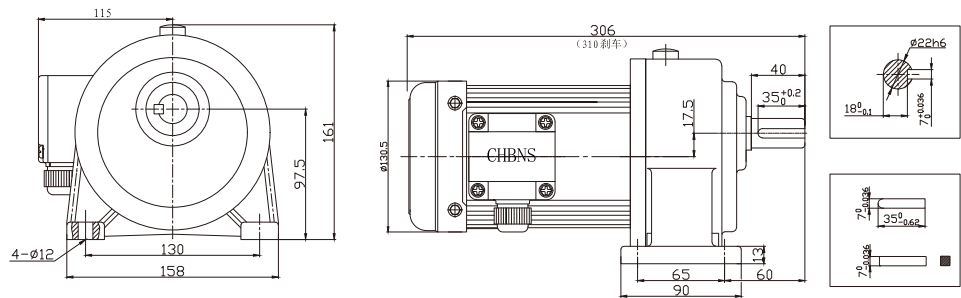
GLW-18-200-3~10

轻负载缩框型 GLW-18-200-15~105
Light-load Frame-shrunk Type

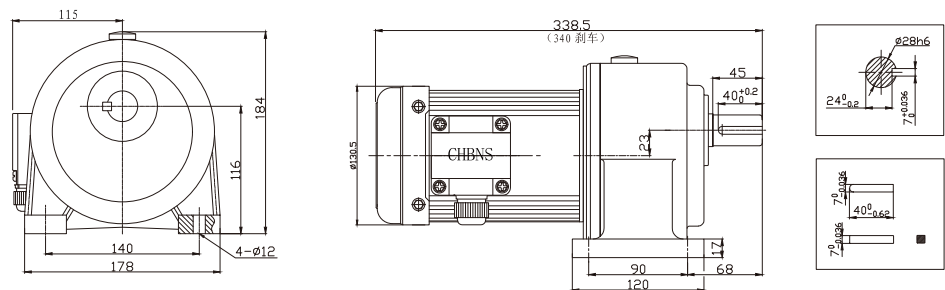


GLW-22-200-15~90

轻负载缩框型 GLW-22-200-100~200
Light-load Frame-shrunk Type



GLW-28-200-100~200



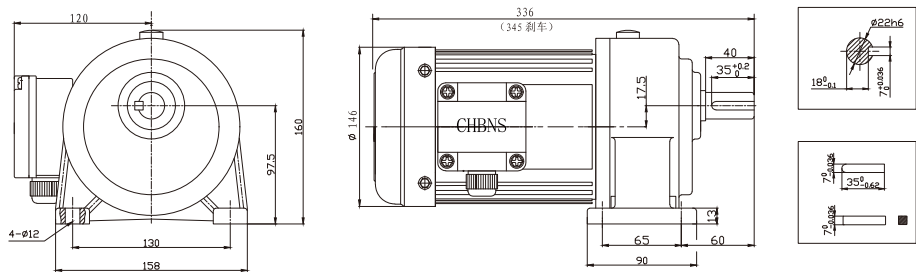
注: 缩框型为轻负载, 无大惯性场合中使用。为不正当设计, 如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.

0.4KW
GLW 型卧式三相铝壳(刹车)马达减速机
GLW Horizontal Type With Aluminum housing
3 Phase (Brake) Gear Motor



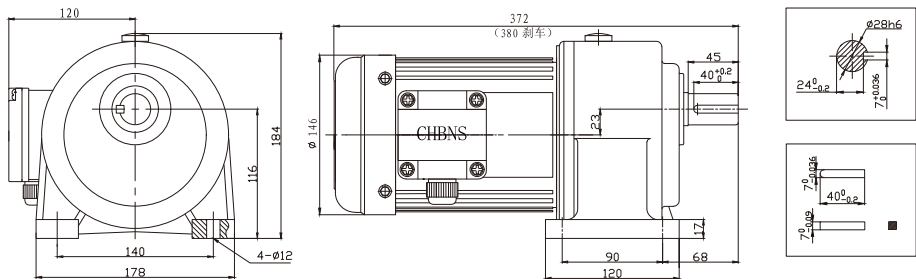
GLW-22-400-3~10

轻负载缩框型 GLW-22-400-15~105
Light-load Frame-shrunk Type

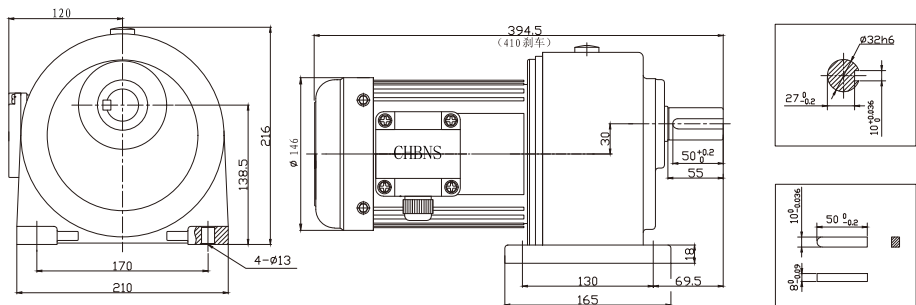


GLW-28-400-15~90

轻负载缩框型 GLW-28-400-100~200
Light-load Frame-shrunk Type



GLW-32-400-100~200



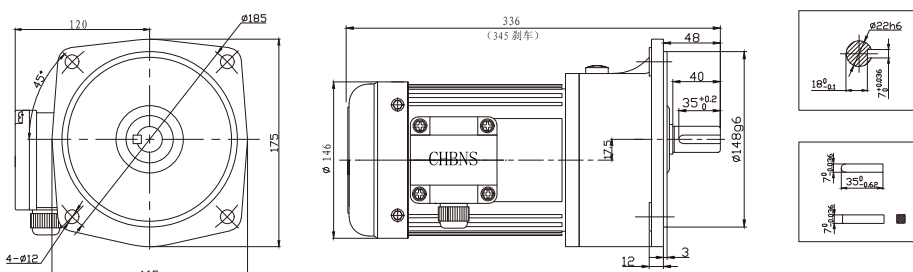
注: 缩框型为轻负载, 无大惯性场合中使用。为不正当设计, 如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.

0.4KW
GLF 型立式三相铝壳(刹车)马达减速机
GLF Vertical Type With Aluminum housing
3 Phase (Brake) Gear Motor



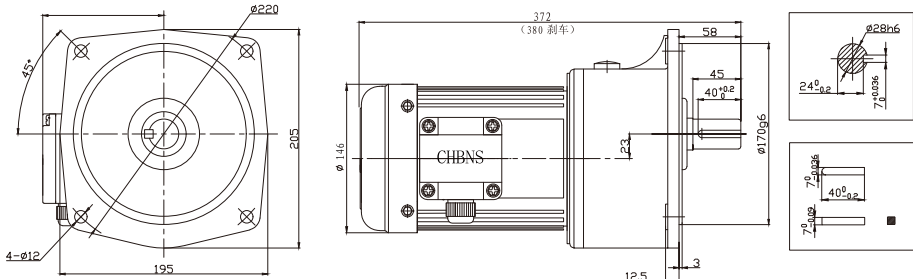
GLF-22-400-3~10

轻负载缩框型 GLF-22-400-15~105
Light-load Frame-shrunk Type

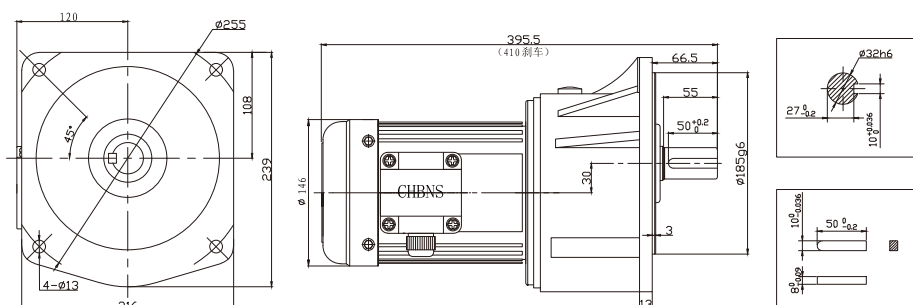


GLF-28-400-15~90

轻负载缩框型 GLF-28-400-100~200
Light-load Frame-shrunk Type



GLF-32-400-100~200

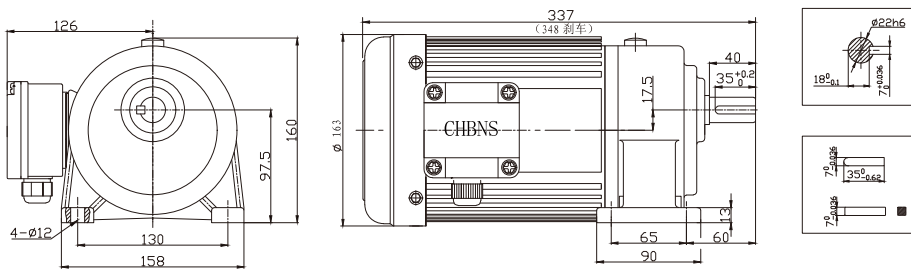


注: 缩框型为轻负载, 无大惯性场合中使用。为不正当设计, 如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.

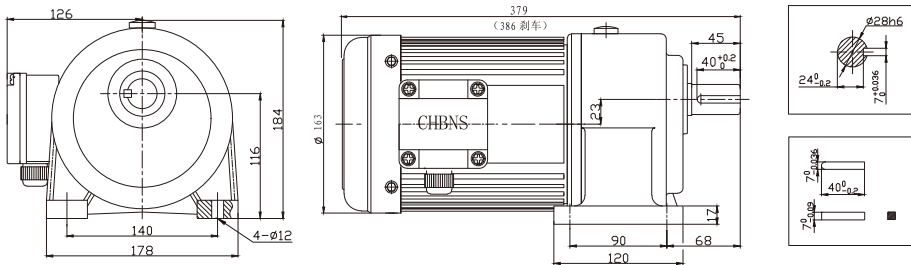
0.75KW
GLW 型卧式三相铝壳(刹车) 马达减速机
GLW Horizontal Type With Aluminum housing
3 Phase (Brake) Gear Motor



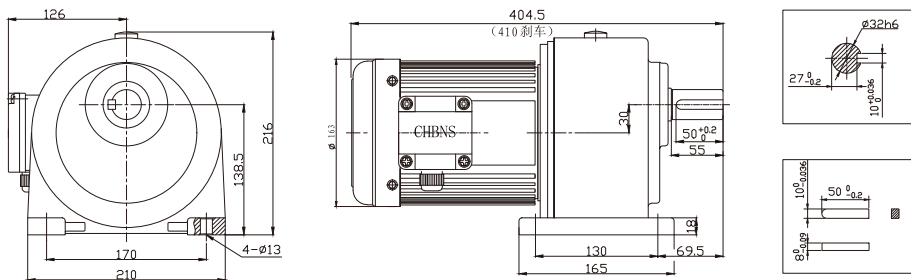
GLW-22-750-3-30
轻负载缩框型
Light-load Frame-shrunk Type



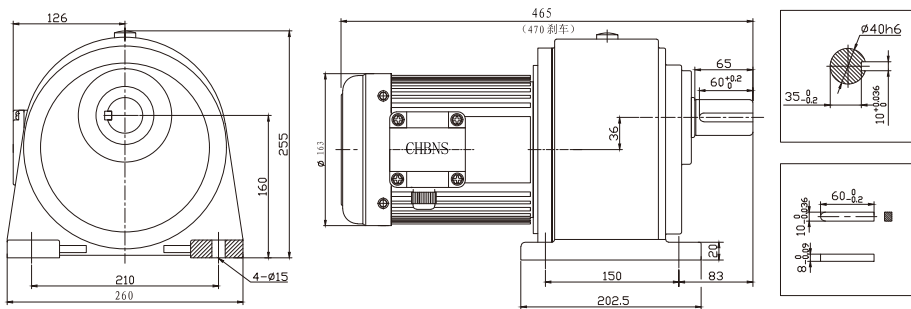
GLW-28-750-3~25
轻负载缩框型 GLW-28-750-30~120
Light-load Frame-shrunk Type



GLW-32-750-30~120
轻负载缩框型 GLW-32-750-130~200
Light-load Frame-shrunk Type



GLW-40-750-130~200

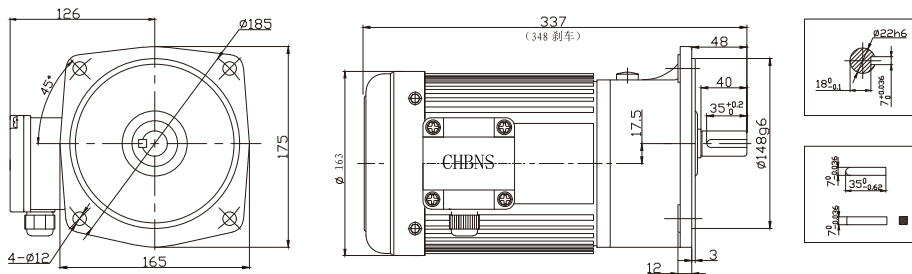


注: 缩框型为轻负载, 无大惯性场合中使用。为不正当设计, 如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.

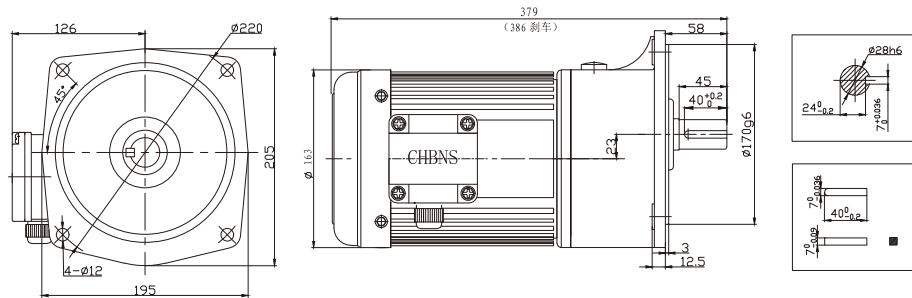
0.75KW
GLF 型立式三相铝壳(刹车) 马达减速机
GLF Vertical Type With Aluminum housing
3 Phase (Brake) Gear Motor



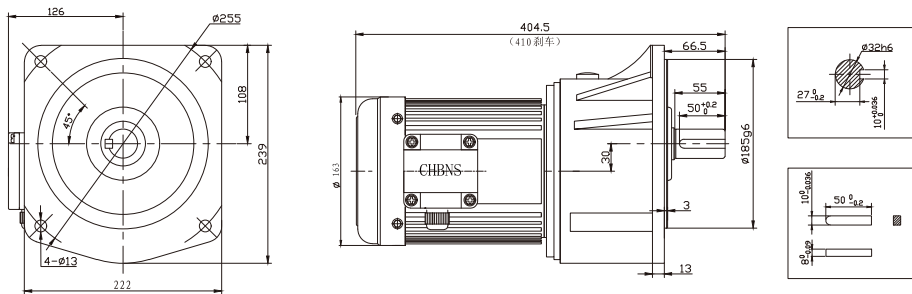
GLF-22-750-3-30
轻负载缩框型
Light-load Frame-shrunk Type



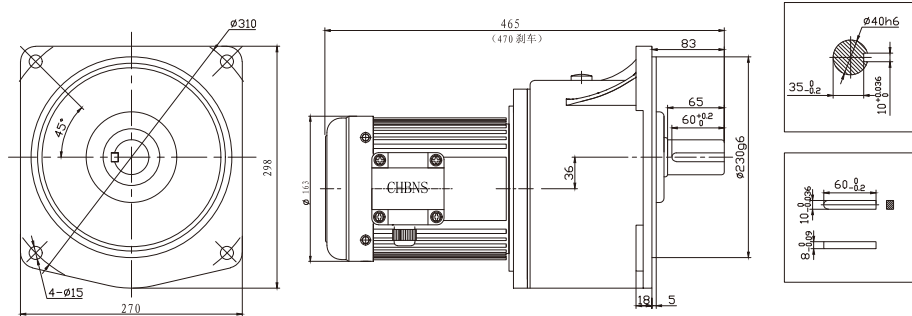
GLF-28-750-3~25
轻负载缩框型 GLF-28-750-30~120
Light-load Frame-shrunk Type



GLF-32-750-30~120
轻负载缩框型 GLF-32-750-130~200
Light-load Frame-shrunk Type



GLF-40-750-130~200

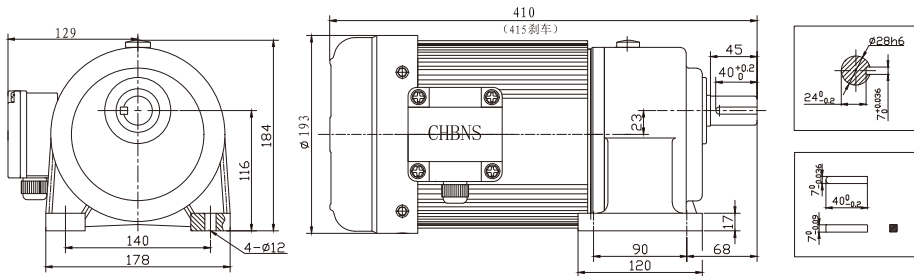


注: 缩框型为轻负载, 无大惯性场合中使用。为不正当设计, 如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.

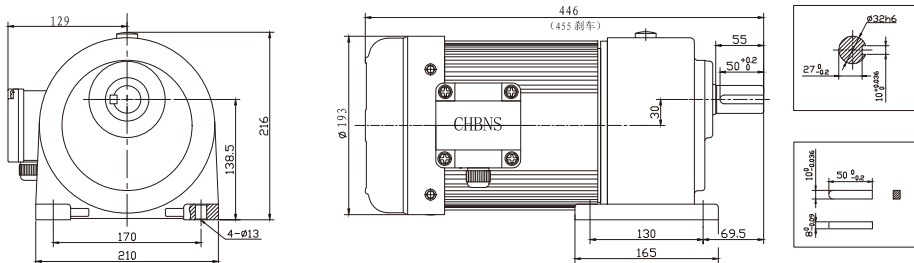
1.5KW
GLW 型卧式三相铝壳(刹车)马达减速机
GLW Horizontal Type With Aluminum housing
3 Phase (Brake) Gear Motor



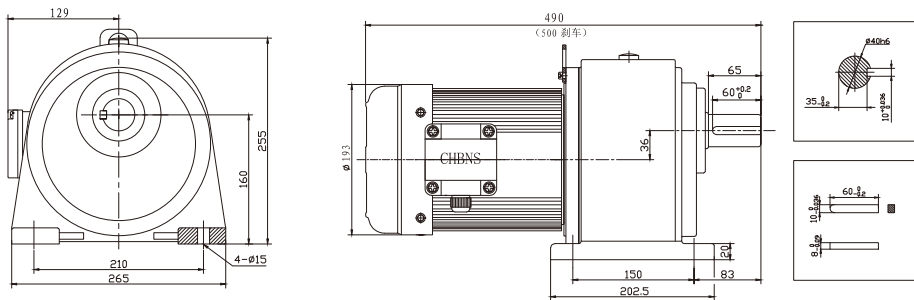
GLW-28-1500-3-30
轻负载缩框型
Light-load Frame-shrunk Type



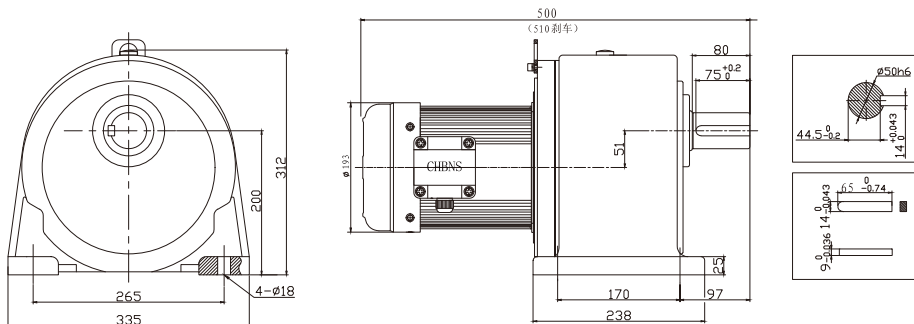
GLW-32-1500-3~30
轻负载缩框型 GLW-32-1500-40~160
Light-load Frame-shrunk Type



GLW-40-1500-35-120



GLW-50-1500-110~200

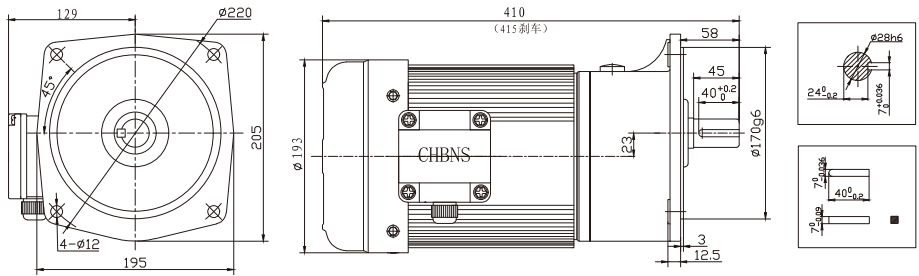


注: 缩框型为轻负载, 无大惯性场合中使用。为不正当设计, 如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.

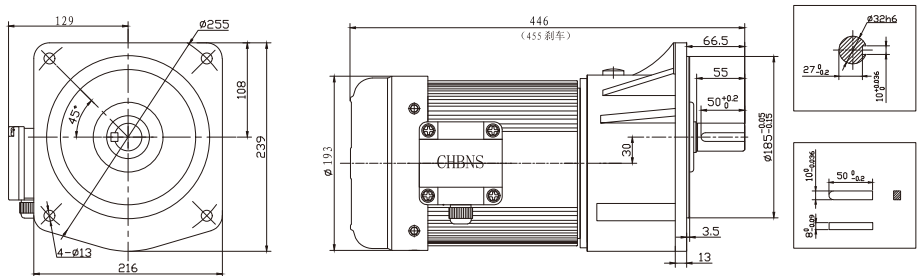
1.5KW
GLF 型立式三相铝壳(刹车)马达减速机
GLF Vertical Type With Aluminum housing
3 Phase (Brake) Gear Motor



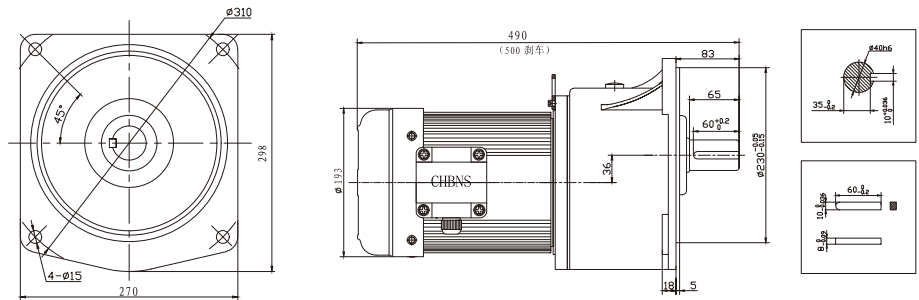
GLF-28-1500-3-30
轻负载缩框型
Light-load Frame-shrunk Type



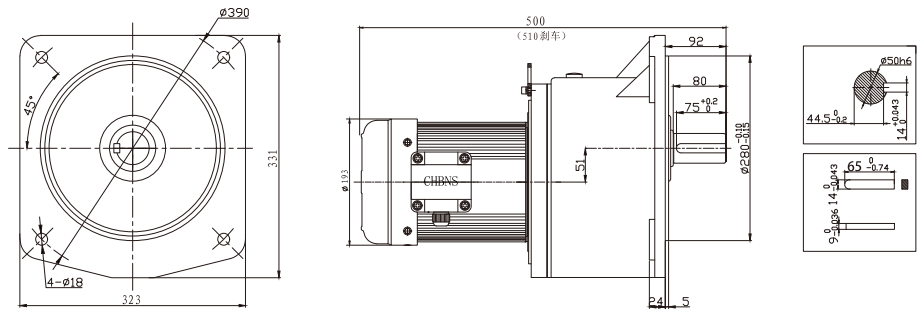
GLF-32-1500-3~30
轻负载缩框型 GLF-32-1500-40~160
Light-load Frame-shrunk Type



GLF-40-1500-35-120



GLF-50-1500-110~200

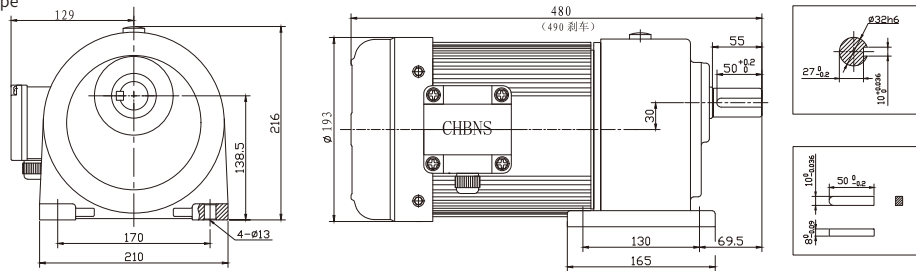


注: 缩框型为轻负载, 无大惯性场合中使用。为不正当设计, 如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.

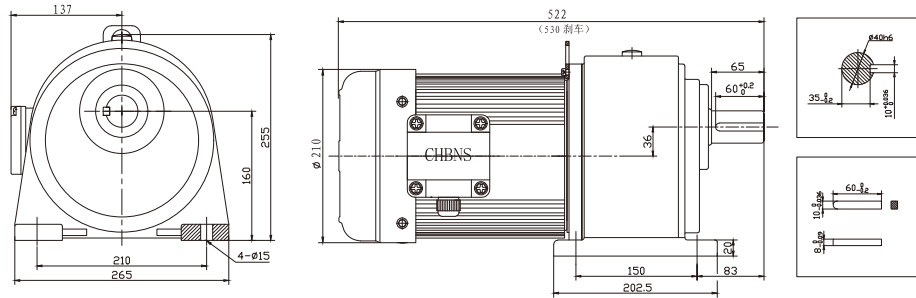
2.2KW
GLW 型卧式三相铝壳(刹车) 马达减速机
GLW Horizontal Type With Aluminum housing
3 Phase (Brake) Gear Motor



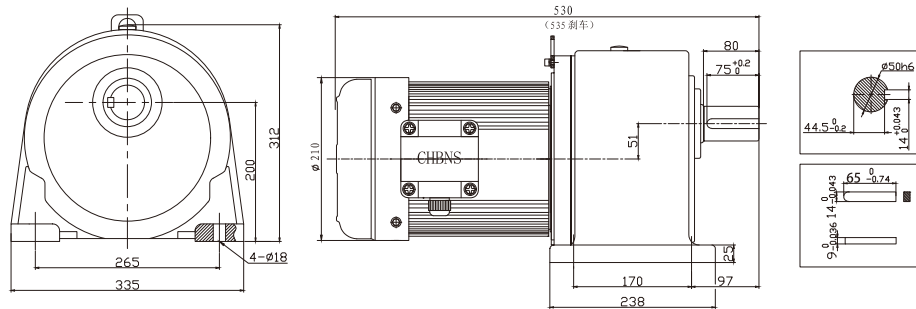
GLW-32-2200-3~40
轻负载缩框型 GLW-32-2200-3~30
Light-load Frame-shrunk Type



GLW-40-2200-3-120



GLW-50-2200-50~100

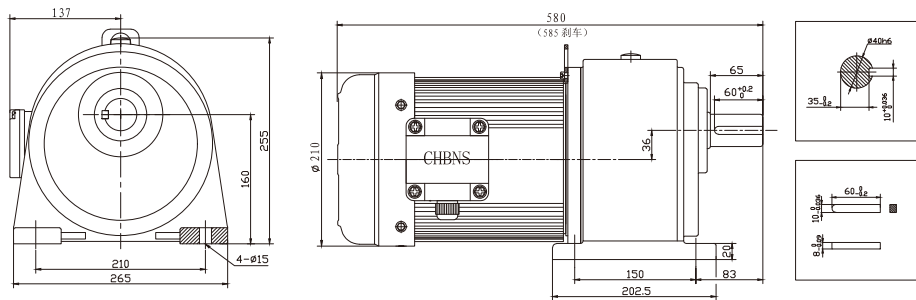


注: 缩框型为轻负载, 无大惯性场合中使用。为不正当设计, 如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.

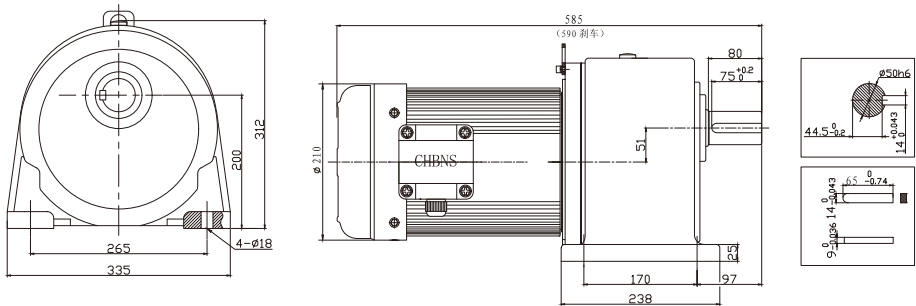
3.7KW
GLW 型卧式三相铝壳(刹车)马达减速机
GLW Horizontal Type With Aluminum housing
3 Phase (Brake) Gear Motor



GLW-40-3700-3~10
轻负载缩框型 GLW-40-15~100
Light-load Frame-shrunk Type



GLW-50-3700-15~60
轻负载缩框型 GLW-50-3700-70~120
Light-load Frame-shrunk Type

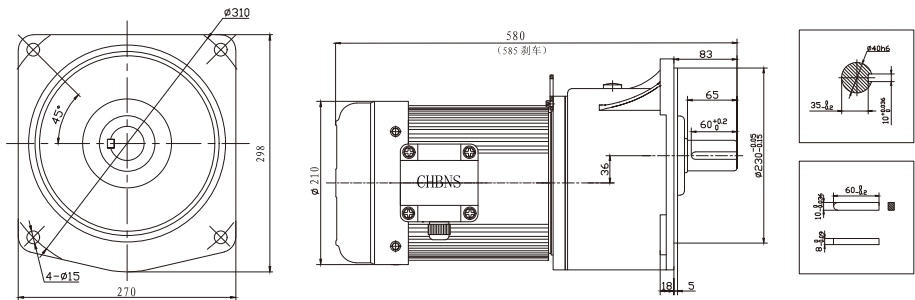


注: 缩框型为轻负载, 无大惯性场合中使用。为不正当设计, 如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.

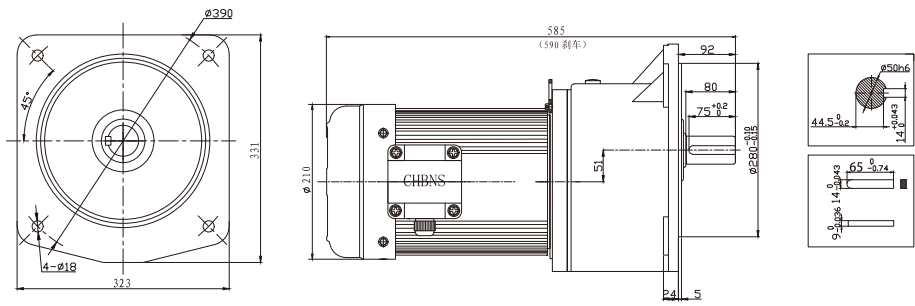
3.7KW
GLF 型立式三相铝壳(刹车)马达减速机
GLF Vertical Type With Aluminum housing
3 Phase (Brake) Gear Motor



GLF-40-3700-3~10
轻负载缩框型 GLF-40-3700-15~100
Light-load Frame-shrunk Type



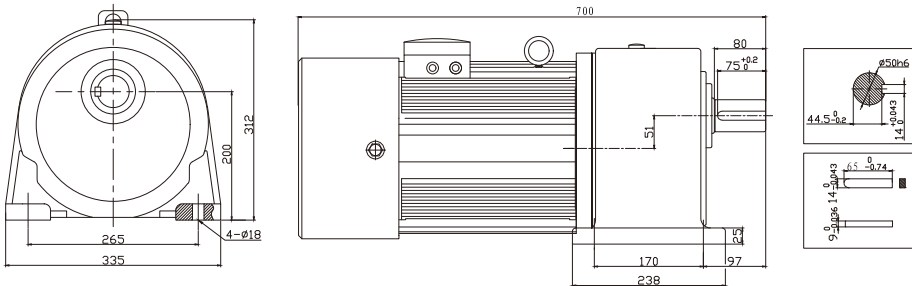
GLF-50-3700-15~60
轻负载缩框型 GLF-50-3700-70120
Light-load Frame-shrunk Type



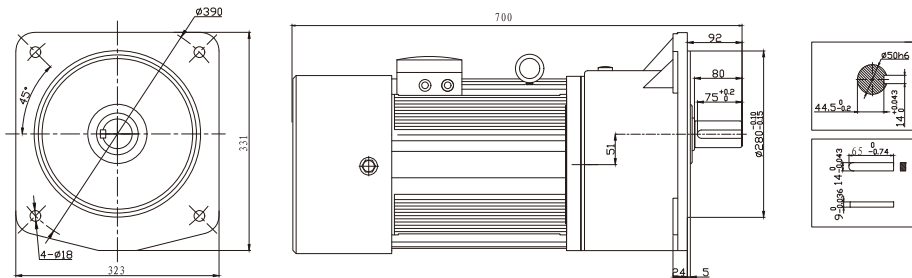
注: 缩框型为轻负载, 无大惯性场合中使用。为不正当设计, 如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.

5.5KW
GLW 型卧式三相铝壳(刹车)马达减速机
GLW Horizontal Type With Aluminum housing
3 Phase (Brake) Gear Motor

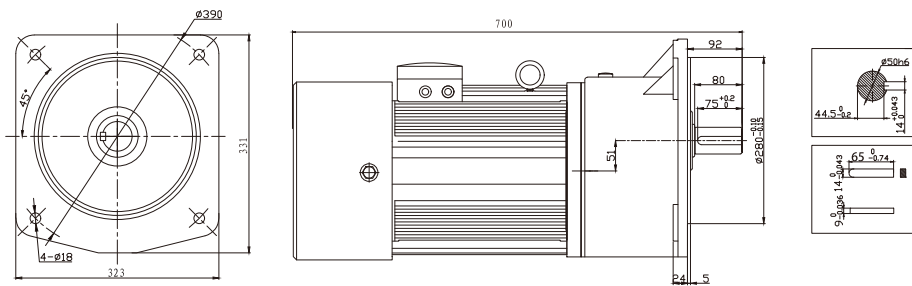
GHW50-5.5KW



GHF50-5.5KW



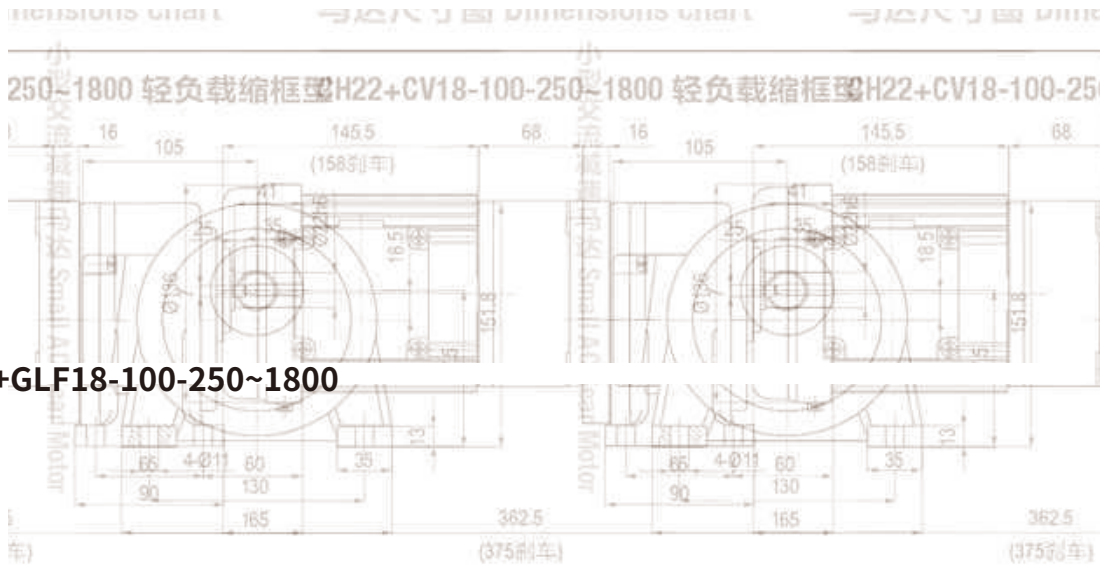
50-5.5KW



注: 缩框型为轻负载, 无大惯性场合中使用。为不正当设计, 如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.

马达尺寸图
Dimensions GLWart

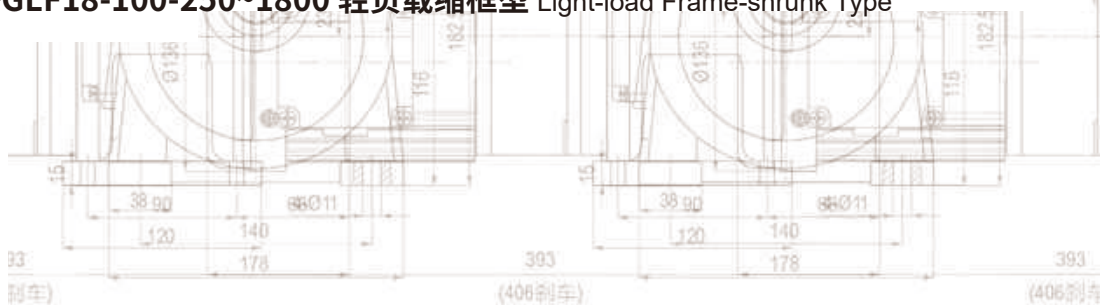
GLW22+GLF18-100-250~1800 轻负载缩框型 Light-load Frame-shrunk Type



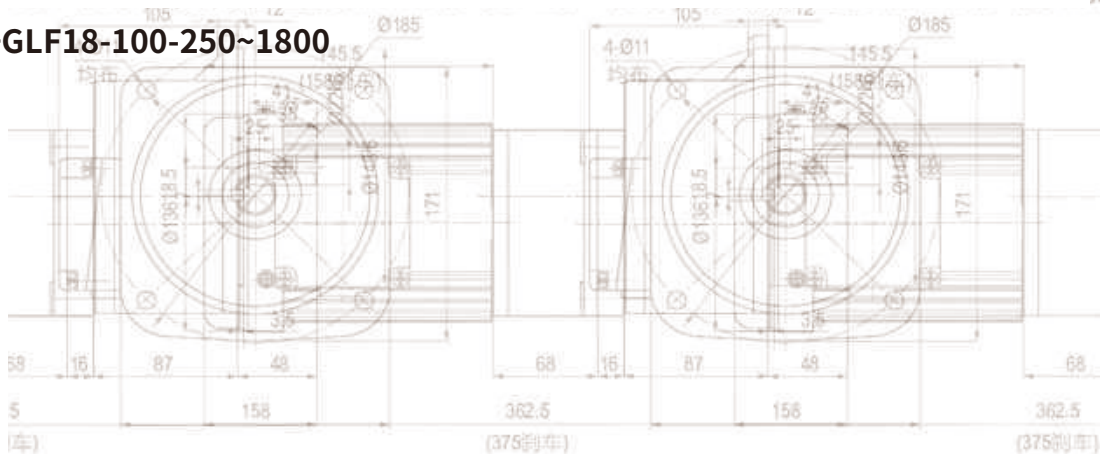
GLW28+GLF18-100-250~1800



GLF22+GLF18-100-250~1800 轻负载缩框型 Light-load Frame-shrunk Type



GLF28+GLF18-100-250~1800



注: 缩框型为轻负载, 无大惯性场合中使用。为不正当设计, 如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.

马达尺寸图
Dimensions GLWart

GLW28+GLF18-200-250~1800 轻负载缩框型 Light-load Frame-shrunk Type

GLW32+GLF22-200-250~1800

GLF28+GLF18-200-250~1800 轻负载缩框型 Light-load Frame-shrunk Type

GLF32+GLF22-200-250~1800

注: 缩框型为轻负载, 无大惯性场合中使用。为不正当设计, 如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.

马达尺寸图
Dimensions GLWart

GLW32+GLF22-400-250~1800 轻负载缩框型 Light-load Frame-shrunk Type

GLW40+GLF28-400-250~1800

GLF32+GLF22-400-250~1800 轻负载缩框型 Light-load Frame-shrunk Type

GLF40+GLF28-400-250~1800

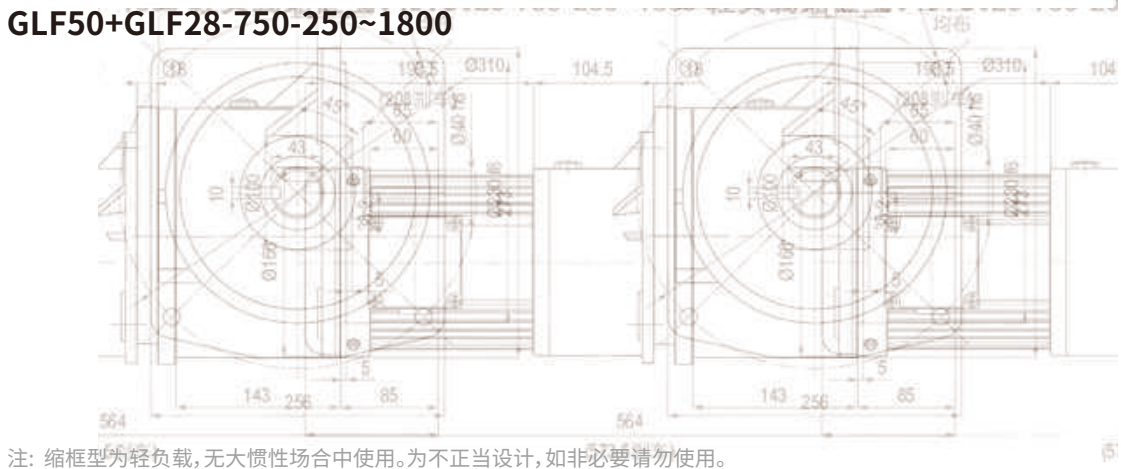
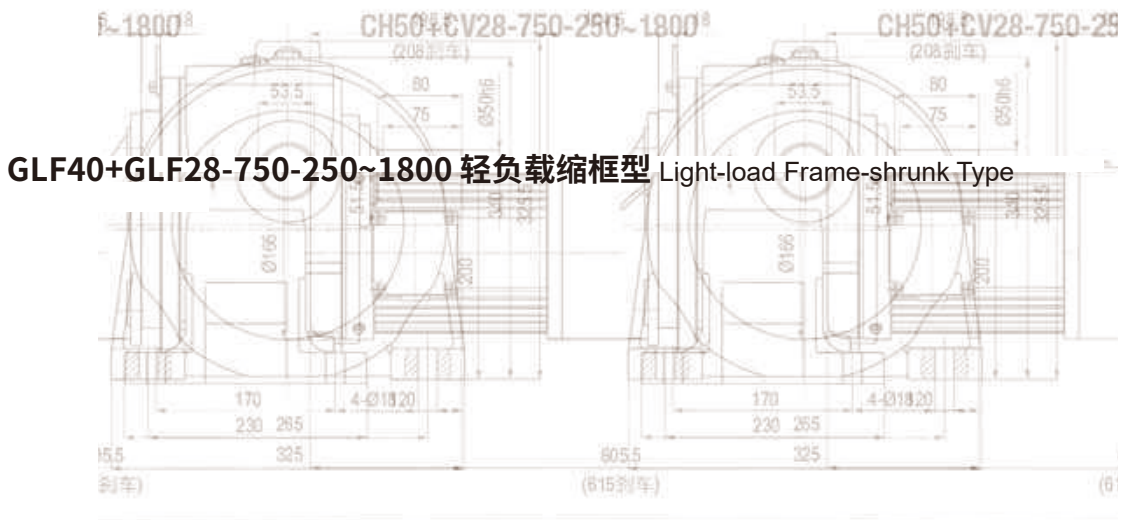
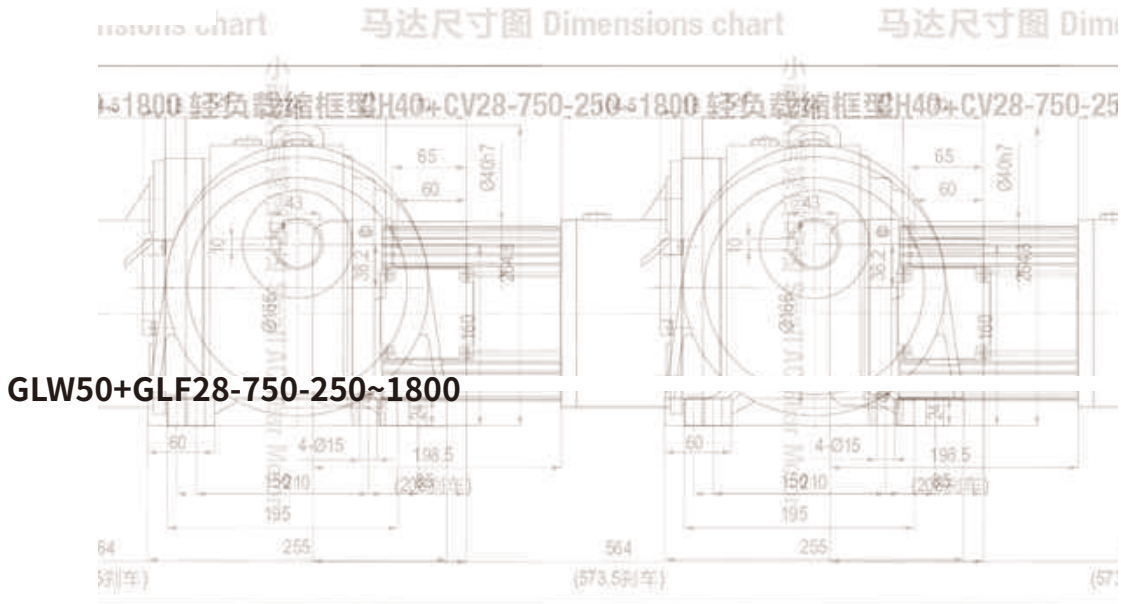
注: 缩框型为轻负载, 无大惯性场合中使用。为不正当设计, 如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.

马达尺寸图

Dimensions GLWart

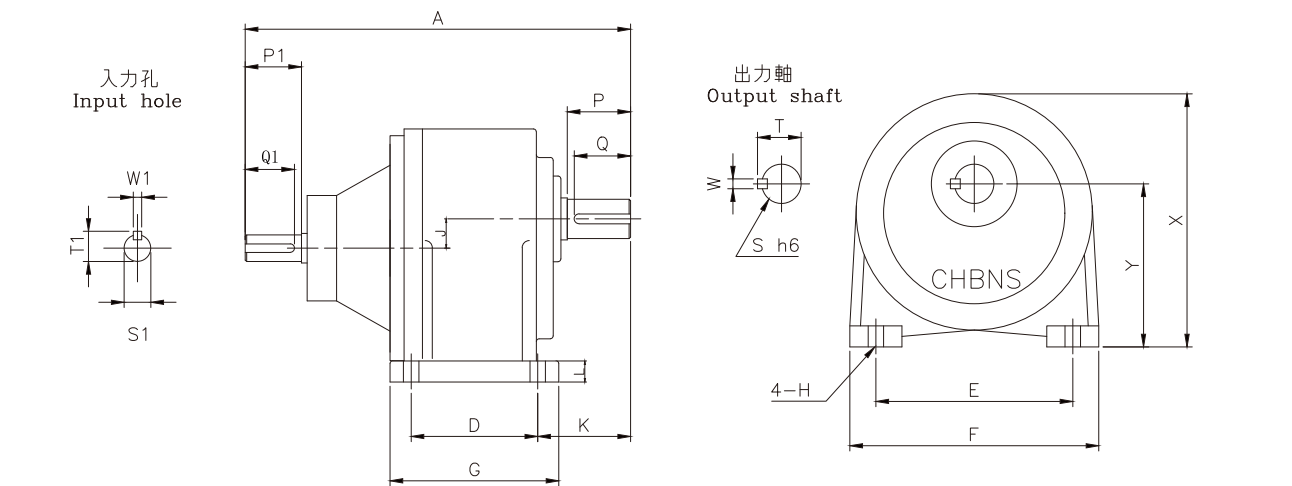
GLW40+GLF28-750-250~1800 轻负载缩框型

Light-load Frame-shrunk Type



注: 缩框型为轻负载, 无大惯性场合中使用。为不正当设计, 如非必要请勿使用。
Note: The frame-shrunk type is for use in light-load, no-large-inertia occasions. It is an improper design. Please do not use it unless necessary.

G系列 (卧式) 双轴型齿轮减速机 GSeries Horizontal Type Gear Reducer

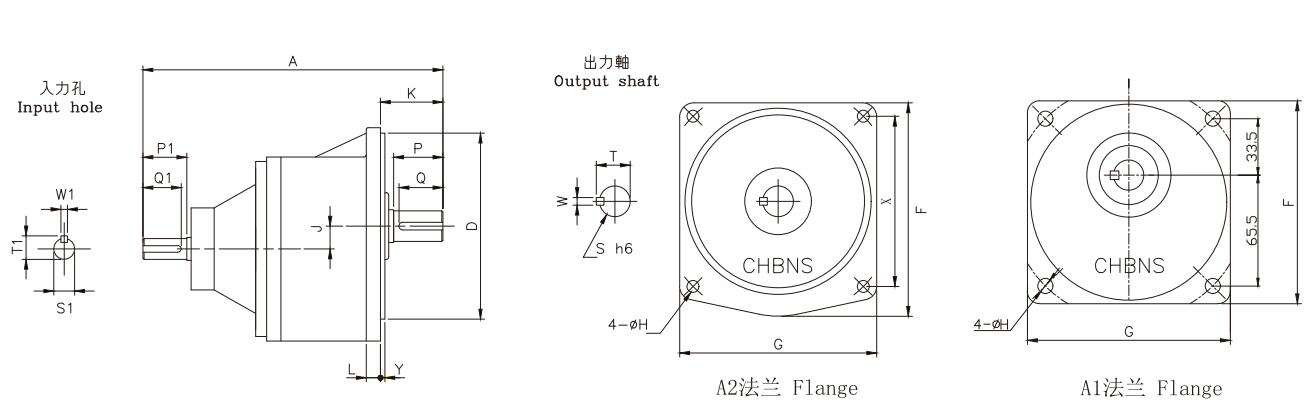


马达尺寸表 Dimensions

马力 (KW)	减速比 Gear Ratio	框号 Type	A	D	E	X	F	G	H	J	K	L	Y	出力轴端 Output Shaft					入力轴端 Input Shaft					重量 App.Wt.Kg	备注 Remark
														P	Q	S	T	W	P1	Q1	S1	T1	W1		
0.1KW	3-50	18	167	40	110	135	65	9	16.5	50	10	133	88.5	64	30	27	18	20	5	25	22	14	15.5	4	3
	60-200	22	194	65	130	158	90	11	18	60	13	147	97.5	79.5	40	35	22	25	7	25	22	14	15.5	4	4.2
0.2KW	5-10	18	167	40	110	135	65	9	16.5	50	10	133	88.5	64	30	27	18	20	5	25	22	14	15.5	4	3
	12.5-25	18*	167	40	110	135	65	9	16.5	50	10	133	88.5	64	30	27	18	20	5	25	22	14	15.5	4	3
	12.5-100	22	194	65	130	158	90	11	18	60	13	147	97.5	79.5	40	35	22	25	7	25	22	14	15.5	4	4.2
	120-200	28	221	90	140	178	120	11	22	62	16	171	116	94	45	40	28	31	7	30	25	16	18	5	5.5
0.4KW	5-10	22	194	65	130	158	90	11	18	60	13	147	97.5	79.5	40	35	22	25	7	25	22	14	15.5	4	4.2
	12.5-25	22*	194	65	130	158	90	11	18	60	13	147	97.5	79.5	40	35	22	25	7	25	22	14	15.5	4	4.2
	12.5-100	28	221	90	140	178	120	11	22	62	16	171	116	94	45	40	28	31	7	30	25	16	18	5	5.5
	120-200	32	257	130	170	210	165	13	27	76.5	18	208	140	113	55	50	32	36.5	10	30	25	19	21	5	16
0.75KW	5-25	28	221	90	140	178	120	11	22	62	16	171	116	94	45	40	28	31	7	30	25	16	18	5	6.5
	30-120	32	257	130	170	210	165	13	27	76.5	18	208	140	113	55	50	32	36.5	10	30	25	19	21	5	19.5
	120-200	40	305	150	210	265	198	15	32.5	89	24	252	162	129.5	65	60	40	44	10(12)	35	30	24	27	7	38
1.5KW	5-30	32	257	130	170	210	165	13	27	76.5	18	208	140	113	55	50	32	36.5	10	30	25	19	21	5	19.5
	40-100	40	305	150	210	265	198	15	32.5	89	24	252	162	129.5	65	60	40	44	10(12)	35	30	24	27	7	38
	120-200	50	352	170	265	210	210	18	40	120	31	305	200	160	75	70	50	53.5	14	45	40	28	31	8	51.2
2.2KW	15-60	40	305	150	210	265	198	15	32.5	89	24	252	162	129.5	65	60	40	44	10(12)	35	30	28	27	7	39
	75-120	50	352	170	265	321	210	18	40	120	31	305	200	160	75	70	50	53.5	14	45	40	28	31	8	53
3.7KW	5-20	40	305	150	210	265	198	15	32.5	89	24	252	162	129.5	65	60	40	44	10(12)	35	30	28	27	7	39
	25-100	50	352	170	265	321	210	18	40	120	31	305	200	160	75	70	50	53.5	14	45	40	28	31	8	53

1.* 为轻扭力之机型 / *Indicates motor of amaller torque.
2.40~50筒齿箱上附加O型吊环 (高度约 50mm)/ “O” type rings shall be attached to the 40~50mm gear box. (add.Height:50mm)
< 以上数值若有变动, 恕不另行通知 >/We reserve the right to change without further notice.

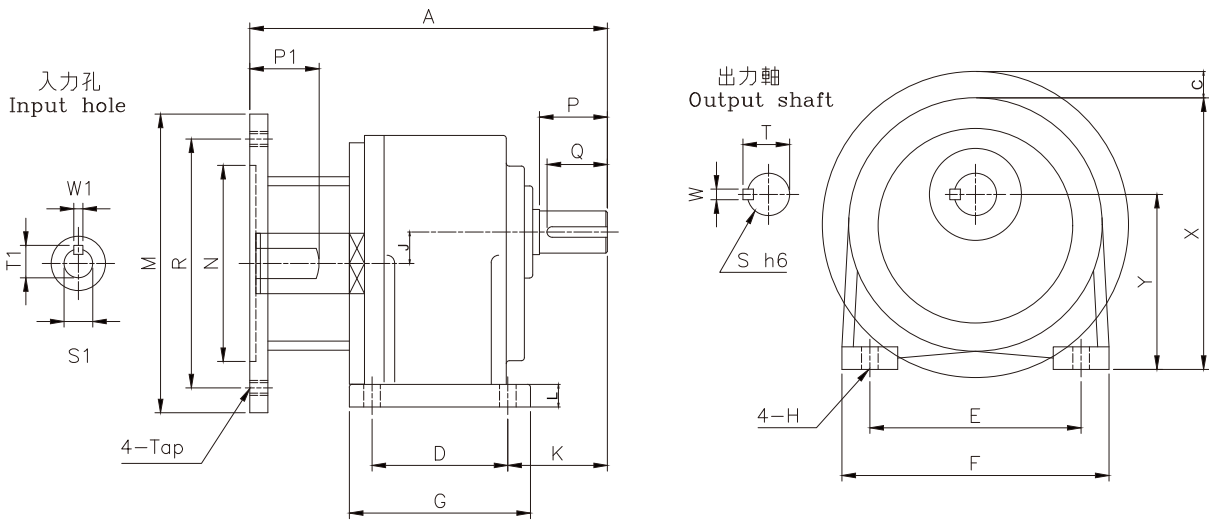
G系列 (立式) 双轴型齿轮减速机 Gseries Vertical Type Gear Reducer



马达尺寸表 Dimensions

马力 (KW)	减速比 Gear Ratio	框号 Type	A	D	E	X	F	G	H	J	K	L	Y	出力轴端 Output Shaft					入力轴端 Input Shaft					重量 App.Wt.Kg	备注 Remark
														P	Q	S	T	W	P1	Q1	S1	T1	W1		
0.1KW	3-50	18	167	50	140	99	120	120	9	16.5	40	12	6	30	27	18	20	5	25	22	14	15.5	4	3	A1法兰
	60-200	22	194	148	185	131	175	165	11	18	48	12	3	40	35	22	25	7	25	22	14	15.5	4	4.2	A2法兰
0.2KW	5-10	18	167	50	140	99	120	120	9	16.5	40	12	6	30	27	18	20	5	25	22	14	15.5	4	3	A1法兰
	12.5-25	18*	167	50	140	99	120	120	9	16.5	40	12	6	30	27	18	20	5	25	22	14	15.5	4	3	A1法兰
	12.5-100	22	174	148	185	131	175	165	11	18	48	12	3	40	35	22	25	7	25	22	14	15.5	4	4.2	A2法兰
	120-200	28	221	170	220	156	205	195	12	22	51	16	3	45	40	28	31	7	30	25	16	18	5	5.5	A2法兰
0.4KW	5-10	22	194	148	185	131	175	165	11	18	48	12	3	40	35	22	25	7	25	22	14	15.5	4	4.2	A2法兰
	12.5-25	22*	194	148	185	131	175	165	11	18	48	12	3	40	35	22	25	7	25	22	14	15.5	4	4.2	A2法兰
	12.5-100	28	221	170	220	156	205	195	12	22	51	16	3	45	40	28	31	7	30	25	16	18	5	5.5	A2法兰
	120-200	32	257	185	255	180	248	225	15	27	65	16	3	55	50	32	36.5	10	30	25	19	21	5	16	A2法兰
0.75KW	5-25	28	221	170	220	156	205	195	12	22	51	16	3	45	40	28	31	7	30	25	16	18	5	6.5	A2法兰
	30-120	32	257	185	255	180	248	225	15	27	65	16	3	55	50	32	36.5	10	30	25	19	21	5	19.5	A2法兰
	120-200	40	305	230	310	219	291	272	15	32.5	85	20	5	65	60	40	44	10(12)	35	30	24	27	7	38	A2法兰
1.5KW	5-30	32	257	185	255	180	248	225	15	27	65	16	3	55	50	32	36.5	10	30	25	19	21	5	19.5	A2法兰
	40-100	40	305	230	310	219	291	272	15	32.5	85	20	5	65	60	40	44	10(12)	35	30	24	27	7	38	A2法兰
	120-200	50	352	280	390	276	372	342	18	40	92	21	5	75	70	50	53.5	14	45	40	28	31	8	51.2	A2法兰
2.2KW	15-60	40	305	230	310	219	291	272	15	32.5	85	20	5	65	60	40	44	10(12)	35	30	28	27	7	39	A2法兰
	75-120	50	352	280	390	276	372	342	18	40	92	21	5	75	70	50	53.5	14	45	40	28	31	8	53	A2法兰
3.7KW	5-20	40	305	230	310	219	291	272	15	32.5	85	20	5	65	60	40	44	10(12)	35	30	28	27	7	39	A2法兰
	25-100	50	352	280	390	276	372	342	18	40	92	21	5	75	70	50	53.5	14	45	40	28	31	8	53	A2法兰

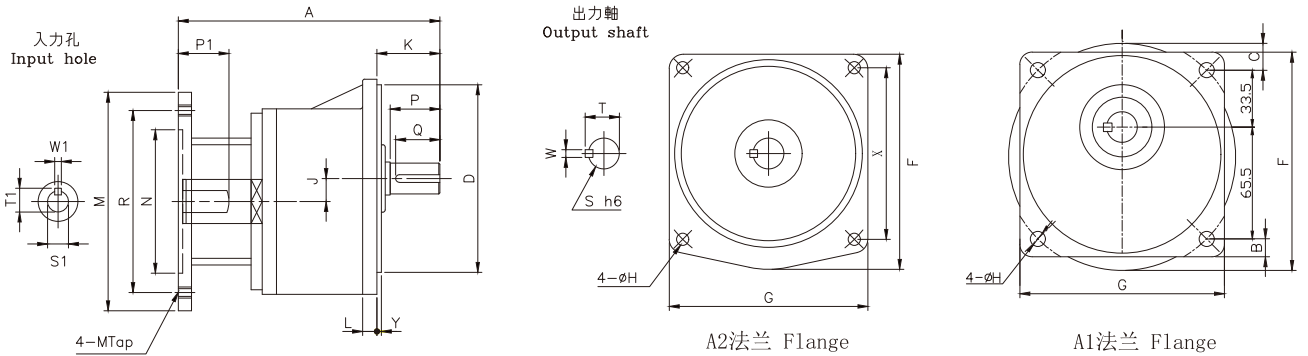
1.* 为轻扭力之机型。
1.* Indicates motor of amaller torque.
< 以上数值若有变动, 恕不另行通知 >/We reserve the right to change without further notice.



马达尺寸表 Dimensions

马力 (KW)	减速比 Gear Ratio	框号 Type	A	B	C	D	E	F	G	H	J	K	L	M	N	R	X	Y	Z	入力軸端 Input Shaft				出力軸端 Output Shaft					重量 App.Wt.Kg
																				P1	S1	T1	W1	P	Q	S	T	W	
0.1KW	3-50	18	155	11	22	40	110	135	65	9	16.5	50	10	140	95	115	133	88.5	4	26	11	12.7	4	30	27	18	20.2	5	5
	60-200	22	175	8	8	65	130	158	90	11	18	60	13	140	95	115	147	97.5	4	26	11	12.7	4	40	35	22	25	7	6.2
0.2KW	3-10	18	155	11	22	40	110	135	65	9	16.5	50	10	140	95	115	133	88.5	4	26	11	12.7	4	30	17	18	20.2	5	5
	12.5-25	18*	155	11	22	40	110	135	65	9	16.5	50	10	140	95	115	133	88.5	4	26	11	12.7	4	30	17	18	20.2	5	5
	12.5-100	22	175	8	8	65	130	158	90	11	18	60	13	140	95	115	147	97.5	4	26	11	12.7	4	40	35	22	25	7	6.2
	120-200	28	191	-	-	90	140	178	120	11	22	62	16	140	95	115	171	116	4	26	11	12.7	4	45	40	28	31	7	7.5
0.4KW	3-10	22	185	8	8	65	130	158	90	11	18	60	13	140	95	115	147	97.5	4	33	14	16.2	5	40	35	22	25	7	6.2
	12.5-25	22*	185	8	8	65	130	158	90	11	18	60	13	160	110	130	147	97.5	4	33	14	16.2	5	40	35	22	25	7	6.2
	12.5-100	28	201	-	-	90	140	178	120	11	22	62	16	160	110	130	171	116	4	33	14	16.2	5	45	40	28	31	7	7.5
	120-200	32	226	-	-	130	170	210	165	13	27	76.5	18	160	110	130	208	140	4	33	14	16.2	5	55	50	32	36.5	10	19
0.75KW	3-25	28	201	13.5	-	90	140	178	120	11	22	62	16	200	130	165	171	116	4.5	43	19	21.7	6	45	40	28	31	7	7.5
	30-120	32	230	-	-	130	170	210	165	13	27	76.5	18	200	130	165	208	140	4.5	43	19	21.7	6	55	50	32	36.5	10	20.5
	120-200	40	259	-	-	150	210	265	198	15	32.5	89	24	200	130	165	252	162	4.5	43	19	21.7	6	65	60	40	44	10 (12)	39
1.5KW	3-30	32	246	-	-	130	170	210	165	13	27	76.5	18	200	130	165	208	140	4.5	53	24	27.2	8	55	50	32	36.5	10	20.5
	40-100	40	275	-	-	150	210	265	198	15	32.5	89	24	200	130	165	252	162	4.5	53	24	27.2	8	65	60	40	44	10 (12)	39
	120-200	50	317	-	-	170	265	321	238	18	40	120	31	200	130	165	305	200	4.5	53	24	27.2	8	80	75	50	53.5	14	52.2
2.2KW	15-60	40	280	3	-	150	210	265	198	15	32.5	89	24	250	180	215	252	162	4.5	63	28	31.2	8	65	60	40	44	10 (12)	40
	75-120	50	323	-	-	170	265	321	238	18	40	120	31	250	180	215	305	200	4.5	63	28	31.2	8	80	75	50	53.5	14	54
3.7KW	3-20	40	280	3	-	150	210	265	198	15	32.5	89	24	250	180	215	252	162	4.5	63	28	31.2	8	65	60	40	44	10 (12)	40
	25-100	50	323	-	-	170	265	321	238	18	40	120	34	250	180	215	305	200	4.5	63	28	31.2	8	80	75	50	53.5	14	54

1. *为轻扭力之机型 /*Indicates motor of smaller torque.
2. 40 - 50 筒齿箱上附加 O 型吊环 (高度约 50mm) /"O" type rings shall be attached to the 40 - 50mm gear box. (add.Height:50mm)
3. 中间铤螺丝孔 0.1 - 0.4 为 M8 0.75 - 1.5 为 M10 .2 - 3.7 为 M12/Central screw hole for 0.1 - 0.4 motor shall be M8 Central screw hole for 0.75 - 1.5 motor shall be M10 Central screw hole for 2.2 - 3.7 motor shall be M12
- <以上数值若有变动,恕不另行通知>/We reserve the right to change without further notice.



马达尺寸表 Dimensions

马力 (KW)	减速比 Gear Ratio	框号 Type	A	B	C	D	E	X	F	G	H	J	K	L	M	N	R	Y	Z	入力轴端 Input Shaft				出力轴端 Output Shaft					重量 App.Wt.Kg	备注 Remark
																				P1	S1	T1	W1	P	Q	S	T	W		
0.1KW	3-50	18	155	20	20	50	140	99	120	120	9	16.5	40	12	140	95	115	6	4	26	11	12.7	4	30	27	27	20.2	5	5	A1法兰
	60-200	22	175	7	-	148	185	131	175	165	11	18	48	12	140	95	115	3	4	26	11	12.7	4	40	35	22	25	7	6.2	A2法兰
0.2KW	3-10	18	155	20	20	50	140	99	120	120	9	16.5	40	12	140	95	115	6	4	26	11	12.7	4	30	17	18	20.2	5	5	A1法兰
	12.5-25	18*	155	20	20	50	140	99	120	120	9	16.5	40	12	140	95	115	6	4	26	11	12.7	4	30	17	18	20.2	5	5	A1法兰
	12.5-100	22	175	7	-	148	185	131	175	165	11	18	48	12	140	95	115	3	4	26	11	12.7	4	40	35	22	25	7	6.2	A2法兰
	120-200	28	191	-	-	170	220	156	205	195	12	22	51	16	140	95	115	3	4	26	11	12.7	4	45	40	28	31	7	7.5	A2法兰
0.4KW	3-10	22	185	7	-	148	185	131	175	165	11	18	48	12	160	110	130	3	4	33	14	16.2	5	40	35	22	25	7	6.2	A2法兰
	12.5-25	22*	185	7	-	148	185	131	175	165	11	18	48	12	160	110	130	3	4	33	14	16.2	5	40	35	22	25	7	6.2	A2法兰
	12.5-100	28	201	-	-	170	220	156	205	195	12	22	51	16	160	100	130	3	4	33	14	16.2	5	45	40	28	31	7	7.5	A2法兰
	120-200	32	226	-	-	185	255	180	248	225	15	27	65	16	160	100	130	3	4	33	14	16.2	5	55	50	32	36.5	10	19	A2法兰
0.75KW	3-25	28	201	17.5	-	170	220	156	205	195	12	22	51	16	200	130	165	3	4.5	43	19	21.7	6	45	40	28	31	7	7.5	A2法兰
	30-120	32	230	2	-	185	255	180	248	225	15	27	65	16	200	130	165	3	4.5	43	19	21.7	6	55	50	32	36.5	10	20.5	A2法兰
	120-200	40	259	-	-	230	310	219	291	272	15	32.5	85	20	200	130	165	5	4.5	43	19	21.7	6	65	60	40	44	10 (12)	39	A2法兰
1.5KW	3-30	32	246	2	-	185	255	180	248	225	15	27	65	16	200	130	165	3	4.5	53	24	27.2	8	55	50	32	36.5	10	20.5	A2法兰
	40-100	40	275	-	-	230	310	219	291	272	15	32.5	85	20	200	130	165	5	4.5	53	24	27.2	8	65	60	40	44	10 (12)	39	A2法兰
	120-200	50	317	13.5	-	280	390	276	372	342	18	40	92	21	200	130	165	5	4.5	53	24	27.2	8	80	75	50	53.5	14	52.2	A2法兰
2.2KW	15-60	40	280	2.5	-	230	310	219	291	272	15	32.5	85	20	250	180	215	5	4.5	63	28	31.2	8	65	60	40	44	10 (12)	40	A2法兰
	75-120	50	323	13.5	-	280	390	276	372	342	18	40	92	21	250	180	215	5	4.5	63	28	31.2	8	80	75	50	53.5	14	54	A2法兰
3.7KW	3-20	40	280	2.5	-	230	310	219	291	272	15	32.5	85	20	250	180	215	5	4.5	63	28	31.2	8	65	60	40	44	10 (12)	40	A2法兰
	25-100	50	323	13.5	-	280	390	276	372	342	18	40	92	21	250	180	215	5	4.5	63	28	31.2	8	80	75	50	53.5	14	54	A2法兰

1. *为轻扭力之机型 /*Indicates motor of smaller torque.
2. 40 - 50 筒齿箱上附加 O 型吊环 (高度约 50mm) /"O" type rings shall be attached to the 40 - 50mm gear box. (add.Height:50mm)
3. 中间铤螺丝孔 0.1 - 0.4 为 M8 0.75 - 1.5 为 M10 .2 - 3.7 为 M12/Central screw hole for 0.1 - 0.4 motor shall be M8 Central screw hole for 0.75 - 1.5 motor shall be M10 Central screw hole for 2.2 - 3.7 motor shall be M12
- <以上数值若有变动,恕不另行通知>/We reserve the right to change without further notice.