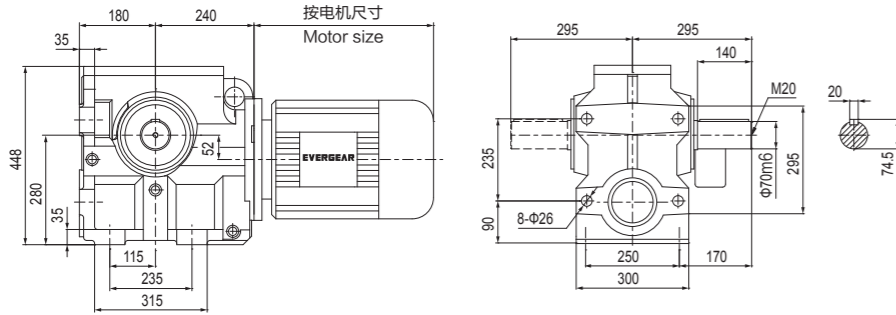
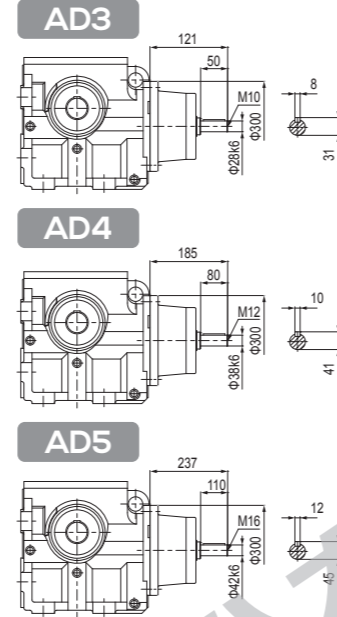


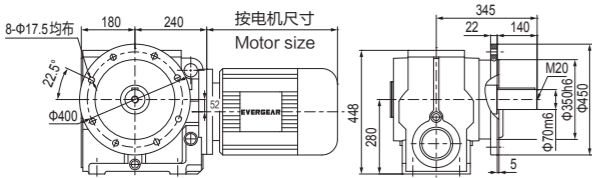
ES97



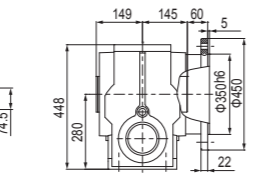
ES..S97



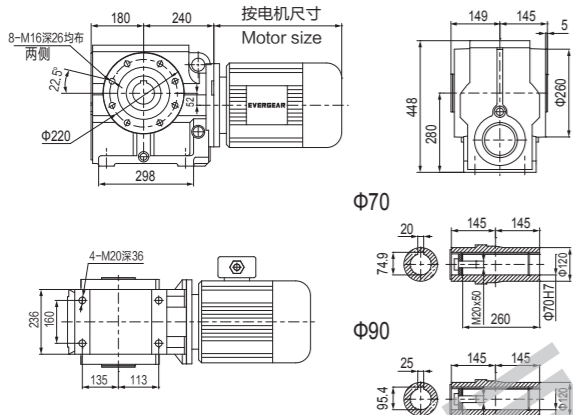
ESF97



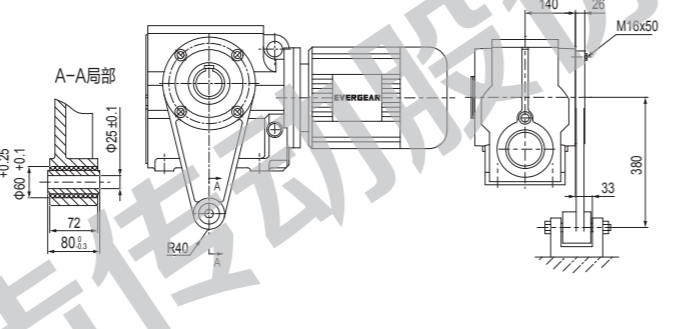
ESAF97



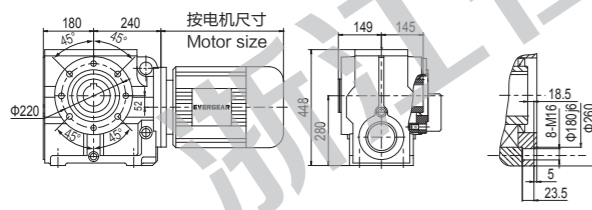
ESA97



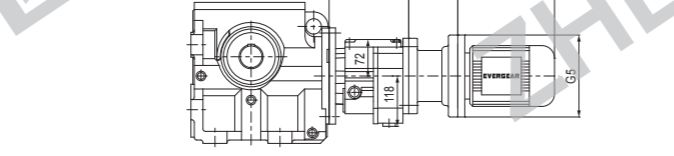
ESAT97



ESAZ97

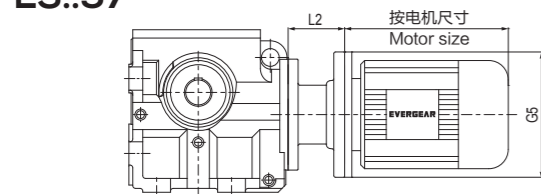


ES..97ER57



Y2电机座号 Motor size	63	71	80	90	100	112					
功率4P Power/(kw)	0.12	0.18	0.25	0.37	0.55	0.75	1.1	1.5	2.2	3.0	4
L1	68	68	81.5	81.5	88.5	88.5					
G5	Φ140	Φ160	Φ200	Φ200	Φ250	Φ250					

ES..97



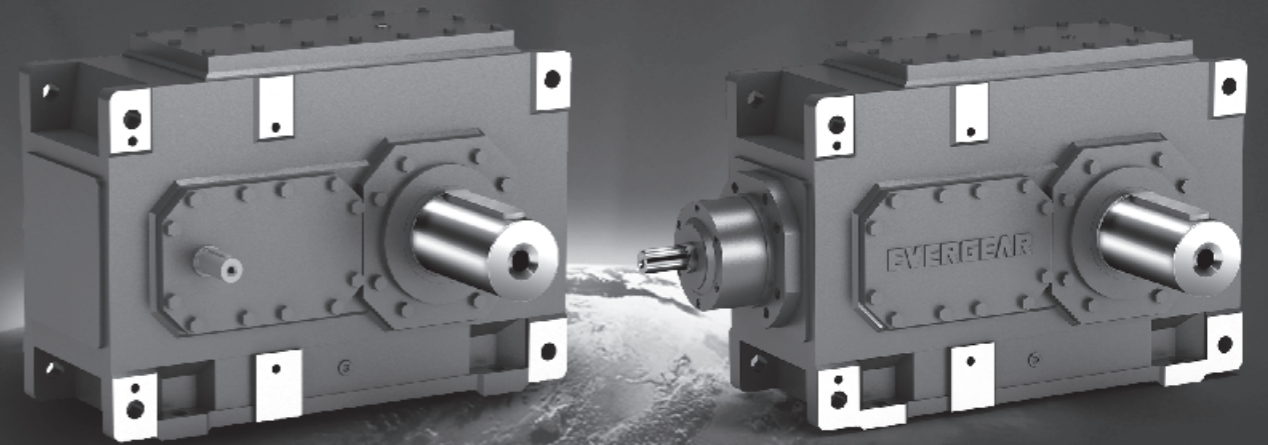
需方自配电机需加联接法兰
Customers provide the motor by themselves need connected flange

Y2电机座号 Motor size	90	100	112	132	160	180				
功率4P Power/(kw)	1.5	2.2	3	4	5.5	7.5	11	15	18.5	22
L2	66	73	73	99	138	138				
G5	Φ200	Φ250	Φ250	Φ300	Φ350	Φ350				

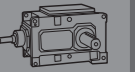
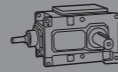
1. ESA、ESF、ESAF、ESAZ壳体为通用件，安装尺寸均可互相参照。
2. "ES.."表示ES系列所有结构形式。
3. 带胀紧盘结构形式，胀紧盘尺寸详见007页。
4. ESA、ESAF、ESAZ、ESAT输出轴为通用件，尺寸相同。
1. The housings of ESA、ESF、ESAF、ESAZ are common parts. The mounting dimensions may consult each other.
2. "ES.." mean all mounting type of ES series.
3. With expansion plate mounting type, see P007 for size details of expansion plate.
4. The output shafts of ESA、ESAF、ESAZ、ESAT are common parts, dimensions are the same.

*EH/EB Series

大功率齿轮减速机
High Power Reducer



EVERGEAR



齿轮箱 目录 Gear Units Contents

基本类型概述 Summary of basic types		页码 Page	208
齿轮箱型号表示方法, 性能特点, 一般说明 Gear units designation of types, characteristic, general information		页码 Page	209~211
齿轮箱选型, 额定功率, 输出扭矩, 实际速比, 允许的附加径向力 Selection of gear units, nominal power ratings, output torque, actual ratios, permissible additional radial forces.		页码 Page	212~260
安装方式 Mounting	卧式安装 Horizontal	平行轴齿轮箱 Helical gear units EH1SH	页码 Page 261~262
		平行轴齿轮箱 Helical gear units EH2SH, EH2HH, EH2DH, EH2KH, EH2HM, EH2DM, EH2KM EH3SH, EH3HH, EH3DH, EH3KH, EH3HM, EH3DM, EH3KM EH4SH, EH4HH, EH4DH, EH4KH, EH4HM, EH4DM, EH4KM	页码 Page 263~280
	直交轴齿轮箱 Bevel-helical gear units EB2SH, EB2HH, EB2DH, EB2KH, EB2HM, EB2DM, EB2KM EB3SH, EB3HH, EB3DH, EB3KH, EB3HM, EB3DM, EB3KM EB4SH, EB4HH, EB4DH, EB4KH, EB4HM, EB4DM, EB4KM	页码 Page 281~296	
	立式安装 Vertical	平行轴齿轮箱 Helical gear units EH2SV, EH2HV, EH2DV, EH2KV EH3SV, EH3HV, EH3DV, EH3KV EH4SV, EH4HV, EH4DV, EH4KV	页码 Page 297~308
直交轴齿轮箱 Bevel-helical gear units EB2SV, EB2HV, EB2DV, EB2KV EB3SV, EB3HV, EB3DV, EB3KV EB4SV, EB4HV, EB4DV, EB4KV		页码 Page 309~320	
中心孔平键及键槽的配合精度, 选用标准 ISO Selection of ISO fits, Centre holes, parallel keys and keyways		页码 Page	321~322
带胀紧盘联接的空心轴, 带平键联接的空心轴, 带花键联接的空心轴 Hollow shaft for shrink disk, parallel key connections, hollow shaft with involute splines		页码 Page	323~330
转动惯量 J1 Mass moments of inertia J1		页码 Page	331~334
立式安装齿轮箱润滑油供给方式 (强制润滑和浸油润滑) Oil supply for vertical gear units (forced and dip lubrication)		页码 Page	335~337
特殊安装和附件 Special installation and accessories		页码 Page	339~343
斗式提升机用减速机 Bucket elevator drives		页码 Page	344~363

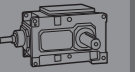
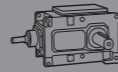
齿轮箱 基本类型概述 Gear Units Summary of Basic Types

卧式安装 Horizontal mounting

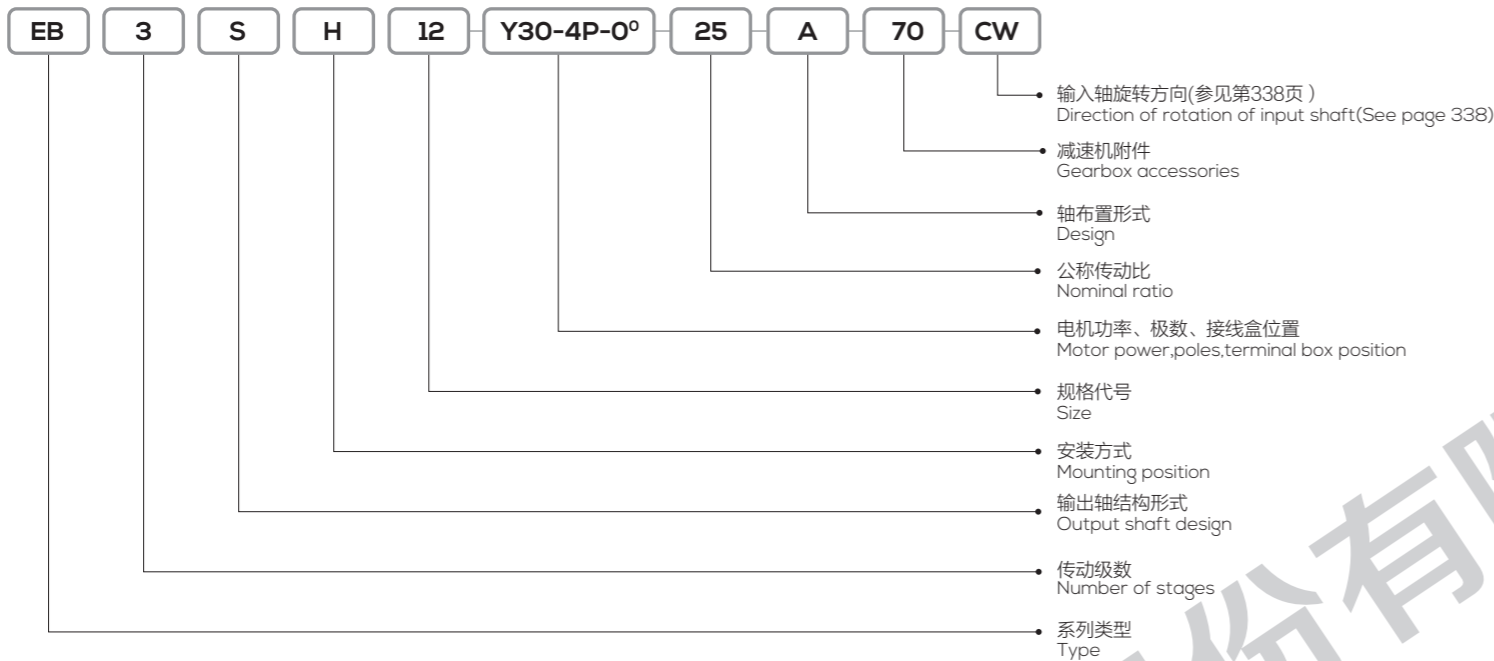
平行轴齿轮箱类型 Helical gear units Types				
EH1..., EH2..., EH3..., EH4..., 1-4 级 (Stage), iN=1.25-450				
EH1SH	EH2HH	EH3DH	EH4KH	EH4HM, EH4DM, EH4KM
直交轴齿轮箱类型 Bevel-helical gear units Types				
EB2..., EB3..., EB4..., 2-4 级 (Stage), iN=5-400				
EB2SH	EB3HH	EB4DH	EB4KH	EB4HM, EB4DM, EB4KM

立式安装 Vertical mounting position

平行轴齿轮箱类型 Helical gear units Types			
EH2.V, EH3.V, EH4.V, 2-4 级 (Stage), iN=6.3-450			
EH2SV	EH3HV	EH4DV	EH4KV
直交轴齿轮箱类型 Bevel-helical gear units Types			
EB2..., EB3..., EB4..., 2-4 级 (stage), iN=5-400			
EB2SV	EB3HV	EB4DV	EB4KV



齿轮箱 型号表示方法 Designation of Types



型号说明 Explanation of types	上例说明 Explanation of the above example	型号说明 Explanation of types	上例说明 Explanation of the above example
系列类型 Types EH—平行轴齿轮箱 EB—直交轴齿轮箱 EH-Helical EB-Bevel-helical	直交轴系列 Bevel-helical	传动级数 Number of stages 一级 二级 三级 四级 1-stage 2-stage 3-stage 4-stage	三级传动 3-stage
输出轴结构形式 Output shaft design: S 实心轴 D 带胀紧盘的空心轴 H 空心轴 K 带花键的空心轴 S Solid shaft H Hollow shaft D Hollow shaft for shrink disk K Hollow shaft with involute splines	实心轴输出 Solid shaft output	安装方式 Mounting positions H 卧式安装 V 立式安装 M 卧式安装不带底脚 H Horizontal M Horizontal design without feet V Vertical	卧式安装 Horizontal
规格代码 Size 1~26号座机 Size 1~26	12号座机 Size 12	公称传动比 Nominal ratio 公称传动比iN (见220~256页) Nominal ratio iN[see page 220-256]	公称传动比iN=25 Nominal ratio iN=25
轴布置形式 Design of shaft A、B、C、D等(见261~319页) A、B、C、D,etc[see page 261-319]	轴布置形式为A Design A	附件代码 Accessories code 70.74.75等(见338页) 70.74.75, etc[see page-338]	附件代号为70 Design 70
EB系列输入轴旋转方向 The direction of rotation of the EB serie input shaft: 面对输入轴看, CW为顺时针 CCW为逆时针, EH省略 viewing on input shaft: CW is Clockwise, CW is Counter clockwise, EH' s omitted.	输入轴为顺时针方向 Direction of rotation of input shaft is clockwise	EH... 	EB...

齿轮箱 性能特点 Gear Units Characteristic

设计 Design

恒齿传动齿轮箱采用全新设计.其独特的创新在于:

- 零件种类减少而规格数量增多;
- 传动功率增大,运行可靠性提高;
- 可以提供适于狭小空间安装的法兰轴(敬请垂询)。

EVERGEAR gear units are a completely new design. Advantages are.

- more sizes with a reduced variety of parts;
- higher operational reliability combined with increased power capacity;
- flanged output shafts to facilitate assembly of gear units in confined spaces (on request).

安装方式 Mounting position

可以提供卧式安装和立式安装的恒齿传动齿轮箱, 也可以提供其它安装形式,请垂询。

标准齿轮箱可以通过加带不同附件和电机安装法兰;
齿轮箱浮动底座或逆止器等很好的满足客户需求。

EVERGEAR gear units can be supplied for either horizontal or vertical installation.

The basic gear unit can be optimally adapted to customer requirements by fitting different add-on pieces like motor bell housings, gear unit swingbases or backstops.

噪音特性 Noise behavior

采用最新设计理念并通过以下途径显著的改善了齿轮箱的噪音特性:

- 圆锥齿轮磨削工艺,
- 采用吸收噪音的箱体结构,
- 实现特大的齿面接触比。

New concepts were applied to clearly improve the noise emission of the gear units by:

- grinding the bevel gears;
- designing noise-absorbing housings
- achieving exceptionally large contact ratios.

散热性能 Thermal conduction

恒齿传动齿轮箱不仅具有很高的传动效率, 而且具有良好的散热性能因为:

- 增大了箱体的表面积,
- 采用大风扇和新型的导流风扇罩。

在齿轮箱选型方面恒齿传动齿轮箱以较低的最大允许油温为依据。这样, 不仅提高了运行的可靠性, 而且也因换油周期延长降低了维护费用。

EVERGEAR gear units not only have a high efficiency but also a favorable thermal conduction:

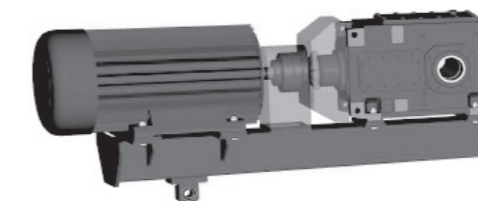
- through enlarged housing surface areas;
- because large fans incorporating a new type of air conduction fan cowl are being used.

The selection of EVERGEAR gear units is based on a lower maximum oil temperature. By that, the operational reliability will be increased and the cost of maintenance reduced due to longer oil change intervals.

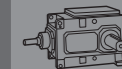
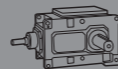
库存 Storing

恒齿传动齿轮箱采用新的模块化单元结构, 从而显著减少了零部件种类。主要的零部件绝大部分均有库存, 从而使恒齿传动的齿轮箱能在短期内向世界各地的用户供货。

EVERGEAR gear units have been designed according to a new unit construction principle. Through this, the variety of parts could be reduced. Most of the parts are on stock, enabling EVERGEAR gear units to be delivered worldwide in a short term.



恒齿传动直交轴齿轮箱EB3DH
带冷却风扇和齿轮箱浮动底座
EVERGEAR bevel-helical gear units type
EB3DH with fan and gear unit swing-base.



齿轮箱 一般说明 Gear Units General Information

注意事项
Attention



应严格遵守以下各项:

- 样本中的附图只属范例,并不要求严格一致,所注尺寸可以有所变动。
- 所注重量仅为平均值,并不要求严格一致。
- 为防止发生事故,所有旋转部件均应根据国家和当地安全规定加防护罩。
- 试车之前,必须认真阅读设备操作说明书。齿轮箱供货时已作好运行准备,只是未加润滑油。
- 此处给出的加油量只作为参考值。实际油量应以油尺上的标记为准。
- 润滑油粘度须以齿轮箱铭牌上的数值为准。
- 齿轮箱供货时带径向轴封。用户如有特别要求,可提供其他形式的密封装置。
- 转动方向是指输出轴d2上的方向。

The following items are absolutely to be observed:

- Illustrations are examples only and are not strictly binding. Dimensions are subject to change.
- The weights are mean values and not strictly binding.
- To prevent accidents, all rotating parts should be guarded according to local and national safety regulations.
- Prior to commissioning, the operating instructions must be observed. The gear units are delivered ready for operation but without oil filling.
- Oil quantities given are guide values only. The exact quantity of oil depends on the marks on the oil dipstick.
- The oil viscosity has to correspond to the data given on the name plate.
- The gear units are supplied with radial shaft seals. Other sealing variants on request.
- Directions of rotation referring to output shaft d2.

在标注尺寸的图纸上使用的符号说明如下:

Explanation of symbols used in the dimensioned drawings:



油尺
Oil dipstick



通气孔
Breather



放油孔
Oil drain



加油孔
Oil filler

基础螺栓的最低性能等级为8.8级。

规格13号以上齿轮箱箱体地脚上有千斤顶螺丝,箱盖上配有调整平面。

From size 13 up jack screws in the housing feet, and leveling pads on the upper housing part.
Foundation bolts of min. property class 8.8.

齿轮箱 选型指南 Gear Units Guidelines for the Selection

1. 确定齿轮箱类型和规格 Determination of gear unit type and size

1.1 确定传动比
Find the transmission ratio

$$i_s = \frac{n_1}{n_2}$$

1.2 确定齿轮箱额定功率
Determine nominal power rating of the gear unit

$$P_N \geq P_2 \times f_1 \times f_2$$

如果不满足下列条件,请与我们联系:
It is not necessary to consult us, if:

$$3.33 \times P_2 \geq P_N$$

1.3 校核最大扭矩,例如峰值工作扭矩,启动扭矩或制动扭矩:
Check for maximum torque, e. g. peak operating-, starting- or braking torque

$$P_N \geq \frac{T_A \times n_1}{9550} \times f_3$$

根据iN和PN在额定功率表中确定的齿轮箱的规格和传动级数
Gear unit sizes and number of reduction stages are given in rating tables depending on iN and PN

1.4 校核输出轴上允许附加作用力,见第257和258页
Check whether additional forces on the output shaft are permissible; see pages 257 and 258

1.5 校核实际传动比见第253至256页
Check whether the actual ratio i as per tables on pages 253-256 is acceptable

2. 确定供油方式 Determination of oil supply

安装方式 Mounting position

卧式安装 Horizontal

立式安装 Vertical

可供选择润油供油方式:

- 飞溅润滑
 - 浸油润滑
- 所有需润滑的零部件均浸在润滑油中

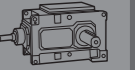
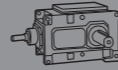
All parts to be lubricated are lying in the oil or are splash lubricated
Forced lubrication on request

可供选择的润油供油方式:

- 浸油润滑
 - 采用法兰泵或电动泵进行强制润滑
- 优选供油方式和选择标准见第335至337页

Possible oil supply variations:

- Dip lubrication
 - Forced lubrication by means of flanged-on pump or motor pump
- For preferred variants and criteria for selection see pages 335 - 337



齿轮箱 选型指南 Gear Units Guidelines for the Selection

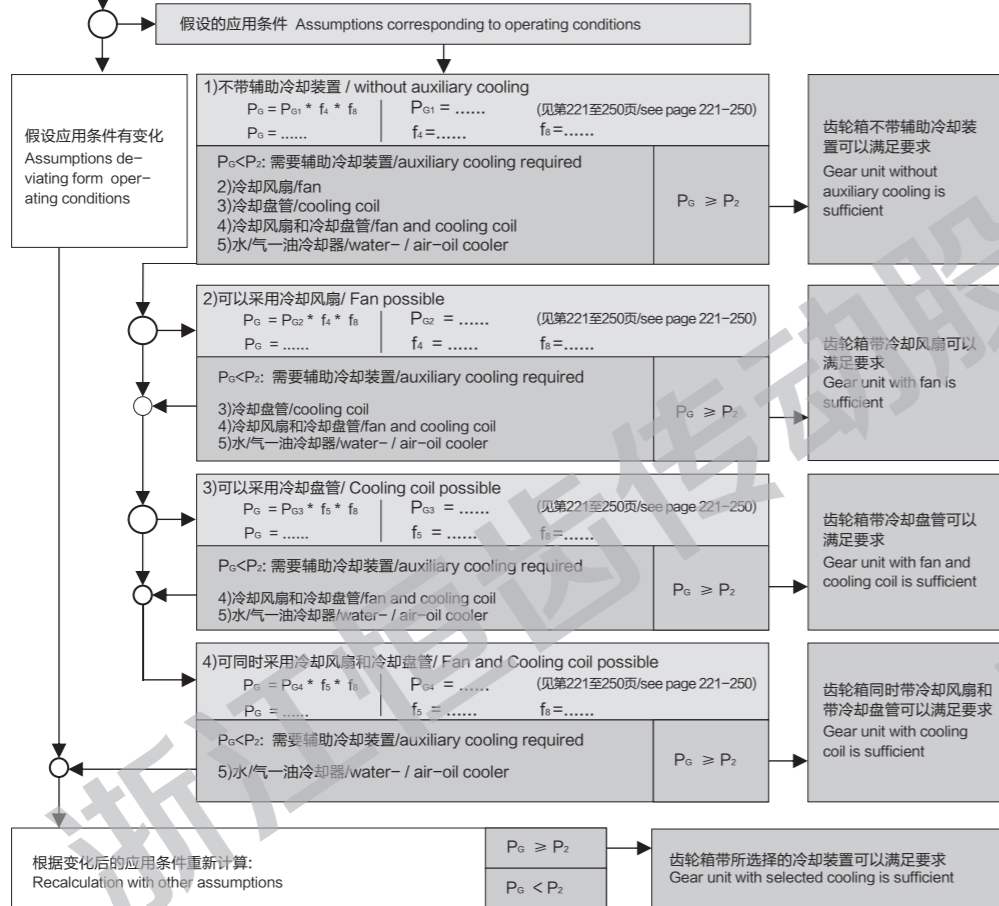
齿轮箱 符号说明 Gear Units Key to Symbols

3. 确定所需的热容量PG需要的数据 Determination of required thermal capa-city PG Data required

- 类型 · 规格 · Type · Size
- 公称传动比 · Nominal ratio
- 环境温度 · Ambient temperature
- 输入转速(1000/1200/1500/1800 r/min)** · Input speed(1000/1200/1500/1800 r/min)
- 齿轮箱采用浸油润滑 · Gear unit with dip lubrication

依据如下假设计算:
For the calculation below the following has been assumed:

- 工作周期:100%/h · Operating cycle: 100%/h
- 室内大空间安装(4m/s>风速≥1.4 m/s)**海拔高度至1000 m · Installation in a large hall (4 m/s>wind velocity≥1.4 m/s)**; altitude up to 1000 m
- 齿轮箱采用矿物油ISO-VG 320润滑 · Gear unit with mineral oil ISO · VG 320



请向我们咨询!
下列选项可能需要调整
· 润滑油品种/润滑油粘度/注油量
· 基础安装齿轮箱或轴装式齿轮箱
· 采用润滑油站

Consult US!
Variation of the following items is possible:
· Oil grade / viscosity /level
· Gear unit on foundation or shaft-mounted gear unit
· Application of an oil supply system

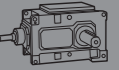
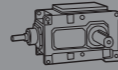
*)按冷却水入口温度为20℃
*)Values refer to a cooling water inlet temperature of 20℃

**室内小空间(风速<1.4m/s)和室外(风速≥4m/s),请垂询我们!

** consult us when small confined spaces (wind velocity<1.4m/s)or in the open (wind velocity≥4m/s)

可能需要的辅助冷却装置取决于用户处的工况条件(如粉尘,冷却水源等)。
The type of the possibly required additional cooling is dependent on the operating conditions at the customer's (dust, cooling water connection, etc.)

ED	每小时工作周期,以百分比表示,如ED=80% / h Operating cycle per hour in%, e.g. ED=80% / h	f1	工作机最低工况系数(表1),217页 Factor for driven machine(table 1), pages 217
f2	原动机系数(表2),218页 Factor for prime mover (tables 2), page 218	f3	峰值扭矩系数(表3),218页 Peak torque factor (tables 3), page 218
f4 f5	环境温度系数(表4+表5),218页 Factor for ambient temperature (tables 4+tables 5), page 218	f8	立式安装齿轮箱供油系数(表8),219页 Oil supply factor for vertical gear units (tables 8), page 219
i	实际传动比,253-256页 Actual ratio,page 253-256	in	公称传动比 Nominal ratio
is	要求传动比 Required ratio	n1	输入转速(r/min) Input speed(r/min)
n2	输出转速(r/min) Output speed(r/min)	PG	要求的热容量 Required thermal capacity
PG1	齿轮箱的热容量,不带辅助冷却装置 Thermal capacity for gear units without auxiliary cooling	PG2	齿轮箱的热容量,带冷却风扇 Thermal capacity for gear units with fan cooling
PG3	齿轮箱的热容量,带内置冷却盘管 Thermal capacity for gear units with built-in cooling coil	PG4	齿轮箱的热容量,带内置冷却盘管和风扇 Thermal capacity for gear units with built-in cooling coil and fan
PN	齿轮箱的额定功率(KW),见选型表 Nominal power rating of gear unit (KW), see tables	P2	工作机的额定功率(KW) Power rating of driven machine (KW)
t	环境温度 (°C) Ambient temperature [°C]	TA	输入轴最大扭矩,如峰值工作扭矩、启动扭矩或制动扭矩 (N.m) Max. torque occurring on input shaft, e.g. peak operating-, starting- or braking torque(N.m)
T2N	额定输出扭矩(kN.m),251-252页 Nominal output torque (kN.m), pages 251-252	SA	减速机安全系数 (表15) Safety coefficient of speed reducer (tables 15)



齿轮箱 选型指南/计算示例 Gear Units Guidelines for the Selection/Calculation Example

已知参数 Known parameter	
原动机 电动机: P ₁ =75 kW 电机转速: n ₁ =1500 rpm 最大起动力矩: T _A =720 N.m	PRIME MOVER Electric motor: P ₁ =75 kW Motor speed: n ₁ =1500 rpm Max. starting torque: T _A =720 N.m
工作机 Driven machine	
皮带输送机功率: P ₂ =63 kW 转速: n ₂ =26 rpm 工作制: 12 小时/天 每小时启动次数: 5 每小时工作周期: ED=100% 环境温度: 30 °C 室外安装(风速): (w ≥ 4m/s) 海拔高度: 海平面	Belt conveyor: P ₂ =63 kW Speed: n ₂ =26 rpm Duty: 12 h/day Starts per hour: 5 Operating cycle per hour: ED=100% Ambient temperature: 30 °C Outdoor installation: (w ≥ 4m/s) Altitude: sea level
齿轮箱设计 Gear unit design	
直交轴齿轮箱 安装方式: 卧式安装 输出轴d ₂ : 位于齿轮箱右侧(面对输入轴),即布置型式C 输出轴d ₂ 转动方向: ccw	Bevel-helical gear unit Mounting position: horizontal Output shaft d ₂ : on right hand side design C Direction of rotation of output shaft d ₂ : ccw

选择齿轮箱的类型及规格 Selection of gear unit type and size	
1.1 传动比计算: Calculation of transmission ratio	$i_s = \frac{n_1}{n_2} = \frac{1500}{26} = 57.7 \quad i_N = 56$
1.2 确定额定功率 Determination of the gear unit nominal power rating	$P_N \geq P_2 \times f_1 \times f_2 \times S_A = 63 \times 1.5 \times 1 \times 1.25 = 118.125 \text{ kW}$
从额定功率表中选择: 类型 EB3, 规格 10, 对应的 P _N = 122 kW Selected from power rating table: type EB3, gear unit size 10, with P _N = 122 kW	$3.33 \times P_2 \geq P_N \quad 3.33 \times 63 = 219.8 \text{ kW} > P_N$
1.3 检查起动力矩 Checking the starting torque	$P_N \geq \frac{T_A \times n_1}{9550} \times 0.5 = \frac{720 \times 1500}{9550} \times 0.5 = 56.5 \text{ kW} \quad P_N 122 \text{ kW} > 56.5 \text{ kW}$
确定热容量 Determination of thermal capacity	
2.1 根据表中给出的EB3型齿轮参数, 计算不带辅助冷却装置的齿轮箱热容量 Thermal capacity for gear units without auxiliary cooling, acc. to table for type EB3	$P_G = P_{G1} \times f_4 \times f_8 \quad P_{G1} = 72 \text{ kW} \times 0.88 \times 1 = 63.36 \text{ kW} \quad P_2 = 63 \text{ kW} < P_G = 63.36 \text{ kW}$

结论: 可选用不带冷却装置的减速机

齿轮箱 计算示例/热容量计算 Gear Units Calculation Example TVhermal Capacity

确定所需的热容量P_G需要的数据 Determination of required thermal capacity PG Data required

- 类型: EB3SH · 规格: 10 · Type: EB3SH · Size: 10
- 额定传动比: i_N = 56 · Nominal ratio: i_N = 56
- 环境温度: t=30°C · Ambient temperature: t=30°C
- 输入转速: n=1500r/min · Input speed: n=1500r/min
- 齿轮箱采用浸油润滑 · Gear unit with dip lubrication

依据如下假设计算:
For the calculation below the following has been assumed:

- 工作周期: 100%/h · Operating cycle: 100%/h
- 室内大空间安装(4m/s>风速 ≥ 1.4 m/s)**海拔高度至1000 m · Installation in a large hall (4 m/s>wind velocity ≥ 1.4 m/s)**, altitude up to 1000 m
- 齿轮箱采用矿物油ISO-VG 320润滑 · Gear unit with mineral oil ISO-VG320

假设的应用条件 Assumptions corresponding to operating conditions

假设应用条件有变化 Assumptions deviating from operating conditions

1) 不带辅助冷却装置 / without auxiliary cooling
 $P_G = P_{G1} \times f_4 \times f_8 \quad P_{G1} = 73.2 \text{ kW} \quad (见第221至250页/see page 221-250)$
 $P_G = 64 \text{ kW} \quad f_4 = 0.88 \quad f_8 = 1.0$
 P_G < P₂: 需要辅助冷却装置/auxiliary cooling required
 2) 冷却风扇/fan
 3) 冷却盘管/cooling coil
 4) 冷却风扇和冷却盘管/fan and cooling coil
 5) 水/气-油冷却器/water- / air-oil cooler
 P_G ≥ P₂ → 齿轮箱不带辅助冷却装置可以满足要求 Gear unit without auxiliary cooling is sufficient

2) 可以采用冷却风扇/ Fan possible
 $P_G = P_{G2} \times f_4 \times f_8 \quad P_{G2} = 173 \text{ kW} \quad (见第221至250页/see page 221-250)$
 $P_G = 152.2 \text{ kW} \quad f_4 = 0.88 \quad f_8 = 1.0$
 P_G < P₂: 需要辅助冷却装置/auxiliary cooling required
 3) 冷却盘管/cooling coil
 4) 冷却风扇和冷却盘管/fan and cooling coil
 5) 水/气-油冷却器/water- / air-oil cooler
 P_G ≥ P₂ → 齿轮箱带冷却风扇可以满足要求 Gear unit with fan is sufficient

3) 可以采用冷却盘管/ Cooling coil possible
 $P_G = P_{G3} \times f_4 \times f_8 \quad P_{G3} = 227 \text{ kW} \quad (见第221至250页/see page 221-250)$
 $P_G = 211.1 \text{ kW} \quad f_4 = 0.93 \quad f_8 = 1.0$
 P_G < P₂: 需要辅助冷却装置/auxiliary cooling required
 4) 冷却风扇和冷却盘管/fan and cooling coil
 5) 水/气-油冷却器/water- / air-oil cooler
 P_G ≥ P₂ → 齿轮箱带冷却盘管可以满足要求 Gear unit with fan and cooling coil is sufficient

4) 可同时采用冷却风扇和冷却盘管/ Fan and Cooling coil possible
 $P_G = P_{G4} \times f_4 \times f_8 \quad P_{G4} = 318 \text{ kW} \quad (见第221至250页/see page 221-250)$
 $P_G = 295.7 \text{ kW} \quad f_4 = 0.93 \quad f_8 = 1.0$
 P_G < P₂: 需要辅助冷却装置/auxiliary cooling required
 5) 水/气-油冷却器/water- / air-oil cooler
 P_G ≥ P₂ → 齿轮箱同时带冷却风扇和带冷却盘管可以满足要求 Gear unit with cooling coil is sufficient

根据变化后的应用条件重新计算:
Recalculation with other assumptions

$P_G \geq P_2$ → 齿轮箱带所选择的冷却装置可以满足要求 Gear unit with selected cooling is sufficient
 $P_G < P_2$

请向我们咨询!
下列选项可能需要调整
· 润滑油品种/润滑油粘度/注油量
· 基础安装齿轮箱或轴装式齿轮箱
· 采用润滑油站
Consult US!
Variation of the following items is possible:
· Oil grade / viscosity /level
· Gear unit on foundation or shaft-mounted gear unit
· Application of an oil supply system

*按冷却水入口温度为20°C
*)Values refer to a cooling water inlet temperature of 20°C

**室内小空间(风速 < 1.4m/s)和室外(风速 ≥ 4m/s), 请垂询我们!
** consult us when small confined spaces (wind velocity < 1.4m/s) or in the open (wind velocity ≥ 4m/s)

所选择的i_N=56的齿轮箱 EB3SH10 应配适当的辅助冷却装置。
根据用户不同的应用条件至少应配一个冷却风扇或一个冷却盘管。
For the selected gear unit EB3SH9 with i_N=56 suitable auxiliary cooling is to be provided. Depend-ent on the operating conditions at the customer's, at least a fan or a cooling coil is to be provided.

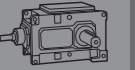
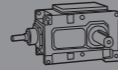


表1 工作机系数^{f1} Table1 Factor for driven machine^{f1}

工作机	Driven machines	日带载运行时间 (小时)		
		≤0.5	>0.5-10	>10
污水处理	Waste water treatment			
浓缩器(中心传动)	Thickeners (central drive)	-	-	1.2
压滤机	Filter presses	1.0	1.3	1.5
絮凝器	Flocculation apparatus	0.8	1.0	1.3
曝气机	Aerators	-	1.8	2.0
捞集设备	Raking equipmen	1.0	1.2	1.3
纵向、回转组合式捞集装置	Combined longitudinal and rotary rakes	1.0	1.3	1.5
预浓缩器	Pre-thickeners	-	1.1	1.3
螺杆泵	Screw pumps	-	1.3	1.5
水轮机	Water turbines	-	-	2.0
泵	Pumps			
离心泵	Centrifugal pumps	1.0	1.2	1.3
容积式泵	Positive-displacement pumps			
1个活塞	1 piston	1.3	1.4	1.8
>1个活塞	>1 piston	1.2	1.4	1.5
挖泥机	Dredgers			
斗式输送机	Bucket conveyors	-	1.6	1.6
倾卸装置	Dumping devices	-	1.3	1.5
履带式行走机构	Caterpillar travel-ing gears	1.2	1.6	1.8
斗轮式挖泥机	Dredgers			
用于料堆捡拾	Bucket wheel excavators	-	1.7	1.7
用于原生岩土	As pick-up	-	2.2	2.2
采掘机机头	For primitive material Cutter heads	-	2.2	2.2
采掘臂回转*	Slewing gears*	-	1.4	1.8
弯板机*	Plate bending machines*	-	1.0	1.0
化学工业	Chemical industry			
挤出机	Extruders	-	-	1.6
调浆机	Dough mills	-	1.8	1.8
橡胶研光机	Rubber calendars	-	1.5	1.5
冷却圆筒	Gaoling drums	-	1.3	1.4
混匀机, 用于	Mixers for			
均匀介质	Uniform media	1.0	1.3	1.4
非均匀介质	Non-uniform media	1.4	1.6	1.7
搅拌机, 用于	Agitators for me-dia with			
均匀介质	Uniform density	1.0	1.3	1.5
非均匀介质	Non-uniform density	1.2	1.4	1.6
不均匀气体吸收	Non-uniform gas absorption	1.4	1.6	1.8
烘炉	Toasters	1.4	1.3	1.5
离心机	Centrifuges	1.0	1.2	1.3
金属加工设备	Metal working mills			
翻板机	Plate filter	1.0	1.0	1.2
推钢机	Ingot pushers	1.0	1.2	1.2
绕线机	Winding machines	-	1.6	1.6
冷床横移架	Cooling bed transfer frames	-	1.5	1.5
辊式矫直机	Roller straighteners	-	1.6	1.6
轨道	Roller tables			
连续式	Continuous	-	1.5	1.5
间歇式	Intermittent	-	2.0	2.0
可逆式轧管机	Reversing tube mills	-	1.8	1.8
剪切机	Shears			
连续式*	Continuous*	-	1.5	1.5
曲柄式*	Crank type*	1.0	1.0	1.0
连铸机驱动装置*	Continuous casting drivers*	-	1.4	1.4

工作机	Driven machines	日带载运行时间 (小时)		
		≤0.5	>0.5-10	>10
轧机	Rolls			
可逆式开坯机	Reversing blooming mills	-	2.5	2.5
可逆式板坯轧机	Reversing slabbing mills	-	2.5	2.5
可逆式线材轧机	Reversing wire mills	-	1.8	1.8
可逆式薄板轧机	Reversing sheet mills	-	2.0	2.0
可逆式中厚板轧机	Reversing plate mills	-	1.8	1.8
辊缝调节驱动装置	Roll adjustment drives	0.9	1.0	-
输送机	Conveyors			
斗式输送机	Bucket conveyors	-	1.4	1.5
绞车	Hauling winches	1.4	1.6	1.6
卷扬机	Hoists	-	1.5	1.8
皮带输送机 ≤ 150 kW	Belt conveyors ≤ 150 kW	1.0	1.2	1.3
皮带输送机 ≥ 150 kW	Belt conveyors ≥ 150 kW	1.1	1.3	1.4
货用电梯*	Goods lifts*	-	1.2	1.5
客用电梯*	Passenger lifts*	-	1.5	1.8
刮板式输送机	Apron conveyors	-	1.2	1.5
自动扶梯	Escalators	1.0	1.2	1.4
轨道行走机构	Frequency converters	-	1.5	-
柱塞式压缩机	Reciprocating compressors	-	1.8	1.9
起重机械	Cranes **			
回转机构**	Slewing gears**	1.0	1.4	1.8
俯仰机构**	Luffing gears**	1.0	1.1	1.4
行走机构**	Travelling gears**	1.1	1.6	2.0
起升机构**	Hoisting gears**	1.0	1.1	1.4
转臂式起重机**	Derricking jib cranes**	1.0	1.2	1.6
冷却塔	Cooling towers			
冷却塔风扇	Cooling tower fans	-	-	2.0
风机(轴流和离心式)	Blowers (axial and radial)	-	1.4	1.5
蔗糖生产	Cane sugar production			
甘蔗切碎机	Cane knives	-	-	1.7
甘蔗碾磨机	Cane mills	-	-	1.7
甜菜糖生产	Beet sugar production			
甜菜切碎机	Beet cossettes macerators	-	-	1.2
榨取机	Extraction plants	-	-	1.4
机械制冷机	Mechanical refrigerators	-	-	1.4
蒸发器	Juice boilers	-	-	1.4
甜菜清洗机	Sugar beet washing machines,	-	-	1.4
甜菜切碎机	Sugar beet cutters	-	-	1.5
造纸机械	Paper machines			
各种类型	Of all kind	-	1.8	2.0
碎浆机驱动装置(敬请垂询)	Pulper drives (on request)	-	2	2.25
离心式压缩机	Centrifugal compressors	-	1.4	1.5
索道缆车	Cableways			
运货索道	Material ropeways	-	1.3	1.4
往复式空中索道	To-and-fro system	-	1.6	1.8
拖牵式索道	Aerial ropeways	-	1.3	1.4
循环式索道	T-bar lifts ropeways	-	1.4	1.6
水泥工业	Cement industry			
混凝土搅拌机	Concrete mixers	-	1.5	1.5
破碎机	Breakers	-	1.2	1.4
回转窑	Rotary kilns	-	-	2.0
管式磨机	Tube mills	-	-	2.0
选粉机	Separators	-	1.6	1.6
辊压机	Roll crushers	-	-	2.0

工作机额定功率P2的确定:
*) 按最大扭矩确定额定功率
) 可将载荷准确地分类, 例如根据FEM 1001进行分类
) 检验热容量是绝对必要的

Design for power rating of driven machine P2
) Designed power corresponding to max. torque
) Load can be exactly classified, for instance, according to FEM 1001
) A check for thermal capacity is absolutely essential

所列各项系数均为经验值。使用这些系数的前提条件是所述机械设备应符合通常的设计规范和载荷条件。如遇特殊情况, 请及时与我们取得联系。对于那些未列入此表的工作机械, 请与我们联系。
注: 日带载运行时间是以小时计算的。

The listed factors are empirical values. Prerequisite for their application is that the machinery and equipment mentioned correspond to generally accepted design- and load specifications. In case of deviations from standard conditions, please refer to us. For driven machines which are not listed in this table, please refer to us.

1) Effective daily operating period under load in hours

表2 原动机系数^{f2} Table 2 Factor for prime mover^{f2}

电机, 液压马达, 汽轮机	Electric motors, hydraulic motors, turbines	1.0
4~6缸活塞发动机周期变化 1:100 至 1:200	Piston engines 4~6 cylinders, cyclic variation 1:100 to 1:200	1.25
1~3缸, 活塞发动机周期变化最高达 1:100	Piston engines 1~3 cylinders, cyclic variation up to 1:100	1.5

表3 峰值扭矩系数^{f3} Table 3 Peak torque factor^{f3}

		每小时峰值载荷次数 Load peaks per hour			
		1~5	6~30	31 - 100	> 100
均匀负载	Steady direction of load	0.5	0.65	0.7	0.85
交变负载	Alternating direction of load	0.7	0.95	1.10	1.25

表4 环境温度系数^{f4} Table 4 Thermal factor^{f4}

(不带辅助冷却装置或仅带冷却风扇进行冷却) (Gear units without auxiliary cooling or with fan)

环境温度/Ambient	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C	50°C
f4	1.11	1.06	1.00	0.94	0.88	0.82	0.75	0.69	0.63

表5 环境温度系数^{f5} Table 5 Thermal factor^{f5}

(带冷却盘管或同时带冷却盘管和冷却风扇) (For cooling coil, or with fan and cooling coil)

环境温度/Ambient	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C	50°C
f5	1.05	1.03	1.00	0.97	0.93	0.90	0.87	0.84	0.81

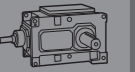
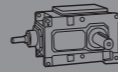


表8 立式安装齿轮箱供油系数^{f₀} Table 8 Oil supply factor for vertical gear units^{f₀}

对于卧式安装齿轮箱 f₀ = 1.0, 当采用强制润滑时 f₀ = 1.05

Oil supply factor for vertical gear units. For horizontal gear units f₀ = 1.0, and in case of forced lubrication f₀ = 1.05

齿轮箱类型 Gear unit type	供油方式 Oil supply	规格 Sizes 4 - 12			
		不带辅助冷却装置 Without Auxiliary cooling	带冷却风扇 With Fan	带冷却盘管 With Cooling coil	带冷却风扇和冷却盘管 With Fan and cooling coil
EH2.V EH3.V EH4.V	浸油润滑 Dip lubrication	0.95	*	0.95	*
	强制润滑 Forced lubrication	1.15	*	1.05	*
EB2.V EB3.V EB4.V	浸油润滑 Dip lubrication	0.95	0.95	0.95	0.95
	强制润滑 Forced lubrication	1.15	1.10	1.10	1.10

齿轮箱类型 Gear unit type	供油方式 Oil supply	规格 Sizes 13 - 18			
		不带辅助冷却装置 Without Auxiliary cooling	带冷却风扇 With Fan	带冷却盘管 With Cooling coil	带冷却风扇和冷却盘管 With Fan and cooling coil
EH2.V EH3.V EH4.V	浸油润滑 Dip lubrication	*	*	*	*
	强制润滑 Forced lubrication	1.15	*	1.05	*
EB2.V EB3.V EB4.V	浸油润滑 Dip lubrication	*	*	*	*
	强制润滑 Forced lubrication	1.10	1.10	1.10	1.10

*) 敬请垂询 *) On request

表15 减速机安全系数^{S_A} Table 15 Safety coefficient^{S_A}

重要性与安全要求 Importance and safety requirement	S _A
一般设备, 减速机失效仅引起单机停产且易更换配件 The failure of ordinary equipment and speed reducer can only result in production halts of single machine and replacement of spare parts.	1.1-1.3
重要设备, 减速机失效仅引起机组、生产线或全厂停产 The failure of ordinary equipment and speed reducer can only result in production halts of machines, production lines or the whole factory.	1.3-1.5
高度安全要求, 减速机失效引起设备、人身事故 Higher safety requirements, the failure of speed reducer can cause the incident of equipment and human body.	1.5-1.7

平行轴齿轮箱 额定功率
Helical gear units Nominal Power Ratings

类型 TYPES EH1...
规格 SIZES 1..19

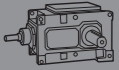
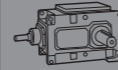
i	n ₁	n ₂	齿轮箱规格 Gear unit sizes																		
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
			额定功率 P _N (KW) Nominal power ratings P _N (KW)																		
1.25	1800	1440	119		392		1055		2005*		3242*										
	1500	1200	99		327		879		1671		2702										
	1200	960	79		262		703		1337		2161										
	1000	800	66		218		586		1114		1801										
1.4	1800	1286	112		364		968		1870*		3001*										
	1500	1071	93		303		807		1559		2501										
	1200	857	74		242		646		1247		2000										
	1000	714	62		202		538		1039		1667										
1.6	1800	1125	103		342		884		1672*		2781*										
	1500	938	86		285		737		1394		2318		3927								
	1200	750	68		228		589		1115		1854		3142								
	1000	625	57		190		491		929		1545		2618		4123						
1.8	1800	1000	95		252		806		1593*		2558*		4338*								
	1500	833	80		210		672		1328		2132		3615								
	1200	667	64		168		538		1062		1705		2892		4632*						
	1000	556	53		140		448		885		1421		2410		3860						
2	1800	900	88		236		772		1462*		2356*		4025*								
	1500	750	74		197		644		1218		1964		3354								
	1200	600	59		157		515		974		1571		2683		4285*						
	1000	500	49		131		429		812		1309		2236		3571						
2.24	1800	804	81		211		706		1303*		2102*		3699*								
	1500	670	68		176		588		1086		1752		3083								
	1200	536	54		140		470		869		1402		2466		3940*						
	1000	446	45		117		392		724		1168		2055		3283						
2.5	1800	720	76		196		634		1168*		1885*		3317*								
	1500	600	63		164		528		974		1571		2765		4524*						
	1200	480	50		131		422		779		1256		2212		3619*						
	1000	400	42		109		352		649		1047		1843		3016		4607				
2.8	1800	643	67		182		565		1003*		1595*		2961*								
	1500	536	56		152		471		836		1329		2468		4038*						
	1200	429	44		121		377		668		1063		1974		3230*						
	1000	357	37		101		314		557		886		1645		2692		4224				
3.15	1800	571	59		162		502		909		1463		2504*		4086*						
	1500	476	50		135		419		758		1220		2087		3405						
	1200	381	40		108		335		606		976		1669		2724		4620*				
	1000	317	33		90		279		505		813		1391		2270		3850				
3.55	1800	507	54		149		441		824		1323		2322*		3699*						
	1500	423	45		125		368		687		1103		1935		3083						
	1200	338	36		100		294		550		882		1548		2466		4181*				
	1000	282	30		83		245		458		735		1290		2055		3484				
4	1800	450	47		131		396		731		1177		2074*		3335*						
	1500	375	39		110		330		609		981		1728		2780						
	1200	300	31		88		264		487		785		1382		2224		3833*				
	1000	250	26		73		220		406		654		1152		1853		3194		4529		
4.5	1800	400	34		92		281		578		895		1674		2410*		4268*				
	1500	333	29		77		234		482		746		1395		2009		3557				
	1200	267	23		61		187		385		596		1116		1607		2845		4073*		
	1000	222	19		51		156		321		497		930		1339		2371		3394		
5	1800	360	29		79		238		452		772		1271		2054*		3348*		4675*		
	1500	300	24		66		198		377		644		1059		1712		2790		3896*		
	1200	240	19		53		158		301		515		847		1369		2232		3116*		4373*
	1000	200	16		44		132		251		429		706		1141		1860		2597		3644
5.6	1800	321	22		67		202		385		590		1073		1748*		2851*		3982*		
	1500	268	18		56		168		321		492		894		1457		2376		3318*		4218*
	1200	214	14		44		134		257		394		715		1165		1901		2654		3374*
	1000	179	12		37		112		214		328		596		971		1584		2212		2812

■ 卧式安装齿轮箱要采用强制润滑

■ Forced lubrication required on horizontal gear units

* 敬请垂询

* Gear units only on request



平行轴齿轮箱 Helical gear units

热容量 Thermal Capacities

类型 TYPES EHL... 规格 SIZES 1..19

Table with 19 columns for gear unit sizes (1-19) and rows for different gear types (PG1-4) at n=1000 r/min. Includes a watermark for Evergear Drive Co., Ltd.

PG1、PG2、PG3、PG4见214页 See page 214 for PG1、PG2、PG3、PG4

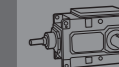
平行轴齿轮箱 Helical gear units

热容量 Thermal Capacities

类型 TYPES EHL... 规格 SIZES 1..19

Table with 19 columns for gear unit sizes (1-19) and rows for different gear types (PG1-4) at n=1200 r/min. Includes a watermark for Evergear Drive Co., Ltd.

PG1、PG2、PG3、PG4见214页 See page 214 for PG1、PG2、PG3、PG4



平行轴齿轮箱
Helical gear units

热容量
Thermal Capacities

类型 TYPES EHL...
规格 SIZES 1...19

i	齿轮箱规格 Gear unit sizes																		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	n=1500 r/min 额定热功率																		
1.25	PG1	44.3		*		*		*		*									
	PG2			201		372		480		*									
	PG3			307		686		946		1276									
	PG4			472		1117		1537		1991									
1.4	PG1	42.8		*		*		*		*									
	PG2			212		392		447		375									
	PG3			299		680		937		1285									
	PG4			459		1104		1523		1992									
1.6	PG1	41.7		*		*		*		*		*		*		*		*	
	PG2			213		420		500		495		*		*		*		*	
	PG3			284		655		894		1276		1944		2060		*		*	
	PG4			438		1063		1452		1982		3039		3187		*		*	
1.8	PG1	41.5		*		*		*		*		*		*		*		*	
	PG2			241		435		554		575		*		*		*		*	
	PG3			309		625		894		1259		1990		2161		*		*	
	PG4			478		1019		1450		1953		3106		3328		*		*	
2	PG1	40.9		*		*		*		*		*		*		*		*	
	PG2			234		427		553		590		509		*		*		*	
	PG3			295		593		852		1207		1947		2161		1626		*	
	PG4			455		964		1382		1873		3026		3313		2826		*	
2.24	PG1	43.3		*		*		*		*		*		*		*		*	
	PG2			227		422		544		620		631		*		*		*	
	PG3			278		558		779		1151		1902		2172		1719		*	
	PG4			431		913		1264		1790		2964		3336		2963		*	
2.5	PG1	41.1		*		*		*		*		*		*		*		*	
	PG2			211		405		525		614		676		*		*		*	
	PG3			251		518		723		1075		1810		2102		1746		*	
	PG4			388		848		1172		1674		2819		3228		2972		*	
2.8	PG1	39.7		50		*		*		*		*		*		*		*	
	PG2			199		384		553		658		705		*		*		*	
	PG3			231		475		733		1091		1698		2002		1748		1836	
	PG4			359		777		1189		1695		2647		3075		2947		3087	
3.15	PG1	37.7		63.8		*		*		*		*		*		*		*	
	PG2			200		415		702		828		1055		1033		816		*	
	PG3			226		481		881		1237		1858		2223		2487		*	
	PG4			348		779		1442		1941		2879		3394		3634		4035	
3.55	PG1	34.2		59.8		*		*		*		*		*		*		*	
	PG2			183		407		649		778		998		1014		860		678	
	PG3			204		460		791		1124		1685		2042		2087		2387	
	PG4			314		746		1301		1768		2617		3123		3397		3839	
4	PG1	38.1		56.2		85.1		*		*		*		*		*		*	
	PG2			166		374		591		677		964		1012		938		821	
	PG3			181		410		696		937		1534		1870		1943		2263	
	PG4			280		665		1147		1483		2387		2866		3159		3625	
4.5	PG1	38.1		66.4		106		135		*		*		*		*		*	
	PG2			180		389		611		795		994		1193		1261		1192	
	PG3			194		413		696		1049		1489		1992		2075		2382	
	PG4			298		669		1137		1646		2330		3062		3339		3779	
5	PG1	34.4		62.5		111		151		169		*		*		*		*	
	PG2			165		373		599		738		1020		1227		1395		1560	
	PG3			173		390		659		930		1427		1911		2022		2660	
	PG4			266		631		1080		1464		2242		2942		3255		4202	
5.6	PG1	33.9		56		98.8		136		163		*		*		*		*	
	PG2			146		330		535		704		967		1104		1266		1433	
	PG3			151		337		577		866		1337		1675		1787		2367	
	PG4			232		548		949		1370		2106		2586		2880		3741	

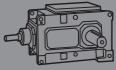
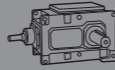
PG1、PG2、PG3、PG4见214页 See page 214 for PG1、PG2、PG3、PG4

平行轴齿轮箱
Helical gear units

热容量
Thermal Capacities

类型 TYPES EHL...
规格 SIZES 1...19

i	齿轮箱规格 Gear unit sizes																		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	n=1800 r/min 额定热功率																		
1.25	PG1	40.5		*		*		*		*									
	PG2			201		295		*		*									
	PG3			314		650		851		1058									
	PG4			514		1164		1554		1921									
1.4	PG1	39.1		*		*		*		*									
	PG2			214		327		300		*									
	PG3			308		652		859		1096									
	PG4			502		1158		1556		1953									
1.6	PG1	38.2		*		*		*		*		*		*		*		*	
	PG2			219		379		397		*		*		*		*		*	
	PG3			294		643		848		1146		1465		*		*		*	
	PG4			482		1131		1513		2002		2784		2485		*		*	
1.8	PG1	37.9		*		*		*		*		*		*		*		*	
	PG2			252		411		480		420		*		*		*		*	
	PG3			323		623		867		1171		1625		1428		*		*	
	PG4			527		1095		1531		2012		2972		2848		*		*	
2	PG1	37.4		*		*		*		*		*		*		*		*	
	PG2			245		409		491		454		*		*		*		*	
	PG3			308		595		833		1135		1628		1503		*		*	
	PG4			503		1039		1467		1943		2934		2909		1973		*	
2.24	PG1	40.2		*		*		*		*		*		*		*		*	
	PG2			240		414		504		519		*		*		*		*	
	PG3			292		566		773		1105		1661		1651		*		*	
	PG4			478		990		1352		1879		2945		3070		2319		*	
2.5	PG1	38.2		*		*		*		*		*		*		*		*	
	PG2			224		402		496		532		*		*		*		*	
	PG3			264		528		722		1043		1613		1661		*		*	
	PG4			431		922		1259		1768		2834		3033		2437		*	
2.8	PG1	36.9		*		*		*		*		*		*		*		*	
	PG2			212		396		531		589		*		*		*		*	
	PG3			244		486		737		1069		1543		1639		1152		*	
	PG4			399		848		1283		1801		2690		2947		2517		2389	
3.15	PG1	35.0		52.3		*		*		*		*		*		*		*	
	PG2			217		438		726		832		967		808		*		*	
	PG3			242		505		915		1268		1835		2097		1942		2051	
	PG4			389		862		1587		2118		3074		3528		3611		3882	
3.55	PG1	31.8		50		*		*		*		*		*		*		*	
	PG2			199		431		675		788		930		824		*		*	
	PG3			218		484		824		1156		1674		1947		1853		2012	
	PG4			352		827		1434		1933		2804		3265		3407		3739	
4	PG1	40.1		48.7		*		*		*		*		*		*		*	
	PG2			181		398		620		695		926		878		627		*	
	PG3			194		433		728		970		1542		1815		1779		1987	
	PG4			313		739		1268		1628		2575		3028		3225		3613	
4.5	PG1	40.1		61		*		*		*		*		*		*		*	
	PG2			198		419		653		837		1005		1142		1081		925	
	PG3			208		439		735		1100		1530		1999					



平行轴齿轮箱 Helical gear units 额定功率 Nominal Power Ratings

类型 TYPES EH2... 规格 SIZES 3...26

Table with columns for gear unit sizes (3-26) and nominal power ratings (KW) for various gear ratios (i=6.3, 7.1, 8, 9, 10, 11.2, 12.5, 14, 16, 18, 20, 22.4, 25, 28).

卧式安装齿轮箱要采用强制润滑

Forced lubrication required on horizontal gear units

* 敬请垂询

* Gear units only on request

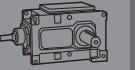
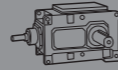
平行轴齿轮箱 Helical gear units 热容量 Thermal Capacities

类型 TYPES EH2... 规格 SIZES 3...26

Table with columns for gear unit sizes (3-26) and thermal capacities for various gear ratios (i=6.3, 7.1, 8, 9, 10, 11.2, 12.5, 14, 16, 18, 20, 22.4, 25, 28).

PG1、PG2、PG3、PG4见214页

See page 214 for PG1、PG2、PG3、PG4



平行轴齿轮箱 Helical gear units
热容量 Thermal Capacities

类型 TYPES EH2...
规格 SIZES 3...26

Table with columns for gear unit sizes (3-26) and rows for different gear types (PG1-PG4) at n=1200 r/min. Includes a large watermark 'ZHEJIANG'.

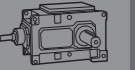
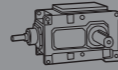
PG1、PG2、PG3、PG4见214页 See page 214 for PG1、PG2、PG3、PG4

平行轴齿轮箱 Helical gear units
热容量 Thermal Capacities

类型 TYPES EH2...
规格 SIZES 3...26

Table with columns for gear unit sizes (3-26) and rows for different gear types (PG1-PG4) at n=1500 r/min. Includes a large watermark 'ZHEJIANG'.

PG1、PG2、PG3、PG4见214页 See page 214 for PG1、PG2、PG3、PG4



平行轴齿轮箱 Helical gear units

热容量 Thermal Capacities

类型 TYPES EH2... 规格 SIZES 3...26

Table with columns for gear unit sizes (3-26) and rows for different gear types (PG1-PG4) at various reduction ratios (6.3, 7.1, 8, 9, 10, 11.2, 12.5, 14, 16, 18, 20, 22.4, 25, 28).

PG1、PG2、PG3、PG4见214页 See page 214 for PG1、PG2、PG3、PG4

平行轴齿轮箱 Helical gear units

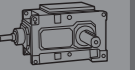
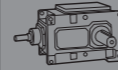
额定功率 Nominal Power Ratings

类型 TYPES EH3... 规格 SIZES 5...26

Table with columns for gear unit sizes (5-26) and rows for different gear types (PG1-PG4) at various reduction ratios (22.4, 25, 28, 31.5, 35.5, 40, 45, 50, 56, 63, 71, 80, 90, 100, 112).

卧式安装齿轮箱要采用强制润滑 Forced lubrication required on horizontal gear units

* 敬请垂询 Gear units only on request



平行轴齿轮箱 Helical gear units

热容量 Thermal Capacities

类型 TYPES EH3... 规格 SIZES 5...26

Table with columns for gear unit sizes (5-26) and rows for types PG1-PG4 at n=1000 r/min. Includes a large watermark 'JIANG'.

PG1、PG2、PG3、PG4见214页 See page 214 for PG1、PG2、PG3、PG4

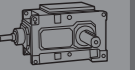
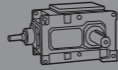
平行轴齿轮箱 Helical gear units

热容量 Thermal Capacities

类型 TYPES EH3... 规格 SIZES 5...26

Table with columns for gear unit sizes (5-26) and rows for types PG1-PG4 at n=1200 r/min. Includes a large watermark 'JIANG'.

PG1、PG2、PG3、PG4见214页 See page 214 for PG1、PG2、PG3、PG4



平行轴齿轮箱
Helical gear units

热容量
Thermal Capacities

类型 TYPES EH3...
规格 SIZES 5...26

Table with 27 columns (i, 5-26) and multiple rows for gear unit sizes (PG1-PG4) at n=1500 r/min. Includes a large watermark 'JIANG'.

PG1、PG2、PG3、PG4见214页 See page 214 for PG1、PG2、PG3、PG4

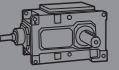
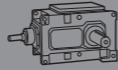
平行轴齿轮箱
Helical gear units

热容量
Thermal Capacities

类型 TYPES EH3...
规格 SIZES 5...26

Table with 27 columns (i, 5-26) and multiple rows for gear unit sizes (PG1-PG4) at n=1800 r/min. Includes a large watermark 'JIANG'.

PG1、PG2、PG3、PG4见214页 See page 214 for PG1、PG2、PG3、PG4



平行轴齿轮箱 Helical gear units

额定功率 Nominal Power Ratings

类型 TYPES EH4... 规格 SIZES 7...26

Table with columns for gear unit sizes (7-26) and rows for input speeds (100, 112, 125, 140, 160, 180, 200, 224, 250, 280, 315, 355, 400, 450). Includes sub-headers for nominal power ratings in kW.

卧式安装齿轮箱要采用强制润滑 Forced lubrication required on horizontal gear units 敬请垂询 Gear units only on request

平行轴齿轮箱 Helical gear units

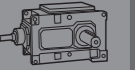
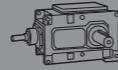
热容量 Thermal Capacities

类型 TYPES EH4... 规格 SIZES 7...26

Table with columns for gear unit sizes (7-26) and rows for input speeds (100, 112, 125, 140, 160, 180, 200, 224, 250, 280, 315, 355, 400, 450). Includes sub-headers for thermal capacities at n=1000 r/min.

Table with columns for gear unit sizes (7-26) and rows for input speeds (100, 112, 125, 140, 160, 180, 200, 224, 250, 280, 315, 355, 400, 450). Includes sub-headers for thermal capacities at n=1200 r/min.

PG1:不带辅助冷却装置 PG1: Without auxiliary cooling



平行轴齿轮箱
Helical gear units

热容量
Thermal Capacities

类型 TYPES EH4...

规格 SIZES 7...26

Table with columns for gear unit sizes (7-26) and thermal capacities for n=1500 r/min. Rows include gear ratios (i) and types (PG1).

Table with columns for gear unit sizes (7-26) and thermal capacities for n=1800 r/min. Rows include gear ratios (i) and types (PG1).

PG1: 不带辅助冷却装置 PG1: Without auxiliary cooling

直交轴齿轮箱
Bevel-helical Gear Units

额定功率
Nominal Power Ratings

类型 TYPES EB2...

规格 SIZES 1...26

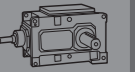
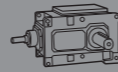
Large table with columns for gear unit sizes (1-26) and nominal power ratings (KW) for various gear ratios (i) and types (PG1). Includes sub-columns for input/output speeds (n1, n2).

卧式安装齿轮箱要采用强制润滑

Forced lubrication required on horizontal gear units

* 敬请垂询

* Gear units only on request



直交轴齿轮箱
Bevel-helical Gear Units

热容量
Thermal Capacities

类型 TYPES EB2...
规格 SIZES 1...26

Table with columns for gear unit sizes (1-26) and rows for different gear types (PG1-PG4) at n=1000 r/min. Includes a large watermark '浙江恒齿传动股份有限公司 ZHEJIANG EVERGEAR CO., LTD.'

PG1、PG2、PG3、PG4见214页 See page 214 for PG1、PG2、PG3、PG4

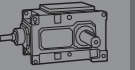
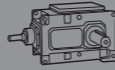
直交轴齿轮箱
Bevel-helical Gear Units

热容量
Thermal Capacities

类型 TYPES EB2...
规格 SIZES 1...26

Table with columns for gear unit sizes (1-26) and rows for different gear types (PG1-PG4) at n=1200 r/min. Includes a large watermark '浙江恒齿传动股份有限公司 ZHEJIANG EVERGEAR CO., LTD.'

PG1、PG2、PG3、PG4见214页 See page 214 for PG1、PG2、PG3、PG4



直交轴齿轮箱
Bevel-helical Gear Units

热容量
Thermal Capacities

类型 TYPES EB2...
规格 SIZES 1...26

i	齿轮箱规格 Gear unit sizes																											
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26		
	n=1500 r/min 额定热功率																											
5	PG1	26.5	34.6	45.3	35.3	*		*		*		*		*		*		*		*		*		*		*		
	PG2	54.4	72.3	104.5	139	184	283	328	478	574	486																	
	PG3				159	238	368	459	774	1524	2040																	
	PG4				249	366	581	705	1144	2019	2386																	
5.6	PG1	25.3	33.4	43.7	38.6	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	PG2	51.4	69.3	100.6	135	185	274	322	504	646	618	565																
	PG3				154	231	340	424	738	1470	1992	2307																
	PG4				241	359	543	662	1126	2044	2489	2739																
6.3	PG1	24.3	30.1	39.6	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	PG2	49.6	62.4	90.8	132	178	206	259	308	310	345	479	581	633	753	664	684	646										
	PG3				147	215	306	308	449	385	531	651	1120	1295	1613	1847	2019	2155										
	PG4				231	336	456	497	690	612	799	1010	1596	1839	2267	2393	2574	2689										
7.1	PG1	25.1	32.3	42.2	40.6	44	50.6	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	PG2	50.6	62.2	89.6	125	169	204	248	298	299	336	493	601	676	804	720	754	740	760									
	PG3				135	199	298	284	414	354	488	629	1072	1261	1552	1722	1875	2031	2177									
	PG4				213	313	447	462	642	570	747	996	1556	1848	2261	2331	2505	2666	2817									
8	PG1	23.3	30.0	39.3	39.9	45.1	53.4	53	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	PG2	44.6	57.4	83.2	117	160	195	236	280	287	321	463	564	646	768	713	775	756	808									
	PG3				124	182	276	263	375	328	444	557	942	1126	1364	1553	1751	1851	2043									
	PG4				198	290	417	430	586	533	686	896	1392	1674	2016	2152	2400	2499	2729									
9	PG1	20.5	28.0	37.5	39.3	45.7	54.4	55.8	61.6	59.6	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	PG2	38.0	53.7	78.9	111	153	186	226	266	277	306	452	568	640	785	724	759	782	812									
	PG3				115	168	253	246	346	310	409	526	915	1055	1329	1474	1570	1766	1858									
	PG4				183	267	386	407	543	507	637	853	1363	1598	1996	2085	2204	2444	2549									
10	PG1	20.8	26.8	36.0	33.7	44	53.3	55.1	62.3	60.8	63.9	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	PG2	32.8	44.6	66.3	92.8	140	174	211	251	261	291	429	525	616	734	698	753	770	818									
	PG3				91.9	150	233	224	318	284	377	483	810	978	1176	1347	1490	1642	1772									
	PG4				147	240	356	372	505	465	591	791	1218	1490	1787	1933	2118	2306	2464									
11.2	PG1	20.0	26.1	35.3	33	40.4	52.1	51	61.9	57.7	65.2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	PG2	31.6	43.4	64.0	89.8	125	165	188	240	232	279	382	506	555	709	641	721	714	797									
	PG3				87.9	131	213	195	298	246	356	418	764	849	1101	1186	1360	1457	1652									
	PG4				140	210	327	326	474	406	561	688	1156	1306	1688	1722	1960	2068	2315									
12.5	PG1	19.2	27.6	35.0		50.1	61.7		66.9	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
	PG2	30.6	45.7	64.4		151	224		264	481	681		669		749													
	PG3					189	272		326	701	1021		1198		1468													
	PG4					292	435		515	1070	1574		1754		2093													
14	PG1	18.2	24.0	31.3		46	57.4		63.1	*	*																	
	PG2	30.0	39.7	56.7		135	200		236	428	611																	
	PG3					166	238		283	605	884																	
	PG4					255	380		449	931	1377																	
16	PG1	17.4	22.5	29.3																								
	PG2	28.3	37.0	53.0																								
	PG3																											
	PG4																											
18	PG1	16.9	21.5	28.0																								
	PG2	26.0	33.8	48.0																								
	PG3																											
	PG4																											

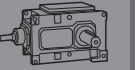
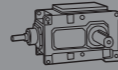
PG1、PG2、PG3、PG4见214页 See page 214 for PG1、PG2、PG3、PG4

直交轴齿轮箱
Bevel-helical Gear Units

热容量
Thermal Capacities

类型 TYPES EB2...
规格 SIZES 1...26

i	齿轮箱规格 Gear unit sizes																										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
	n=1800 r/min 额定热功率																										
5	PG1	25.1	32.7	42.8	*	*		*		*		*		*		*		*		*		*		*		*	
	PG2	61.7	82.0	118.5	149	190	283	313	392	350	*																
	PG3				170	250	383	470	765	1446	1814																
	PG4				276	401	630	753	1174	1966	2104																
5.6	PG1	23.9	31.5	41.2	*	*		*		*		*		*		*		*		*		*		*		*	
	PG2	58.3	78.6	114.1	147	194	282	321	453	493	*	*															
	PG3				164	244	356	439	744	1435	1851	2075															
	PG4				268	395	593	716	1182	2066	2355	2464															
6.3	PG1	23.0	28.4	37.4	31	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PG2	56.3	70.7	103.0	144	189	218	270	318	315	346	450	519	528	612	419	*	*									
	PG3				157	228	324	324	471	402	551	663	1127	1285	1592	1758	1902	1997									
	PG4				258	371	504	546	754	666	865	1073	1673	1894	2322	2342	2482	2533									
7.1	PG1	24.9	32.1	41.9	34	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PG2	57.4	70.6	101.7	136	182	219	263	313	311	346	485	572	616	721	563	560	503	473								
	PG3				145	212	317	301	437	372	512	650	1097	1275	1564	1687	1823	1951	2070								
	PG4				238	347	495	511	707	625	817	1073	1659	1946	2371	2367	2519	2639	2751								
8	PG1	23.1	29.8	39.0	35	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PG2	50.6	65.1	94.4	129	173	211	253	298	302	336	467	556	616	723	609	641	592	600								
	PG3				133	195	294	279	397	347	468	580	973	1152	1391	1549	1734	1815	1986								
	PG4				222	323	464	477	649	588	754	973	1500	1785	2143	2230	2467	2539	2743								
9	PG1	20.4	27.8	37.2	35	36	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
	PG2	43.1	60.9	89.5	123	166	202	244	285	295	324	465	574	630	76												



直交轴齿轮箱 Bevel-helical Gear Units

额定功率 Nominal Power Ratings

类型 TYPES EB3... 规格 SIZES 3...26

Table with columns for gear unit sizes (3-26) and rows for input speeds (1800, 1500, 1200, 1000) and output speeds (12.5, 14, 16, 18, 20, 22.4, 25, 28, 31.5, 35.5, 40, 45, 50, 56, 63, 71, 80, 90). Includes sub-headers for gear unit sizes and nominal power ratings.

卧式安装齿轮箱要采用强制润滑 Forced lubrication required on horizontal gear units 敬请垂询 Gear units only on request

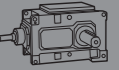
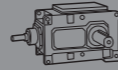
直交轴齿轮箱 Bevel-helical Gear Units

热容量 Thermal Capacities

类型 TYPES EB3... 规格 SIZES 3...26

Table with columns for gear unit sizes (3-26) and rows for input speeds (1800, 1500, 1200, 1000) and output speeds (12.5, 14, 16, 18, 20, 22.4, 25, 28, 31.5, 35.5, 40, 45, 50, 56, 63, 71, 80, 90). Includes sub-headers for gear unit sizes and thermal capacities.

PG1、PG2、PG3、PG4见214页 See page 214 for PG1、PG2、PG3、PG4



直交轴齿轮箱 Bevel-helical Gear Units

热容量 Thermal Capacities

类型 TYPES EB3... 规格 SIZES 3...26

Table with columns for gear unit sizes (3-26) and rows for types (PG1-PG4) at n=1200 r/min. Includes a watermark 'JIANG'.

PG1、PG2、PG3、PG4见214页 See page 214 for PG1、PG2、PG3、PG4

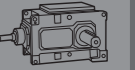
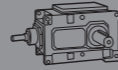
直交轴齿轮箱 Bevel-helical Gear Units

热容量 Thermal Capacities

类型 TYPES EB3... 规格 SIZES 3...26

Table with columns for gear unit sizes (3-26) and rows for types (PG1-PG4) at n=1500 r/min. Includes a watermark 'JIANG'.

PG1、PG2、PG3、PG4见214页 See page 214 for PG1、PG2、PG3、PG4



直交轴齿轮箱 Bevel-helical Gear Units

热容量 Thermal Capacities

类型 TYPES EB3... 规格 SIZES 3...26

Table with columns for gear unit sizes (3-26) and rows for different gear types (PG1-PG4) at n=1800 r/min. Includes a watermark 'JIANG'.

PG1、PG2、PG3、PG4见214页 See page 214 for PG1、PG2、PG3、PG4

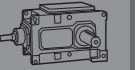
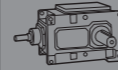
直交轴齿轮箱 Bevel-helical Gear Units

额定功率 Nominal Power Ratings

类型 TYPES EB4... 规格 SIZES 5...26

Table with columns for gear unit sizes (5-26) and rows for different gear types (PG1-PG4) showing nominal power ratings. Includes a watermark 'JIANG'.

卧式安装尺寸箱要采用强制润滑。 Forced lubrication required on horizontal gear units.



直交轴齿轮箱
Bevel-helical Gear Units

热容量
Thermal Capacities

类型 TYPES EB4...
规格 SIZES 5...26

Table with columns for gear unit sizes (5-26) and thermal capacities at n=1000 r/min. Rows include models 80, 90, 100, 112, 125, 140, 160, 180, 200, 224, 250, 280, 315, 355, 400.

Table with columns for gear unit sizes (5-26) and thermal capacities at n=1200 r/min. Rows include models 80, 90, 100, 112, 125, 140, 160, 180, 200, 224, 250, 280, 315, 355, 400.

PG1:不带辅助冷却装置 PG1: Without auxiliary cooling

直交轴齿轮箱
Bevel-helical Gear Units

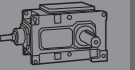
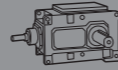
热容量
Thermal Capacities

类型 TYPES EB4...
规格 SIZES 5...26

Table with columns for gear unit sizes (5-26) and thermal capacities at n=1500 r/min. Rows include models 80, 90, 100, 112, 125, 140, 160, 180, 200, 224, 250, 280, 315, 355, 400.

Table with columns for gear unit sizes (5-26) and thermal capacities at n=1800 r/min. Rows include models 80, 90, 100, 112, 125, 140, 160, 180, 200, 224, 250, 280, 315, 355, 400.

PG1:不带辅助冷却装置 PG1: Without auxiliary cooling



平行轴齿轮箱
Helical gear units

额定输出扭矩
Nominal Output Torques

类型 TYPES EH1...,EH2...,EH3...,EH4...

规格 SIZES 1...26

in	齿轮箱规格 Gear unit sizes																									
	1	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
	额定输出扭矩T2n(KNm)													Nominal Output Torques T2n(KNm)												
1.25	0.79	2.6		7		13.3		21.5																		
1.4	0.83	2.7		7.2		13.9		22.3																		
1.6	0.87	2.9		7.5		14.2		23.6		40		63														
1.8	0.91	2.4		7.7		15.2		24.4		41.4		66.3														
2.0	0.93	2.5		8.2		15.5		25		42.7		68.2		121												
2.24	0.96	2.5		8.4		15.5		25		44		70.3		122												
2.5	1	2.6		8.4		15.5		25		44		72		110												
2.8	1	2.7		8.4		14.9		23.7		44		72		113		171										
3.15	1	2.7		8.4		15.2		24.5		41.9		68.4		116		173										
3.55	1	2.8		8.3		15.5		24.9		43.7		69.6		118		173										
4.0	1	2.8		8.4		15.5		25		44		70.8		122		173		245								
4.5	0.82	2.2		6.7		13.8		21.4		40		57.6		102		146		216								
5.0	0.78	2.1		6.3		12		20.5		33.7		54.5		88.8		124		174								
5.6	0.62	2		6		11.4		17.5		31.8		51.8		84.5		118		150								
6.3		3.5	6.3	10.5		19		31.5		55.5		86		143		195		292								
7.1		3.5	6.3	10.5		19		31.5		55.5		86		143	160	195	230	292	335	410						
8.0		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	107	143	160	195	230	292	335	410	458	540				
9.0		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	107	143	160	195	230	292	335	410	458	540	620			
10		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	107	143	160	195	230	292	335	410	458	540	620			
11.2		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	107	143	160	195	230	292	335	410	458	540	620	780		
12.5		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	107	143	160	195	230	292	335	410	458	540	620	780	880	
14		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	107	143	160	195	230	292	335	410	458	540	620	780	880	
16		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	107	143	160	195	230	292	335	410	458	540	620	780	880	
18		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	107	143	160	195	230	292	335	410	458	540	620	780	880	
20		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	107	143	160	195	230	292	335	410	458	540	620	780	880	
22.4		3.5	6.2	10.2	13.5	18.6	24	31	39.5	54.5	69	88	107	153	160	200	230	300	335	420	458	560	620	800	880	
25				11	13.5	20.5	24	34	39.5	60	69	88	107	153	173	200	240	300	345	420	470	560	640	800	900	
28				11	13	20.5	23.5	34	38.9	60	67.8	88	109	153	173	200	240	300	345	420	470	560	640	800	900	
31.5				11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	
35.5				11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	
40				11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	
45				11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	
50				11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	
56				11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	
63				11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	
71				11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	
80				11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	
90				11	14.5	20	25.5	33.5	43	60	75	88	109	153	173	200	240	290	345	410	470	560	640	800	900	
100				11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	226	300	335	420	465	560	640	800	900	
112				11	14.1	20.5	25.2	34	42	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900	
125				11	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900		
140				11	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900		
160				11	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900		
180				11	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900		
200				11	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900		
224				11	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900		
250				11	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900		
280				11	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900		
315				11	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900		
355				11	19.6	25.5	33	43	59	75	88	109	140	173	192	240	290	345	410	470	560	640	800	900		
400						25.5		43		75		109		158		223		335				465		640	900	
450						24.8		41.6		74		109														

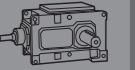
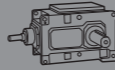
直交轴齿轮箱
Bevel-helical Gear Units

额定输出扭矩
Nominal Output Torques

类型 TYPES EB2...EB3...EB4...

规格 SIZES 1...26

in	齿轮箱规格 Gear unit sizes																									
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	额定输出扭矩T2n(KNm)													Nominal Output Torques T2n(KNm)												
5.0	1.15	2	3.1	5.8	9.4		17.8		28		43		66		122											
5.6	1.15	2	3.1	5.8	9.4		17.8		28		45		67		122	135	195									
6.3	1.15	2	3.1	5.8	9.4	12	17.8	22.3	28	35.6	47	55	71	82	130	141	195									
7.1	1.15	2	3.1	5.8	9.4	12	17.8	22.3	28	35.6	49	57	73	84	132	145	195	230								
8.0	1.15	2	3.1	5.8	9.4	12	17.8	22.3	28	35.6	50.5	59	77	88	132	148	195	230								
9.0	1.15	2	3.1	5.8	9.4	12	17.8	22.3	28	35.6	50.5	61	78	91	132	148	195	230								
10	1.15	2	3.1	5.8	9.4	12	17.8	22.3	28	35.6	50.5	62	78	95	132	148	195	230								
11.2	1.15	2	3.1	5.8	9.4	12	17.8	22.3	28	35.6	50.5	62	78	97.5	132	148	195	230								
12.5	1.15	2	3.1	5.5	9.4	12	17.0	22.3	28	35.6	50.5	62	78	97.5	132	148	195	230	250		340					
14	1.15	2	3.1	6	9.8	12	18.2	22.3	29.5	35.6																



平行轴齿轮箱
Helical gear units

实际速比
Actual Ratios

类型 TYPES EH1...,EH2...,EH3...,EH4...
规格 SIZES 1...13

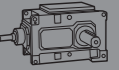
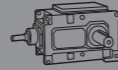
平行轴齿轮箱
Helical gear units

实际速比
Actual Ratios

类型 TYPES EH1...,EH2...,EH3...,EH4...
规格 SIZES 14...26

Table with columns for 'in' and gear unit sizes 1-13. Includes ratios for various gear configurations.

Table with columns for gear unit sizes 14-26 and 'in'. Includes ratios for various gear configurations.



直交轴齿轮箱
Bevel-helical gear units

实际速比
Actual Ratios

类型 TYPES EB2...,EB3...,EB4...

规格 SIZES 1...13

in	实际速比 i Actual ratios i													
	齿轮箱规格 Gear unit sizes													
	1	2	3	4	5	6	7	8	9	10	11	12	13	
5.0	4.980	5.043	4.895	4.936	5.006		4.865		5.002		4.897		4.967	
5.6	5.566	5.636	5.471	5.480	5.488		5.333		5.483		5.534		5.613	
6.3	6.455	6.526	6.334	6.296	6.386	6.205	6.206	6.135	6.381	6.271	6.296	6.226	6.386	
7.1	7.068	7.158	6.947	6.959	7.058	6.802	6.860	6.725	7.053	6.875	7.037	7.036	7.138	
8.0	7.668	7.765	7.536	7.549	7.657	7.915	7.880	7.825	8.101	8.000	7.994	8.005	8.108	
9.0	8.829	8.941	8.678	8.693	8.817	8.749	8.569	8.649	8.810	8.842	8.693	8.947	8.817	
10	10.027	10.154	9.855	9.872	10.108	9.490	9.823	9.935	10.099	10.157	9.965	10.164	10.108	
11.2	10.938	11.077	10.751	10.769	10.923	10.928	10.615	10.804	10.914	11.045	10.769	11.052	10.923	
12.5	12.458	12.615	12.244	12.034	12.703	12.528	12.433	12.385	12.554	12.662	12.334	12.670	12.482	
14	14.005	14.182	13.765	13.484	13.964	13.538	13.515	13.385	14.137	13.683	13.821	13.692	13.721	
16	15.441	15.636	15.176	15.601	15.835	15.826	16.275	15.773	15.952	15.693	15.522	15.888	16.354	
18	17.595	17.818	17.294	17.482	17.407	17.307	17.692	17.041	17.963	17.724	17.393	17.572	17.978	
20			19.336	19.614	19.645	19.729	19.948	20.648	20.259	19.940	19.744	19.995	20.276	
22.4			21.609	21.919	21.954	21.575	22.146	22.308	22.208	22.520	21.643	22.114	22.226	
25			25.021	25.380	25.421	24.349	25.446	25.152	25.843	25.400	25.185	25.103	25.864	
28			27.442	27.836	27.881	27.211	28.125	27.923	28.563	27.842	27.836	27.517	28.587	
31.5			29.769	30.196	30.245	31.508	30.509	32.084	30.985	32.400	31.975	32.021	32.838	
35.5			34.279	34.771	34.827	34.557	35.131	35.461	35.679	35.811	34.771	35.392	35.709	
40			38.928	39.487	39.551	37.486	39.896	38.468	40.902	38.846	39.861	40.654	40.936	
45			42.467	43.077	43.146	43.166	43.523	44.296	44.202	44.732	43.077	44.209	44.238	
50			48.365	49.060	49.139	49.021	49.568	50.304	50.341	51.280	49.060	50.681	50.383	
56			54.371	55.152	55.240	53.477	55.723	54.877	56.592	55.417	55.152	54.769	56.639	
63			59.947	60.808	60.906	60.904	61.438	62.499	62.396	63.114	60.808	62.376	62.448	
71			68.312	69.293	69.404	68.467	70.011	70.259	71.102	70.951	69.293	70.121	71.161	
80						77.598	75.489	79.267	77.465	79.497	78.228	80.949	77.313	82.118
90						86.720	86.022	88.585	88.274	88.842	89.143	89.869	88.101	90.016
100						100.413	96.178	102.572	99.945	102.869	99.667	103.259	102.921	104.750
112						110.130	107.484	112.498	111.694	112.824	111.384	114.129	114.262	115.777
125						119.466	124.455	122.035	129.330	122.389	128.971	123.804	131.287	125.592
140						137.567	136.499	140.525	141.846	140.933	141.452	142.562	145.106	144.621
160						156.225	148.071	159.585	153.871	160.047	153.443	161.897	157.408	165.791
180						170.427	170.506	174.092	177.184	174.597	176.692	176.615	181.258	179.166
200						194.098	193.631	198.272	201.215	198.847	200.656	201.145	205.841	204.050
224						218.199	211.234	222.891	219.508	223.537	218.898	226.121	224.554	229.386
250						240.578	240.572	245.752	249.995	246.464	249.300	249.313	255.742	252.913
280						274.147	270.443	280.042	281.036	280.855	280.256	284.101	287.497	288.204
315						302.121	298.181	308.618	309.861	309.513	309.000	313.091	316.984	317.612
355							339.788		353.097		352.116		361.214	
400							374.460		389.127		388.046		398.073	
450														

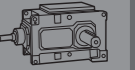
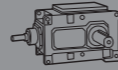
直交轴齿轮箱
Bevel-helical gear units

实际速比
Actual Ratios

类型 TYPES EB2...,EB3...,EB4...

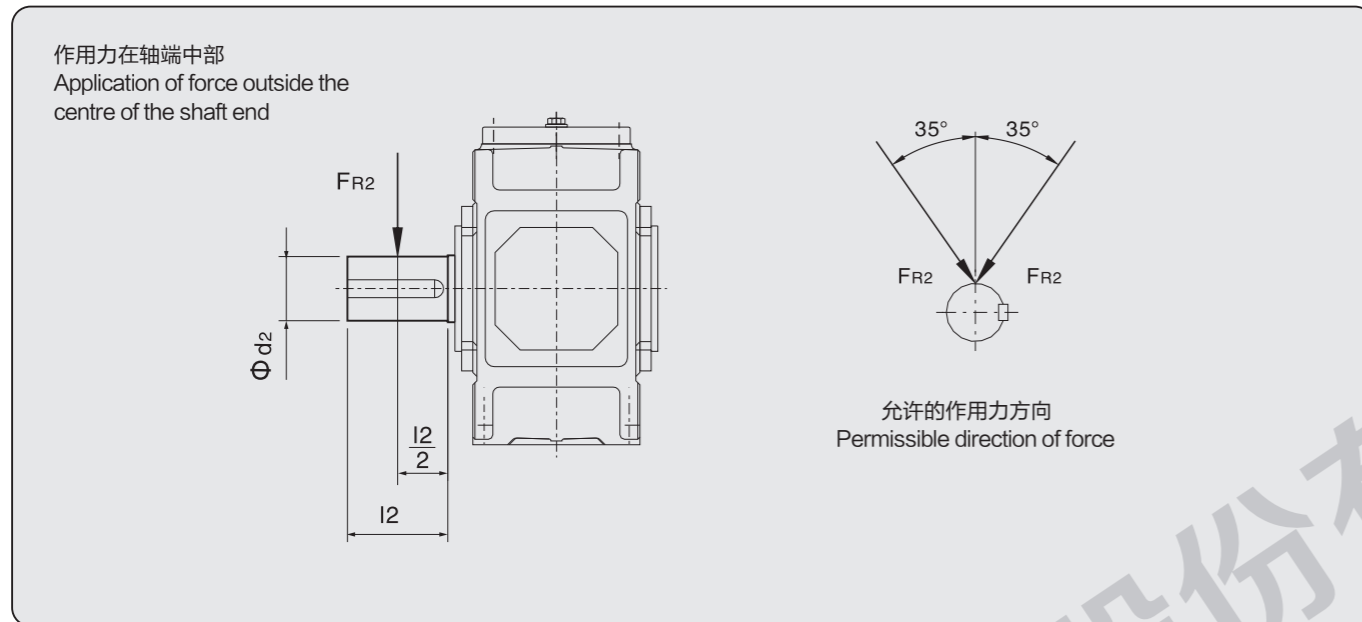
规格 SIZES 14...26

in	实际速比 i Actual ratios i																											
	齿轮箱规格 Gear unit sizes																											
	14	15	16	17	18	19	20	21	22	23	24	25	26															
5.0		4.963																										5.0
5.6		5.609	5.630	5.514																								5.6
6.3	6.156	6.340	6.362	6.234																								6.3
7.1	6.957	7.132	7.192	7.012	7.239																							7.1
8.0	7.915	8.101	8.090	7.965	8.143																							8.0
9.0	8.847	8.810	9.190	8.662	9.250																							9.0
10	10.049	10.099	9.993	9.930	10.059																							10
11.2	10.928	10.914	11.456	10.731	11.531																							11.2
12.5	12.528	12.172	12.380	12.770	12.462	12.062	12.256																					12.5
14	13.538	13.810	13.832	13.790	14.654	13.709	13.698	13.902	13.719																			14
16	15.552	15.215	15.665	16.226	16.014	15.192	15.640	15.436	15.538																			16
18	17.007	17.262	17.290	17.522	18.620	17.267	17.252	17.510	17.279																			18
20	20.376	19.379	19.581	19.762	20.348	19.607	19.698	19.883	19.570	19.591		19.284															20	
22.4	22.282	21.900	21.982	22.333	22.950	22.158	22.368	22.470	22.222	22.139	21.930	21.793	22.206														22.4	
25	25.131	24.916	24.842	25.409	25.936	25.048	25.278	25.400	25.113	25.027	24.783	24.635	25.095	25													25	
28	27.548	27.847	28.263	28.398	29.507	28.175	28.576	28.571	28.389	28.151	28.015	27.711	28.368	28													28	
31.5	32.057	31.634	31.588	32.259	32.979	32.005	32.143	32.456	31.933	31.979	31.513	31.478	31.909	31.5													31.5	
35.5	35.432	34.400	35.883	35.080	37.463	34.804	36.513	35.294	36.275	34.775	35.797	34.231	36.248	35.5													35.5	
40	40.700	39.435	39.021	40.215	40.738	39.899	39.706	40.461	39.446	39.866	38.927	39.241	39.417	40													40	
45	44.259	42.617	44.732	43.460	46.702	43.117	45.518	43.725	45.221	43.082	44.626	42.407	45.187	45													45	
50	50.737	48.536	48.341	49.496	50.469	49.106	49.190	49.798	48.869	49.065	48.226	48.297	48.833	50													50	
56	54.831	54.562	55.055	55.641	57.479	55.203	56.022	55.981	55.656	55.158	54.924	54.294	55.615	56													56	
63	62.446	60.158	61.892	61.348	64.616	60.865	62.978	61.722	62.567	60.815	61.744	59.863	62.520	63													63	
71	70.200	68.553	68.239	69.909	71.243	69.358	69.438	70.335	68.984	69.301	68.076	68.216	68.933	71													71	
80	77.400	78.131	77.761	76.506	81.184	79.977	79.127	77.639	78.610	76.497	77.575	78.100	78.551	80													80	
90	88.200	85.645	88.626	83.865	88.846	87.670	91.242	87.739	86.772	86.448	85.631	88.260	89.933	90													90	
100	101.780	99.664	97.150	97.593	97.391	102.020	100.017	99.821	98.061	98.353	96.770	100.414	101.633	100													100	
112	111.569	110.155	113.052	107.865	113.333	112.759	116.389	111.565	111.565	109.924	110.097	112.228	115.629	112													112	
125	129.831	126.535	124.952	123.904	125.263	129.526	128.641	126.733	124.690	124.870	123.049	127.487	129.232	125													125	
140	143.498	137.599	143.532	134.739	143.889	140.851	147.																					



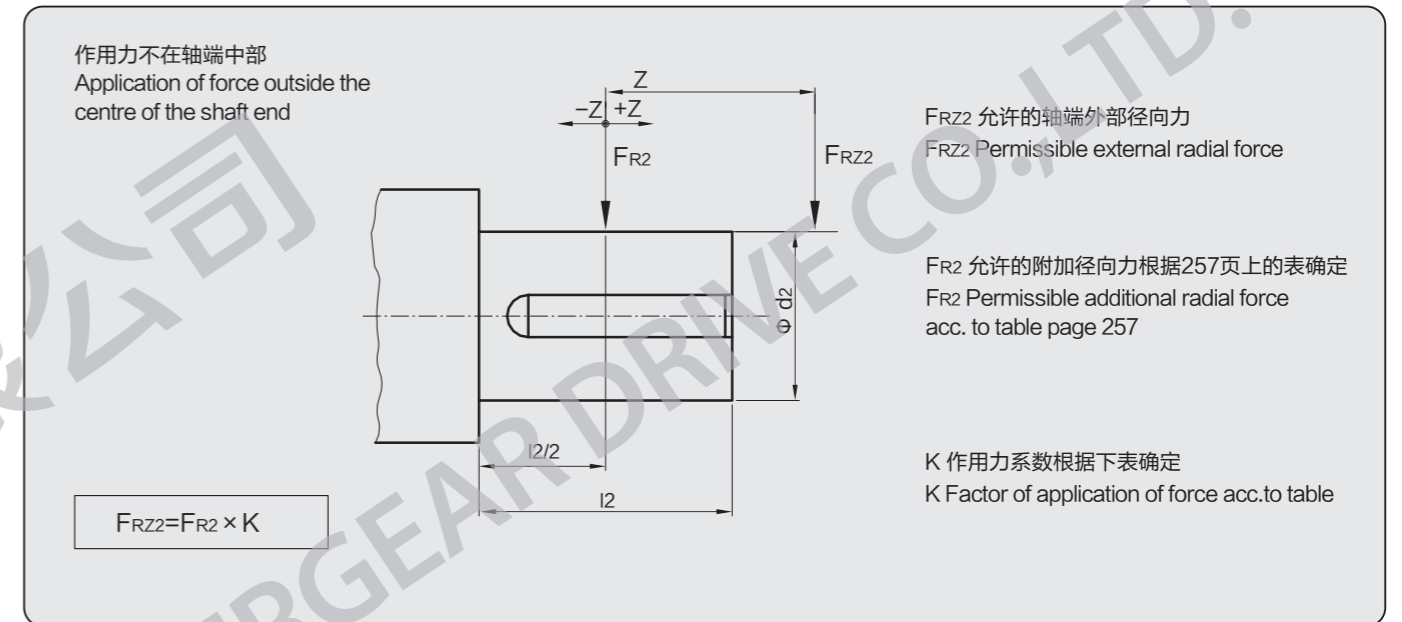
齿轮箱 Gear Units 输出轴d2上允许的附加径向力¹⁾ Permissible Additional Radial Forces on Output Shaft d2¹⁾

类型 TYPES EH1SH., EH2S., EH3S., EH4S., EB2S., EB3S., EB4S



齿轮箱 Gear Units 输出轴 d2 上允许的附加径向力 Permissible Additional Radial Forces on Output Shaft d2

类型 TYPES EH1SH., EH2S., EH3S., EH4S., EB2S., EB3S., EB4S



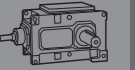
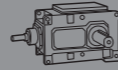
允许的附加径向力 FR2 (kN), 作用于输出轴端中部³⁾
Permissible additional radial forces FR2 in kN with application of force on center of shaft end

类型 Type	布置形式 Design	齿轮箱规格 1), 4) Gearunitsize 1), 4)																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
EH1SH	A/B	2)	-	2)	-	2)	-	2)	-	2)	-	2)	-	2)	-	2)	-	2)	-
EH2S.	A/B/G/H	-	-	8	10	22	22	30	30	30	45	64	64	150	150	140	205	205	205
	C/D	-	-	8	10	13	13	30	18	10	28	35	35	112	112	85	135	135	135
EH3S.	A/B/G/H	-	-	-	-	29	29	40	40	40	60	85	85	190	190	185	265	265	265
	C/D	-	-	-	-	18	18	26	26	18	40	50	50	150	150	120	185	185	190
EH4S.	A/B	-	-	-	-	-	-	26	26	18	40	50	50	150	150	120	185	185	190
	C/D	-	-	-	-	-	-	40	40	40	60	85	85	190	190	185	265	265	265
EB2S.	A/C	7	10	10	13	27	27	37	37	38	55	78	78	160	160	150	210	210	210
	B/D	4	7	9	12	15	15	17	17	10	30	38	38	110	110	75	145	100	100
EB3S.	A/C	-	-	9	14	29	29	40	40	40	60	85	85	190	190	185	265	265	265
	B/D	-	-	7	9	18	18	26	26	18	40	50	50	150	150	120	185	185	190
EB4S.	A/C	-	-	-	-	29	29	40	40	40	60	85	85	190	190	185	265	265	265
	B/D	-	-	-	-	18	18	26	26	18	40	50	50	150	150	120	185	185	190

1)表中数据为最小值。如果给定了力的作用角和旋转方向,通常情况下,可允许承受较大的附加径向力。此时请与我们联系。
2)根据用户要求供货。
3)当作用力不在轴端中部时,请参见第258页。
4)基础螺栓的最低性能等级为8.8级。基础必须干燥,不得有油脂。如用户要求,允许输入轴d1上附加径向力。
1) Values in tables are minimum values.If the angle of application of force and the direction of rotation are given,significantly higher additional forces can mostly be allowed.Please consult us.
2)On request.
3)For application of force outside the center of the shaft end, see page 258.
4)Use foundation bolts of min.Property class8.8.Foundation must be dry and grease-free.Permissible additional radial forces on input shaft d1on request.

作用力系数 K Factor of application of force K

规格 Size	距离 Z(mm) Distance Z in mm															
	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	250	300	
1						1.11	1.00	0.81	0.68	0.58	0.51					
2						1.11	1.00	0.83	0.71	0.63	0.56					
3					1.21	1.09	1.00	0.85	0.74	0.65	0.58	0.48				
4					1.17	1.08	1.00	0.86	0.76	0.68	0.62	0.52	0.44			
5+6				1.22	1.14	1.06	1.00	0.88	0.79	0.72	0.66	0.56	0.49	0.43		
7+8				1.19	1.12	1.06	1.00	0.89	0.81	0.74	0.68	0.58	0.51	0.46	0.41	
9+10				1.22	1.15	1.10	1.05	1.00	0.90	0.82	0.76	0.70	0.61	0.54	0.44	
11+12				1.18	1.13	1.08	1.04	1.00	0.91	0.84	0.78	0.73	0.64	0.57	0.51	0.47
13+14		1.24	1.15	1.11	1.07	1.03	1.00	0.92	0.86	0.80	0.75	0.67	0.60	0.55	0.50	
15+16		1.20	1.12	1.09	1.06	1.03	1.00	0.93	0.87	0.82	0.77	0.69	0.63	0.58	0.53	
17+18	1.25	1.17	1.11	1.08	1.05	1.03	1.00	0.94	0.88	0.84	0.79	0.72	0.66	0.60	0.56	



卧式安装齿轮箱
Horizontal gear units

布置形式
Design

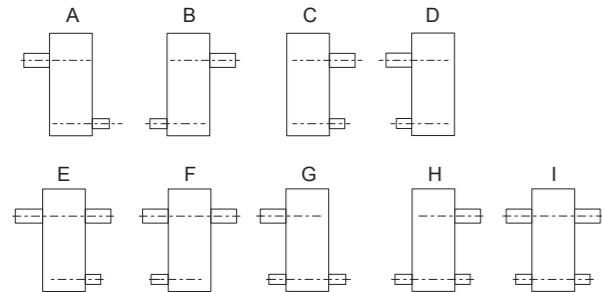
类型 TYPES EH2...EH4, EB2...EB4
规格 SIZES 1...26

平行轴齿轮箱 Helical gear units

视图方向:水平放置从上向下看
View orientation: placed horizontally from looking down

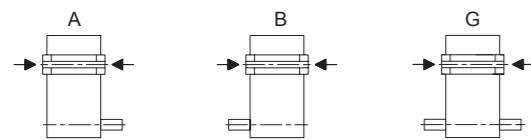
实心轴 Solid shaft

EH.SH



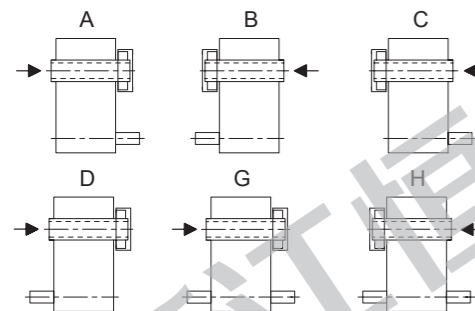
空心轴 Hollow shaft *)

EH.HH、EH.HM



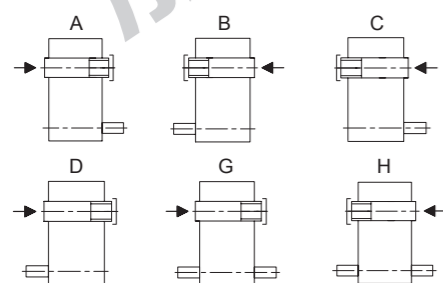
带胀紧盘空心轴 Hollow shaft for shrink disk *)

EH.DH、EH.DM



带花键空心轴 Hollow shaft with involute spline *)

EH.KH、EH.KM



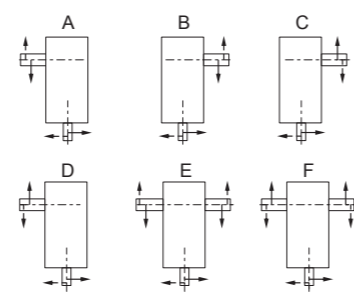
→ 箭头表示工作机驱动轴插入方向 The arrow indicates the direction of the driven machine shaft

直交轴齿轮箱 Bevel-helical gear units

视图方向:水平放置从上向下看
View orientation: placed horizontally from looking down

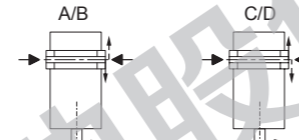
实心轴 Solid shaft

EB.SH



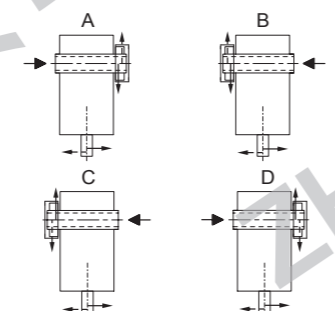
空心轴 Hollow shaft *)

EB.HH、EB.HM



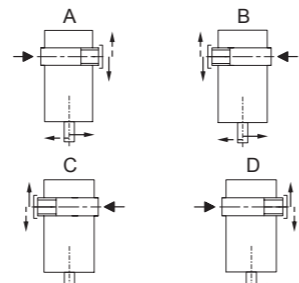
带胀紧盘空心轴 Hollow shaft for shrink disk *)

EB.DH、EB.DM



带花键空心轴 Hollow shaft with involute spline *)

EB.KH、EB.KM



→ 箭头表示工作机驱动轴插入方向 The arrow indicates the direction of the driven machine shaft

立式安装齿轮箱
Vertical gear units

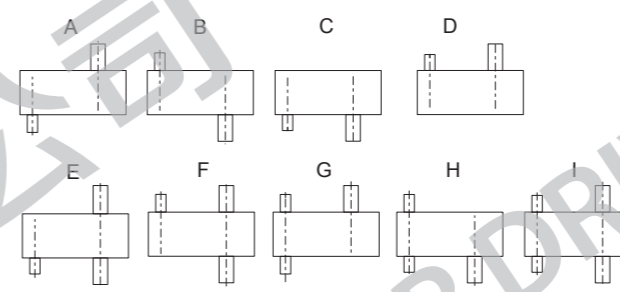
布置形式
Design

类型 TYPES EH2...EH4, EB2...EB4
规格 SIZES 1...26

平行轴齿轮箱 Helical gear units

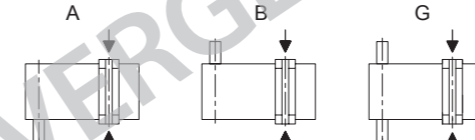
实心轴 Solid shaft

EH.SV



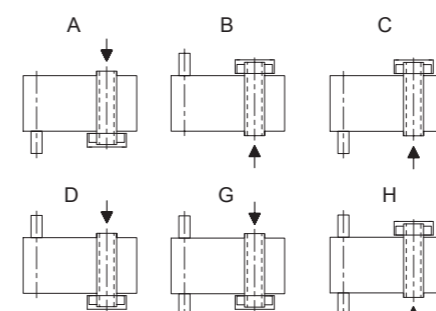
空心轴 Hollow shaft *)

EH.HV



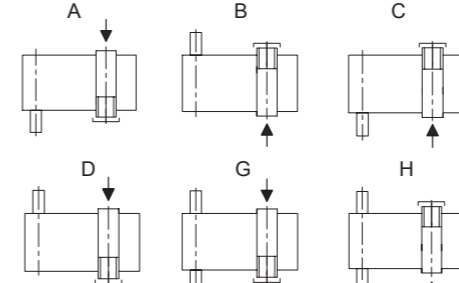
带胀紧盘空心轴 Hollow shaft for shrink disk *)

EH.DV



带花键空心轴 Hollow shaft with involute spline *)

EH.KV

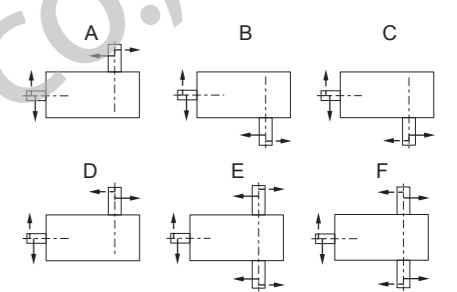


→ 箭头表示工作机驱动轴插入方向 The arrow indicates the direction of the driven machine shaft

直交轴齿轮箱 Bevel-helical gear units

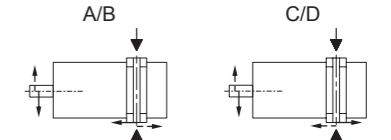
实心轴 Solid shaft

EB.SV



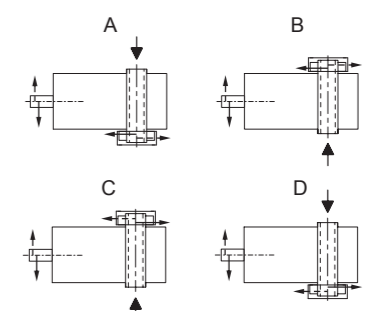
空心轴 Hollow shaft *)

EB.HV



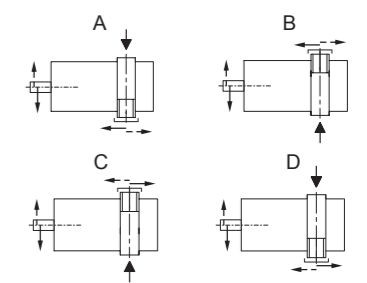
带胀紧盘空心轴 Hollow shaft for shrink disk *)

EB.DV

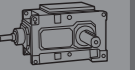
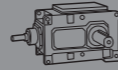


带花键空心轴 Hollow shaft with involute spline *)

EB.KV



→ 箭头表示工作机驱动轴插入方向 The arrow indicates the direction of the driven machine shaft



平行轴齿轮箱
Helical gear units

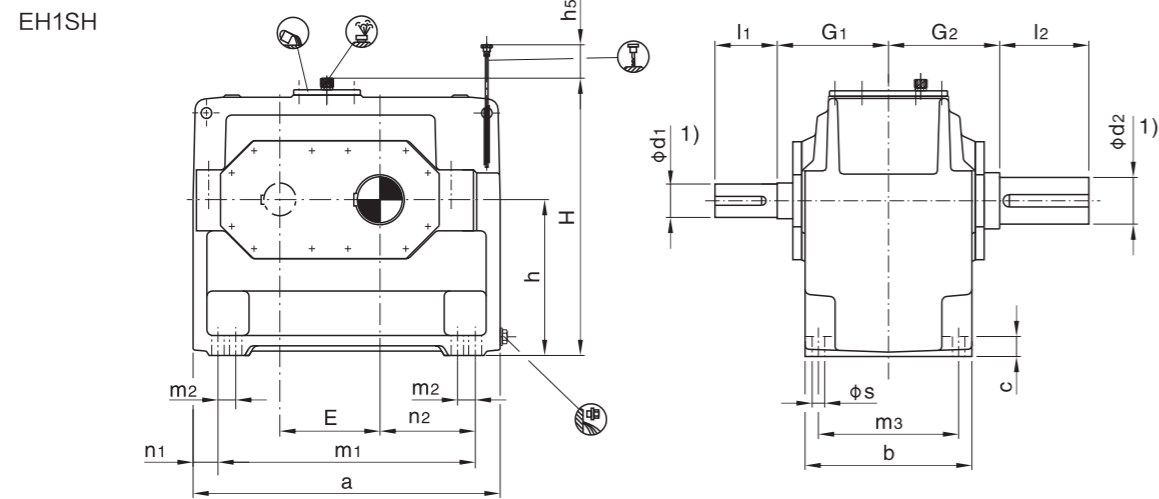
单级传动
Single Stage

卧式安装
Horizontal

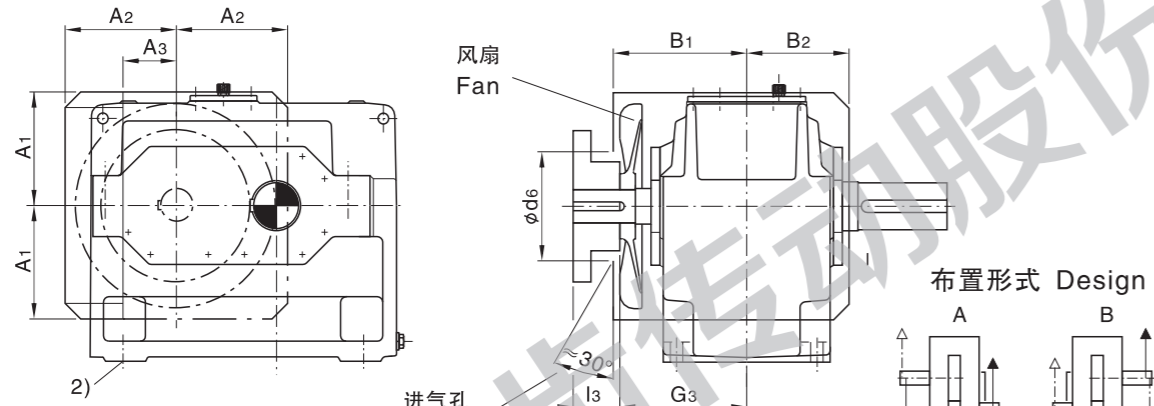
类型 TYPES EH1SH...
规格 SIZES 1...19



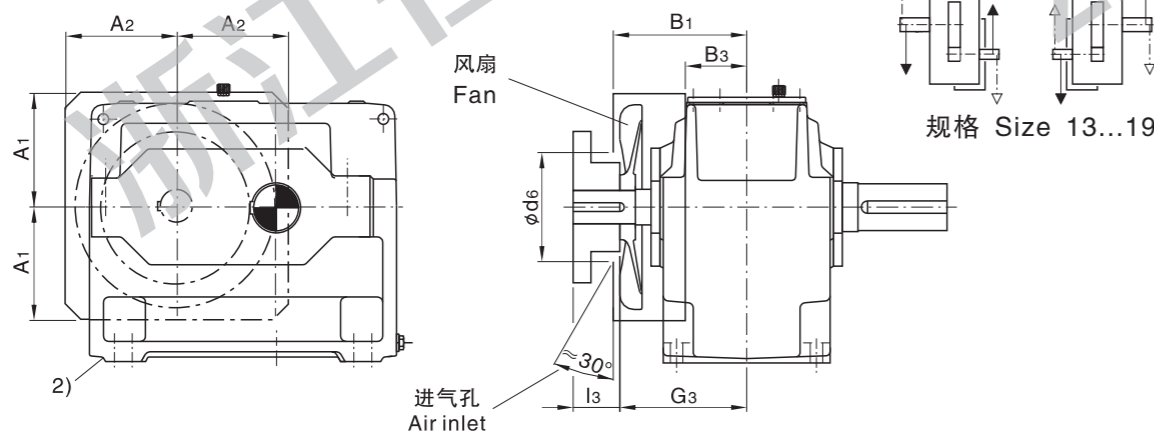
注: 尺寸 mm Note: Dimensions in mm



EH1SH
规格 3...11 带冷却风扇 Sizes 3...11 With fan



EH1SH
规格 13...19 带冷却风扇 Sizes 13...19 With fan



1) $k6 \leq \phi 50$ $m6 > \phi 50$ 有关平键 GB/T1095-1979型和中心孔, 参见第321-322页。For parallel key GB/T1095-1979 and for center hole, see page 321-322.
2) 在安装基础螺栓前, 应拆下风扇罩。Remove air guide cover before fitting the foundation bolts.
3) 规格1号不带风扇。Sizes 1 without fan.

规格 Size	输入轴 Input										冷却风扇 Fan											
	in=1.25-2.8			in=1.6-2.8*			in=2-2.8**			in=3.15-4			in=4.5-5.6									
	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3	G1	G3	A1	A2	A3	B1	B2	B3	d6	
1	40	70	-	30	50	-	24	40	-	110	-	-	-	-	-	-	-	-	-	-	-	-
3	60	125	105	45	100	80	32	80	60	170	190	150	145	80	205	130	-	-	-	-	-	130
5	85	160	130	60	135	105	50	110	80	210	240	225	215	115	255	185	-	-	-	-	-	190
7	100	200	165	75	140	105	60	140	105	250	285	255	250	120	300	230	-	-	-	-	-	245
9	110	200	165	90	165	130	75	140	105	280	315	300	265	140	330	265	-	-	-	-	-	280
11 *	130	240	205	110	205	170	90	170	135	325	360	360	330	190	375	320	-	-	-	-	-	350
13 *	150	245	200	130	245	200	100	210	165	365	410	415	350	-	430	-	-	-	-	-	-	350
15 **	180	290	240	150	250	200	125	250	200	360	410	500	430	-	430	-	-	-	-	-	-	450
17 **	200	330	280	170	290	240	140	250	200	400	450	550	430	-	470	-	-	-	-	-	-	445
19 **	220	340	290	190	340	290	160	300	250	440	490	630	475	-	510	-	-	-	-	-	-	445

规格 Size	齿轮箱 Gear units													输出轴 Output		
	a	b	c	E	h	h5	H	m1	m2	m3	n1	n2	s	d2 ¹⁾	G2	l2
1	295	150	18	90	140	55	275	220	-	120	37	80	12	45	110	80
3	420	200	28	130	200	85	375	310	-	160	55	110	19	60	170	125
5	580	285	35	185	290	100	525	440	-	240	70	160	24	85	210	160
7	690	375	45	225	350	75	625	540	-	315	75	195	28	105	250	200
9	805	425	50	265	420	50	735	625	-	350	90	225	35	125	270	210
11	960	515	60	320	500	40	875	770	-	440	95	280	35	150	320	240
13	1100	580	70	370	580	40	1020	870	-	490	115	315	42	180	360	310
15	1295	545	80	442	600	10	1115	1025	-	450	135	370	48	220	360	350
17	1410	615	80	490	670	-	1235	1170	130	530	120	425	42	240	400	400
19	1590	690	90	555	760	-	1395	1290	150	590	150	465	48	270	440	450

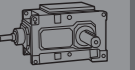
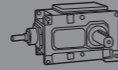
规格 Size	润滑油 Oil (L)	重量 Weight (kg)
1	2.5	55
3	7	128
5	22	302
7	42	547
9	68	862
11	120	1515
13	175	2395
15	190	3200
17	270	4250
19	390	5800

冷却盘管的冷却液接口
Water connection for cooling coil

1) 冷却盘管适用于淡水, 海水或有咸味的水。
Cooling coil suitable for fresh, sea or brackish water

2) x) 所需冷却水量。 Cooling water quantity required.

规格 Size	bx	ex	hx	sx	x) L/min
1	30	150	45	G1/4	4
3	48	205	74	G1/2	4
5	88	270	90	G1/2	4
7	124	310	135	G1/2	4
9	116	365	110	G1/2	8
11	146	425	130	G1/2	8
13	152	480	150	G1/2	8
15	172	560	130	G1/2	8
17	200	600	145	G1/2	8
19	敬请垂询 On request				



平行轴齿轮箱
Helical gear units

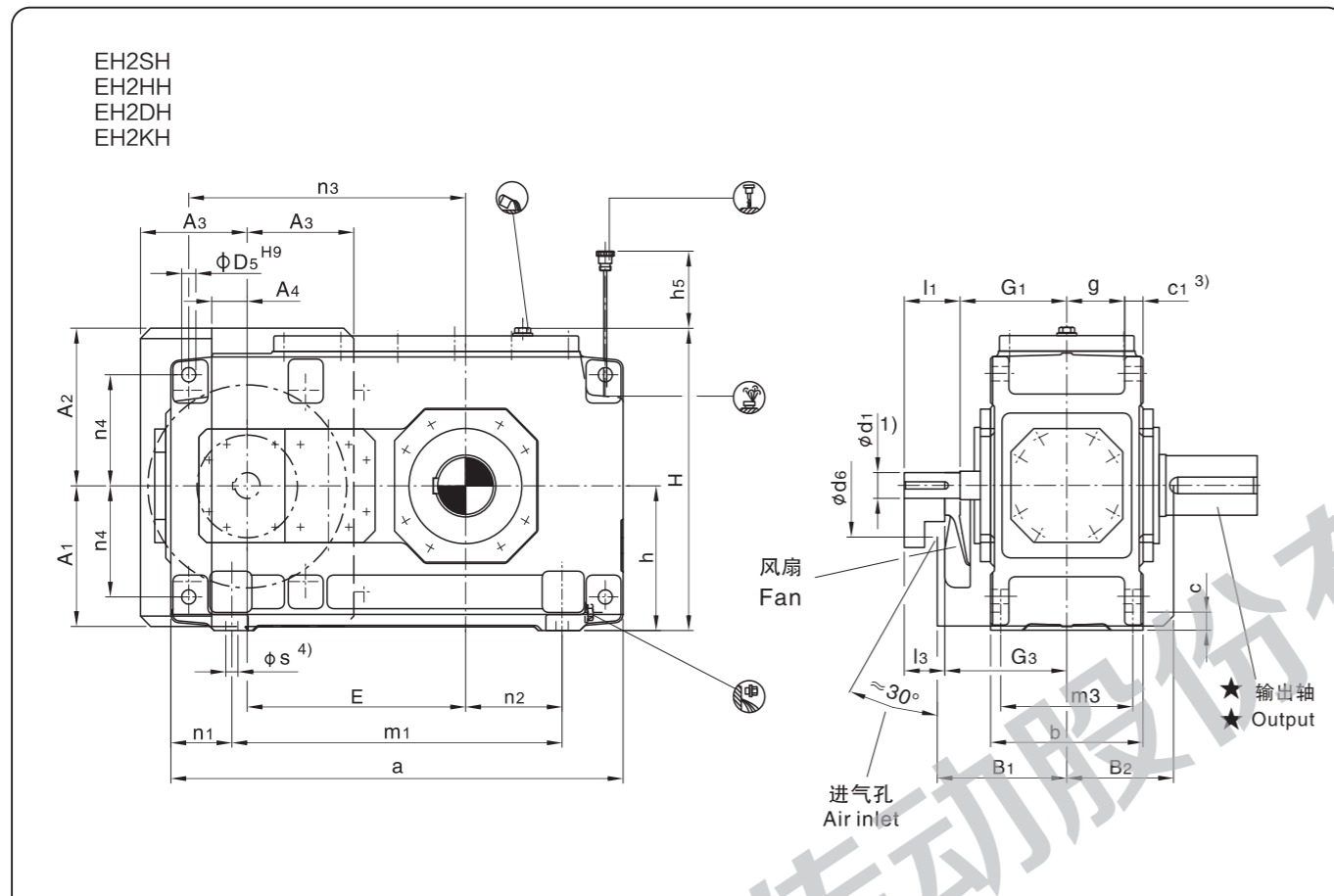
两级传动
Two Stage

卧式安装
Horizontal

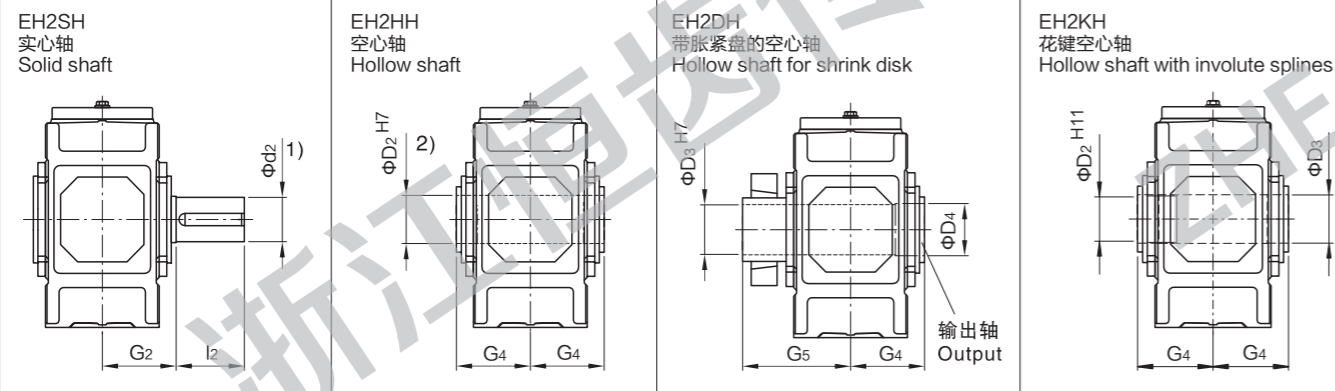
类型 TYPES EH2.H...
规格 SIZES 3...12



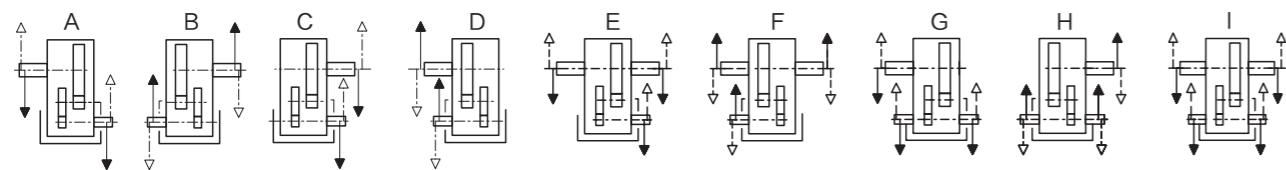
注: 尺寸 mm Note: Dimensions in mm



★ 输出轴 Output



布置形式 Design



1) $k6 \leq \phi 50$ $m6 > \phi 50$ 有关平键 GB/T1095-1979型和中心孔, 参见第321-322页。For parallel key GB/T1095-1979 and for center hole, see page 321-322.
2) 在安装基础螺栓前, 应拆下风扇罩。Remove air guide cover before fitting the foundation bolts.
3) 扭力支撑位于工作机侧。Torque support on driven machine side.

规格 Size	输入轴 Input								布置形式 Design G, H, I 仅用于 only for $i_N =$		冷却风扇 Fan						
	$i_N=6.3-11.2$			$i_N=12.5-22.4$			G_1	G_3			A_1	A_2	A_3	A_4	B_1	B_2	d_6
	$d_1^{1)}$	l_1	l_3	$d_1^{1)}$	l_1	l_3											
3	35	70	-	28	50	-	135	-	-	-	-	-	-	-	-	-	
4	45	100	80	32	80	60	170	190	6.3-18	-	195	225	150	30	205	158	136
5	+6	50	100	80	38	80	195	215	6.3-18	8-22.4	225	260	175	55	230	177.5	150
7	+8	60	135	105	50	110	210	240	6.3-16	8-20	272	305	210	70	255	210	200
9	+10	75	140	110	60	140	240	270	6.3-16	8-20	312	355	240	100	285	245	200
11+12	90	165	130	70	140	105	275	310	6.3-18	8-22.4	372	420	285	135	325	285	210

规格 Size	齿轮箱 Gear units									
	b	c	C_1	D_5	g	h	m_3	n_1	n_4	s
3	190	22	24 ± 1	18	71	175	160	80	132.5	15
4	215	28	30 ± 1	24	77.5	200	180	105	150	19
5+6	255	28	30 ± 1	24	97.5	230	220	105	180	19
7+8	300	35	36 ± 1	28	114	280	260	120	215	24
9+10	370	40	45 ± 1.5	36	140	320	320	145	245	28
11+12	430	50	54 ± 1.5	40	161	380	370	165	300	35

规格 Size	齿轮箱 Gear units							输出轴 Output								
	a	E	h_5	H	m_1	n_2	n_3	EH2SH		EH2HH		EH2DH		EH2KH		
								$d_2^{1)}$	G_2	l_2	$D_2^{2)}$	G_4	D_3	D_4	G_4	G_5
3	450	220	110	360	290	65	285	65	125	140	65	125	70	70	125	180
4	565	270	110	415	355	85	345	80	140	170	80	140	85	85	140	205
5	640	315	150	482	430	100	405	100	165	210	95	165	100	100	165	240
6	720	350	150	482	510	145	440	110	165	210	105	165	110	110	165	240
7	785	385	190	572	545	130	500	120	195	210	115	195	120	120	195	280
8	890	430	190	582	650	190	545	130	195	250	125	195	130	130	195	285
9	925	450	205	662	635	155	585	140	235	250	135	235	140	145	235	330
10	1025	500	215	662	735	205	635	160	235	300	150	235	150	155	235	350
11	1105	545	250	782	775	180	710	170	270	300	165	270	165	170	270	400
12	1260	615	250	790	930	265	780	180	270	300	180	270	180	185	270	405

见327-330页
See page 327-330

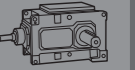
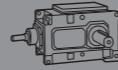
规格 Size	润滑油 Oil (L)	重量 Weight (kg)
3	6	115
4	10	190
5	15	300
6	16	355
7	27	505
8	30	590
9	42	830
10	45	960
11	71	1335
12	76	1615

冷却盘管 Cooling coil

规格 Size	b_x	e_x	h_x	s_x	$x)$ L/min
3	34	130	55	G1/2	4
4	34	155	60	G1/2	4
5	68	170	64	G1/2	4
6	70	215	68	G1/2	4
7	100	210	83	G1/2	4
8	100	270	83	G1/2	4
9	140	245	110	G1/2	8
10	100	295	95	G1/2	8
11	110	275	95	G1/2	8
12	200	360	109	G1/2	8

冷却盘管的冷却液接口
Water connection for cooling coil

1) 冷却盘管适用于淡水, 海水或有咸味的水。
Cooling coil suitable for fresh, sea or brackish water
2) x) 所需冷却水量。 Cooling water quantity required.



平行轴齿轮箱
Helical gear units

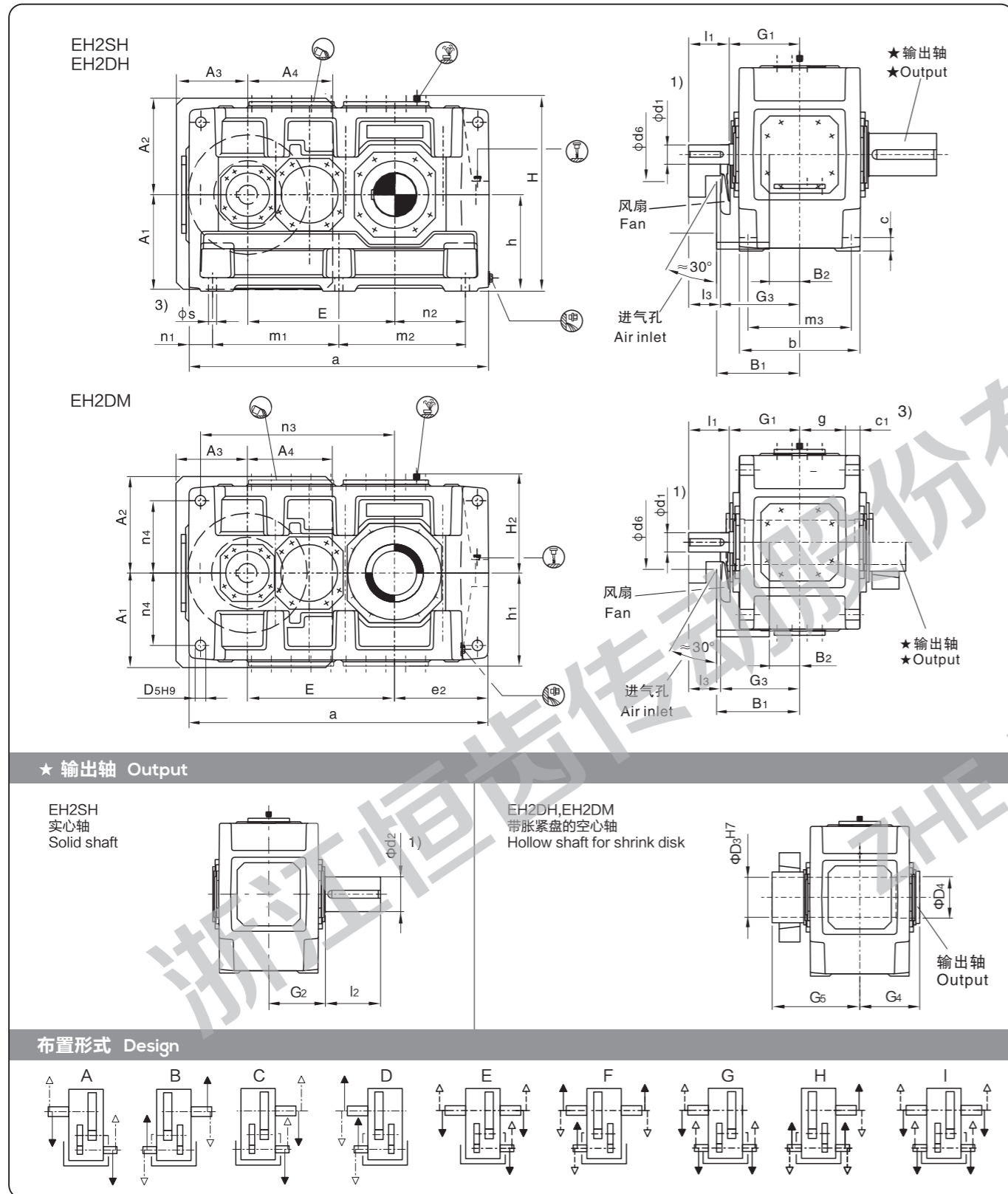
两级传动
Two Stage

卧式安装
Horizontal

类型 TYPES EH2.H...,EH2.M...
规格 SIZES 23...26



注: 尺寸 mm Note: Dimensions in mm



规格 Size	输入轴 Input						布置形式 Design G, H, I 仅用于 in=		冷却风扇 Fan						
	in=6.3-11.2			in=12.5-20			G ₁	G ₃	A ₁	A ₂	A ₃	A ₄	B ₁	B ₂	d ₆
	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃			770	770	550	550	630	220	450
23+24	190	330	280	150	250	200	560	610	敬请垂询 On request						
25+26	200	340	290	170	300	250	600	650	845	865	550	550	670	240	450

规格 Size	齿轮箱 Gear units													
	b	c	c ₁	D ₅	g	h	h ₁	h ₂	m ₃	n ₁	n ₄	s	H	m ₁
23+24	930	115	120±2	80	342	780	770	770	810	180	580	56	1550	1010
25+26	1045	130	120±2	90	400	860	860	860	910	200	660	66	1720	1090

规格 Size	齿轮箱 Gear units						输出轴 Output						
	a	e ₂	E	m ₂	n ₂	n ₃	EH2SH			EH2DH EH2DM			
	d ₂ ¹⁾	G ₂	l ₂	D ₃	D ₄	G ₄	G ₅	D ₃	D ₄	G ₄	G ₅		
23	2380	730	1185	1010	550	1560	360	540	590	360	365	540	785
24	2510	795	1250	1140	615	1625	380	540	590	380	385	540	805
25	2580	790	1325	1090	590	1685	400	605	650	400	405	605	875
26	2760	880	1415	1270	680	1775	420	605	650	430	435	605	900

规格 Size	润滑油 Oil (L)		重量 Weight (kg)	
	EH2.H	EH2.DM	EH2.H	EH2.DM
23	430	470	11600	11000
24	450	500	13000	12300
25	600	660	15500	14700
26	640	700	17200	16200

冷却盘管 Cooling coil

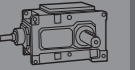
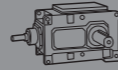
规格 Size	b _x	e _x	e _y	h _x	h _y	s _x	x ⁾ L/min
23	敬请垂询 On request						
24							
25							
26							

冷却盘管的冷却液接口 Water connection for cooling coil

1)冷却盘管适用于淡水, 海水或有咸味的水。
Cooling coil suitable for fresh, sea or brackish water

2)x)所需冷却水量。 Cooling water quantity required.

1)k6 ≤ φ50 m6 > φ50 有关平键 GB/T1095-1979型和中心孔, 参见第321-322页。 For parallel key GB/T1095-1979 and for center hole, see page 321-322.
2)在安装基础螺栓前, 应拆下风扇罩。 Remove air guide cover before fitting the foundation bolts.
3)扭力支撑位于工作机侧。 Torque support on driven machine side.



平行轴齿轮箱
Helical gear units

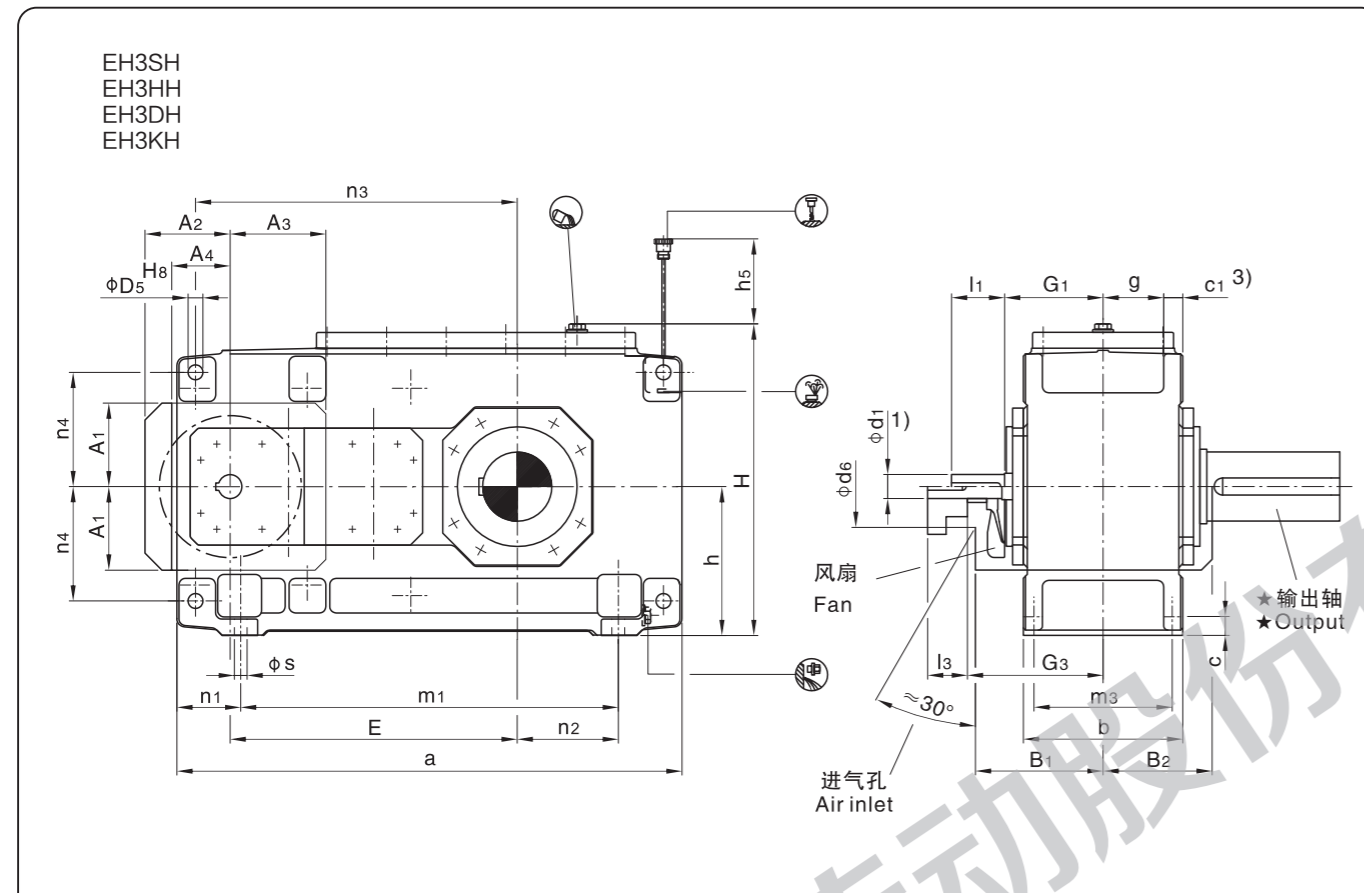
三级传动
Three Stage

卧式安装
Horizontal

类型 TYPES EH3.H...
规格 SIZES 5...12



注: 尺寸 mm Note: Dimensions in mm



规格 Size	输入轴 Input									布置形式 Design G, H, I 仅用于 only for in=		冷却风扇 Fan								
	in=25-45			in=50-63			in=71-90					A ₁	A ₂	A ₃	A ₄	B ₁	B ₂	d ₆		
	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃										G ₁	G ₃
5 +6	40	70	70	30	50	50	24	40	40	160	220	25-90	31.5-112	137	135	140	80	215	175	60
7 +8	45	80	80	35	60	60	28	50	50	185	250	25-90	31.5-112	157	160	180	100	245	205	75
9 +10	60	125	105	45	100	80	32	80	60	230	300	25-90	31.5-112	182	190	205	120	295	240	90
11 +12	70	120	120	50	80	80	42	70	70	255	330	25-90	31.5-112	218	220	255	150	325	280	100

规格 Size	齿轮箱 Gear units									
	b	c	c ₁	D ₅	g	h	m ₃	n ₁	n ₄	s
5+6	255	28	30 ± 1	24	97.5	230	220	105	180	19
7+8	300	35	36 ± 1	28	114	280	260	120	215	24
9+10	370	40	45 ± 1.5	36	140	320	320	145	245	28
11+12	430	50	54 ± 1.5	40	161	380	370	165	300	35

规格 Size	齿轮箱 Gear units							输出轴 Output								
	a	E	h ₅	H	m ₁	n ₂	n ₃	EH3SH		EH3HH		EH3DH		EH3KH		
	d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₃	D ₄	G ₄	G ₅							
5	690	405	130	482	480	100	455	100	165	210	95	165	100	100	165	240
6	770	440	130	482	560	145	490	110	165	210	105	165	110	110	165	240
7	845	495	170	572	605	130	560	120	195	210	115	195	120	120	195	280
8	950	540	160	582	710	190	605	130	195	250	125	195	130	130	195	285
9	1000	580	185	662	710	155	660	140	235	250	135	235	140	145	235	330
10	1100	630	185	662	810	205	710	160	235	300	150	235	150	155	235	350
11	1200	705	180	782	870	180	805	170	270	300	165	270	165	170	270	400
12	1355	775	170	790	1025	265	875	180	270	300	180	270	180	185	270	405

规格 Size	润滑油 Oil (L)	重量 Weight (kg)
5	15	320
6	17	365
7	28	540
8	30	625
9	45	875
10	46	1020
11	85	1400
12	90	1675

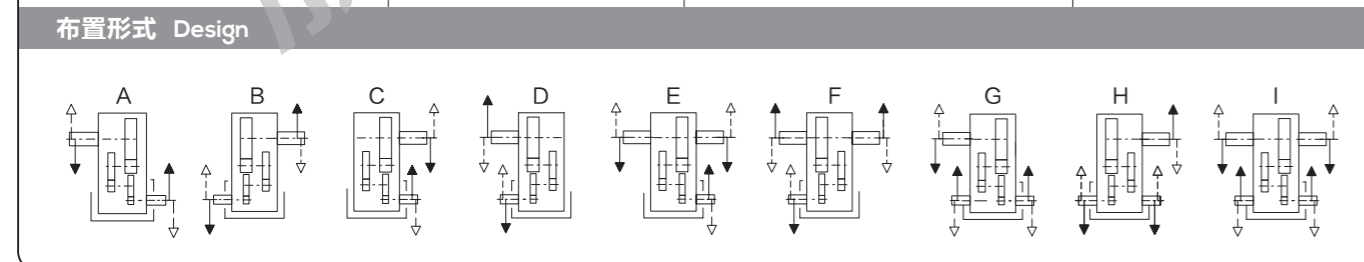
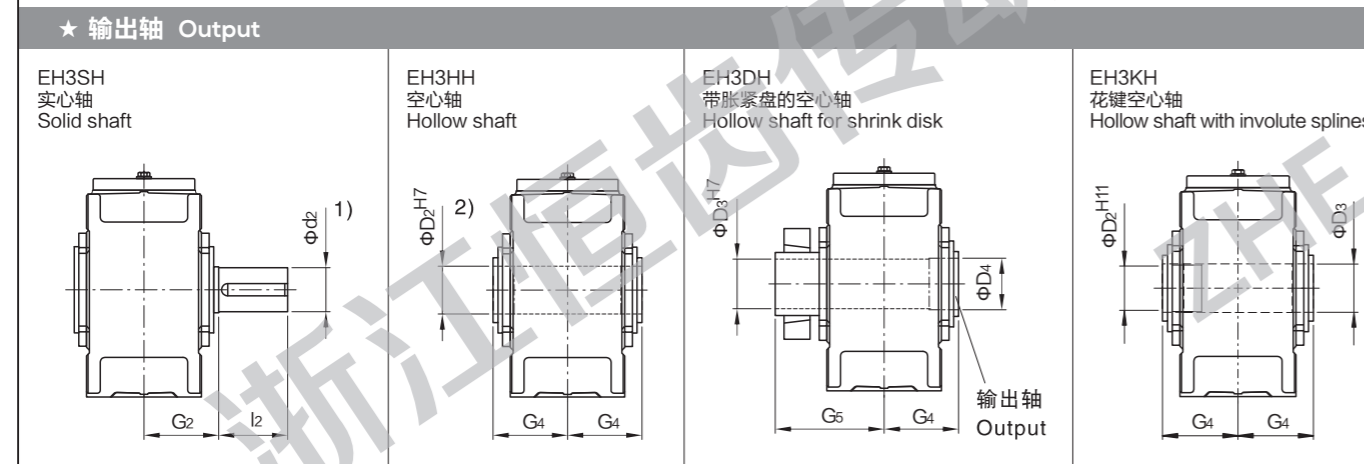
冷却盘管 Cooling coil

规格 Size	b _x	e _x	h _x	s _x	x) L/min
5	70	175	60	G1/2	4
6	70	220	69	G1/2	4
7	80	210	83	G1/2	4
8	80	270	83	G1/2	4
9	150	245	107	G1/2	4
10	90	295	95	G1/2	4
11	200	275	115	G1/2	8
12	200	360	115	G1/2	8

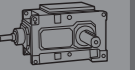
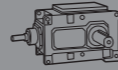
冷却盘管的冷却液接口
Water connection for cooling coil

1)冷却盘管适用于淡水, 海水或有咸味的水。
Cooling coil suitable for fresh, sea or brackish water

2)x)所需冷却水量。 Cooling water quantity required.



1)k6 ≤ φ50 m6 > φ50 有关平键 GB/T1095-1979型和中心孔, 参见第321-322页。 For parallel key GB/T1095-1979 and for center hole, see page 321-322.
2)在安装基础螺栓前, 应拆下风扇罩。 Remove air guide cover before fitting the foundation bolts.
3)扭力支撑位于工作机侧。 Torque support on driven machine side.



平行轴齿轮箱
Helical gear units

三级传动
Three Stage

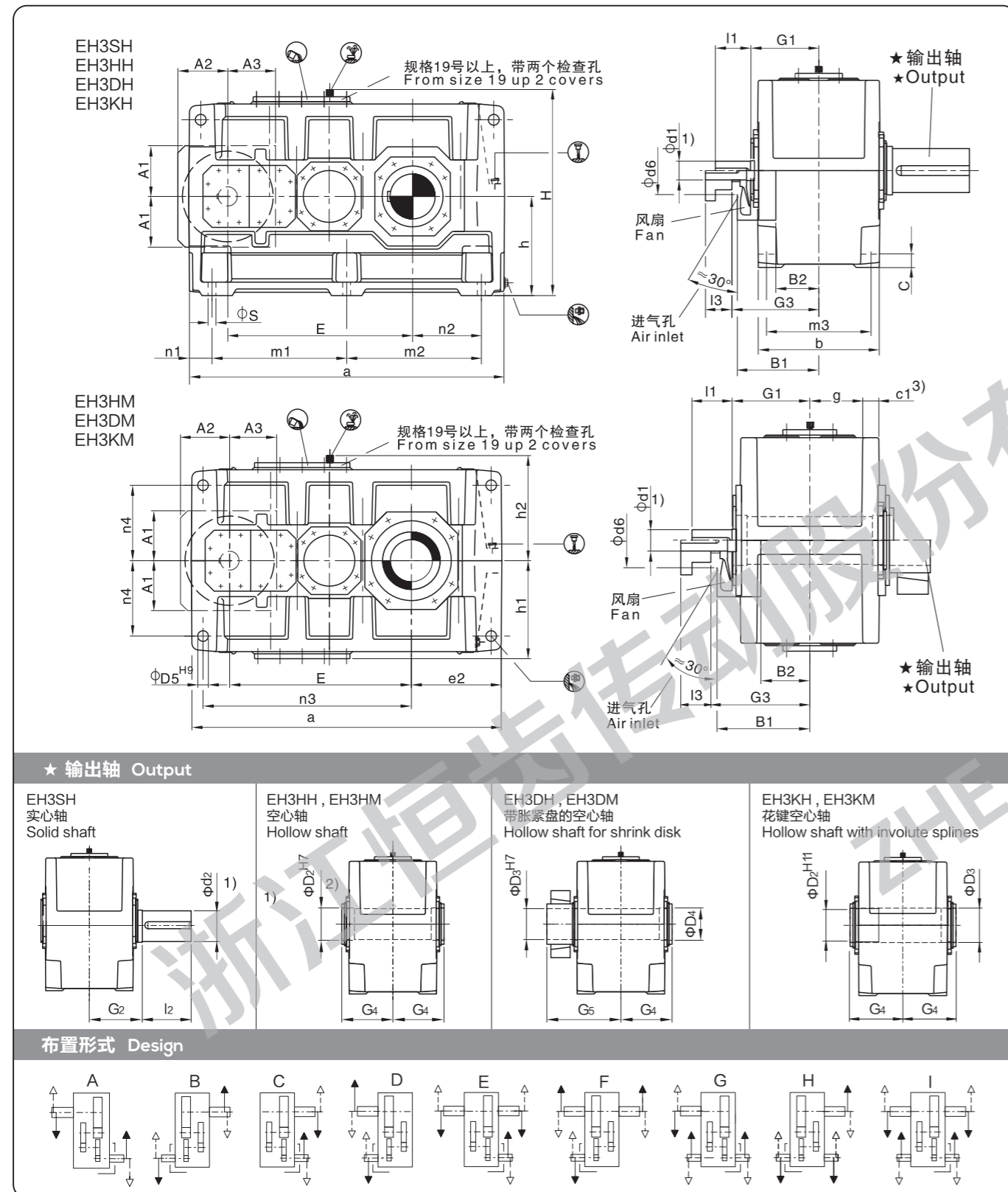
卧式安装
Horizontal

类型 TYPES EH3.H...,EH3.M...

规格 SIZES 13...22



注: 尺寸 mm Note: Dimensions in mm



规格 Size	输入轴 Input										布置形式 Design G, H, I 仅用于 only for in=		冷却风扇 Fan						
	in=22.4-45			in=50-63			in=71-90						A1	A2	A3	B1	B2	d6	
	in=25-50			in=56-71			in=80-100												
	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3	G1	G3	根据用户要求提供 On request							
13+14	85	160	130	60	135	105	50	110	80	310	385	22.4-90	28-112	225	225	212	380	195	120
15+16	100	200	165	75	140	105	60	140	105	350	420	22.4-90	25-100	270	265	252	415	205	150
17+18	100	200	165	75	140	105	60	140	105	380	450	22.4-90	25-100	270	265	252	445	235	150
19+20	110	200		90	165		75	140		430									
21+22	130	240		110	205		90	170		470									

规格 Size	齿轮箱 Gear units														
	b	c	c1	D5	g	h	h1	h2	m3	n1	n4	s	H	m1	
13+14	550	60	61 ± 2	48	211.5	440	450	460	475	100	340	35	900	597.5	
15+16	625	70	72 ± 2	55	238	500	490	500	535	120	375	42	1000	720	
17+18	690	80	81 ± 2	55	259	550	555	560	600	135	425	42	1110	750	
19+20	790	90	91 ± 2	65	299	620	615	620	690	155	475	48	1240	860	
21+22	830	100	100 ± 2	75	310	700	685	690	720	170	520	56	1390	1000	

规格 Size	输出轴 Output														
	齿轮箱 Gear units						EH3SH		EH3HH EH3HM		EH3DH EH3DM		EH3KH EH3KM		
	a	e2	E	m2	n2	n3	d2 ¹⁾	G2	l2	D2 ²⁾	G4	D3	D4	G4	G5
13	1395	405	820	597.5	305	940	200	335	350	190	335	190	195	335	480
14	1535	475	890	737.5	375	1010	210	335	350	210	335	210	215	335	480
15	1680	485	987	720	365	1135	230	380	410	230	380	230	235	380	550
16	1770	530	1033	810	410	1180	240	380	410	240	380	240	245	380	550
17	1770	525	1035	750	390	1175	250	415	410	250	415	250	260	415	600
18	1890	585	1095	870	450	1235	270	415	470	275	415	280	285	415	600
19	2030	590	1190	860	435	1365	290	465	470	-	-	285	295	465	670
20	2150	650	1250	980	495	1425	300	465	500	-	-	310	315	465	670
21	2340	655	1387	1000	485	1600	320	490	500	-	-	330	335	490	715
22	2450	710	1442	1110	540	1655	340	490	550	-	-	340	345	490	725

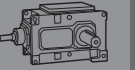
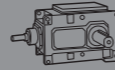
规格 Size	润滑油 Oil (L)		重量 Weight (kg)	
	EH3.H	EH3.M	EH3.H	EH3.M
13	160	125	2295	2155
14	165	130	2625	2490
15	235	190	3475	3260
16	245	195	3875	3625
17	305	240	4560	4250
18	315	250	5030	4740
19	420	390	6700	6200
20	450	415	8100	7600
21	470	515	9100	8500
22	490	540	9800	9300

规格 Size	冷却盘管 Cooling coil						
	b _x	e _x	e _y	h _x	h _y	s _x	x ¹⁾ L/min
13	252	460	335	116	300	G1/2	8
14	252	530	405	116	300	G1/2	8
15	290	540	395	119	335	G1/2	8
16	290	585	440	119	335	G1/2	8
17	300	580	425	134	380	G1/2	8
18	300	640	485	134	380	G1/2	8
19	敬请垂询 On request						
20							
21							
22							

冷却盘管的冷却液接口
Water connection for cooling coil

1) 冷却盘管适用于淡水, 海水或有咸味的水。
Cooling coil suitable for fresh, sea or brackish water

2) x) 所需冷却水量。 Cooling water quantity required.

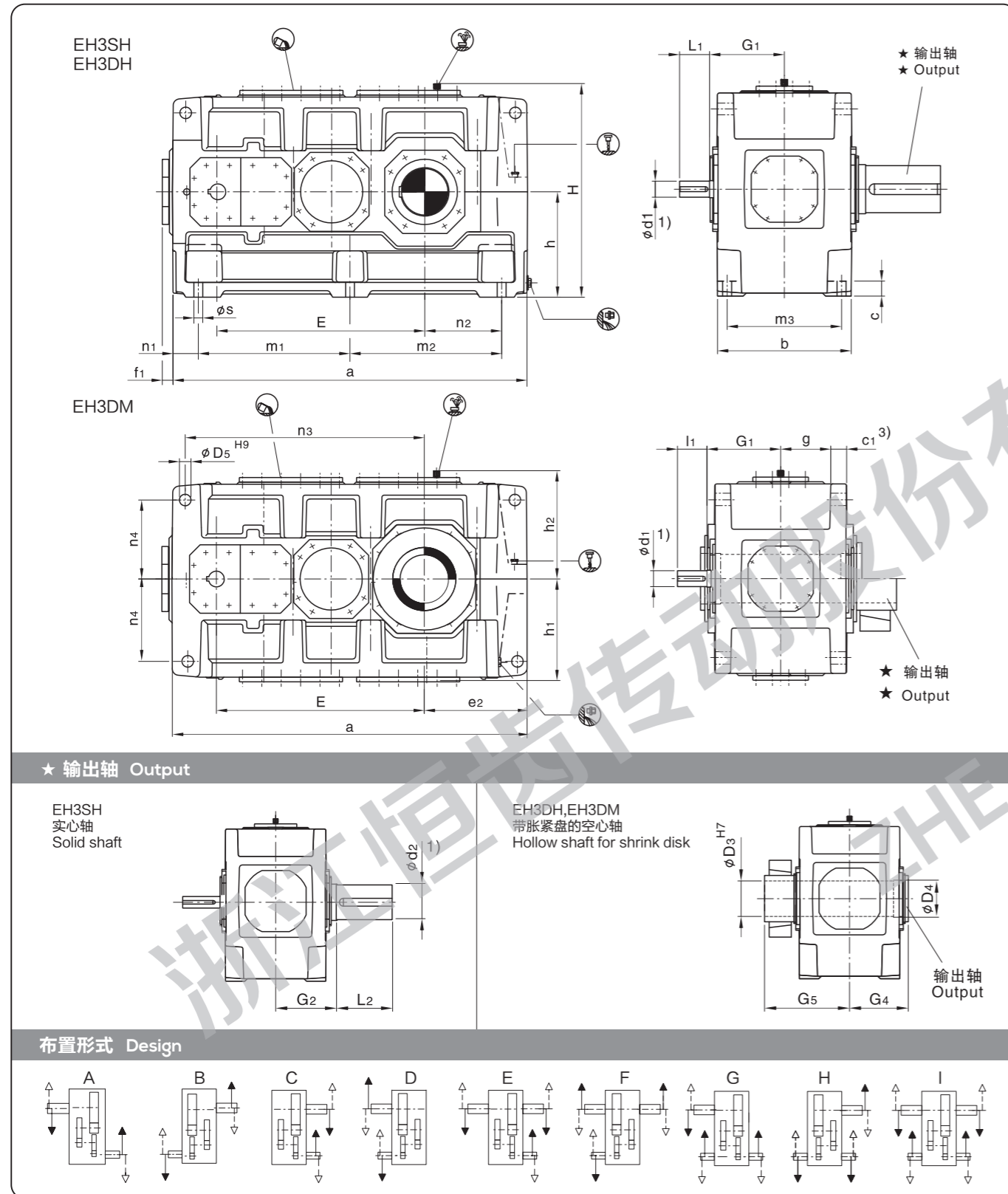


平行轴齿轮箱
Helical gear units

三级传动
Three Stage

卧式安装
Horizontal

类型 TYPES EH3.H...,EH3.M...
规格 SIZES 23...26



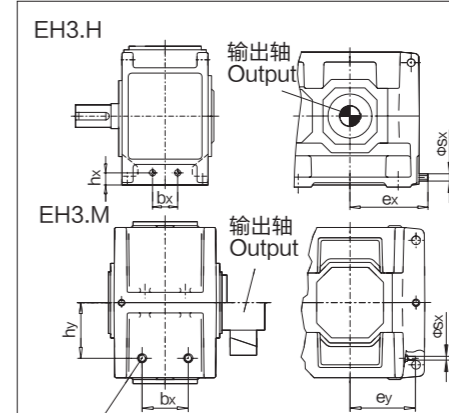
注：尺寸 mm Note: Dimensions in mm

规格 Size	输入轴 Input						布置形式 Design G, H, I 仅用于 in=
	in=22.4 - 45		in=50 - 63		in=71 - 90		
	in=25 - 50		in=56 - 71		in=80 - 100		
	$d_1^{1)}$	l_1	$d_1^{1)}$	l_1	$d_1^{1)}$	l_1	G_1
23 +24	130	240	110	205	90	170	510
25 +26	150	245	130	245	100	210	570

规格 Size	齿轮箱 Gear units														
	b	c	c_1	D_5	g	h	h_1	h_2	m_3	n_1	n_4	s	H	m_1	f_1
23+24	930	115	120 ± 2	80	342	780	770	790	810	180	580	56	1570	1085	35
25+26	1045	130	120 ± 2	90	400	860	860	860	910	200	660	66	1720	1215	65

规格 Size	齿轮箱 Gear units						输出轴 Output						
	a	e_2	E	m_2	n_2	n_3	EH3SH			EH3DH EH3DM			
							$d_2^{1)}$	G_2	l_2	D_3	D_4	G_4	G_5
23	2530	730	1505	1085	550	1725	360	540	590	360	365	540	785
24	2660	795	1570	1215	615	1790	380	540	590	380	385	540	805
25	2830	790	1659	1215	590	1965	400	605	650	400	405	605	875
26	3010	880	1785	1395	680	2055	420	605	650	430	435	605	900

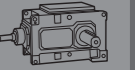
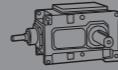
规格 Size	润滑油 Oil (L)		重量 Weight (kg)	
	EH3.H	EH3.DM	EH3.H	EH3.DM
23	620	690	11500	10600
24	650	725	13400	12500
25	880	970	16100	15200
26	935	1030	17600	16500



规格 Size	冷却盘管 Cooling coil						
	b_x	e_x	e_y	h_x	h_y	s_x	x) L/min
23	敬请垂询 On request						
24							
25							
26							

- 1)冷却盘管适用于淡水, 海水或有咸味的水。
Cooling coil suitable for fresh, sea or brackish water
- 2)x)所需冷却水量。 Cooling water quantity required.

1) $k_6 \leq \phi 50$ $m_6 > \phi 50$ 有关平键 GB/T1095-1979型和中心孔, 参见第321-322页。 For parallel key GB/T1095-1979 and for center hole, see page 321-322.
2)在安装基础螺栓前, 应拆下风扇罩。 Remove air guide cover before fitting the foundation bolts.



平行轴齿轮箱
Helical gear units

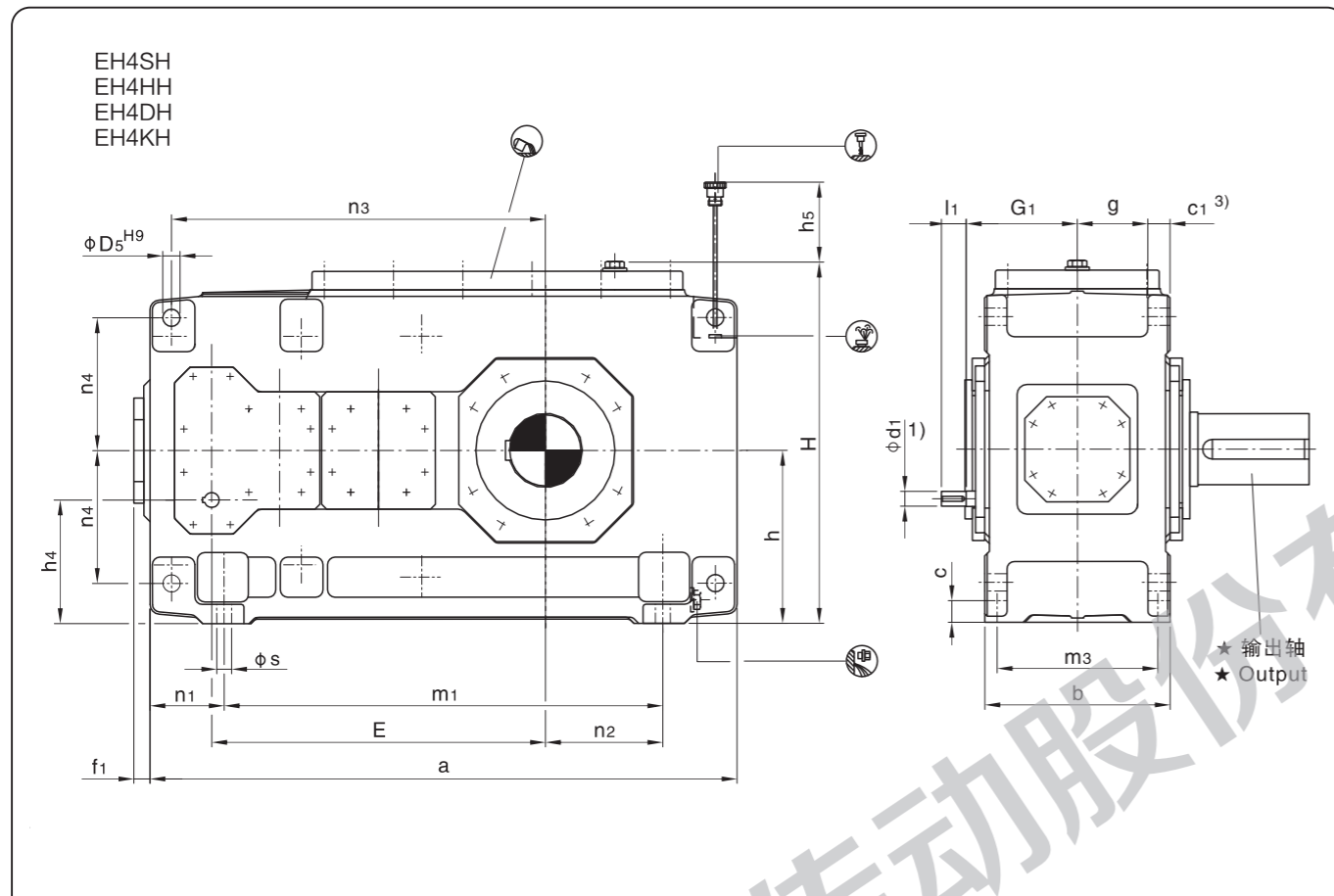
四级传动
Four Stage

卧式安装
Horizontal

类型 TYPES EH4.H...
规格 SIZES 7...12



注: 尺寸 mm Note: Dimensions in mm



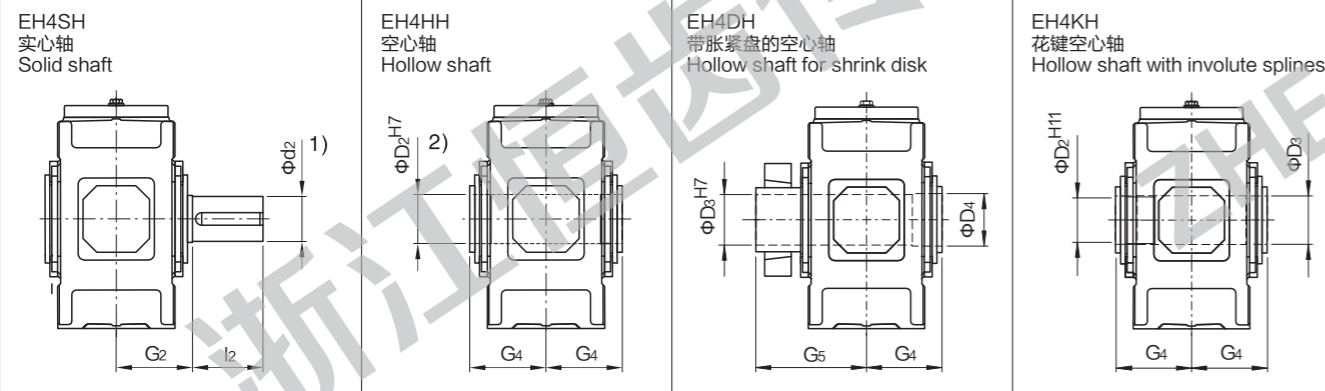
规格 Size	输入轴 Input				G ₁	布置形式 Design G, H, I 仅用于 only for in=	
	i _N =100 - 180		i _N =200 - 355			100-224	125-280
	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁			
7 +8	30	50	24	40	180	100-224	125-280
9 +10	35	70	28	50	215	100-250	125-315
11 +12	45	100	32	80	250	100-250	125-315

规格 Size	齿轮箱 Gear units											f ₁	h ₅
	b	c	c ₁	D ₅	g	h	h ₄	m ₃	n ₁	n ₄	s		
7+8	300	35	36 ± 1	28	114	280	200	260	120	215	24	37	140
9+10	370	40	45 ± 1.5	36	140	320	230	320	145	245	28	43	150
11+12	430	50	54 ± 1.5	40	161	380	270	370	165	300	35	47	165

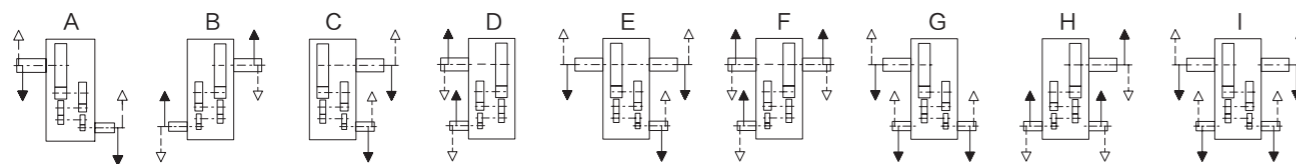
规格 Size	齿轮箱 Gear units						输出轴 Output								EH4KH
	a	E	H	m ₁	n ₂	n ₃	EH4SH d ₂ ¹⁾	EH4SH G ₂	EH4SH l ₂	EH4HH D ₂ ²⁾	EH4HH G ₄	EH4DH D ₃	EH4DH D ₄	EH4DH G ₄	
7	845	495	572	605	130	560	120	195	210	115	195	120	120	195	280
8	950	540	582	710	190	605	130	195	250	125	195	130	130	195	285
9	1000	580	662	710	155	660	140	235	250	135	235	140	145	235	330
10	1100	630	662	810	205	710	160	235	300	150	235	150	155	235	350
11	1200	705	782	870	180	805	170	270	300	165	270	165	170	270	400
12	1355	775	790	1025	265	875	180	270	300	180	270	180	185	270	405

规格 Size	润滑油 Oil (L)	重量 Weight (kg)
7	25	550
8	27	645
9	48	875
10	50	1010
11	80	1460
12	87	1725

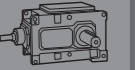
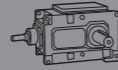
★ 输出轴 Output



布置形式 Design



1) k6 ≤ φ50 m6 > φ50 有关平键 GB/T1095-1979型和中心孔, 参见第321-322页。For parallel key GB/T1095-1979 and for center hole, see page 321-322.
2) 在安装基础螺栓前, 应拆下风扇罩。Remove air guide cover before fitting the foundation bolts.
3) 扭力支撑位于工作机侧。Torque support on driven machine side.



平行轴齿轮箱
Helical gear units

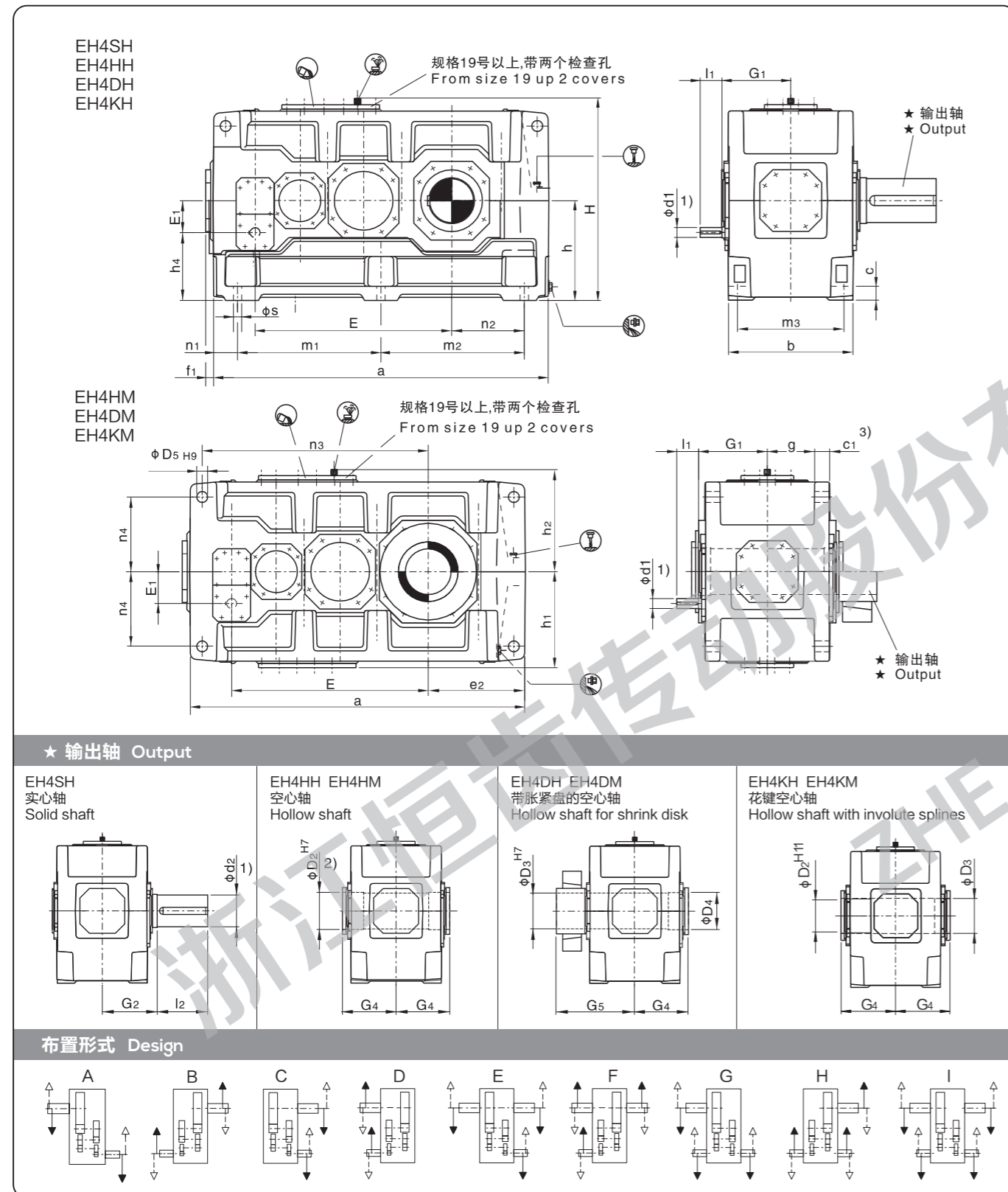
四级传动
Four Stage

卧式安装
Horizontal

类型 TYPES EH4.H...,EH4.M...
规格 SIZES 13...22



注: 尺寸 mm Note: Dimensions in mm



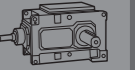
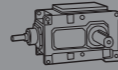
规格 Size	输入轴 Input					布置形式 Design G, H, I 仅用于 only for in=	
	in=100 - 180		in=200 - 355		G ₁		
	in=112 - 200		in=224 - 400				
	in=125 - 224		in=250 - 450				
	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁			
13 +14	50	100	38	80	305	100-250	125-315
15 +16	60	135	50	110	345	100-250	112-280
17 +18	60	105	50	80	380	-	-
19 +20	75	105	60	105	440	-	-
21 +22	90	165	70	140	460	-	-

规格 Size	齿轮箱 Gear units																
	b	c	c ₁	D ₅	g	h	h ₁	h ₂	h ₄	m ₃	n ₁	n ₄	s	H	m ₁	E ₁	f ₁
13+14	550	60	61±2	48	214	440	450	460	310	475	100	340	35	900	597.5	130	47
15+16	625	70	72±2	55	238	500	490	500	340	535	120	375	42	1000	720	160	56
17+18	690	80	81±2	55	259	550	555	560	390	600	135	425	42	1110	750	160	53
19+20	790	90	91±2	65	299	620	615	620	435	690	155	475	48	1240	860	185	53
21+22	830	100	100±2	75	310	700	685	690	475	720	170	520	56	1390	1000	225	62

规格 Size	输出轴 Output																
	齿轮箱 Gear units						EH4SH		EH4HH EH4HM		EH4DH EH4DM		EH4KH EH4KM				
	a	e ₂	E	m ₂	n ₂	n ₃	d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₃	D ₄	G ₄	G ₅		
13	1395	405	820	597.5	305	940	200	335	350	190	335	190	195	335	480		
14	1535	475	890	737.5	375	1010	210	335	350	210	335	210	215	335	480		
15	1680	485	987	720	365	1135	230	380	410	230	380	230	235	380	550		
16	1770	530	1033	810	410	1180	240	380	410	240	380	240	245	380	550		
17	1770	525	1035	750	390	1175	250	415	410	250	415	250	260	415	600		
18	1890	585	1095	870	450	1235	270	415	470	275	415	280	285	415	600		
19	2030	590	1190	860	435	1365	290	465	470	-	-	285	295	465	670		
20	2150	650	1250	980	495	1425	300	465	500	-	-	310	315	465	670		
21	2340	655	1387	1000	485	1600	320	490	500	-	-	330	335	490	715		
22	2450	710	1442	1110	540	1655	340	490	550	-	-	340	345	490	725		

规格 Size	润滑油 Oil (L)		重量 Weight (kg)	
	EH4.H	EH4.M	EH4.H	EH4.M
13	130	120	2390	2270
14	140	125	2730	2600
15	230	170	3635	3440
16	235	175	3965	3740
17	290	225	4680	4445
18	305	230	5185	4915
19	360	310	6800	6300
20	380	330	8200	7700
21	395	430	9200	8600
22	420	450	9900	9400

1) k6 ≤ φ50 m6 > φ50 有关平键 GB/T1095-1979型和中心孔, 参见第321-322页。For parallel key GB/T1095-1979 and for center hole, see page 321-322.
2) 在安装基础螺栓前, 应拆下风扇罩。Remove air guide cover before fitting the foundation bolts.
3) 扭力支撑位于工作机侧。Torque support on driven machine side.



平行轴齿轮箱
Helical gear units

四级传动
Four Stage

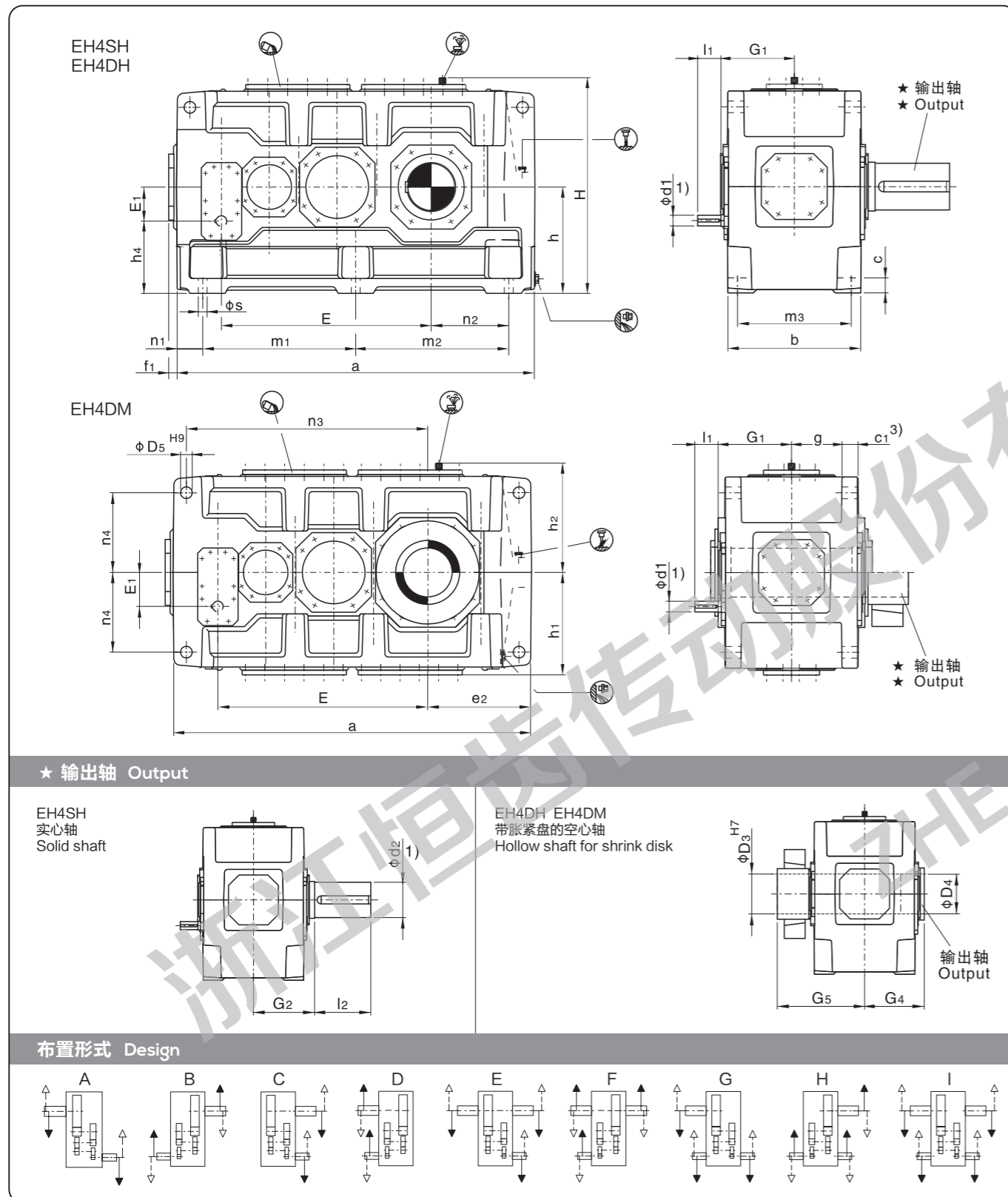
卧式安装
Horizontal

类型 TYPES EH4.H...,EH4.M...

规格 SIZES 23...26



注: 尺寸 mm Note: Dimensions in mm



规格 Size	输入轴 Input				
	in=100 - 160		in=180 - 355		
	in=112 - 180		in=200 - 400		
	d1 ¹⁾	l1	d1 ¹⁾	l1	G1
23 +24	90	165	70	140	505
25 +26	100	205	85	170	565

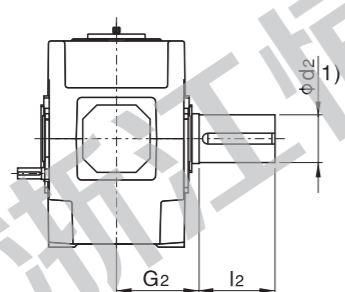
规格 Size	齿轮箱 Gear units																
	b	c	c1	D5	g	h	h1	h2	h4	m3	n1	n4	s	H	m1	f1	E1
23+24	930	115	120±2	80	342	780	770	790	555	810	180	580	56	1570	1085	35	225
25+26	1045	130	120±2	90	400	860	860	860	595	910	200	660	66	1720	1215	65	265

规格 Size	输出轴 Output												
	齿轮箱 Gear units						EH4SH			EH4DH EH4DM			
	a	e2	E	m2	n2	n3	d2 ¹⁾	G2	l2	D3	D4	G4	G5
23	2530	730	1505	1085	550	1725	360	540	590	360	365	540	785
24	2660	795	1570	1215	615	1790	380	540	590	380	385	540	805
25	2830	790	1659	1215	590	1965	400	605	650	400	405	605	875
26	3010	880	1785	1395	680	2055	420	605	650	430	435	605	900

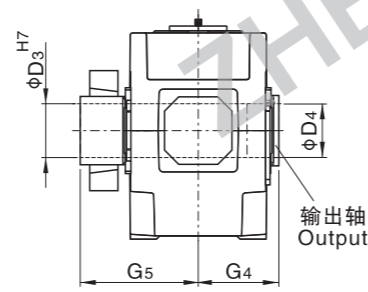
规格 Size	润滑油 Oil (L)		重量 Weight (kg)	
	EH4.H	EH4.DM	EH4.H	EH4.DM
23	520	500	11600	10700
24	550	600	13500	12600
25	735	800	16100	15200
26	780	850	17600	16500

★ 输出轴 Output

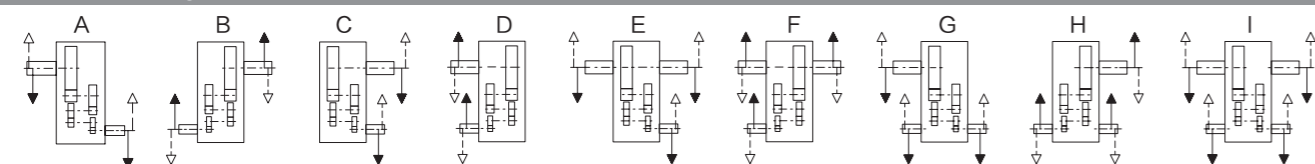
EH4SH
实心轴
Solid shaft



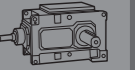
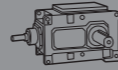
EH4DH EH4DM
带胀紧盘的空心轴
Hollow shaft for shrink disk



布置形式 Design



1) k6 ≤ φ50 m6 > φ50 有关平键 GB/T1095-1979型和中心孔, 参见第321-322页。For parallel key GB/T1095-1979 and for center hole, see page 321-322.
2) 在安装基础螺栓前, 应拆下风扇罩。Remove air guide cover before fitting the foundation bolts.
3) 扭力支撑位于工作机侧。Torque support on driven machine side.

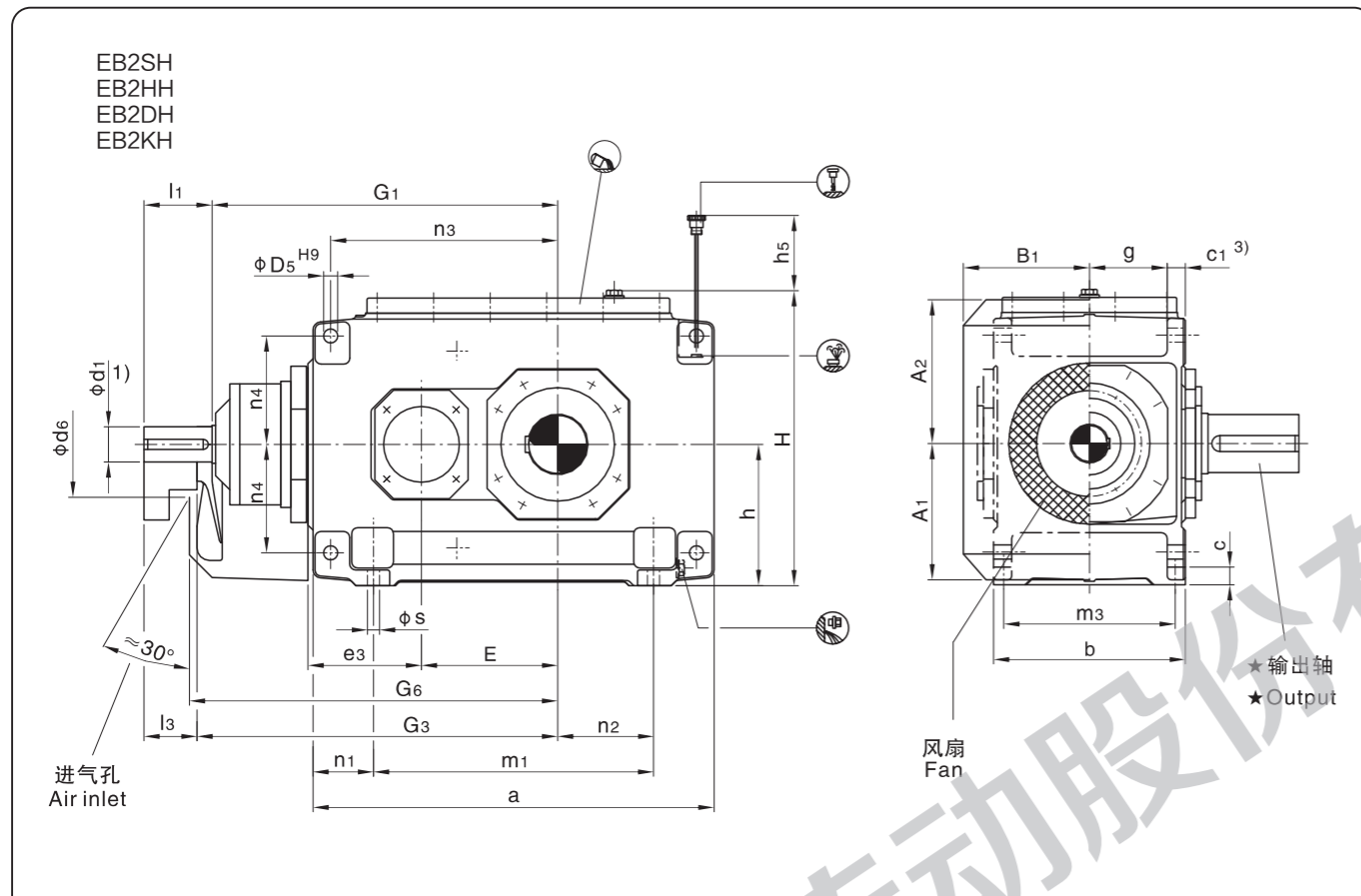


直交轴齿轮箱
Bevel-helical gear units

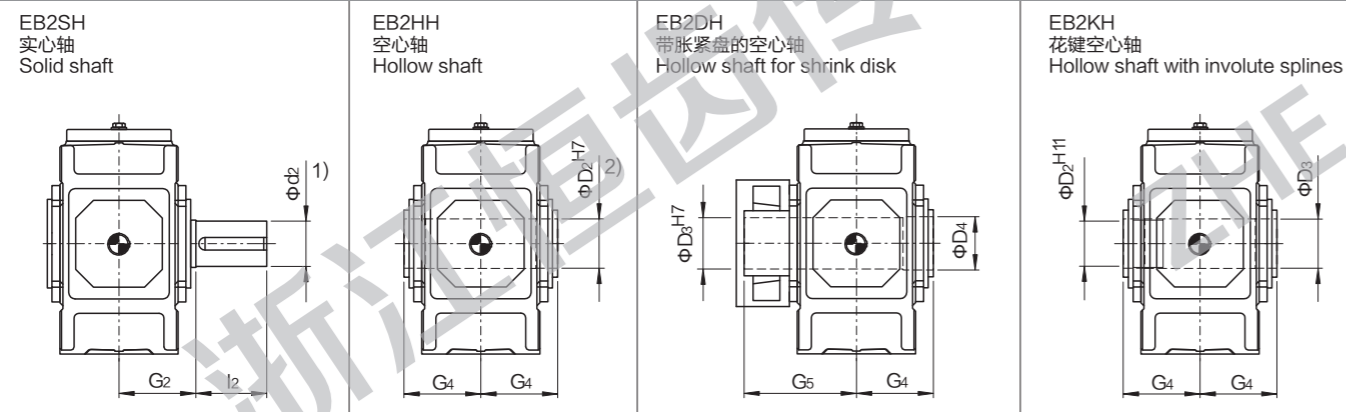
二级传动
Two Stage

卧式安装
Horizontal

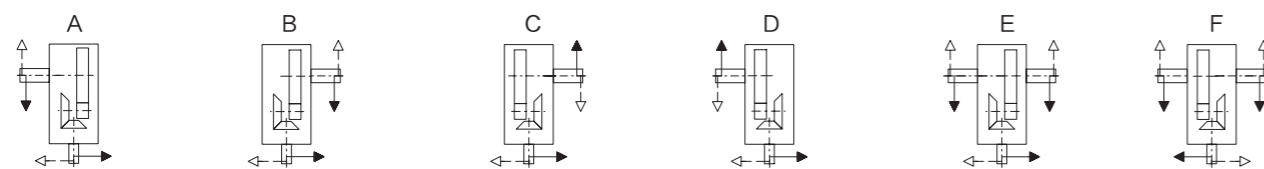
类型 TYPES EB2.H...
规格 SIZES 1..12



★ 输出轴 Output



布置形式 Design



1) $k6 \leq \phi 50$ $m6 > \phi 50$ 有关平键 GB/T1095-1979型和中心孔, 参见第321-322页。For parallel key GB/T1095-1979 and for center hole, see page 321-322.
2) 在安装基础螺栓前, 应拆下风扇罩。Remove air guide cover before fitting the foundation bolts.
3) 扭力支撑位于工作机侧。Torque support on driven machine side.



注: 尺寸 mm Note: Dimensions in mm

规格 Size	输入轴 Input								冷却风扇 Fan							
	in=5-11.2			in=12.5-18					G ₁	G ₃	G ₁	G ₃	A ₁	A ₂	B ₁	d ₆
	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃	G ₁	G ₃								
1	28	55	40	20	50	35	300	315			125	130	128	110		
2	30	70	50	25	60	40	340	360			140	140	143	110		
3	35	80	60	28	60	40	390	410			170	170	163	120		
4	45	100	80				465	485	-	-	195	200	188	150		
5	+6	55	110	80			535	565	570	600	220	235	215	160		
7	+8	70	135	105			640	670	685	715	270	285	250	210		
9	+10	80	165	130			755	790	805	840	310	325	270	195		
11+12	90	165	130				925	960	995	1030	370	385	328	210		

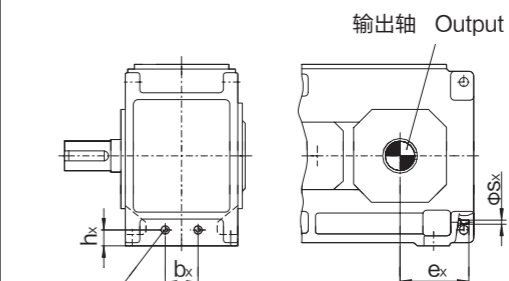
规格 Size	齿轮箱 Gear units												
	b	c	c ₁	D ₅	e ₃	g	h	H	m ₃	n ₁	n ₄	s	
1	180	18	16±1	12	90	74	130	275	155	60	105	12	
2	205	18	20±1	14	110	82.5	145	305	180	65	115	12	
3	225	22	24±1	18	130	88.5	175	360	195	80	132.5	15	
4	270	28	30±1	24	160	105	200	415	235	105	150	19	
5+6	320	28	30±1	24	185	130	230	482	285	105	180	19	
7+8	380	35	36±1	28	225	154	280	582	340	120	215	24	
9+10	440	40	45±1.5	36	265	172	320	662	390	145	245	28	
11+12	530	50	54±1.5	40	320	211	380	790	470	165	300	35	

规格 Size	齿轮箱 Gear units							输出轴 Output								
	a	E	h ₅	G ₆	m ₁	n ₂	n ₃	EB2SH		EB2HH		EB2DH		EB2KH		
	d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₃	D ₄	G ₄	G ₅							
1	305	90	80	325	185	70	160	45	120	80	-	-	-	-	-	
2	355	110	80	370	225	75	195	55	135	110	55	135	60	60	135	180
3	405	130	90	420	245	70	235	65	145	140	65	145	70	70	145	200
4	505	160	80	495	295	85	285	80	170	170	80	170	85	85	170	235
5	565	185	150	575	355	100	330	100	200	210	95	200	100	100	200	275
6	645	220	150	610	435	145	365	110	200	210	105	200	110	110	200	275
7	690	225	180	685	450	130	405	120	235	210	115	235	120	120	235	320
8	795	270	190	730	555	190	450	130	235	250	125	235	130	130	235	325
9	820	265	205	805	530	155	480	140	270	250	135	270	140	145	270	365
10	920	315	215	855	630	205	530	160	270	300	150	270	150	155	270	385
11	975	320	240	980	645	180	580	170	320	300	165	320	165	170	320	450
12	1130	390	250	1050	800	265	650	180	320	300	180	320	180	185	320	455

见327-330页
See page
327-330

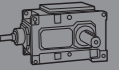
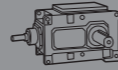
规格 Size	润滑油 Oil (L)	重量 Weight (kg)
1	2	65
2	4	90
3	6	140
4	10	235
5	16	360
6	19	410
7	31	615
8	34	700
9	48	1000
10	50	1155
11	80	1640
12	95	1910

规格 Size	冷却盘管 Cooling coil				
	b _x	e _x	h _x	s _x	x) L/min
1	64	125	40	G1/4	4
2	78	130	40	G1/4	4
3	58	140	52	G1/2	4
4	74	160	54	G1/2	4
5	130	175	62	G1/2	8
6	120	220	68	G1/2	8
7	140	210	80	G1/2	8
8	140	270	80	G1/2	8
9	232	245	110	G1/2	8
10	150	295	90	G1/2	8
11	312	275	115	G1/2	8
12	300	360	115	G1/2	8



冷却盘管的冷却液接口
Water connection for
cooling coil

1) 冷却盘管适用于淡水, 海水或有咸味的水。
Cooling coil suitable for fresh, sea or brackish water.
2) x) 所需冷却水量。 Cooling water quantity required.



直交轴齿轮箱
Bevel-helical gear units

二级传动
Two Stage

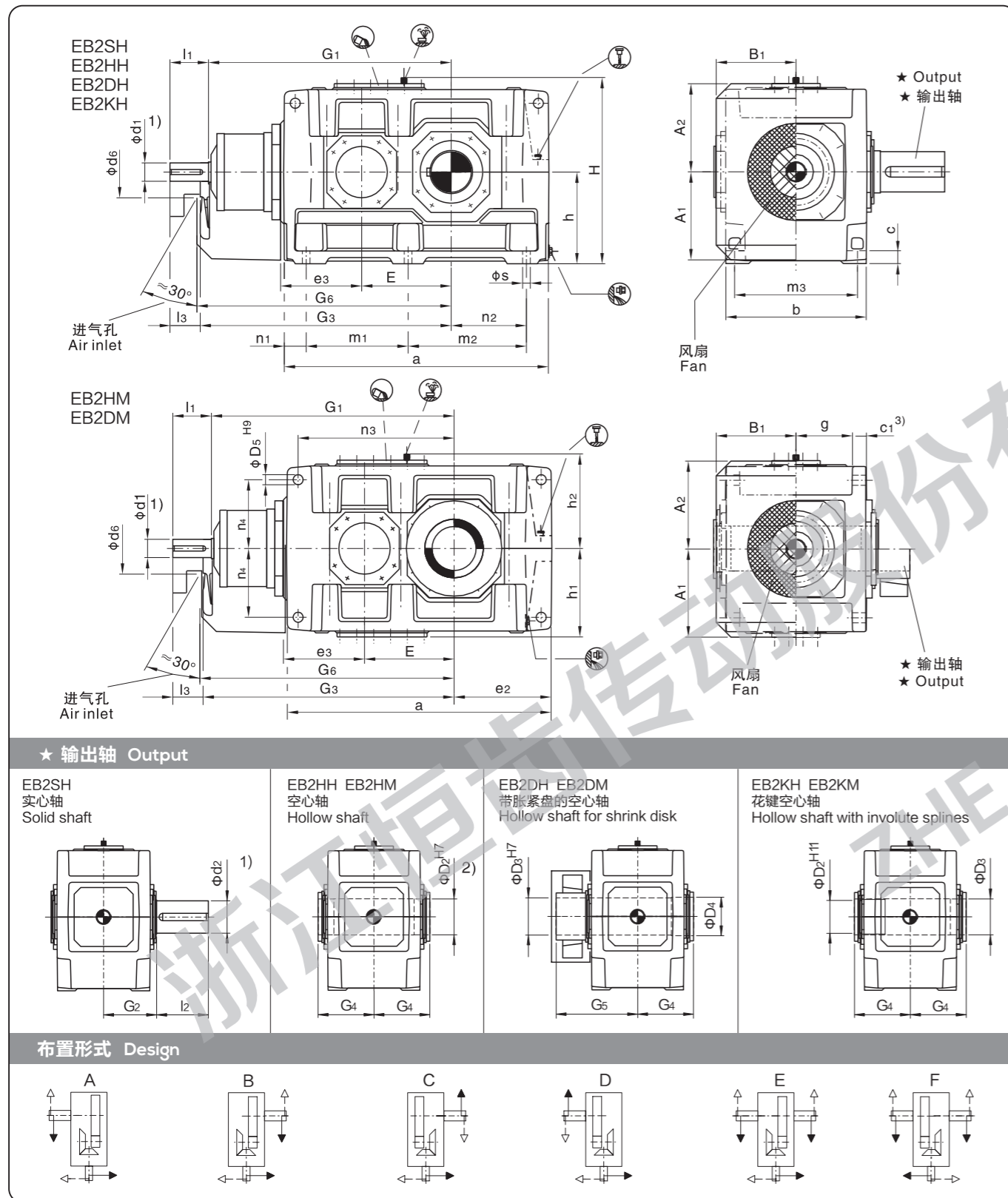
卧式安装
Horizontal

类型 TYPES EB2.H...,EB2.M...

规格 SIZES 13...18



注: 尺寸 mm Note: Dimensions in mm

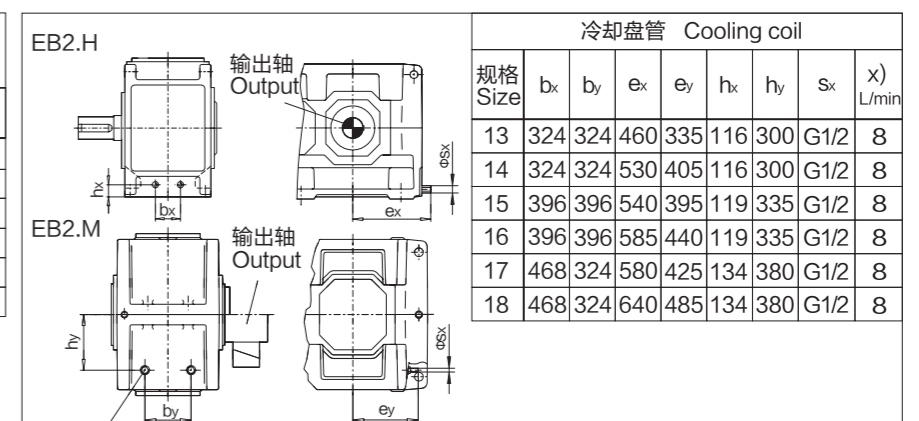


规格 Size	输入轴 Input						冷却风扇 Fan							
	in=5-11.2			in=5.6-11.2			G ₁	G ₃	G ₁	G ₃	A ₁	A ₂	B ₁	d ₆
	in=6.3-14			in=5.6-12.5										
	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃								
13 +14	110	205	165				1070	1110	1140	1180	430	450	375	245
15	130	245	200				1277	1322	-	-	490	495	435	280
16				130	245	200	-	-	1323	1368	490	495	435	280
17				150	245	200	1435	1480	-	-	540	555	505	380
18	150	245	200				1495	1540	-	-	540	555	505	380

规格 Size	齿轮箱 Gear units															
	b	c	c ₁	D ₅	g	h	h ₁	h ₂	m ₃	n ₁	n ₄	s	H	m ₁	e ₃	
13+14	655	60	61±2	48	264	440	450	460	580	100	340	35	900	465	380	
15+16	765	70	72±2	55	308	500	490	500	670	120	375	42	1000	555	450	
17+18	885	80	81±2	65	356	550	555	560	780	135	420	48	1110	610	510	

规格 Size	齿轮箱 Gear units							输出轴 Output								
								EB2SH		EB2HH EB2HM		EB2DH EB2DM		EB2KH EB2KM		
	a	e ₂	E	G ₆	m ₂	n ₂	n ₃	d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₃	D ₄	G ₄	G ₅
13	1130	405	370	1130	465	305	675	200	390	350	-	-	-	-	-	-
14	1270	475	440	1200	605	375	745	210	390	350	210	390	210	215	390	535
15	1350	485	442	1340	555	365	805	230	460	410	-	-	-	-	-	-
16	1440	530	488	1385	645	410	850	240	460	410	240	450	240	245	450	620
17	1490	525	490	1500	610	390	895	250	540	410	-	-	-	-	-	-
18	1610	585	550	1560	730	450	955	270	540	470	275	510	280	285	510	700

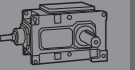
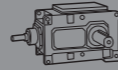
规格 Size	润滑油 Oil (L)		重量 Weight (kg)	
	EB2.H	EB2.M	EB2.H	EB2.M
13	140	120	2450	2350
14	155	130	2825	2725
15	220	180	3990	3795
16	230	190	4345	4160
17	320	260	5620	5320
18	335	275	6150	5860



冷却盘管的冷却液接口
Water connection for cooling coil

- 1)冷却盘管适用于淡水, 海水或有咸味的水。
Cooling coil suitable for fresh, sea or brackish water.
- 2)x)所需冷却水量。 Cooling water quantity required.

1)k6 ≤ φ50 m6 > φ50 有关平键 GB/T1095-1979型和中心孔, 参见第321-322页。 For parallel key GB/T1095-1979 and for center hole, see page 321-322.
2)在安装基础螺栓前, 应拆下风扇罩。 Remove air guide cover before fitting the foundation bolts.
3)扭力支撑位于工作机侧。 Torque support on driven machine side.



直交轴齿轮箱
Bevel-helical gear units

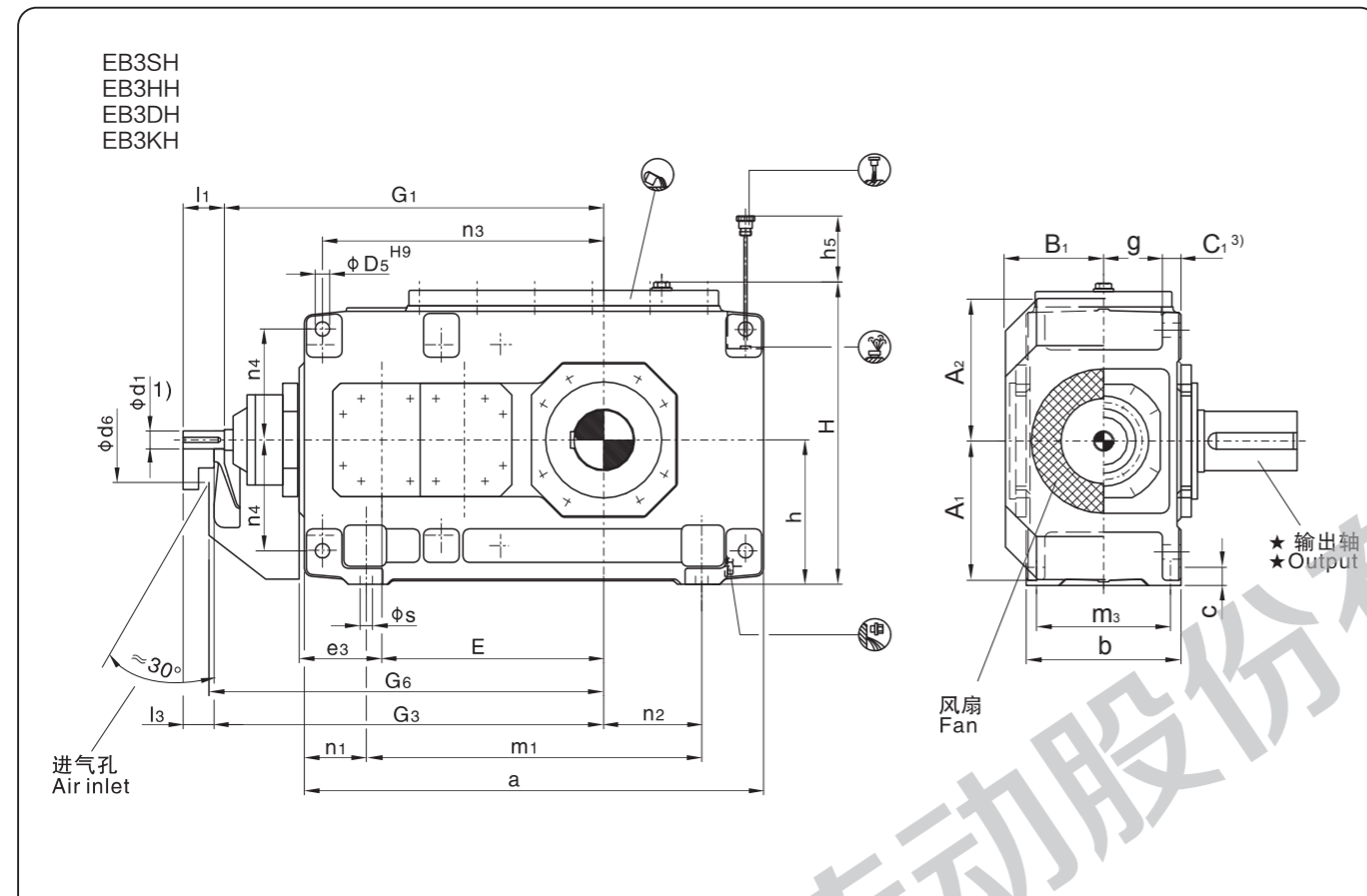
三级传动
Three Stage

卧式安装
Horizontal

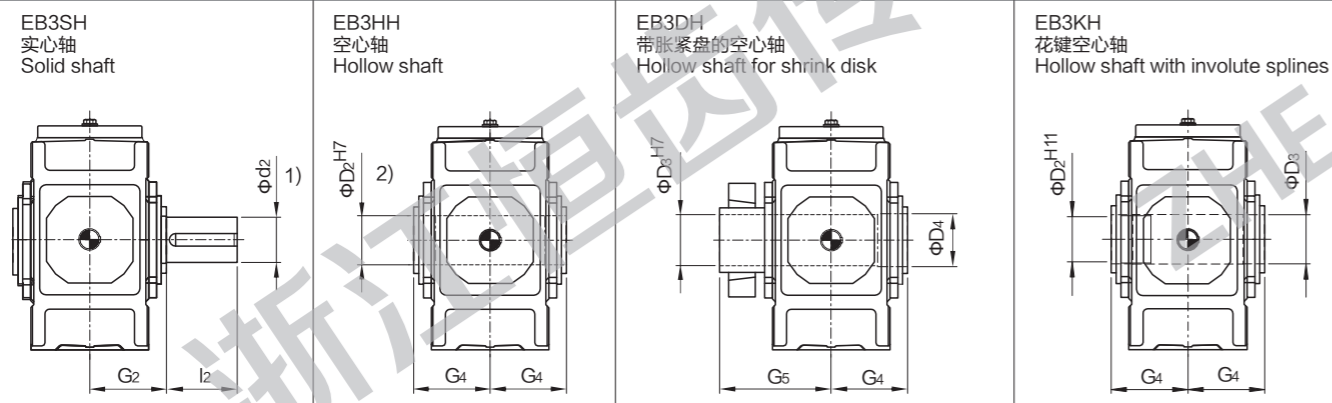
类型 TYPES EB3.H...
规格 SIZES 3...12



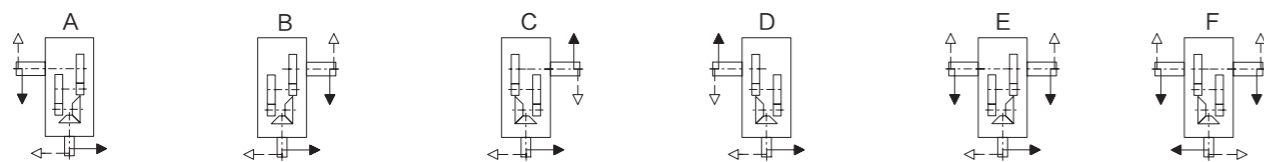
注: 尺寸 mm Note: Dimensions in mm



★ 输出轴 Output



布置形式 Design



1) $k6 \leq \phi 50$ $m6 > \phi 50$ 有关平键 GB/T1095-1979型和中心孔, 参见第321-322页。For parallel key GB/T1095-1979 and for center hole, see page 321-322.
2) 在安装基础螺栓前, 应拆下风扇罩。Remove air guide cover before fitting the foundation bolts.
3) 扭力支撑位于工作机侧。Torque support on driven machine side.

规格 Size	输入轴 Input									冷却风扇 Fan							
	$i_n=12.5-45$			$i_n=20-45$			$i_n=50-71$										
	$d_1^{1)}$	l_1	l_3	$d_1^{1)}$	l_1	l_3	$d_1^{1)}$	l_1	l_3					G_1	G_3	G_1	G_3
3				28	55	40	20	50	35	430	445			170	170	128	90
4	30	70	50				25	60	40	500	520			195	200	143	110
5	+6	35	80	60			28	60	40	575	595	610	630	220	235	168	130
7	+8	45	100	80			35	80	60	690	710	735	755	275	275	193	165
9	+10	55	110	80			40	100	70	800	830	850	880	315	325	231	175
11+12	70	135	105				50	110	80	960	990	1030	1060	370	385	263	190

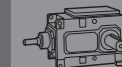
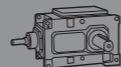
规格 Size	齿轮箱 Gear units										
	b	c	c_1	D_5	g	h	m_3	n_1	n_4	s	e_3
3	190	22	24 ± 1	18	71	175	160	80	132.5	15	90
4	215	28	30 ± 1	24	77.5	200	180	105	150	19	110
5+6	255	28	30 ± 1	24	97.5	230	220	105	180	19	130
7+8	300	35	36 ± 1	28	114	280	260	120	215	24	160
9+10	370	40	45 ± 1.5	36	140	320	320	145	245	28	185
11+12	430	50	54 ± 1.5	40	161	380	370	165	300	35	225

规格 Size	齿轮箱 Gear units									输出轴 Output							
	a	E	G_6	h_5	H	m_1	n_2	n_3	$d_2^{1)}$	G_2	l_2	$D_2^{2)}$	G_4	D_3	D_4	G_4	G_5
3	450	220	455	100	360	290	65	285	65	125	140	65	125	70	70	125	180
4	565	270	530	100	415	355	85	345	80	140	170	80	140	85	85	140	205
5	640	315	610	130	482	430	100	405	100	165	210	95	165	100	100	165	240
6	720	350	640	130	482	510	145	440	110	165	210	105	165	110	110	165	240
7	785	385	720	170	572	545	130	500	120	195	210	115	195	120	120	195	280
8	890	430	765	160	582	650	190	545	130	195	250	125	195	130	130	195	285
9	925	450	845	175	662	635	155	585	140	235	250	135	235	140	145	235	330
10	1025	500	895	175	662	735	205	635	160	235	300	150	235	150	155	235	350
11	1105	545	1010	220	795	775	180	710	170	270	300	165	270	165	170	270	400
12	1260	615	1080	210	795	930	265	780	180	270	300	180	270	180	185	270	405

规格 Size	润滑油 Oil (L)	重量 Weight (kg)
3	6	130
4	9	210
5	14	325
6	15	380
7	25	550
8	28	635
9	40	890
10	42	1020
11	66	1455
12	72	1730

规格 Size	冷却盘管 Cooling coil				
	b_x	e_x	h_x	s_x	$x)$ L/min
3	34	130	55	G1/2	4
4	34	155	60	G1/2	4
5	68	170	64	G1/2	4
6	70	215	68	G1/2	4
7	100	210	83	G1/2	4
8	100	270	83	G1/2	4
9	140	245	110	G1/2	8
10	100	295	95	G1/2	8
11	110	275	95	G1/2	8
12	200	360	109	G1/2	8

1) 冷却盘管适用于淡水, 海水或有咸味的水。
Cooling coil suitable for fresh, sea or brackish water.
2) x) 所需冷却水量。Cooling water quantity required.



直交轴齿轮箱
Bevel-helical gear units

三级传动
Three Stage

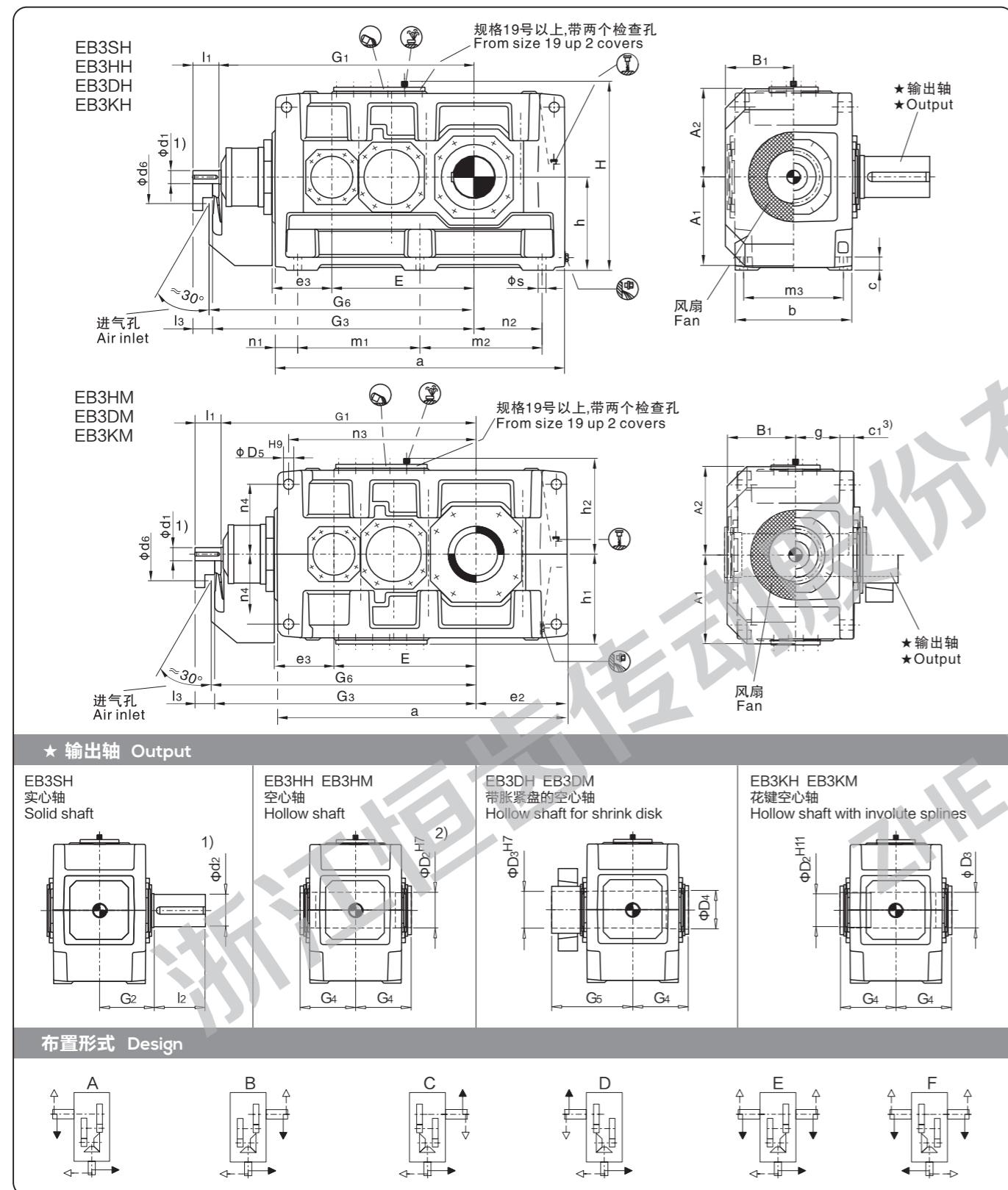
卧式安装
Horizontal

类型 TYPES EB3.H..., EB3.M...

规格 SIZES 13...22



注: 尺寸 mm Note: Dimensions in mm

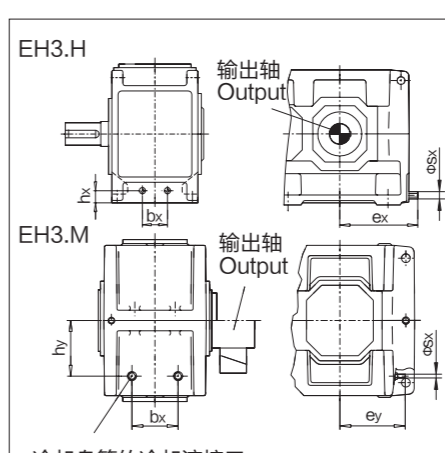


规格 Size	输入轴 Input										冷却风扇 Fan			
	i _N =12.5-45					i _N =50-71					A ₁	A ₂	B ₁	d ₆
	i _N =14-50					i _N =56-80								
	i _N =16-56					i _N =63-90								
d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃	G ₁	G ₃	G ₁	G ₃					
13+14	80	165	130	60	140	105	1125	1160	1195	1230	425	435	325	210
15+16	90	165	130	70	140	105	1367	1402	1413	1448	485	520	365	210
17+18	110	205	165	80	170	130	1560	1600	1620	1660	535	570	395	230
19+20	130	245	200	100	210	165	1832	1877	1892	1937	610	630	448	245
21+22	130	245	200	100	210	165	1902	1947	1957	2002	690	690	473	280

规格 Size	齿轮箱 Gear units														
	b	c	c ₁	D ₅	g	h	h ₁	h ₂	m ₃	n ₁	n ₄	s	H	m ₁	e ₃
13+14	550	60	61±2	48	211.5	440	450	460	475	100	340	35	900	545	265
15+16	625	70	72±2	55	238	500	490	500	535	120	375	42	1000	655	320
17+18	690	80	81±2	55	259	550	555	560	600	135	425	42	1110	735	370
19+20	790	90	91±2	65	299	620	615	620	690	155	475	48	1240	850	430
21+22	830	100	100±2	75	310	700	685	690	720	170	520	56	1390	900	450

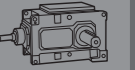
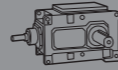
规格 Size	输出轴 Output															
	齿轮箱 Gear units							EB3SH EB3HH EB3HM EB3DH EB3DM EB3KH EB3KM								
	a	e ₂	E	G ₅	m ₂	n ₂	n ₃	d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₃	D ₄	G ₄	G ₅
13	1290	405	635	1180	545	305	835	200	335	350	190	335	190	195	335	480
14	1430	475	705	1250	685	375	905	210	335	350	210	335	210	215	335	480
15	1550	485	762	1420	655	365	1005	230	380	410	230	380	230	235	380	550
16	1640	530	808	1470	745	410	1050	240	380	410	240	380	240	245	380	550
17	1740	525	860	1620	735	390	1145	250	415	410	250	415	250	260	415	600
18	1860	585	920	1680	855	450	1205	270	415	470	275	415	280	285	415	600
19	2010	590	997	1900	850	435	1345	290	465	470	-	-	285	295	465	670
20	2130	650	1057	1960	970	495	1405	300	465	500	-	-	310	315	465	670
21	2140	655	1067	1970	900	485	1400	320	490	500	-	-	330	335	490	715
22	2250	710	1122	2025	1010	540	1455	340	490	550	-	-	340	345	490	725

规格 Size	润滑油 Oil (L)		重量 Weight (kg)	
	EB3.H	EB3.M	EB3.H	EB3.M
13	130	110	2380	2260
14	140	115	2750	2615
15	210	160	3730	3540
16	220	165	3955	3765
17	290	230	4990	4760
18	300	235	5495	5240
19	380	360	7000	6500
20	440	420	8100	7600
21	370	420	9200	8600
22	430	490	9900	9400



规格 Size	冷却盘管 Cooling coil						
	b _x	e _x	e _y	h _x	h _y	s _x	x) L/min
13	252	455	335	116	300	G1/2	8
14	252	525	405	116	300	G1/2	8
15	290	535	395	119	335	G1/2	8
16	290	580	440	119	335	G1/2	8
17	340	575	425	134	380	G1/2	8
18	340	635	485	134	380	G1/2	8
19	敬请垂询 On request						
20							
21							
22							

1)冷却盘管适用于淡水, 海水或有咸味的水。
Cooling coil suitable for fresh, sea or brackish water.
2)x)所需冷却水量。 Cooling water quantity required.



直交轴齿轮箱
Bevel-helical gear units

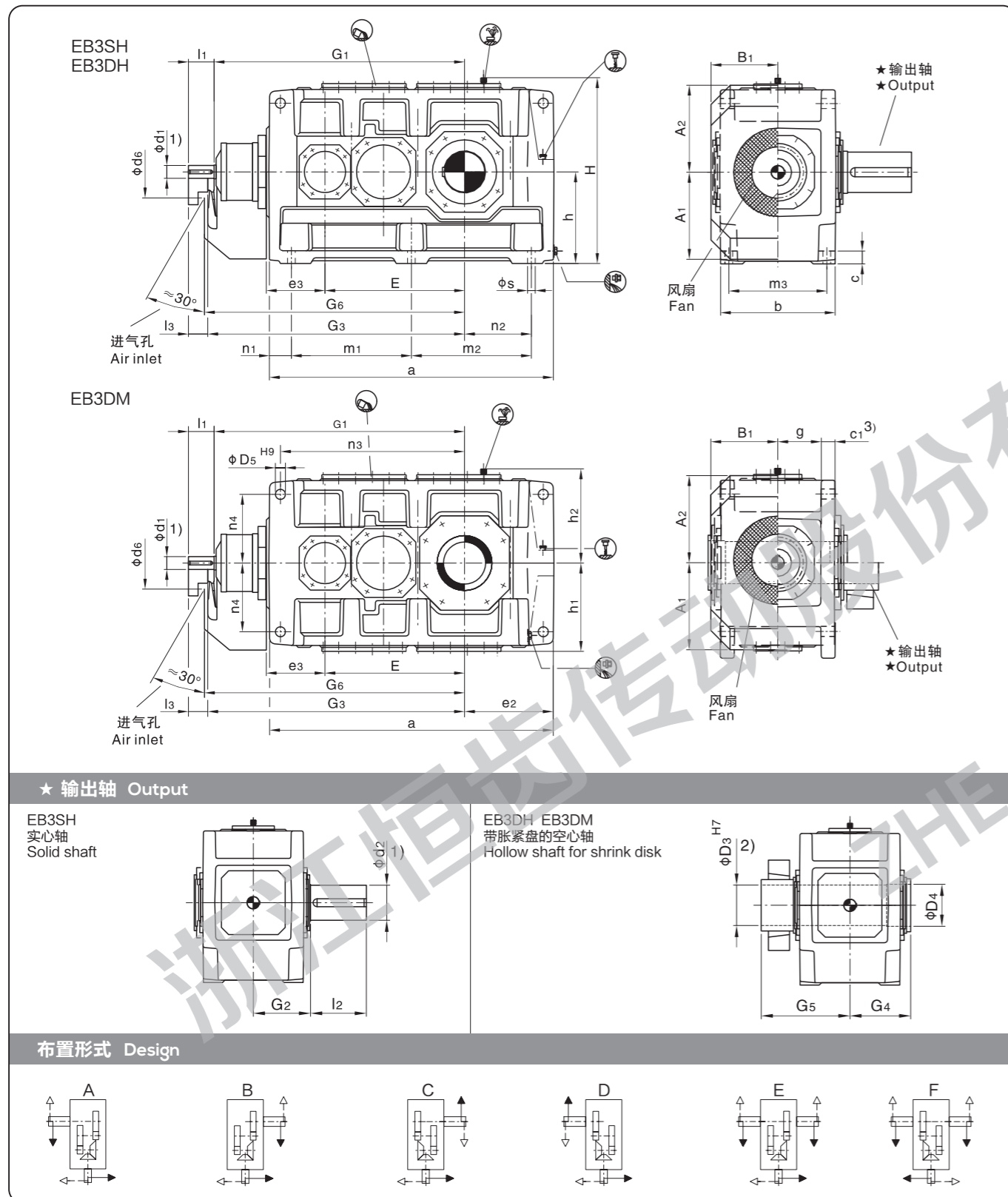
三级传动
Three Stage

卧式安装
Horizontal

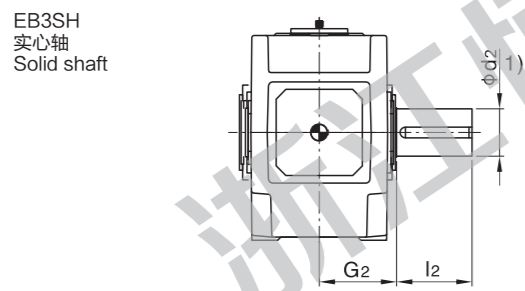
类型 TYPES EB3.H...,EB3.M...

规格 SIZES 23...26

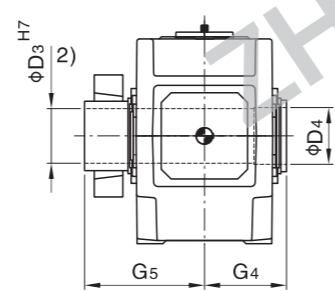
注: 尺寸 mm Note: Dimensions in mm



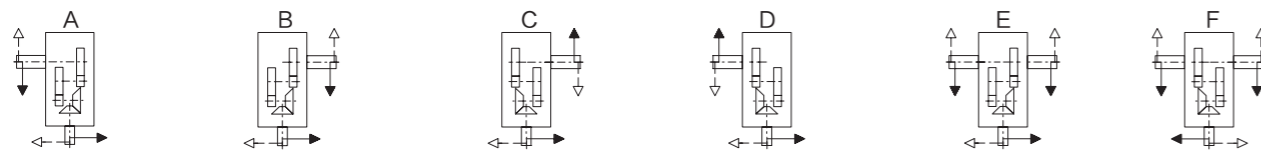
★ 输出轴 Output



EB3DH EB3DM
带胀紧盘的空心轴
Hollow shaft for shrink disk



布置形式 Design



1) $k6 \leq \phi 50$ $m6 > \phi 50$ 有关键 GB/T1095-1979型和中心孔, 参见第321-322页。For parallel key GB/T1095-1979 and for center hole, see page 321-322.
2) 在安装基础螺栓前, 应拆下风扇罩。Remove air guide cover before fitting the foundation bolts.
3) 扭力支撑位于工作机侧。Torque support on driven machine side.

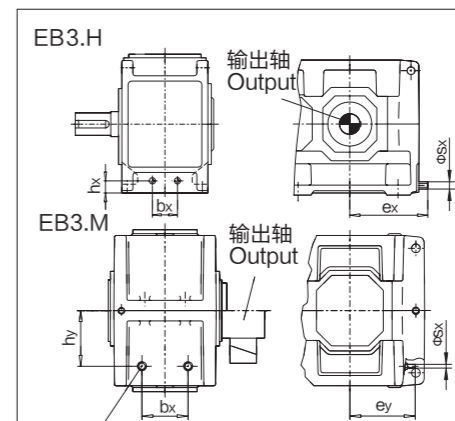


规格 Size	输入轴 Input						冷却风扇 Fan							
	$i_n=20-45$			$i_n=50-71$			G_1	G_3	G_1	G_3	A_1	A_2	B_1	d_6
	$d_1^{(1)}$	l_1	l_3	$d_1^{(1)}$	l_1	l_3								
23+24	150	245	200	110	210	165	2130	2175	2195	2240	770	770	528	350
25+26	150	245	200	110	210	165	2270	2315	2360	2405	845	865	585	380

规格 Size	齿轮箱 Gear units														
	b	c	c_1	D_5	g	h	h_1	h_2	m_3	n_1	n_4	s	H	m_1	e_3
23+24	930	115	120 ± 2	80	342	780	770	790	810	180	580	56	1570	1010	490
25+26	1045	130	120 ± 2	90	400	860	865	860	910	200	660	66	1720	1090	490

规格 Size	齿轮箱 Gear units						输出轴 Output							
							EB3SH			EB3DH EB3DM				
	a	e_2	E	G_6	m_2	n_2	n_3	$d_2^{(1)}$	G_2	l_2	D_3	D_4	G_4	G_5
23	2380	730	1185	2200	1010	550	1560	360	540	590	360	365	540	785
24	2510	795	1250	2265	1140	615	1625	380	540	590	380	385	540	805
25	2580	790	1325	2315	1090	590	1685	400	605	650	400	405	605	875
26	2760	880	1415	2430	1270	680	1775	420	605	650	430	435	605	900

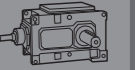
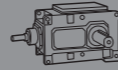
规格 Size	润滑油 (L) Oil		重量 (kg) Weight	
	EB3.H	EB3.M	EB3.H	EB3.M
23	520	560	11500	10600
24	600	650	13400	12500
25	720	790	16000	15100
26	840	920	17500	16400



规格 Size	冷却盘管 Cooling coil					
	b_x	e_x	e_y	h_x	h_y	s_x x) L/min
23	敬请垂询 On request					
24						
25						
26						

冷却盘管的冷却液接口
Water connection for cooling coil

- 1) 冷却盘管适用于淡水, 海水或有咸味的水。
Cooling coil suitable for fresh, sea or brackish water.
- 2) x) 所需冷却水量。 Cooling water quantity required.



直交轴齿轮箱
Bevel-helical gear units

四级传动
Four Stage

卧式安装
Horizontal

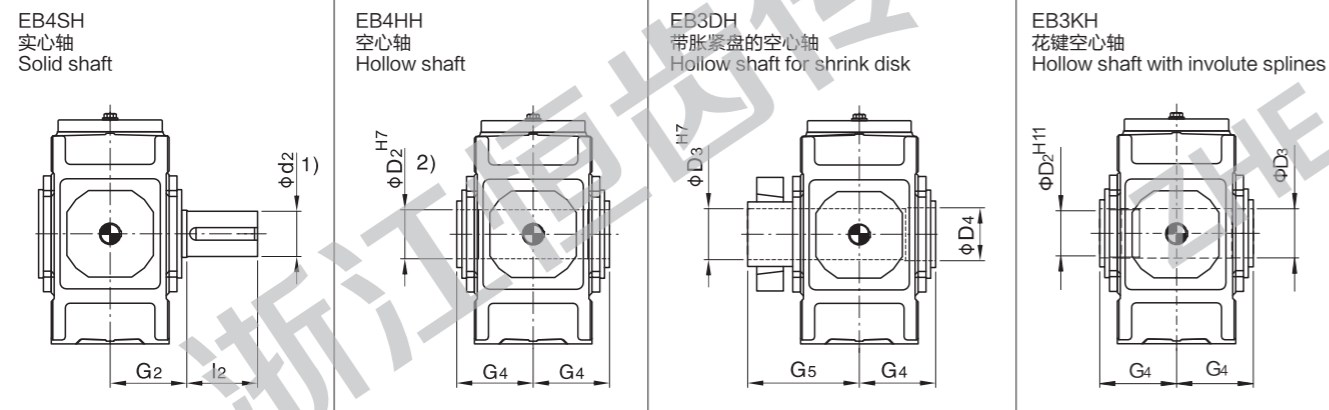
类型 TYPES EB4.H...
规格 SIZES 5...12



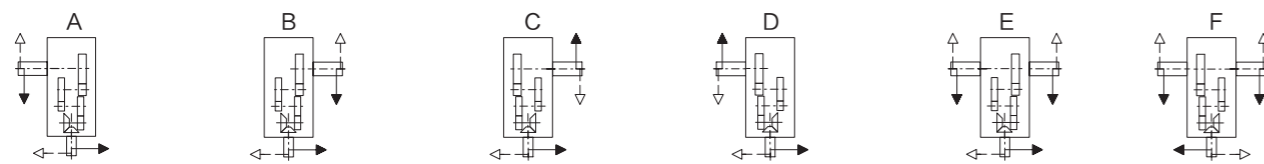
注: 尺寸 mm Note: Dimensions in mm



★ 输出轴 Output



布置形式 Design



1) $k6 \leq \phi 50$ $m6 > \phi 50$ 有关平键 GB/T1095-1979型和中心孔, 参见第321-322页。For parallel key GB/T1095-1979 and for center hole, see page 321-322.
2) 在安装基础螺栓前, 应拆下风扇罩。Remove air guide cover before fitting the foundation bolts.
3) 扭力支撑位于工作机侧。Torque support on driven machine side.

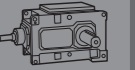
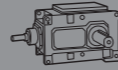
规格 Size	输入轴 Input				G ₁	G ₁
	i _n =80-180		i _n =200-315			
	i _n =100-224		i _n =250-400			
	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁		
5 +6	28	55	20	50	615	650
7 +8	30	70	25	60	725	770
9 +10	35	80	28	60	840	890
11 +12	45	100	35	80	1010	1080

规格 Size	齿轮箱 Gear units									
	b	c	c ₁	D ₅	g	h	m ₃	n ₁	n ₄	s
5+6	255	28	30 ± 1	24	97.5	230	220	105	180	19
7+8	300	35	36 ± 1	28	114	280	260	120	215	24
9+10	370	40	45 ± 1.5	36	140	320	320	145	245	28
11+12	430	50	54 ± 1.5	40	161	380	370	165	300	35

规格 Size	齿轮箱 Gear units										输出轴 Output					
	EB4SH							EB4HH			EB4DH			EB4KH		
	a	E	H	h ₅	m ₁	n ₂	n ₃	d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₃	D ₄	G ₄	G ₅
5	690	405	482	100	480	100	455	100	165	210	95	165	100	100	165	240
6	770	440	482	100	560	145	490	110	165	210	105	165	110	110	165	240
7	845	495	572	140	605	130	560	120	195	210	115	195	120	120	195	280
8	950	540	582	130	710	190	605	130	195	250	125	195	130	130	195	285
9	1000	580	662	135	710	155	660	140	235	250	135	235	140	145	235	330
10	1100	630	662	135	810	205	710	160	235	300	150	235	150	155	235	350
11	1200	705	782	170	870	180	805	170	270	300	165	270	165	170	270	400
12	1355	775	790	160	1025	265	875	180	270	300	180	270	180	185	270	405

规格 Size	润滑油 Oil (L)	重量 Weight (kg)
5	16	335
6	18	385
7	30	555
8	33	655
9	48	890
10	50	1025
11	80	1485
12	90	1750

见327-330页
See page 327-330



直交轴齿轮箱
Bevel-helical gear units

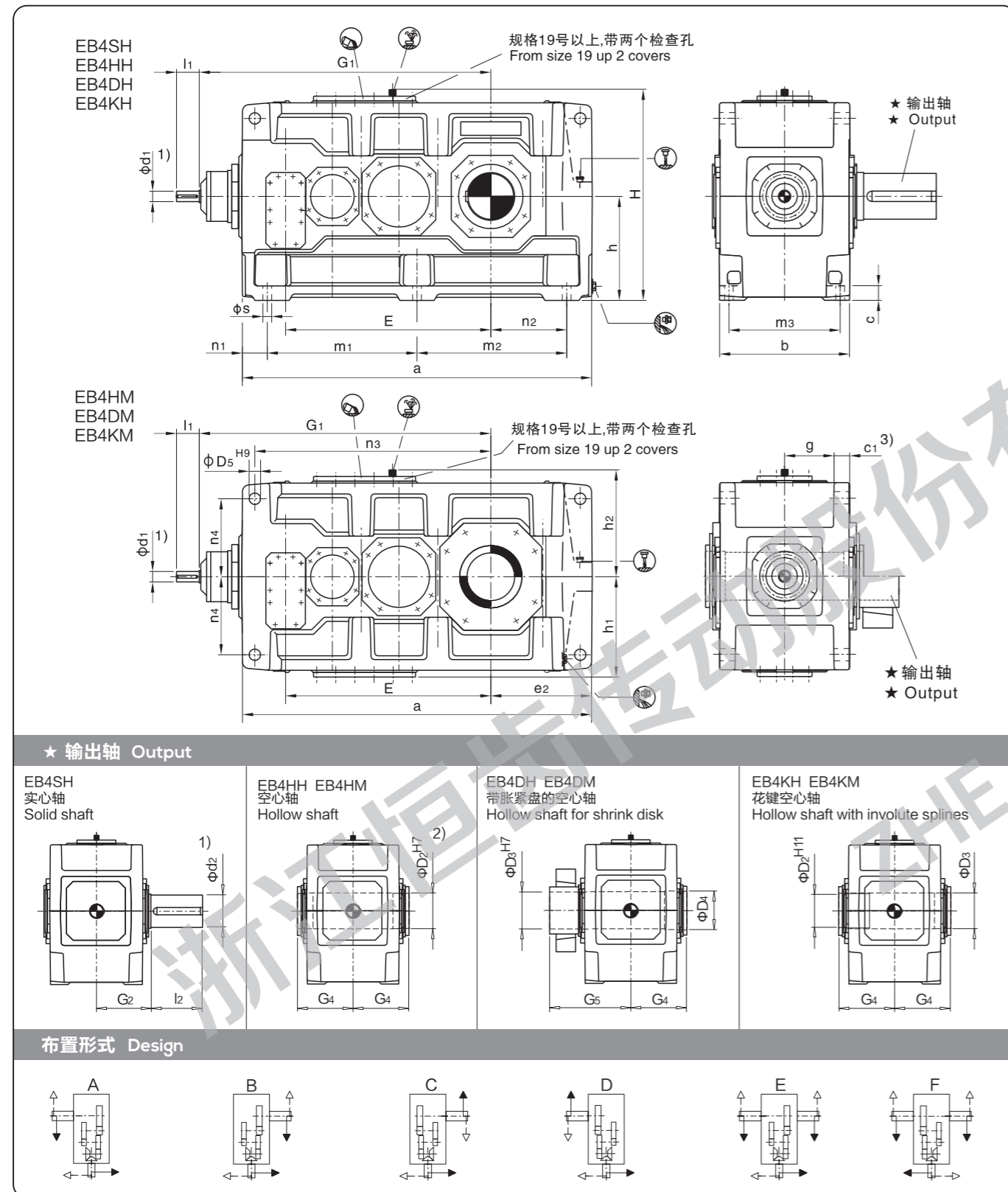
四级传动
Four Stage

卧式安装
Horizontal

类型 TYPES EB4.H...,EB4.M...

规格 SIZES 13...22

注: 尺寸 mm Note: Dimensions in mm



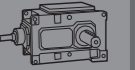
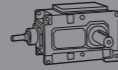
规格 Size	输入轴 Input					
	i _n =80 - 180		i _n =200 - 315		G ₁	G ₁
	i _n =90 - 200		i _n =224 - 355			
	i _n =100 - 224		i _n =250 - 400			
	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	G ₁	G ₁
13+14	55	110	40	100	1170	1240
15+16	70	135	50	110	1402	1448
17+18	70	135	50	110	1450	1510
19+20	80	165	60	140	1680	1740
21+22	90	165	70	140	1992	2047

规格 Size	齿轮箱 Gear units													
	b	c	c ₁	D ₅	g	h	h ₁	h ₂	H	m ₁	m ₃	n ₁	n ₄	s
13+14	550	60	61±2	48	211.5	440	450	460	900	597.5	475	100	340	35
15+16	625	70	72±2	55	238	500	490	500	1000	720	535	120	375	42
17+18	690	80	81±2	55	259	550	555	560	1110	750	600	135	425	42
19+20	790	90	91±2	65	299	620	615	620	1240	860	690	155	475	48
21+22	830	100	100±2	75	310	700	685	690	1390	1000	720	170	520	56

规格 Size	输出轴 Output																	
	齿轮箱 Gear units							EB4SH				EB4HH EB4HM		EB4DH EB4DM		EB4KH EB4KM		
	a	e ₂	E	m ₂	n ₂	n ₃	d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₃	D ₄	G ₄	G ₅			
13	1395	405	820	597.5	305	940	200	335	350	190	335	190	195	335	480	见327-330页 See page 327-330		
14	1535	475	890	737.5	375	1010	210	335	350	210	335	210	215	335	480			
15	1680	485	987	720	365	1135	230	380	410	230	380	230	235	380	550			
16	1770	530	1033	810	410	1180	240	380	410	240	380	240	245	380	550			
17	1770	525	1035	750	390	1175	250	415	410	250	415	250	260	415	600			
18	1890	585	1095	870	450	1235	270	415	470	275	415	280	285	415	600			
19	2030	590	1190	860	435	1365	290	465	470	-	-	285	295	465	670			
20	2150	650	1250	980	495	1425	300	465	500	-	-	310	315	465	670			
21	2340	655	1387	1000	485	1615	320	490	500	-	-	330	335	490	715			
22	2450	710	1442	1110	540	1670	340	490	550	-	-	340	345	490	725			

规格 Size	润滑油 Oil (L)		重量 Weight (kg)	
	EB4.H	EB4.M	EB4.H	EB4.M
13	145	120	2395	2280
14	150	125	2735	2605
15	230	170	3630	3435
16	235	175	3985	3765
17	295	230	4695	4460
18	305	235	5200	4930
19	480	440	6800	6300
20	550	510	8200	7700
21	540	590	9200	8600
22	620	680	9900	9400

1) k6 ≤ φ50 m6 > φ50 有关平键 GB/T1095-1979型和中心孔, 参见第321-322页。For parallel key GB/T1095-1979 and for center hole, see page 321-322.
2) 在安装基础螺栓前, 应拆下风扇罩。Remove air guide cover before fitting the foundation bolts.
3) 扭力支撑位于工作机侧。Torque support on driven machine side.



直交轴齿轮箱
Bevel-helical gear units

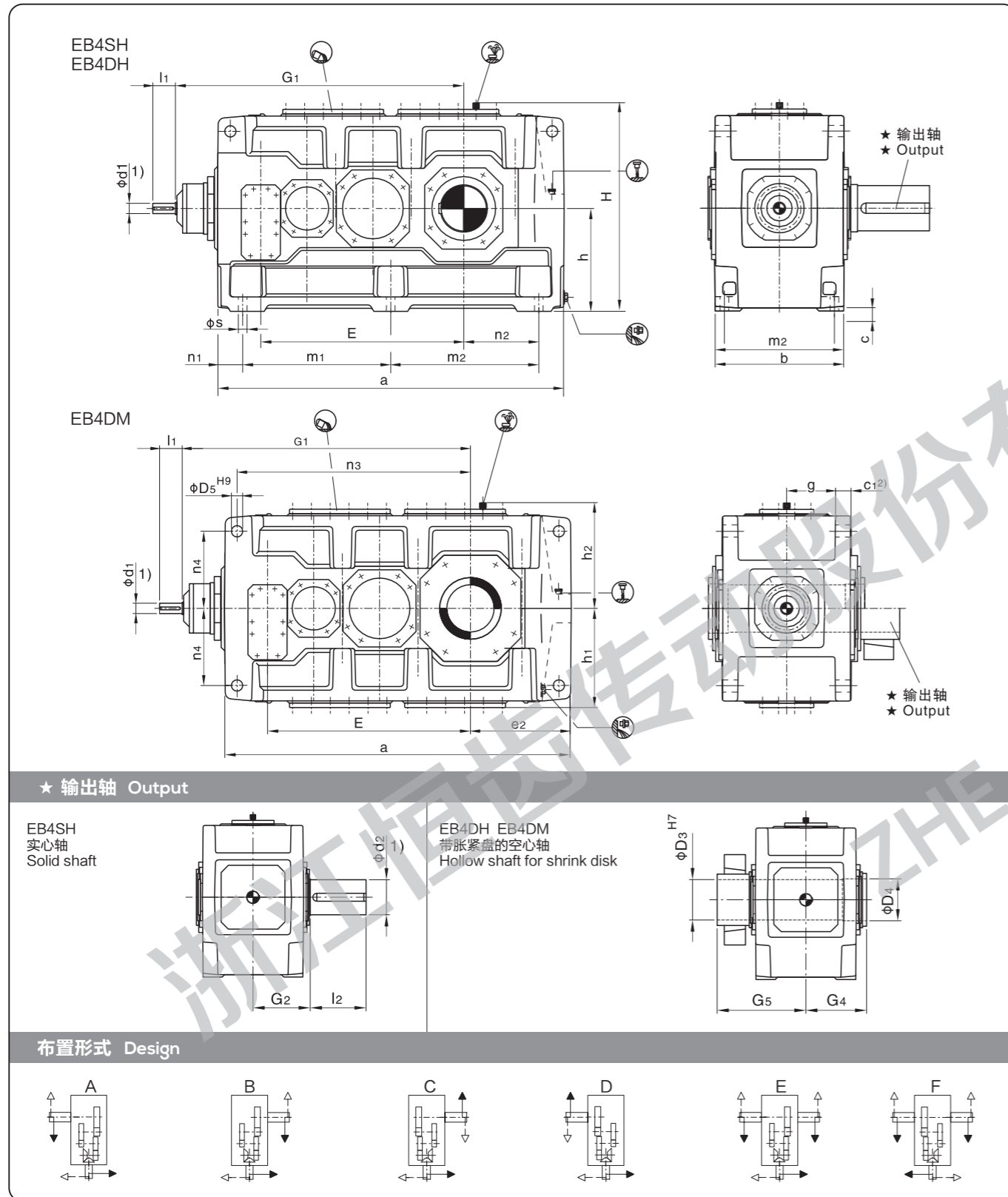
四级传动
Four Stage

卧式安装
Horizontal

类型 TYPES EB4.H...,EB4.M...

规格 SIZES 23...26

注: 尺寸 mm Note: Dimensions in mm



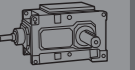
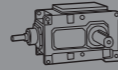
规格 Size	输入轴 Input				G ₁	G ₁
	i _N =80 - 180		i _N =200 - 315			
	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁		
23+24	90	165	70	140	2110	2175
25+26	110	205	80	170	2395	2485

规格 Size	齿轮箱 Gear units													
	b	c	c ₁	D ₅	g	h	h ₁	h ₂	m ₃	n ₁	n ₄	s	H	m ₁
23+24	930	115	120±2	80	342	780	770	790	810	180	580	56	1570	1085
25+26	1045	130	120±2	80	400	860	860	860	910	200	660	66	1720	1215

规格 Size	输出轴 Output												
	齿轮箱 Gear units						EB4SH			EB4DH EB4DM			
	a	e ₂	E	m ₂	n ₂	n ₃	d ₂ ¹⁾	G ₂	l ₂	D ₃	D ₄	G ₄	G ₅
23	2530	730	1505	1085	550	1725	360	540	590	360	365	540	785
24	2660	795	1570	1215	615	1790	380	540	590	360	365	540	805
25	2830	790	1695	1215	590	1965	400	605	650	400	405	605	875
26	3010	880	1785	1395	680	2055	420	605	650	430	435	605	900

规格 Size	润滑油 Oil (L)		重量 Weight (kg)	
	EB4.H	EB4.M	EB4.H	EB4.M
23	710	790	11600	10700
24	810	910	13500	12600
25	1000	1110	16100	15200
26	1100	1200	17600	16500

1) k6 ≤ φ50 m6 > φ50 有关平键 GB/T1095-1979型和中心孔, 参见第321-322页。For parallel key GB/T1095-1979 and for center hole, see page 321-322.
2) 在安装基础螺栓前, 应拆下风扇罩。Remove air guide cover before fitting the foundation bolts.
3) 扭力支撑位于工作机侧。Torque support on driven machine side.



平行轴齿轮箱
Helical gear units

二级传动
Two Stage

立式安装
Vertical

类型 TYPES EH2.V...

规格 SIZES 3...12



注: 尺寸 mm Note: Dimensions in mm

EH2SV EH2HV EH2DV EH2KV
采用浸油润滑 With dip lubrication

★输出轴
★Output

补偿油箱
Oil compensating tank

EH2SV EH2HV EH2DV EH2KV
采用强制润滑 With forced lubrication

★输出轴
★Output

有关供油方式(浸油润滑或强制润滑), 参见 335 页 Oil supply(dip or forced lubrication), see page 335

★ 输出轴 Output

EH2SV
实心轴
Solid shaft

EH2HV
空心轴
Hollow shaft

EH2DV
带胀紧盘的空心轴
Hollow shaft for shrink disk

EH2KV
花键空心轴
Hollow shaft with involute splines

布置形式 Design (□法兰泵, □润滑补偿油箱)

规格 Size	输入轴 Input				G ₁	布置形式 Design G, H, I 仅用于 only for in=
	in=6.3 - 11.2		in=12.5 - 22.4			
	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁		
3	35	70	28	50	135	-
4	45	100	32	80	170	6.3-18
5 +6	50	100	38	80	195	6.3-18
7 +8	60	135	50	110	210	6.3-16
9 +10	75	140	60	140	240	6.3-16
11 +12	90	165	70	140	275	6.3-18

规格 Size	齿轮箱 Gear units													
	b ₁	c	e ₄	f ₁	f ₃	h	h ₁	h ₂	h ₃	m ₂	n ₁	p ₁ ⁴⁾	p ₂ ⁴⁾	s
3	150	24 ± 1	175	28	-	95	165	-	180	265	20	35	210	18
4	150	30 ± 1	200	28	-	107.5	165	-	180	300	30	35	220	24
5+6	240	30 ± 1	230	38	150	127.5	205	190	240	360	30	35	270	24
7+8	240	36 ± 1	280	42	145	150	205	165	250	430	35	35	330	28
9+10	330	45 ± 1.5	320	42	135	185	275	205	330	490	40	40	370	36
11+12	330	54 ± 1.5	380	48	145	215	275	240	340	600	50	50	440	40

规格 Size	齿轮箱 Gear units							输出轴 Output								
	a	E	e ₅	e ₆	m ₁	n ₂	f ₂	EH2SV		EH2HV		EH2DV		EH2KV		
								d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₃	D ₄	G ₄	G ₅
3	450	220	185	290	410	125	20	65	125	140	65	125	70	70	125	180
4	565	270	215	320	505	160	25	80	140	170	80	140	85	85	140	205
5	640	315	252	385	580	175	33	100	165	210	95	165	100	100	165	240
6	720	350	252	425	660	220	33	110	165	210	105	165	110	110	165	240
7	785	385	292	425	715	215	38	120	195	210	115	195	120	120	195	280
8	890	430	302	485	820	275	41	130	195	250	125	195	130	130	195	285
9	925	450	342	560	845	260	41	140	235	250	135	235	140	145	235	330
10	1025	500	342	610	945	310	35	160	235	300	150	235	150	155	235	350
11	1105	545	402	595	1005	295	35	170	270	300	165	270	165	170	270	400
12	1260	615	410	680	1160	380	35	180	270	300	180	270	180	185	270	405

规格 Size	润滑油 Oil		重量 Weight (kg)
	浸油润滑 Dip lubrication (L)	强制润滑 Forced lubrication (L)	
3	14	-	115
4	25	-	190
5	23	10	300
6	27	11	355
7	58	22	505
8	62	25	590
9	100	42	830
10	110	46	960
11	160	60	1335
12	180	70	1615

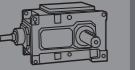
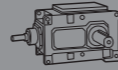
冷却盘管的冷却液接口
Water connection for
cooling coil

输出轴
Output

规格 Size	m _x	n _x	e _z	S _y	x) L/min
3	34	120	130	G1/2	4
4	34	140	155	G1/2	4
5	68	166	170	G1/2	4
6	70	162	215	G1/2	4
7	100	197	210	G1/2	4
8	100	197	270	G1/2	4
9	140	210	245	G1/2	8
10	100	225	295	G1/2	8
11	110	285	275	G1/2	8
12	200	271	360	G1/2	8

1)冷却盘管适用于淡水, 海水或有咸味的水。
Cooling coil suitable for fresh, sea or brackish water.
2)x)所需冷却水量。 Cooling water quantity required.

1)k6 ≤ φ50 m6 > φ50 有关平键 GB/T1095-1979型和中心孔, 参见第321-322页。 For parallel key GB/T1095-1979 and for center hole, see page 321-322.
2)扭力支撑位于工作机侧。 Torque support on driven machine side.
3)有关油泵、油管和防护盖的安装空间及确切尺寸, 请与我们联系。 Space for pump, pipes and cover; for exact dimensions, please refer to us.



平行轴齿轮箱
Helical gear units

二级传动
Two Stage

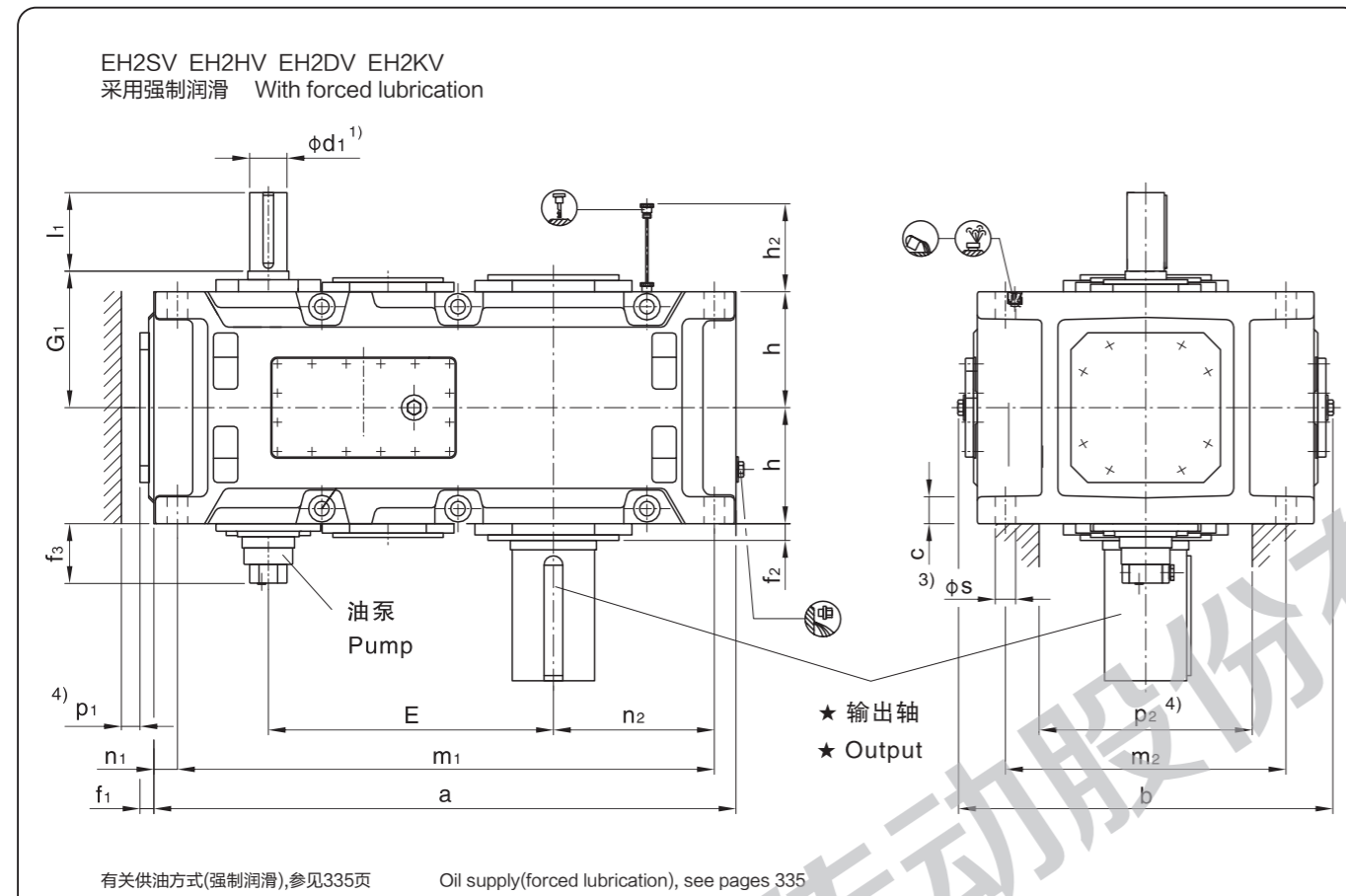
立式安装
Vertical

类型 TYPES EH2.V...

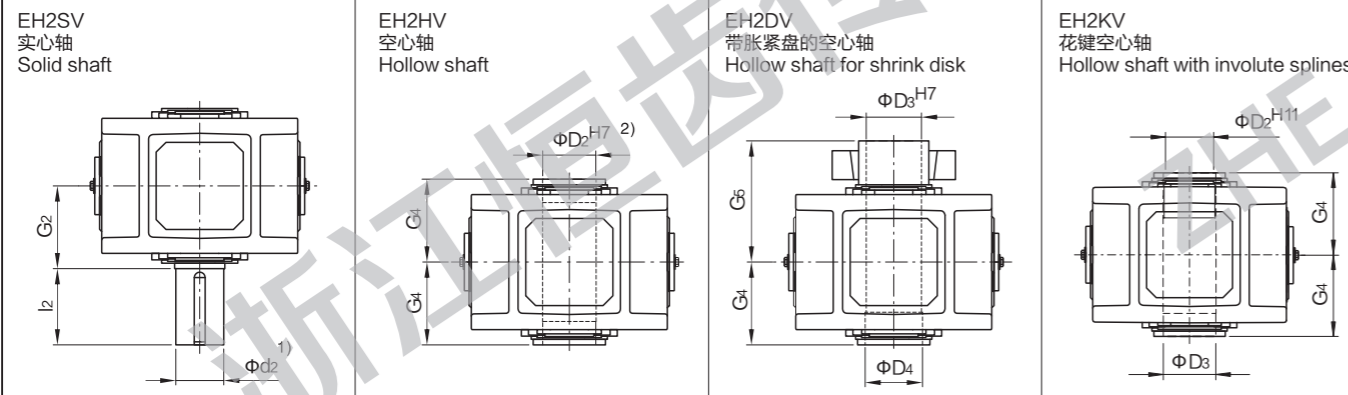
规格 SIZES 13...22



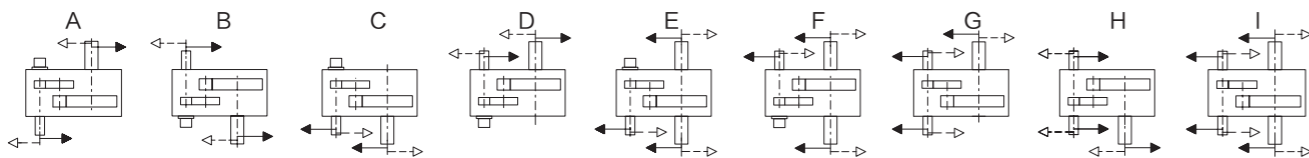
注: 尺寸 mm Note: Dimensions in mm



★ 输出轴 Output



布置形式 Design (法兰泵)



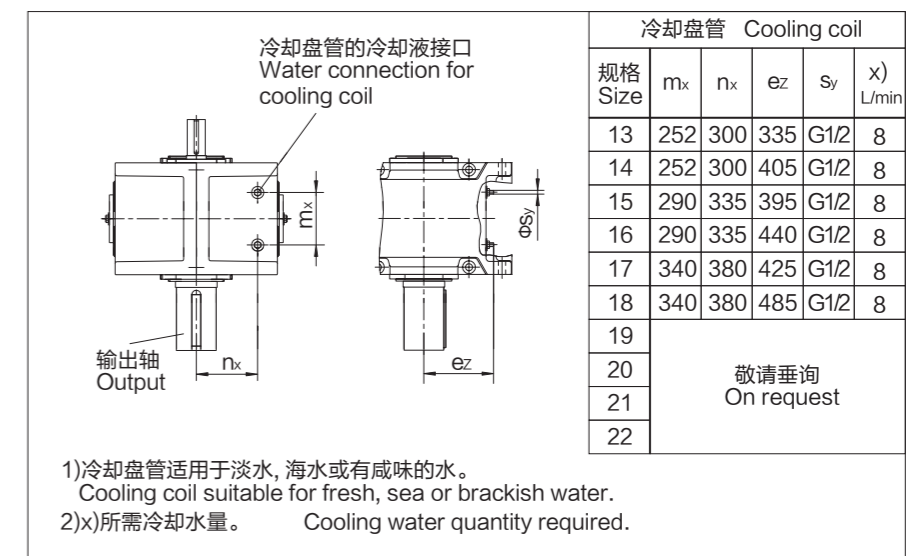
1) $k6 \leq \phi 50$ $m6 > \phi 50$ 有关平键 GB/T1095-1979型和中心孔, 参见第321-322页。For parallel key GB/T1095-1979 and for center hole, see page 321-322.
2) 扭力支撑位于工作机侧。Torque support on driven machine side.
3) 有关油泵、油管和防护盖的安装空间及确切尺寸, 请与我们联系。Space for pump, pipes and cover; for exact dimensions, please refer to us.

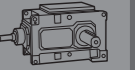
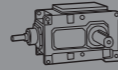
规格 Size	输入轴 Input					布置形式 Design G, H, I 仅用于 only for $i_n =$		
	$i_n = 6.3 - 11.2$		$i_n = 12.5 - 20$		G_1			
	$i_n = 7.1 - 12.5$		$i_n = 14 - 22.5$					
	$i_n = 8 - 14$		$i_n = 16 - 25$					
	$d_1^{1)}$	l_1	$d_1^{1)}$	l_1				
13 +14	100	205	85	170	330	6.3-16	8-20	
15 +16	120	210	100	210	365	6.3-16	7.1-18	
17 +18	125	245	110	210	420	6.3-16	7.1-18	
19 +20	根据用户要求提供 On request							
21 +22	根据用户要求提供 On request							

规格 Size	齿轮箱 Gear units										
	b	c	f_1	f_2	$p_1^{4)}$	$p_2^{4)}$	h	h_2	m_2	n_1	s
13+14	900	61±2	53	38	50	500	272.5	300	680	50	48
15+16	980	72±2	63	38	50	570	310	340	750	60	55
17+18	1110	81±2	60	38	70	630	340	374	850	70	55
19+20	根据用户要求提供 On request										
21+22	根据用户要求提供 On request										

规格 Size	输出轴 Output													
	齿轮箱 Gear units					EH2SV		EH2HV		EH2DV			EH2KV	
	a	E	f_3	m_1	n_2	$d_2^{1)}$	G_2	l_2	$D_2^{2)}$	G_4	D_3	D_4	G_4	G_5
13	1290	635	130	1195	360	200	335	350	190	335	190	195	335	480
14	1430	705	130	1335	430	210	335	350	210	335	210	215	335	480
15	1550	762	130	1435	430	230	380	410	230	380	230	235	380	550
16	1640	808	130	1525	475	240	380	410	240	380	240	245	380	550
17	1740	860	170	1610	465	250	415	410	250	415	250	260	415	600
18	1860	920	170	1730	525	270	415	470	275	415	280	285	415	600
19	根据用户要求提供 On request													
20	根据用户要求提供 On request													
21	根据用户要求提供 On request													
22	根据用户要求提供 On request													

规格 Size	润滑油 Oil (L)	重量 Weight (kg)
13	80	1880
14	90	2430
15	140	3240
16	150	3465
17	175	4420
18	185	4870
19	敬请垂询 On request	
20	敬请垂询 On request	
21	敬请垂询 On request	
22	敬请垂询 On request	





平行轴齿轮箱
Helical gear units

三级传动
Three Stage

立式安装
Vertical

类型 TYPES EH3.V...
规格 SIZES 5...12



注: 尺寸 mm Note: Dimensions in mm

EH3SV EH3HV EH3DV EH3KV
采用浸油润滑 With dip lubrication

★ 输出轴
★ Output

补偿油箱
Oil compensating tank

EH3SV EH3HV EH3DV EH3KV
采用强制润滑 With forced lubrication

★ 输出轴
★ Output

有关供油方式(浸油润滑或强制润滑), 参见335页 Oil supply(dip or forced lubrication), see pages 335

★ 输出轴 Output

EH3SV
实心轴
Solid shaft

EH3HV
空心轴
Hollow shaft

EH3DV
带胀紧盘的空心轴
Hollow shaft for shrink disk

EH3KV
花键空心轴
Hollow shaft with involute splines

布置形式 Design (□法兰泵, □润滑补偿油箱)

规格 Size	输入轴 Input						G1	布置形式 Design G, H, I 仅用于 only for in=	
	in=25-45		in=50-63		in=71-90				
	d1 ¹⁾	l1	d1 ¹⁾	l1	d1 ¹⁾	l1			
5 +6	40	70	30	50	24	40	160	25-90	31.5-112
7 +8	45	80	35	60	28	50	185	25-90	31.5-112
9 +10	60	125	45	100	32	80	230	25-90	31.5-112
11 +12	70	120	50	80	42	70	255	25-90	31.5-112

规格 Size	齿轮箱 Gear units												
	b1	c	e4	f3	h	h1	h2	h3	m2	n1	p1 ⁴⁾	p2 ⁴⁾	s
5+6	240	30 ± 1	230	190	127.5	205	190	240	360	30	35	270	24
7+8	240	36 ± 1	280	185	150	205	165	250	430	35	35	330	28
9+10	330	45 ± 1.5	320	170	185	275	205	330	490	40	40	370	36
11+12	330	54 ± 1.5	380	170	215	275	240	340	600	50	50	440	40

规格 Size	齿轮箱 Gear units							输出轴 Output							
	a	e5	e6	E	f2	m1	n2	EH3SV	EH3HV	EH3DV			EH3KV		
5	690	252	385	405	33	630	175	100	165	120	165	100	165	240	
6	770	252	425	440	33	710	220	110	165	210	105	165	110	240	
7	845	292	425	495	38	775	215	120	195	210	115	195	120	280	
8	950	312	485	540	41	880	275	130	195	250	125	195	130	285	
9	1000	342	560	580	41	920	260	140	235	250	135	235	140	330	
10	1100	342	610	630	35	1020	310	160	235	300	150	235	150	350	
11	1200	402	595	705	35	1100	295	170	270	300	165	270	165	400	
12	1355	410	680	775	35	1255	380	180	270	300	180	270	180	405	

规格 Size	润滑油 Oil		重量 Weight (kg)
	浸油润滑 Dip lubrication (L)	强制润滑 Forced lubrication (L)	
5	35	13	320
6	37	15	365
7	60	25	540
8	72	30	625
9	100	40	875
10	110	45	1020
11	170	66	1400
12	190	75	1675

冷却盘管的冷却液接口
Water connection for cooling coil

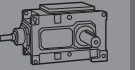
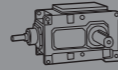
输出轴 Output

冷却盘管 Cooling coil

规格 Size	mx	nx	ez	Sy	x) L/min
5	70	170	175	G12	4
6	70	161	220	G12	4
7	80	197	210	G12	4
8	80	197	270	G12	4
9	150	213	245	G12	4
10	90	225	295	G12	4
11	200	265	275	G12	8
12	200	265	360	G12	8

1) 冷却盘管适用于淡水, 海水或有咸味的水。
Cooling coil suitable for fresh, sea or brackish water.
2) x) 所需冷却水量。 Cooling water quantity required.

1) k6 ≤ φ50 m6 > φ50 有关平键 GB/T1095-1979型和中心孔, 参见第321-322页。 For parallel key GB/T1095-1979 and for center hole, see page 321-322.
2) 扭力支撑位于工作机侧。 Torque support on driven machine side.
3) 有关油泵、油管和防护盖的安装空间及确切尺寸, 请与我们联系。 Space for pump, pipes and cover; for exact dimensions, please refer to us.



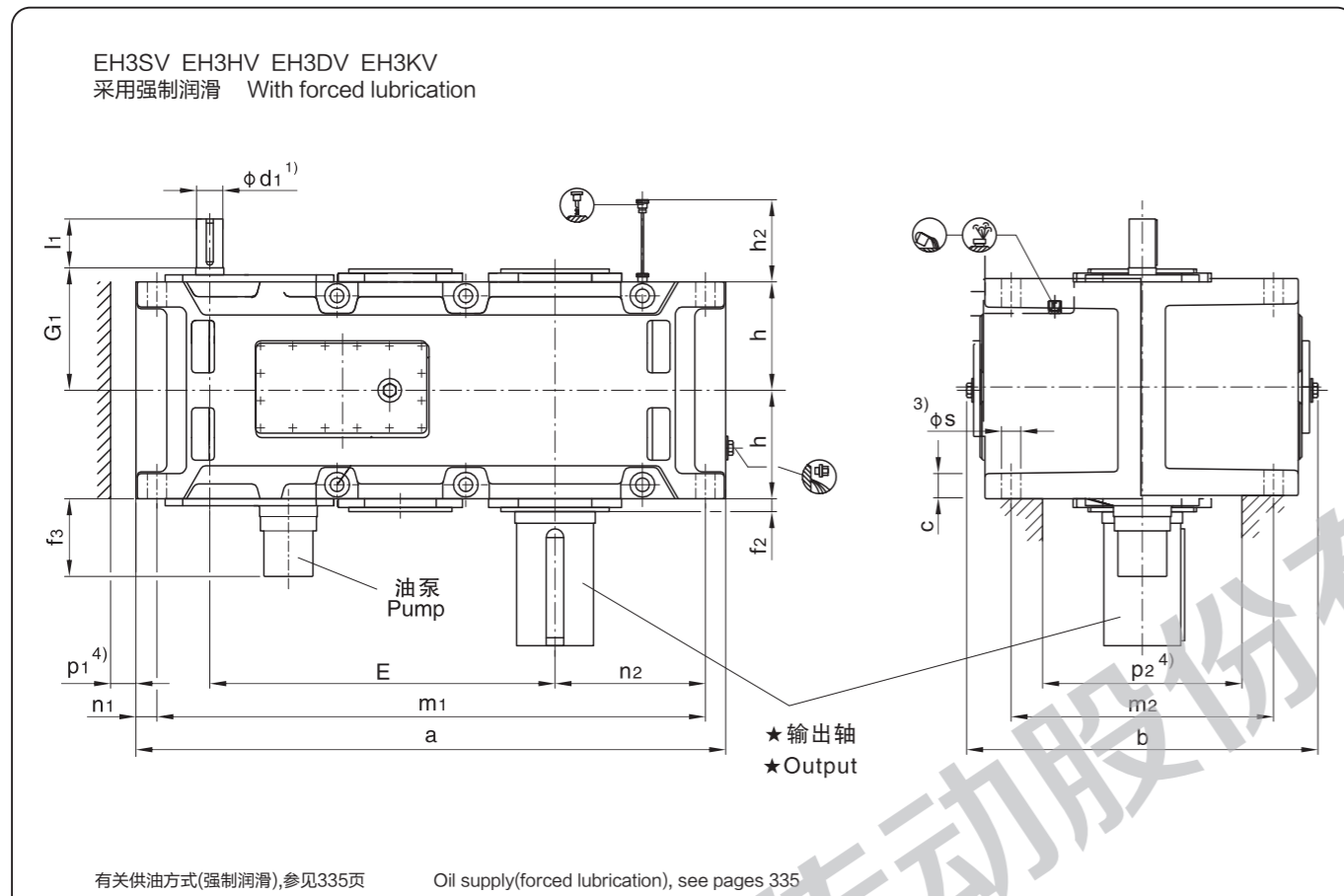
平行轴齿轮箱
Helical gear units

三级传动
Three Stage

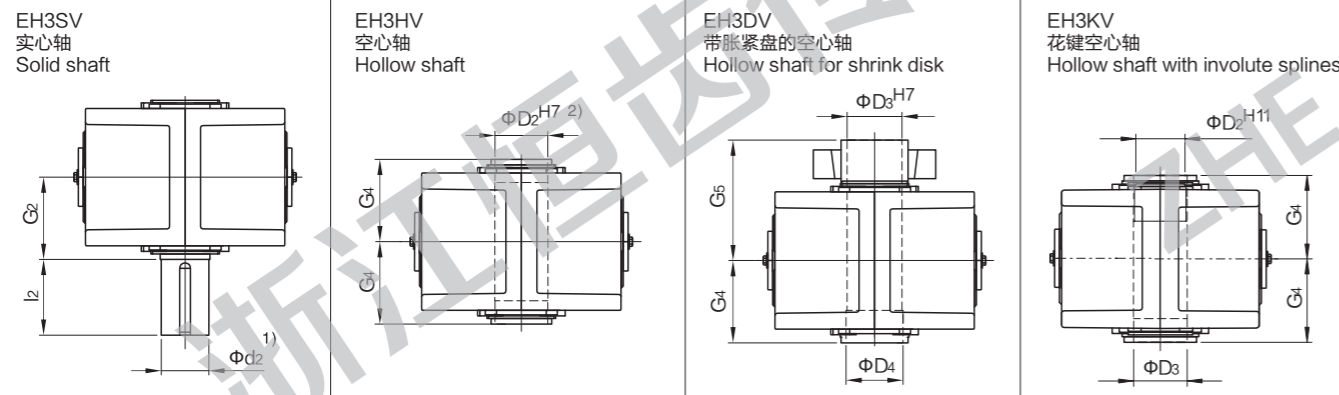
立式安装
Vertical

类型 TYPES EH3.V...
规格 SIZES 13...22

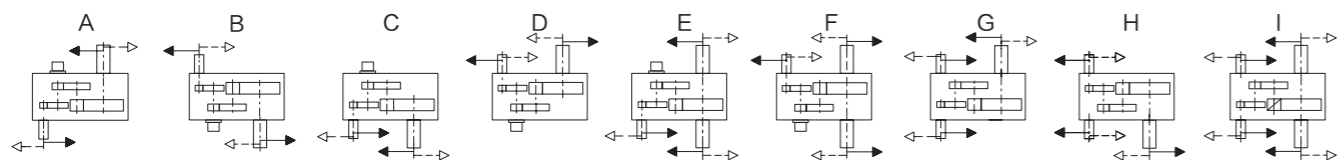
注: 尺寸 mm Note: Dimensions in mm



★ 输出轴 Output



布置形式 Design (法兰泵)



1) $k6 \leq \phi 50$ $m6 > \phi 50$ 有关平键 GB/T1095-1979型和中心孔, 参见第321-322页。For parallel key GB/T1095-1979 and for center hole, see page 321-322.
2) 扭力支撑位于工作机侧。Torque support on driven machine side.
3) 有关油泵、油管和防护盖的安装空间及确切尺寸, 请与我们联系。Space for pump, pipes and cover; for exact dimensions, please refer to us.



规格 Size	输入轴 Input						布置形式 Design G, H, I 仅用于 only for in=	
	in=22.4-45		in=50-63		in=71-90			
	in=25-50		in=56-71		in=80-100			
	in=28-56		in=63-80		in=90-112			
	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	G ₁	
13+14	85	160	60	135	50	110	310	22.4-90 28-112
15+16	100	200	75	140	60	140	350	22.4-90 25-100
17+18	100	200	75	140	60	140	380	22.4-90 25-100
19+20	根据用户要求提供 On request							
21+22	根据用户要求提供 On request							

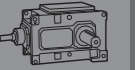
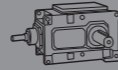
规格 Size	齿轮箱 Gear units										
	b	c	f ₂	f ₃	h	h ₂	m ₂	n ₁	p ₁ ⁴⁾	p ₂ ⁴⁾	s
13+14	900	61±2	38	170	272.5	300	680	50	50	500	48
15+16	980	72±2	38	170	310	340	750	60	50	570	55
17+18	1110	81±2	38	210	340	374	850	70	70	630	55
19+20	根据用户要求提供 On request										
21+22	根据用户要求提供 On request										

规格 Size	齿轮箱 Gear units			输出轴 Output									
	a	E	m ₁	n ₂	EH3SV		EH3HV		EH3DV			EH3KV	
					d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₃	D ₄		G ₄
13	1395	820	1300	360	200	335	350	190	335	190	195	335	480
14	1535	890	1440	430	210	335	350	210	335	210	215	335	480
15	1680	987	1565	430	230	380	410	230	380	230	235	380	550
16	1770	1033	1655	475	240	380	410	240	380	240	245	380	550
17	1770	1035	1640	465	250	415	410	250	415	250	260	415	600
18	1890	1095	1760	525	270	415	470	275	415	280	285	415	600
19	根据用户要求提供 On request												
20	根据用户要求提供 On request												
21	根据用户要求提供 On request												
22	根据用户要求提供 On request												

规格 Size	润滑油 Oil (L)	重量 Weight (kg)
13	115	2155
14	126	2490
15	180	3260
16	190	3625
17	190	4250
18	200	4740
19	敬请垂询 On request	
20	敬请垂询 On request	
21	敬请垂询 On request	
22	敬请垂询 On request	

规格 Size	冷却盘管 Cooling coil				
	m _x	n _x	e _z	s _y	x) L/min
13	252	300	335	G1/2	8
14	252	300	405	G1/2	8
15	290	340	395	G1/2	8
16	290	340	440	G1/2	8
17	300	380	425	G1/2	8
18	300	380	485	G1/2	8
19	敬请垂询 On request				
20	敬请垂询 On request				
21	敬请垂询 On request				
22	敬请垂询 On request				

1) 冷却盘管适用于淡水, 海水或有咸味的水。
Cooling coil suitable for fresh, sea or brackish water.
2) x) 所需冷却水量。 Cooling water quantity required.



平行轴齿轮箱
Helical gear units

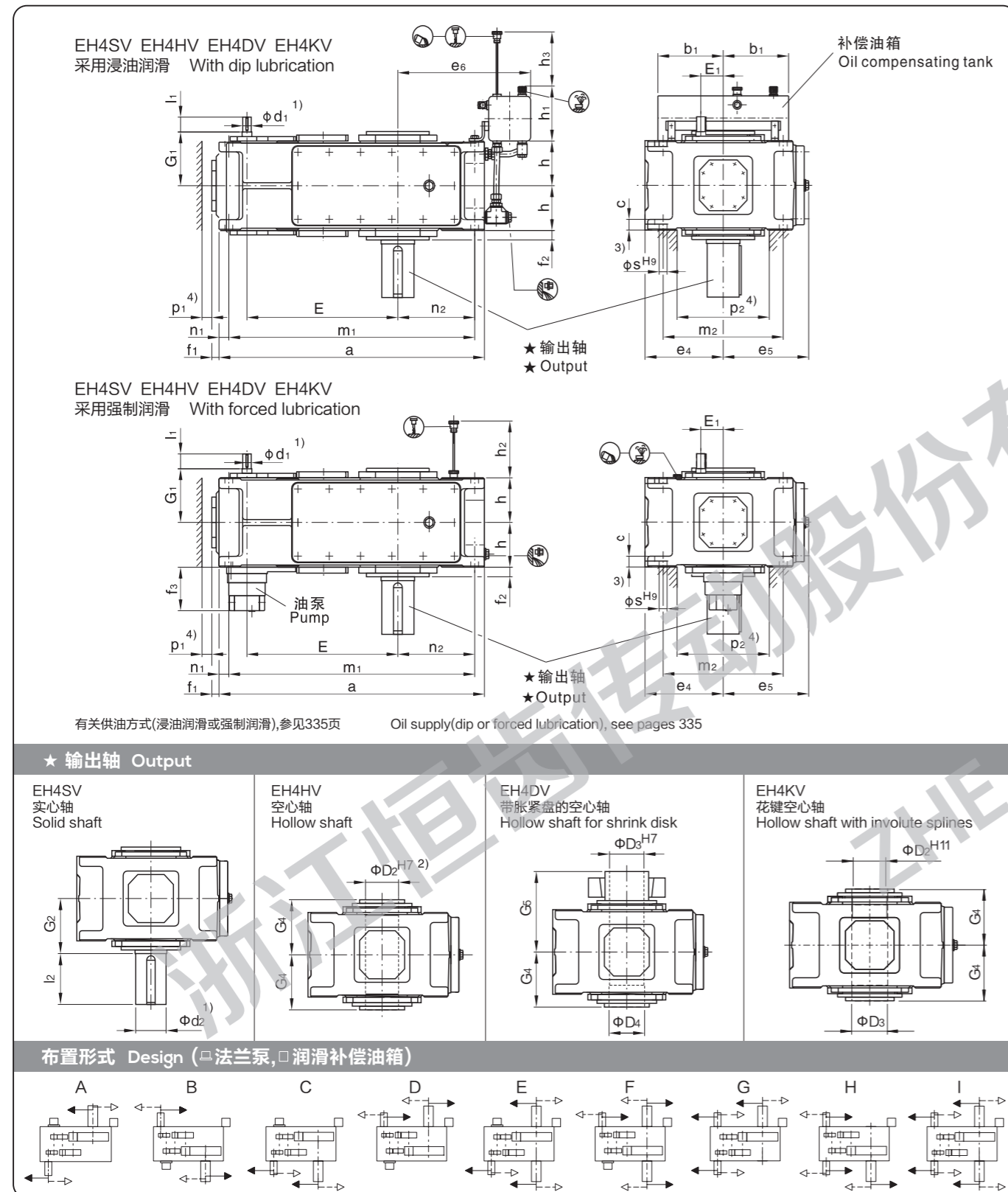
四级传动
Four Stage

立式安装
Vertical

类型 TYPES EH4.V...
规格 SIZES 7...12



注: 尺寸 mm Note: Dimensions in mm



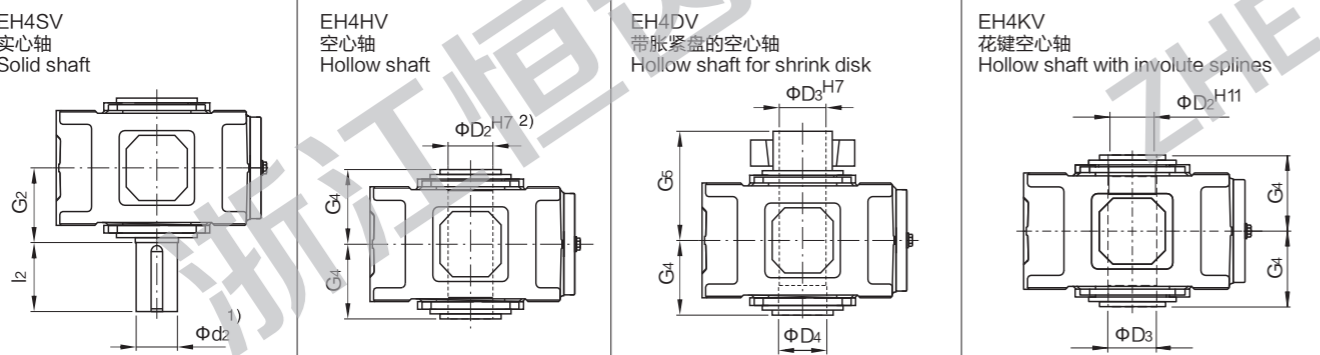
规格 Size	输入轴 Input				G ₁	布置形式 Design G, H, I 仅用于 only for i _N =	
	i _N =100 - 180		i _N =200 - 355			100-224	125-280
	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁			
7 +8	30	50	24	40	180		
9 +10	35	70	28	50	215		
11+12	45	100	32	80	250		

规格 Size	齿轮箱 Gear units														
	b ₁	c	e ₄	E ₁	f ₁	f ₃	h	h ₁	h ₂	h ₃	m ₂	n ₁	p ₁ ⁴⁾	p ₂ ⁴⁾	s
7+8	240	36±1	280	80	37	160	150	205	165	250	430	35	35	330	28
9+10	330	45±1.5	320	90	43	170	185	275	205	330	490	40	40	370	36
11+12	330	54±1.5	380	110	47	170	215	275	240	340	600	50	50	440	40

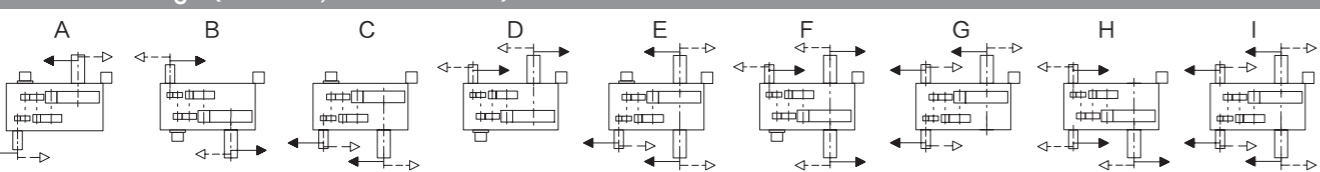
规格 Size	齿轮箱 Gear units							输出轴 Output									
	a	e ₅	e ₆	E	f ₂	m ₁	n ₂	EH4SV		EH4HV		EH4DV			EH4KV		
								d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₃	D ₄	G ₄	G ₅	
7	845	292	425	495	38	775	215	120	195	210	115	195	120	120	195	280	见327-330页 See page 327-330
8	950	302	485	540	41	880	275	130	195	250	125	195	130	130	195	285	
9	1000	342	560	580	41	920	260	140	235	250	135	235	140	145	235	330	
10	1100	342	610	630	35	1020	310	160	235	300	150	235	150	155	235	350	
11	1200	402	595	705	35	1100	295	170	270	300	165	270	165	170	270	400	
12	1355	410	680	775	35	1255	380	180	270	300	180	270	180	185	270	405	

规格 Size	润滑油 Oil		重量 Weight (kg)
	浸油润滑 Dip lubrication (L)	强制润滑 Forced lubrication (L)	
7	50	20	550
8	60	25	645
9	95	38	875
10	110	45	1010
11	165	65	1460
12	180	75	1725

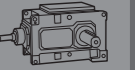
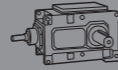
★ 输出轴 Output



布置形式 Design (□法兰泵, □润滑补偿油箱)



1) k6 ≤ φ50 m6 > φ50 有关平键 GB/T1095-1979型和中心孔, 参见第321-322页。For parallel key GB/T1095-1979 and for center hole, see page 321-322.
2) 扭力支撑位于工作机侧。Torque support on driven machine side.
3) 有关油泵、油管和防护盖的安装空间及确切尺寸, 请与我们联系。Space for pump, pipes and cover; for exact dimensions, please refer to us.



平行轴齿轮箱
Helical gear units

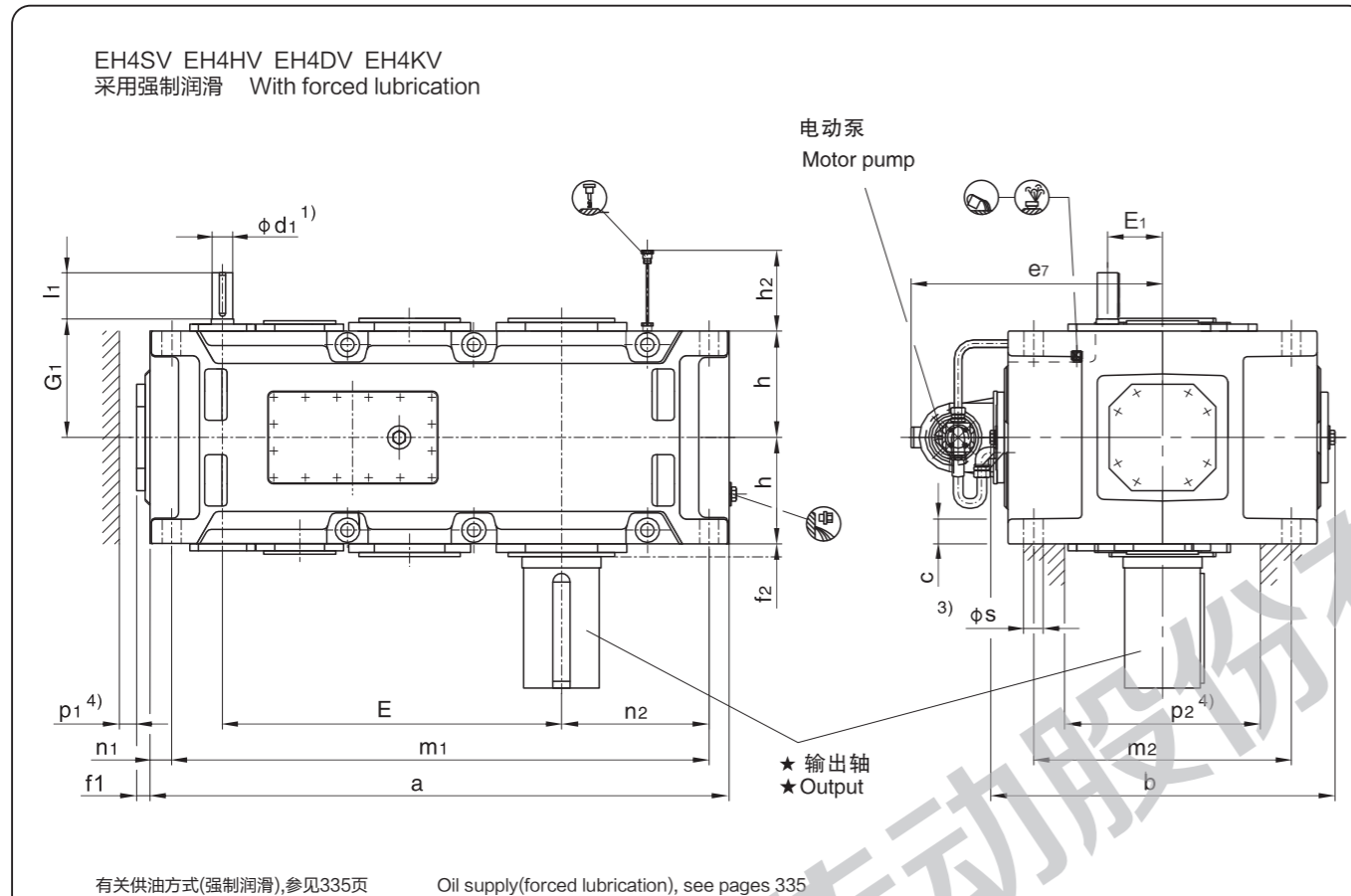
四级传动
Four Stage

立式安装
Vertical

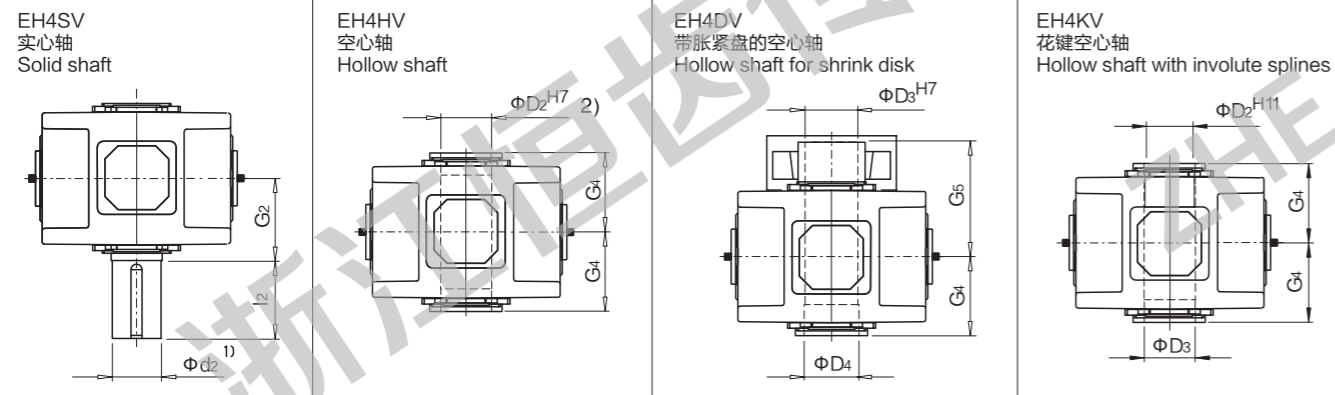
类型 TYPES EH4.V...
规格 SIZES 13...22



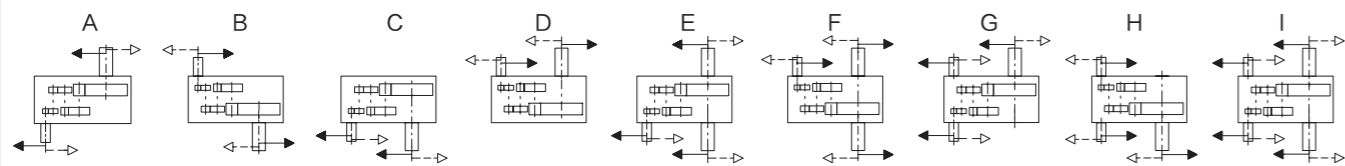
注: 尺寸 mm Note: Dimensions in mm



★ 输出轴 Output



布置形式 Design



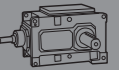
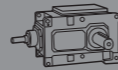
1) $k6 \leq \phi 50$ $m6 > \phi 50$ 有关平键 GB/T1095-1979型和中心孔, 参见第321-322页。For parallel key GB/T1095-1979 and for center hole, see page 321-322.
2) 扭力支撑位于工作机侧。Torque support on driven machine side.
3) 有关油泵、油管和防护盖的安装空间及确切尺寸, 请与我们联系。Space for pump, pipes and cover; for exact dimensions, please refer to us.

规格 Size	输入轴 Input					布置形式 Design G, H, I 仅用于 only for in=	
	in=100-180		in=200-355		G ₁		
	in=112-200		in=224-400				
	in=125-224		in=250-450				
	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	G ₁		
13 +14	50	100	38	80	305	100-250	125-315
15 +16	60	135	50	110	345	100-250	112-280
17 +18	60	105	50	80	380	-	-
19 +20	根据用户要求供货 On request						
21 +22	根据用户要求供货 On request						

规格 Size	齿轮箱 Gear units											
	b	c	E ₁	h	h ₂	m ₂	n ₁	p ₁ ⁴⁾	p ₂ ⁴⁾	s	f ₁	f ₂
13+14	900	61±2	130	272.5	300	680	50	50	500	48	47	38
15+16	980	72±2	160	310	340	750	60	50	570	55	56	38
17+18	1110	81±2	160	340	374	850	70	70	630	55	53	38
19+20	根据用户要求供货 On request											
21+22	根据用户要求供货 On request											

规格 Size	输出轴 Output																			
	齿轮箱 Gear units					EH4SV									EH4HV		EH4DV		EH4KV	
	a	e ₇	E	m ₁	n ₂	d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₃	D ₄	G ₄	G ₅						
13	1395	695	820	1300	360	200	335	350	190	335	190	195	335	480						
14	1535	695	890	1440	430	210	335	350	210	335	210	215	335	480						
15	1680	735	987	1565	430	230	380	410	230	380	230	235	380	550						
16	1770	735	1033	1655	475	240	380	410	240	380	240	245	380	550						
17	1770	795	1035	1640	465	250	415	410	250	415	250	260	415	600						
18	1890	795	1095	1760	525	270	415	470	275	415	280	285	415	600						
19	根据用户要求供货 On request																			
20	根据用户要求供货 On request																			
21	根据用户要求供货 On request																			
22	根据用户要求供货 On request																			

规格 Size	润滑油 Oil (L)	重量 Weight (kg)
13	95	2270
14	105	2600
15	150	3440
16	160	3740
17	190	4445
18	200	4915
19	敬请垂询 On request	
20	敬请垂询 On request	
21	敬请垂询 On request	
22	敬请垂询 On request	



直交轴齿轮箱
Bevel-helical gear units

二级传动
Two Stage

立式安装
Vertical

类型 TYPES EB2.V...
规格 SIZES 1..12



注: 尺寸 mm Note: Dimensions in mm

EB2SV EB2HV EB2DV EB2KV
采用浸油润滑 With dip lubrication

EB2SV EB2HV EB2DV EB2KV
采用强制润滑 With forced lubrication

有关供油方式(浸油或强制润滑),参见335页 Oil supply(dip or forced lubrication), see pages 335

补偿油箱
Oil compensating tank

风扇
Fan

油泵
Pump

★ 输出轴
★ Output

★ 输出轴 Output

EB2SV 实心轴 Solid shaft	EB2HV 空心轴 Hollow shaft	EB2DV 带胀紧盘的空心轴 Hollow shaft for shrink disk	EB2KV 花键空心轴 Hollow shaft with involute splines

布置形式 Design (□法兰泵, □润滑补偿油箱)

1) $k6 \leq \phi 50$ $m6 > \phi 50$ 有关平键 GB/T1095-1979型和中心孔,参见第321-322页。For parallel key GB/T1095-1979 and for center hole, see page 321-322.
2) 扭力支撑位于工作机侧。Torque support on driven machine side.
3) 有关油泵、油管和防护盖的安装空间及确切尺寸, 请与我们联系。Space for pump, pipes and cover; for exact dimensions, please refer to us.

规格 Size	输入轴 Input								冷却风扇 Fan						
	in=5-11.2			in=12.5-18					G ₁	G ₃	G ₁	G ₃	A ₁	B ₁	d ₆
	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃	G ₁	G ₃							
1	28	55	40	20	50	35	300	315			128	130	100		
2	30	70	50	25	60	40	340	360			143	145	110		
3	35	80	60	28	60	40	390	410			163	170	120		
4	45	100	80				465	485	-		188	200	150		
5	+6	55	110	80			535	565	570	600	215	235	160		
7	+8	70	135	105			640	670	685	715	250	285	210		
9	+10	80	165	130			755	790	805	840	270	325	195		
11+12	90	165	130				925	960	995	1030	328	385	210		

规格 Size	齿轮箱 Gear units													
	b ₁	c	e ₃	e ₄	e ₅	f ₂	h	h ₁	h ₂	h ₃	m ₂	n ₁	p _z ⁴⁾	s
1	150	16±1	90	130	145	22	90	165	-	170	210	15	150	12
2	150	20±1	110	145	160	22	102.5	165	-	170	230	20	170	14
3	150	24±1	130	175	185	20	112.5	165	-	180	265	20	200	18
4	150	30±1	160	200	215	25	135	165	-	180	300	30	220	24
5+6	240	30±1	185	230	252	33	160	205	245	240	360	30	270	24
7+8	240	36±1	225	280	302	41	190	205	220	250	430	35	330	28
9+10	330	45±1.5	265	320	342	41	220	275	250	330	490	40	370	36
11+12	330	54±1.5	320	380	410	35	265	275	300	340	600	50	440	40

规格 Size	齿轮箱 Gear units							输出轴 Output								
	a	e ₆	E	f ₃	G ₆	m ₁	n ₂	EB2SV		EB2HV		EB2DV		EB2KV		
	d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₃	D ₄	G ₄	G ₅							
1	305	280	90	-	325	275	115	45	120	80	-	-	-	-	-	
2	355	285	110	-	370	315	120	55	135	110	55	135	60	60	135	180
3	405	290	130	-	420	365	130	65	145	140	65	145	70	70	145	200
4	505	320	160	-	495	445	160	80	170	170	80	170	85	85	170	235
5	565	385	185	190	575	505	175	100	200	210	95	200	100	100	200	275
6	645	425	220	190	610	585	220	110	200	210	105	200	110	110	200	275
7	690	425	225	200	685	620	215	120	235	210	115	235	120	120	235	320
8	795	485	270	200	730	725	275	130	235	250	125	235	130	130	235	325
9	820	560	265	200	805	740	260	140	270	250	135	270	140	145	270	365
10	920	610	315	200	855	840	310	160	270	300	150	270	150	155	270	385
11	975	595	320	200	980	875	295	170	320	300	165	320	165	170	320	450
12	1130	680	390	200	1050	1030	380	180	320	300	180	320	180	185	320	455

规格 Size	润滑油 Oil		重量 Weight (kg)
	浸油润滑 Dip lubrication (L)	强制润滑 Forced lubrication (L)	
1	7	-	65
2	11	-	90
3	16	-	140
4	28	-	235
5	41	20	360
6	50	23	410
7	75	35	615
8	90	38	700
9	115	53	1000
10	135	60	1155
11	190	86	1640
12	215	95	1910

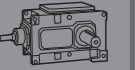
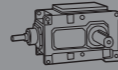
冷却盘管的冷却液接口
Water connection for cooling coil

输出轴
Output

冷却盘管 Cooling coil

规格 Size	m _x	n _x	e _z	S _y	x) L/min
1	64	90	125	G1/4	4
2	78	105	130	G1/4	4
3	58	123	140	G1/2	4
4	74	146	160	G1/2	4
5	130	168	175	G1/2	8
6	120	162	220	G1/2	4
7	140	200	210	G1/2	8
8	140	200	270	G1/2	4
9	232	210	245	G1/2	8
10	150	230	295	G1/2	8
11	312	265	275	G1/2	8
12	300	265	360	G1/2	8

1) 冷却盘管适用于淡水, 海水或有咸味的水。
Cooling coil suitable for fresh, sea or brackish water.
2) x) 所需冷却水量。 Cooling water quantity required.



直交轴齿轮箱
Bevel-helical gear units

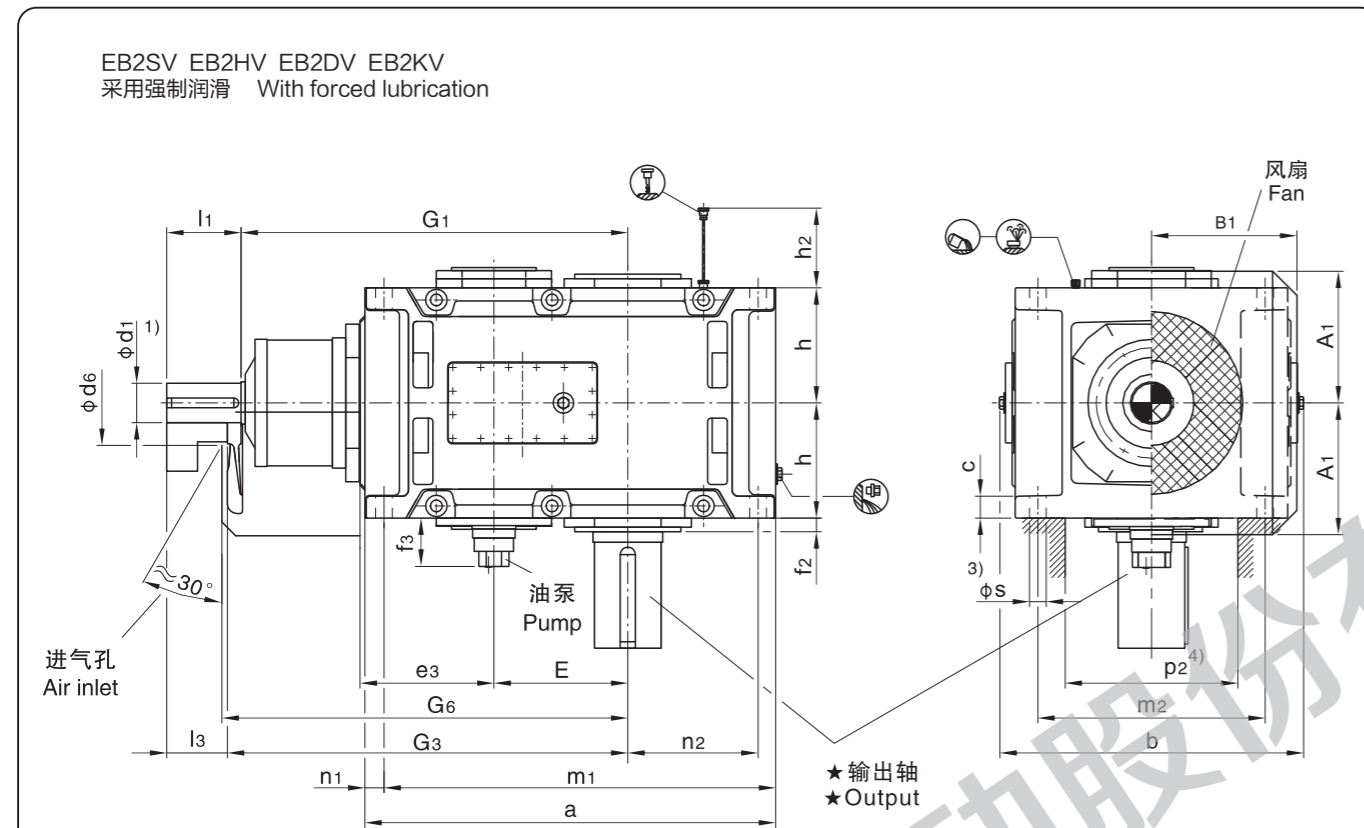
二级传动
Two Stage

立式安装
Vertical

类型 TYPES EB2.V...
规格 SIZES 13...18



注: 尺寸 mm Note: Dimensions in mm

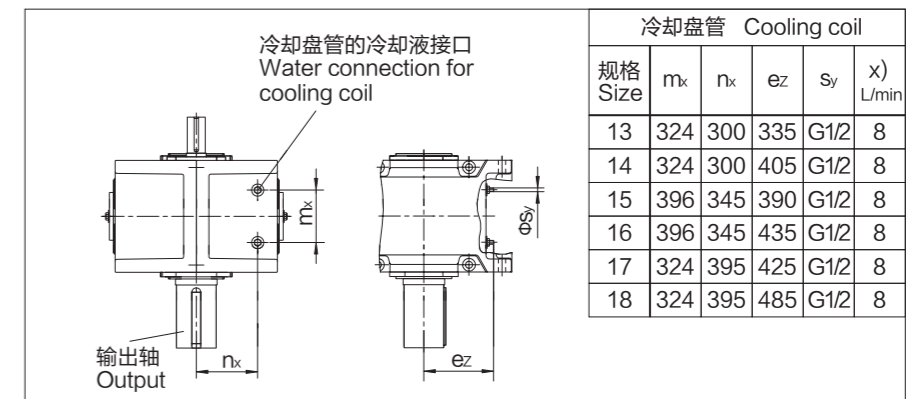


规格 Size	输入轴 Input						冷却风扇 Fan						
	in=5-11.2			in=5.6-11.2			G ₁	G ₃	G ₁	G ₃	A ₁	B ₁	d ₆
	in=6.3-14			in=5.6-12.5									
	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃							
13+14	110	205	165				1070	1110	1140	1180	375	450	245
15	130	245	200				1277	1322	-	-	435	495	280
16				130	245	200	-	-	1323	1368	435	495	280
17				150	245	200	1435	1480	-	-	505	555	380
18	150	245	200				1495	1540	-	-	505	555	380

规格 Size	齿轮箱 Gear units								
	b	c	e ₃	h	h ₂	m ₂	n ₁	p ₂ ⁴⁾	s
13+14	900	61±2	380	325	350	680	50	500	48
15+16	980	72±2	450	380	430	750	60	570	55
17+18	1110	81±2	510	437.5	480	840	70	630	65

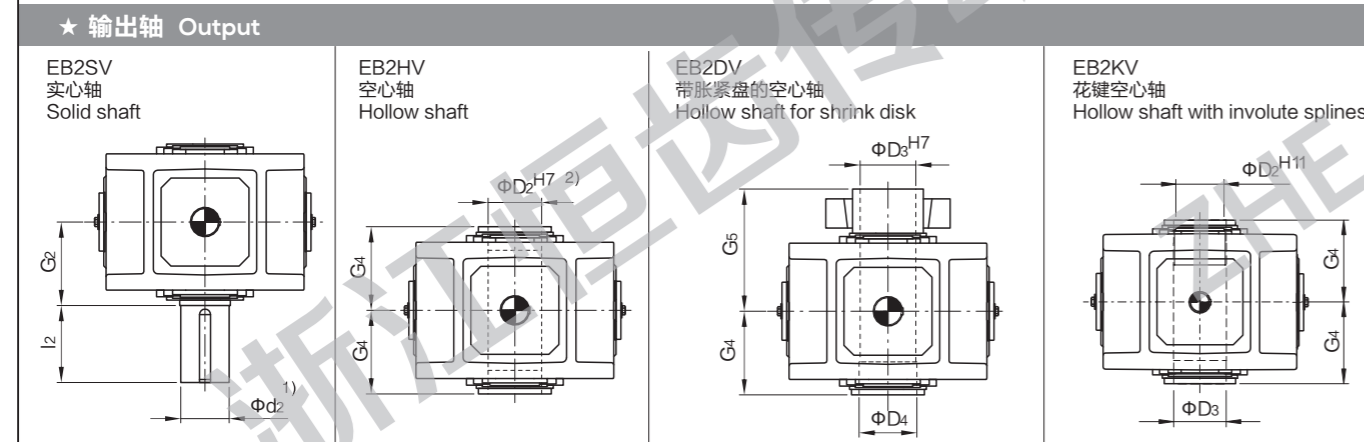
规格 Size	齿轮箱 Gear units						输出轴 Output								
	a	E	f ₂	f ₃	m ₁	n ₂	EB2SV		EB2HV		EB2DV		EB2KV		
							d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₃	D ₄	G ₄	G ₅
13	1130	370	38	200	1035	360	200	390	350	-	-	-	-	-	
14	1270	440	45	200	1175	430	210	390	350	210	390	210	215	390	535
15	1350	442	48	200	1235	430	230	460	410	-	-	-	-	-	
16	1440	488	51	200	1325	475	240	460	410	240	450	240	245	450	620
17	1490	490	62	200	1360	465	250	540	410	-	-	-	-	-	
18	1610	550	62	200	1480	525	270	540	470	275	510	280	285	510	700

规格 Size	润滑油 Oil (L)	重量 Weight (kg)
13	100	2350
14	110	2725
15	145	3795
16	160	4160
17	210	5320
18	220	5860

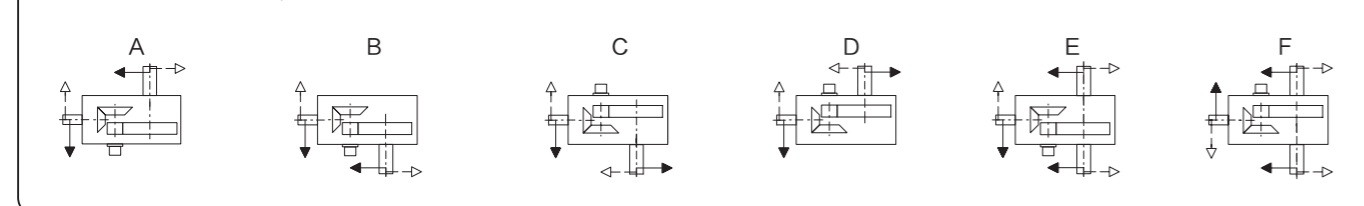


1)冷却盘管适用于淡水, 海水或有咸味的水。
Cooling coil suitable for fresh, sea or brackish water.
2)x)所需冷却水量。 Cooling water quantity required.

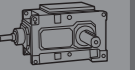
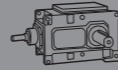
有关供油方式(强制润滑),参见335页 Oil supply(forced lubrication), see pages 335



布置形式 Design (法兰泵)



1)k6 ≤ φ50 m6 > φ50 有关平键 GB/T1095-1979型和中心孔,参见第321-322页。 For parallel key GB/T1095-1979 and for center hole,see page 321-322.
2)扭力支撑位于工作机侧。 Torque support on driven machine side.
3)有关油泵、油管和防护盖的安装空间及确切尺寸, 请与我们联系。 Space for pump,pipes and cover;for exact dimensions,please refer to us.



直交轴齿轮箱
Bevel-helical gear units

三级传动
Three Stage

立式安装
Vertical

类型 TYPES EB3.V...
规格 SIZES 3...12



注: 尺寸 mm Note: Dimensions in mm

EB3SV EB3HV EB3DV EB3KV
采用浸油润滑 With dip lubrication

EB3SV EB3HV EB3DV EB3KV
采用强制润滑 With forced lubrication

有关供油方式(浸油润滑或强制润滑),参见335页 Oil supply(dip or forced lubrication), see pages 335

补油油箱
Oil compensating tank

风扇
Fan

★输出轴
★Output

★输出轴 Output

EB3SV
实心轴
Solid shaft

EB3HV
空心轴
Hollow shaft

EB3DV
带胀紧套的空心轴
Hollow shaft for shrink disk

EB3KV
花键空心轴
Hollow shaft with involute splines

布置形式 Design (□法兰泵, □润滑补偿油箱)

规格 Size	输入轴 Input									冷却风扇 Fan						
	in=12.5-45			in=20-45			in=50-71									
	in=16-56			in=63-90												
	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3	G1	G3	G1	G3	A1	B1	d6
3				28	55	40	20	50	35	430	445			128	170	90
4	30	70	50				25	60	40	500	520			143	200	110
5 +6	35	80	60				28	60	40	575	595	610	630	168	235	130
7 +8	45	100	80				35	80	60	690	710	735	755	193	275	165
9 +10	55	110	80				40	100	70	800	830	850	880	231	325	175
11 +12	70	135	105				50	110	80	960	990	1030	1060	263	385	190

规格 Size	齿轮箱 Gear units												
	b1	c	e3	e4	h	h1	h2	h3	m2	n1	p2 ⁴⁾	s	f3
3	150	24 ± 1	90	175	95	165	-	180	265	20	210	18	-
4	150	30 ± 1	110	200	107.5	165	-	180	300	30	220	24	-
5 + 6	240	30 ± 1	130	230	127.5	205	180	240	360	30	270	24	190
7 + 8	240	36 ± 1	160	280	150	205	165	250	430	35	330	28	190
9 + 10	330	45 ± 1.5	185	320	185	275	205	330	490	40	370	36	180
11 + 12	330	54 ± 1.5	225	380	215	275	240	340	600	50	440	40	180

规格 Size	齿轮箱 Gear units								输出轴 Output								
	a	e5	e6	E	f2	G6	m1	n2	EB3SV		EB3HV		EB3DV		EB3KV		
									d2 ¹⁾	G2	l2	D2 ²⁾	G4	D3	D4	G4	G5
3	450	185	290	220	20	455	410	125	65	125	140	65	125	70	70	125	180
4	565	215	320	270	25	530	505	160	80	140	170	80	140	85	85	140	205
5	640	252	385	315	33	605	580	175	100	165	210	95	165	100	100	165	240
6	720	252	425	350	33	640	660	220	110	165	210	105	165	110	110	165	240
7	785	292	425	385	38	720	715	215	120	195	210	115	195	120	120	195	280
8	890	302	485	430	41	765	820	275	130	195	250	125	195	130	130	195	285
9	925	342	560	450	41	845	845	260	140	235	250	135	235	140	145	235	330
10	1025	342	610	500	35	895	945	310	160	235	300	150	235	150	155	235	350
11	1105	402	595	545	35	1010	1005	295	170	270	300	165	270	165	170	270	400
12	1260	410	680	615	35	1080	1160	380	180	270	300	180	270	180	185	270	405

规格 Size	润滑油 Oil		重量 Weight (kg)
	浸油润滑 Dip lubrication (L)	强制润滑 Forced lubrication (L)	
3	15	-	130
4	28	-	210
5	32	12	325
6	35	13	380
7	52	22	550
8	67	28	635
9	115	48	890
10	125	52	1020
11	180	75	1455
12	200	85	1730

冷却盘管的冷却液接口
Water connection for cooling coil

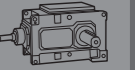
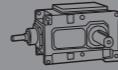
输出轴
Output

冷却盘管 Cooling coil

规格 Size	mx	nx	ez	Sy	x) L/min
3	34	120	130	G1/2	4
4	34	140	155	G1/2	4
5	68	166	170	G1/2	4
6	70	162	215	G1/2	4
7	100	197	210	G1/2	4
8	100	197	270	G1/2	4
9	140	210	245	G1/2	8
10	100	225	295	G1/2	8
11	110	285	275	G1/2	8
12	200	271	360	G1/2	8

1)冷却盘管适用于淡水, 海水或有咸味的水。
Cooling coil suitable for fresh, sea or brackish water.
2)x)所需冷却水量。 Cooling water quantity required.

1)k6 ≤ φ50 m6 > φ50 有关键 GB/T1095-1979型和中心孔,参见第321-322页。 For parallel key GB/T1095-1979 and for center hole, see page 321-322.
2)扭力支撑位于工作机侧。 Torque support on driven machine side.
3)有关油泵、油管和防护盖的安装空间及确切尺寸, 请与我们联系。 Space for pump, pipes and cover; for exact dimensions, please refer to us.



直交轴齿轮箱
Bevel-helical gear units

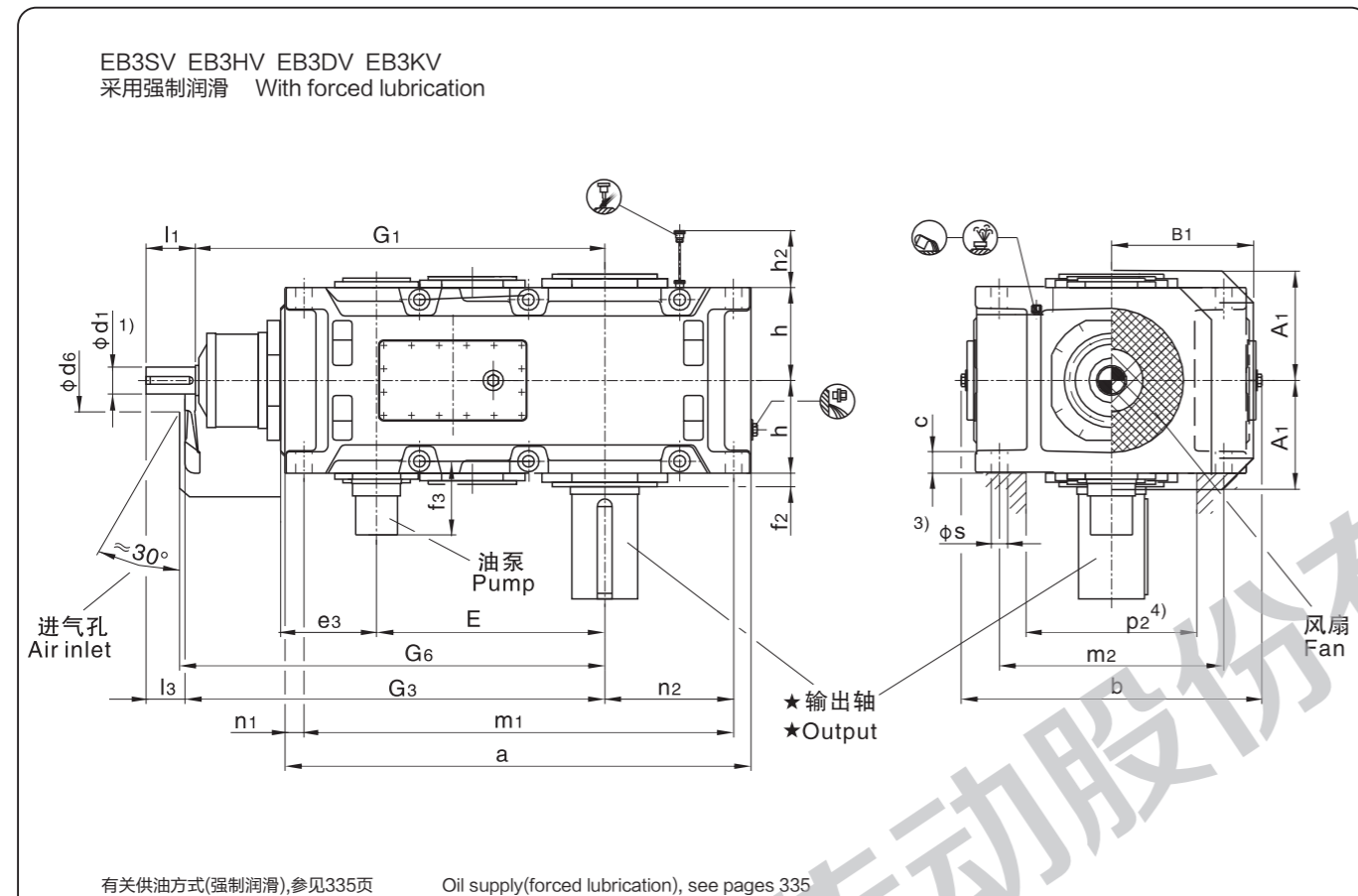
三级传动
Three Stage

立式安装
Vertical

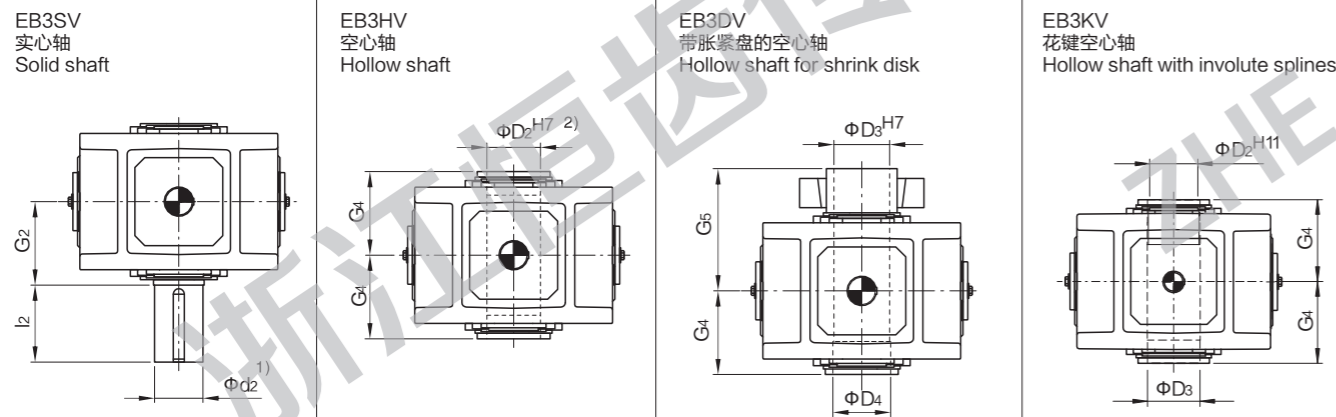
类型 TYPES EB3.V...
规格 SIZES 13...22



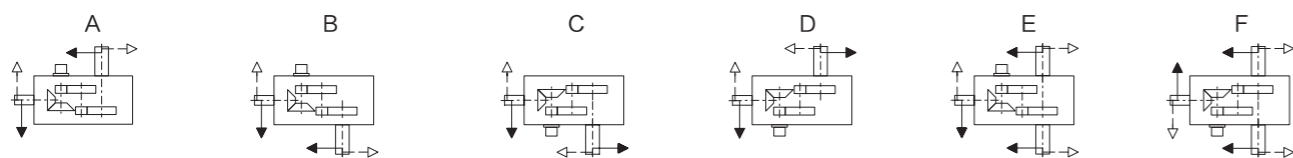
注: 尺寸 mm Note: Dimensions in mm



★ 输出轴 Output



布置形式 Design (法兰泵)



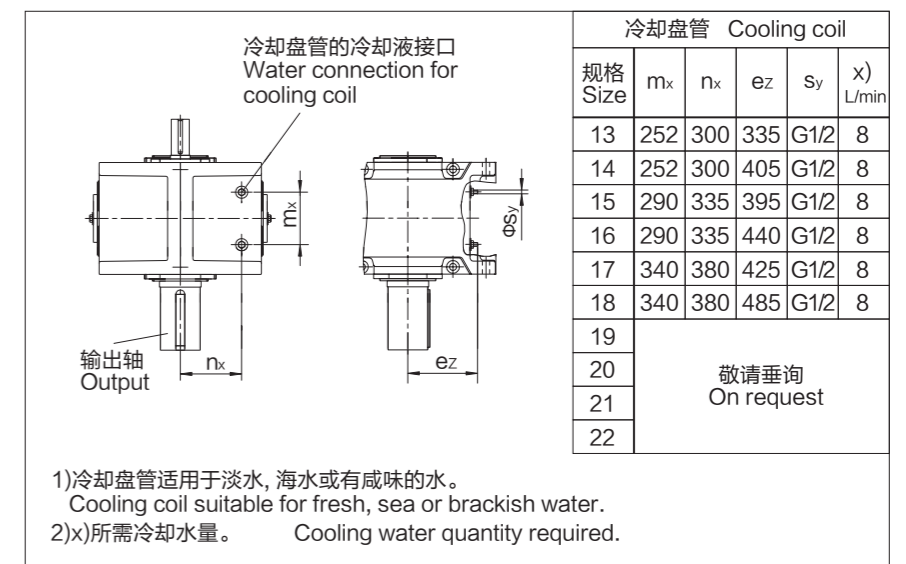
1) $k6 \leq \phi 50$ $m6 > \phi 50$ 有关平键 GB/T1095-1979型和中心孔, 参见第321-322页。For parallel key GB/T1095-1979 and for center hole, see page 321-322.
2) 扭力支撑位于工作机侧。Torque support on driven machine side.
3) 有关油泵、油管和防护盖的安装空间及确切尺寸, 请与我们联系。Space for pump, pipes and cover; for exact dimensions, please refer to us.

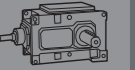
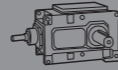
规格 Size	输入轴 Input						冷却风扇 Fan						
	$i_N=12.5-45$			$i_N=50-71$			G_1	G_3	G_1	G_3	A_1	B_1	d_6
	$i_N=14-50$			$i_N=56-80$									
	$i_N=16-56$			$i_N=63-90$									
$d_1^{1)}$	l_1	l_3	$d_1^{1)}$	l_1	l_3	G_1	G_3	G_1	G_3	A_1	B_1	d_6	
13 +14	80	165	130	60	140	105	1125	1160	1195	1230	325	435	210
15 +16	90	165	130	70	140	105	1367	1402	1413	1448	365	520	210
17 +18	110	205	165	80	170	130	1560	1600	1620	1660	395	570	230
19 +20	根据用户要求供货 On request												
21 +22	根据用户要求供货 On request												

规格 Size	齿轮箱 Gear units										
	b	c	e_3	f_2	f_3	h	h_2	m_2	n_1	$p_2^{4)}$	s
13+14	900	61 ± 2	265	38	170	272.5	300	680	50	500	48
15+16	980	72 ± 2	320	38	170	310	340	750	60	570	55
17+18	1110	81 ± 2	370	38	170	340	380	850	70	630	55
19+20	根据用户要求供货 On request										
21+22	根据用户要求供货 On request										

规格 Size	齿轮箱 Gear units					输出轴 Output								
	a	E	G_6	m_1	n_2	EB3SV		EB3HV		EB3DV			EB3KV	
	$d_2^{1)}$	G_2	l_2	$D_2^{2)}$	G_4	D_3	D_4	G_4	G_5					
13	1290	635	1180	1195	360	200	335	350	190	335	190	195	335	480
14	1430	705	1250	1335	430	210	335	350	210	335	210	215	335	480
15	1550	762	1420	1435	430	230	380	410	230	380	230	235	380	550
16	1640	808	1470	1525	475	240	380	410	240	380	240	245	380	550
17	1740	860	1620	1610	465	250	415	410	250	415	250	260	415	600
18	1860	920	1680	1730	525	270	415	470	275	415	280	285	415	600
19	根据用户要求供货 On request													
20	根据用户要求供货 On request													
21	根据用户要求供货 On request													
22	根据用户要求供货 On request													

规格 Size	润滑油 Oil (L)	重量 Weight (kg)
13	95	2260
14	110	2615
15	165	3540
16	190	3765
17	210	4760
18	240	5240
19	敬请垂询 On request	
20	敬请垂询 On request	
21	敬请垂询 On request	
22	敬请垂询 On request	





直交轴齿轮箱
Bevel-helical gear units

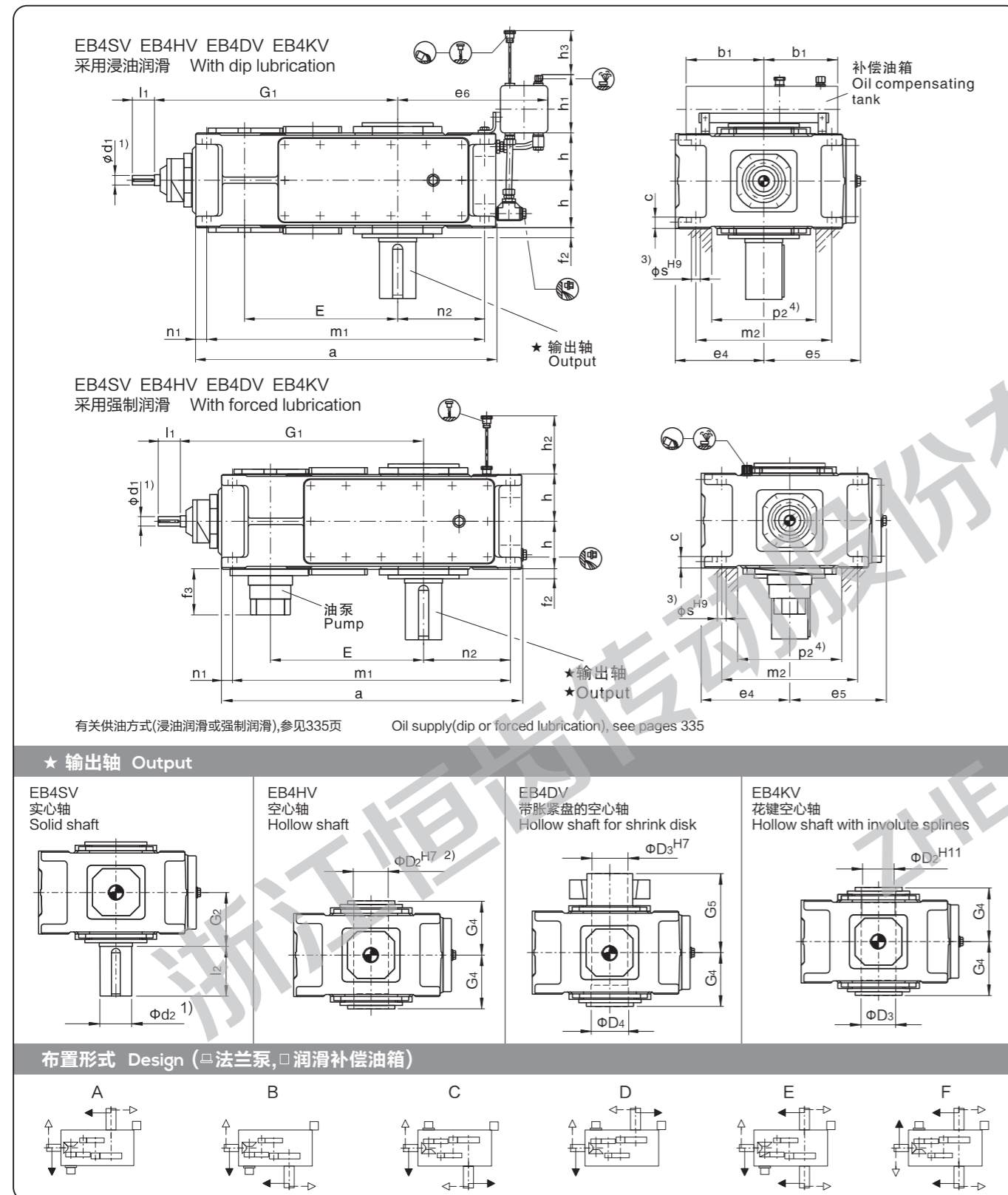
四级传动
Four Stage

立式安装
Vertical

类型 TYPES EB4.V...
规格 SIZES 5...12



注: 尺寸 mm Note: Dimensions in mm



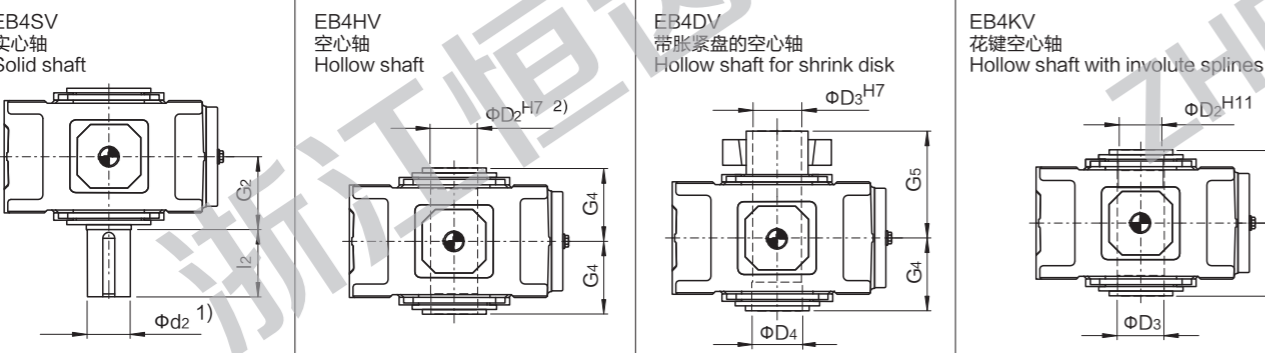
规格 Size	输入轴 Input				G ₁	G ₁
	i _N =80 - 180		i _N =200 - 315			
	i _N =100 - 224		i _N =250 - 400			
	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁		
5 +6	28	55	20	50	615	650
7 +8	30	70	25	60	725	770
9 +10	35	80	28	60	840	890
11 +12	45	100	35	80	1010	1080

规格 Size	齿轮箱 Gear units											
	b ₁	c	e ₄	h	h ₁	h ₂	h ₃	m ₂	n ₁	p ₂ ⁴⁾	s	f ₃
5+6	240	30 ± 1	230	127.5	205	190	240	360	30	270	24	200
7+8	240	36 ± 1	280	150	205	165	250	430	35	330	28	120
9+10	330	45 ± 1.5	320	185	275	205	330	490	40	370	36	120
11+12	330	55 ± 1.5	380	215	275	240	340	600	50	440	40	130

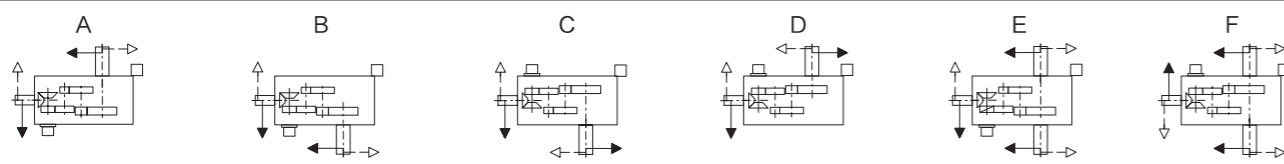
规格 Size	齿轮箱 Gear units							输出轴 Output								
	a	e ₅	e ₆	E	f ₂	m ₁	n ₂	EB4SV		EB4HV		EB4DV			EB4KV	
								d ₂ ¹⁾	G ₂	l ₂	D ₂ ²⁾	G ₄	D ₃	D ₄	G ₄	G ₅
5	690	252	385	405	28	630	175	100	165	210	95	165	100	100	165	240
6	770	252	425	440	28	710	220	110	165	210	105	165	110	110	165	240
7	845	292	425	495	30	775	215	120	195	210	115	195	120	120	195	280
8	950	302	485	540	32	880	275	130	195	250	125	195	130	130	195	285
9	1000	342	560	580	32	920	260	140	235	250	135	235	140	145	235	330
10	1100	342	610	630	32	1020	310	160	235	300	150	235	150	155	235	350
11	1200	402	595	705	35	1100	295	170	270	300	165	270	165	170	270	400
12	1355	410	680	775	35	1255	380	180	270	300	180	270	180	185	270	405

规格 Size	润滑油 Oil		重量 Weight (kg)
	浸油润滑 Dip lubrication (L)	强制润滑 Forced lubrication (L)	
5	36	15	335
6	40	16	385
7	60	30	555
8	70	35	655
9	110	60	890
10	130	67	1025
11	180	75	1485
12	195	85	1750

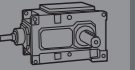
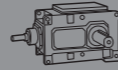
★ 输出轴 Output



布置形式 Design (□法兰泵, □润滑补偿油箱)



1) k6 ≤ φ50 m6 > φ50 有关平键 GB/T1095-1979型和中心孔, 参见第321-322页。For parallel key GB/T1095-1979 and for center hole, see page 321-322.
2) 扭力支撑位于工作机侧。Torque support on driven machine side.
3) 有关油泵、油管和防护盖的安装空间及确切尺寸, 请与我们联系。Space for pump, pipes and cover; for exact dimensions, please refer to us.



直交轴齿轮箱
Bevel-helical gear units

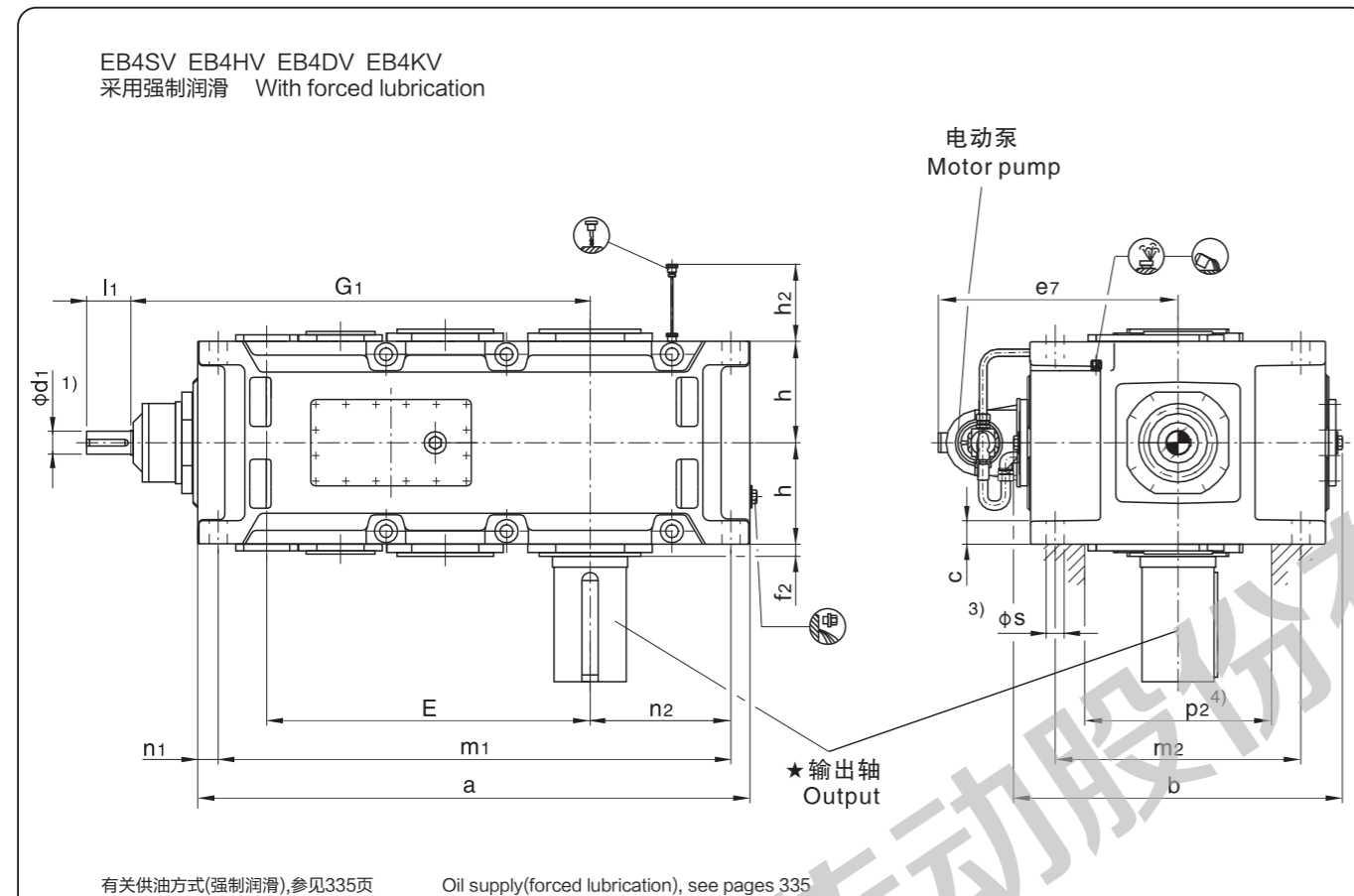
四级传动
Four Stage

立式安装
Vertical

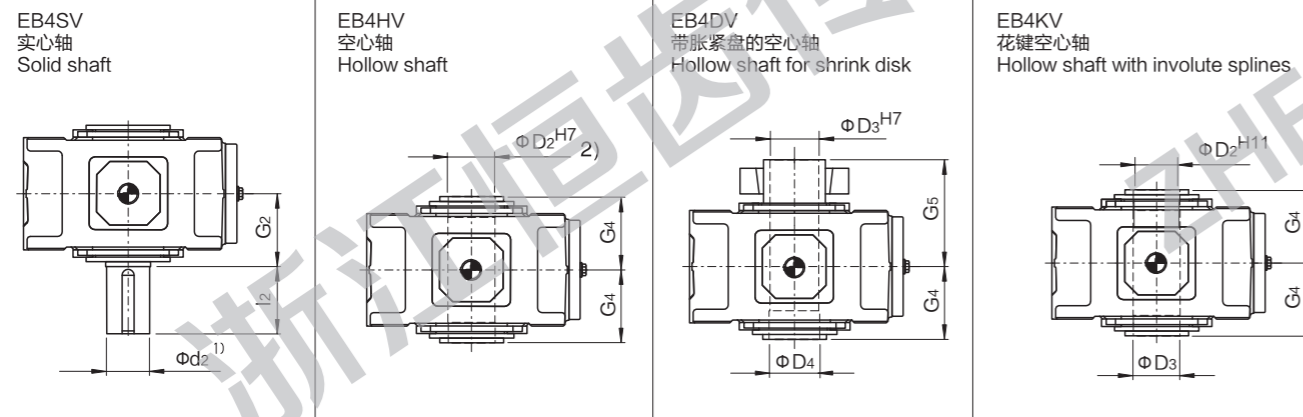
类型 TYPES EB4.V...
规格 SIZES 13...22



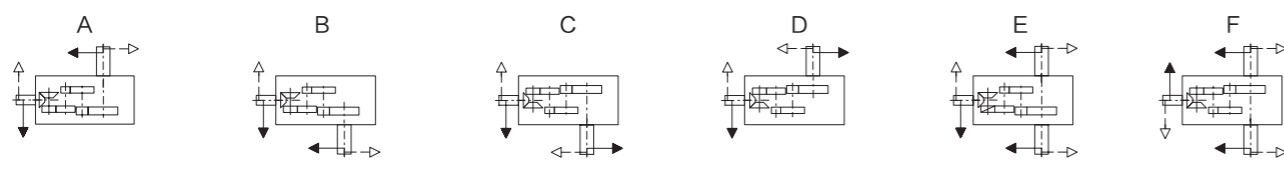
注: 尺寸 mm Note: Dimensions in mm



★输出轴 Output



布置形式 Design



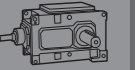
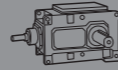
1) $k6 \leq \phi 50$ $m6 > \phi 50$ 有关平键 GB/T1095-1979型和中心孔,参见第321-322页。For parallel key GB/T1095-1979 and for center hole, see page 321-322.
2) 扭力支撑位于工作机侧。Torque support on driven machine side.
3) 有关油泵、油管和防护盖的安装空间及确切尺寸, 请与我们联系。Space for pump, pipes and cover; for exact dimensions, please refer to us.

规格 Size	输入轴 Input					
	$i_N=80-180$		$i_N=200-315$		G_1	G_1
	$i_N=90-200$		$i_N=224-355$			
	$i_N=100-224$		$i_N=250-400$			
	$d_1^{1)}$	l_1	$d_1^{1)}$	l_1	G_1	G_1
13 +14	55	110	40	100	1170	1240
15 +16	70	135	50	110	1402	1448
17 +18	70	135	50	110	1450	1510
19 +20	敬请垂询 On request					
21 +22	敬请垂询 On request					

规格 Size	齿轮箱 Gear units								
	b	c	h	h_2	m_2	n_1	$p_2^{4)}$	s	f_2
13+14	900	61 ± 2	272.5	300	680	50	500	48	38
15+16	980	72 ± 2	310	340	750	60	570	55	38
17+18	1110	81 ± 2	340	374	850	70	630	55	38
19+20	敬请垂询 On request								
21+22	敬请垂询 On request								

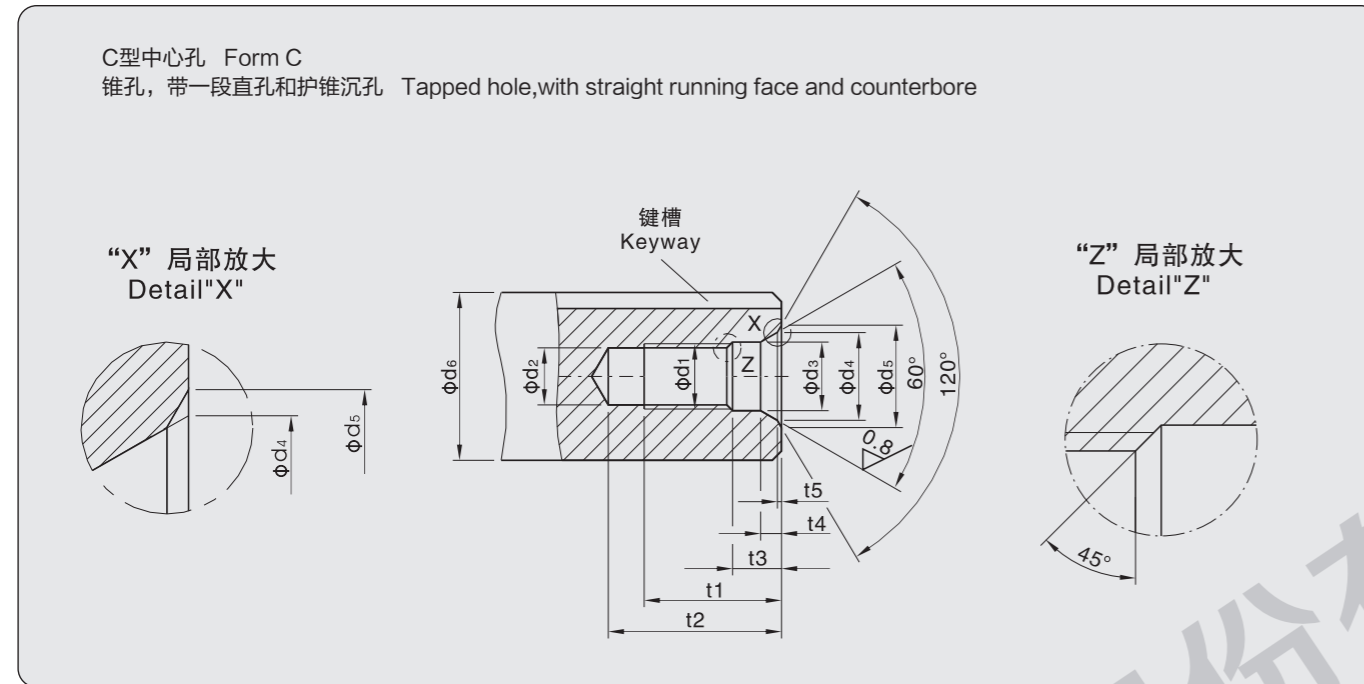
规格 Size	齿轮箱 Gear units					输出轴 Output								
	a	e_7	E	m_1	n_2	EB4SV			EB4HV		EB4DV			EB4KV
						$d_2^{1)}$	G_2	l_2	$D_2^{2)}$	G_4	D_3	D_4	G_4	G_5
13	1395	695	820	1300	360	200	335	350	190	335	190	195	335	480
14	1535	695	890	1440	430	210	335	350	210	335	210	215	335	480
15	1680	735	987	1565	430	230	380	410	230	380	230	235	380	550
16	1770	735	1033	1655	475	240	380	410	240	380	240	245	380	550
17	1770	795	1035	1640	465	250	415	410	250	415	250	260	415	600
18	1890	795	1095	1760	525	270	415	470	275	415	280	285	415	600
19	敬请垂询 On request													
20	敬请垂询 On request													
21	敬请垂询 On request													
22	敬请垂询 On request													

规格 Size	润滑油 Oil (L)	重量 Weight (kg)
13	130	2280
14	150	2605
15	200	3435
16	235	3765
17	215	4460
18	250	4930
19	敬请垂询 On request	
20	敬请垂询 On request	
21	敬请垂询 On request	
22	敬请垂询 On request	



齿轮箱
Gear units

C型轴端中心孔, 符合GB145-1985标准
Centre Holes, Form C in Shaft Ends GB145-1985



推荐尺寸 Recommended diameters		C型 Form C											
d6 ¹⁾		C中心孔 C-Centering	d1	d2	d3	d4	d5	t1 +2	t2		t3 +1	t4 -	t5 -
大于 above	至 to								mm	min.			
16	21	C 6	M6	5	6.4	9.6	10.5	16	20	22	5	2.8	0.4
21	24	C 8	M8	6.8	8.4	12.2	13.2	19	25	28	6	3.3	0.4
24	30	C 10	M10	8.5	10.5	14.9	16.3	22	30	34	7.5	3.8	0.6
30	38	C 12	M12	10.2	13	18.1	19.8	28	37	42	9.5	4.4	0.7
38	50	C 16	M16	14	17	23	25.3	36	45	50	12	5.2	1.0
50	85	C 20	M20	17.5	21	28.4	31.3	42	53	59	15	6.4	1.3
85	130	C 24	M24	21	25	34.2	38	50	63	68	18	8	1.6
130*	225*	C 30	M30*	26.5	31	44	48	60	77	83	17	11	1.9
225*	320*	C 36	M36*	32	37	55	60	74	93	99	22	15	2.3
320*	500*	C 42	M42*	37.5	43	65	71	84	105	111	26	19	2.7

1) 工件加工后最终尺寸。Diameter of the finished work piece.
*) 不是根据GB145-1985确定的尺寸。Dimensions not acc. to GB145-1985.

齿轮箱
Gear units

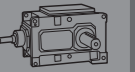
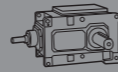
选择 ISO 配合精度
Selection of IOS fits

平键和键槽
Parallel keys and keyways

	轴端螺纹孔 Centre holes in shaft end									
轴径 Φd Diameter	$\geq 16-21$	$> 21-24$	$> 24-30$	$> 30-38$	$> 38-50$	$> 50-85$	$> 85-130$	$> 130-225$	$> 225-320$	$> 320-500$
螺孔尺寸 Screw	M6 \times 12	M8 \times 16	M10 \times 20	M12 \times 25	M16 \times 35	M20 \times 40	M24 \times 50	M30 \times 60	M36 \times 70	M42 \times 80

平键 Parallel keys						
平键紧固方式, 采用无锥度联接。 Drive type fastening without taper action	直径 Diameter Φd		宽度 1) Width 1) b 1) mm	高度 Height h mm	轴键槽深度 Depth of keyway in shaft t1 mm	轮毂键槽深度 Depth of keyway in hub d+t2 GB/T1095-1979 mm
	大于 Above mm	至 To mm				
平键和键槽根据 GB/T1095-1979 标准确定。 Parallel key and keyway acc. to GB/T1095-1979	17	22	6	6	3.5	d+2.8
	22	30	8	7	4	d+3.3
	30	38	10	8	5	d+3.3
	38	44	12	8	5	d+3.3
	44	50	14	9	5.5	d+3.8
	50	58	16	10	6	d+4.3
	58	65	18	11	7	d+4.4
	65	75	20	12	7.5	d+4.9
	75	85	22	14	9	d+5.4
	85	95	25	14	9	d+5.4
	95	110	28	16	10	d+6.4
	110	130	32	18	11	d+7.4
	130	150	36	20	12	d+8.4
	150	170	40	22	13	d+9.4
	170	200	45	25	15	d+10.4
	200	230	50	28	17	d+11.4
230	260	56	32	20	d+12.4	
260	290	63	32	20	d+12.4	
290	330	70	36	22	d+14.4	
330	380	80	40	25	d+15.4	
380	440	90	45	28	d+17.4	

1) 重载工作条件下轮毂平键键槽宽度 b 的公差带应按 ISO JS9 或 ISO P9 确定。
1) The tolerance zone for the hub keyway width b for parallel keys is ISO JS9, or ISO P9 for heavy-duty operating conditions.

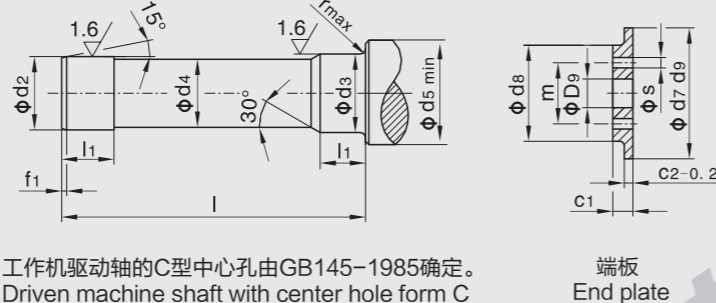
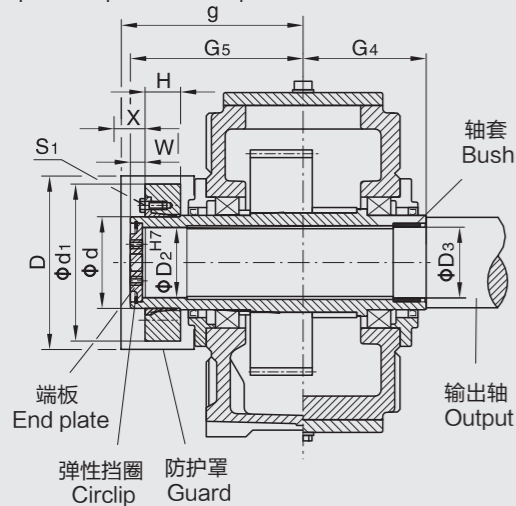


齿轮箱 Gear units **带胀紧盘的空心轴 Hollow Shaft For Shrink Disk**

类型 TYPES EH2,EH3,EH4,EB3,EB4
规格 SIZES 3...26

X= 要求预留的力矩扳手空间
X= Space required for torque wrench

用于胀紧盘联接的工作机驱动轴。
工作机驱动轴表面不得沾有有机油或润滑油。
Driven machine shaft for shrink disk connection.
Driven machine shaft must be free of oil or grease.



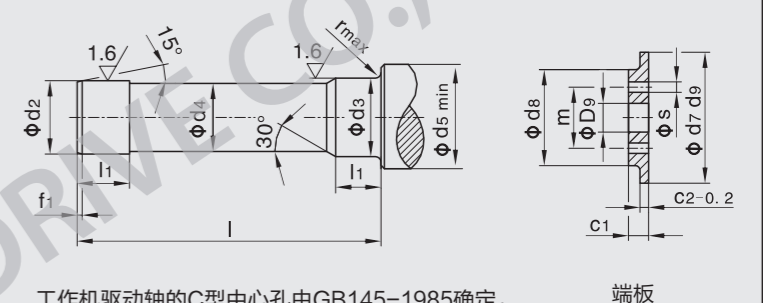
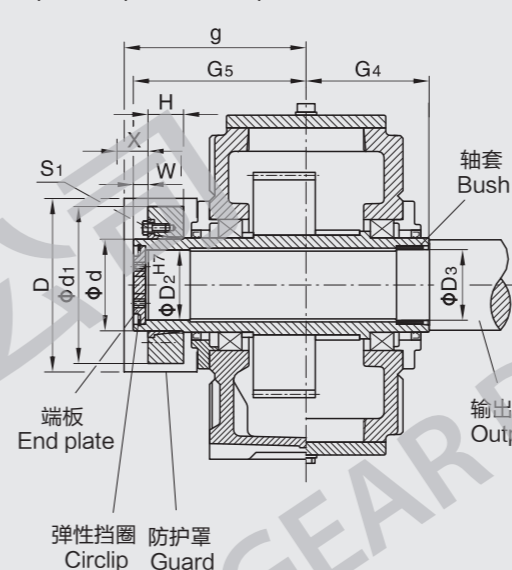
工作机驱动轴的C型中心孔由GB145-1985确定。
Driven machine shaft with center hole form C acc. to GB145-1985

齿轮箱 Gear units **带胀紧盘的空心轴 Hollow Shaft For Shrink Disk**

类型 TYPES EB2D.
规格 SIZES 2...18

X= 要求预留的力矩扳手空间
X= Space required for torque wrench

用于胀紧盘联接的工作机驱动轴。
工作机驱动轴表面不得沾有有机油或润滑油。
Driven machine shaft for shrink disk connection.
Driven machine shaft must be free of oil or grease.



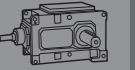
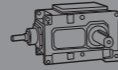
工作机驱动轴的C型中心孔由GB145-1985确定。
Driven machine shaft with center hole form C acc. to GB145-1985

齿轮箱规格 Gear unit size	类型 EH2D,EH3D,EH4D,EB3D,EB4D														Types EH2D,EH3D,EH4D,EB3D,EB4D													
	工作机驱动轴 ²⁾ Driven machine shaft							端板 End plate							弹性挡圈 Ring Circlip	空心轴 Hollow shaft				胀紧盘 ¹⁾ Shrink disk				螺钉 Screw				
	d2	d3	d4	d5	f1	l	l1	r	c1	c2	d7	d8	D9	m		s	数量 Qty.	GB89/ 3.2-86	D2	D3	G4	G5	类型 Type		d	d1	H	W
	mm																											
3	70g6	70g6	69.5	80	4	286	38	2	17	7	75	55	22	40	M8	2	75x2.5	70	70	125	180	90-32	90	155	38	20	M10	
4	85g6	85h6	84.5	95	4	326	48	2	17	7	90	70	22	50	M8	2	90x3	85	85	140	205	110-32	110	185	49	20	M12	
5	100g6	100h6	99.5	114	5	383	53	2	20	8	105	80	26	55	M10	2	105x4	100	100	165	240	125-32	125	215	53	20	M12	
6	110g6	110h6	109.5	124	5	383	58	3	20	8	115	85	26	60	M10	2	115x4	110	110	165	240	140-32	140	230	58	20	M14	
7	120g6	120h6	119.5	134	5	453	68	3	20	8	125	90	26	65	M12	2	125x4	120	120	195	280	155-32	155	263	62	23	M14	
8	130g6	130h6	129.5	145	6	458	73	3	20	8	135	100	26	70	M12	2	135x4	130	130	195	285	165-32	165	290	68	23	M16	
9	140g6	145m6	139.5	160	6	539	82	4	23	10	150	110	33	80	M12	2	150x4	140	145	235	330	175-32	175	300	68	28	M16	
10	150g6	155m6	149.5	170	6	559	92	4	23	10	160	120	33	90	M12	2	160x4	150	155	235	350	200-32	200	340	85	28	M16	
11	165f6	170m6	164.5	185	7	644	112	4	23	10	175	130	33	90	M12	2	175x4	165	170	270	400	220-32	220	370	103	30	M20	
12	180f6	185m6	179.5	200	7	649	122	4	23	10	190	140	33	100	M16	2	190x4	180	185	270	405	240-32	240	405	107	30	M20	
13	190f6	195m6	189.5	213	7	789	137	5	23	10	200	150	33	110	M16	2	200x4	190	195	335	480	260-32	260	430	119	30	M20	
14	210f6	215m6	209.5	233	8	784	147	5	28	14	220	170	33	130	M16	2	220x5	210	215	335	480	280-32	280	460	132	30	M20	
15	230f6	235m6	229.5	253	8	899	157	5	28	14	240	180	39	140	M16	2	240x5	230	235	380	550	300-32	300	485	140	35	M24	
16	240f6	245m6	239.5	263	8	899	157	5	28	14	250	190	39	150	M20	2	250x5	240	245	380	550	320-32	320	520	140	35	M24	
17	250f6	260m6	249.5	278	8	982	177	5	30	14	265	200	39	150	M20	2	265x5	250	260	415	600	340-32	340	570	155	35	M24	
18	280f6	285m6	279.5	306	9	982	177	5	30	14	290	210	39	160	M20	2	290x5	280	285	415	600	360-32	360	590	162	35	M24	
19	285f6	295m6	284.5	316	9	1100	187	5	32	15	300	220	39	170	M24	2	300x5	285	295	465	670	380-32	380	640	166	40	M27	
20	310f6	315m6	309.5	336	9	1100	187	5	32	15	320	230	39	180	M24	2	320x6	310	315	465	670	390-32	390	650	166	40	M27	
21	330f6	335m6	329	358	9	1160	205	5	40	20	340	250	45	190	M24	2	340x6	330	335	490	715	420-32	420	670	186	45	M27	
22	340f6	345m6	339	368	9	1170	215	5	40	20	350	260	45	200	M24	2	350x6	340	345	490	725	440-32	440	720	194	45	M27	
23	根据用户要求供货 On request																											
24	根据用户要求供货 On request																											
25	根据用户要求供货 On request																											
26	根据用户要求供货 On request																											

1)胀紧盘不在我们的供货范围之内。如有需要,请另行订货。 Shrink disk does not belong to our scope of supply. Please order separately, if required.
2)工作机驱动轴材质:40Cr或强度更高的钢。根据用户要求,胀紧盘可布置在工作机侧。工作机驱动轴尺寸函索即复。
Material of driver machine shaft:40Cr or higher strength. Shrink disk on machine side on request. Shrink disk is supplied as loose item.
Dimensions of machine shaft on request.

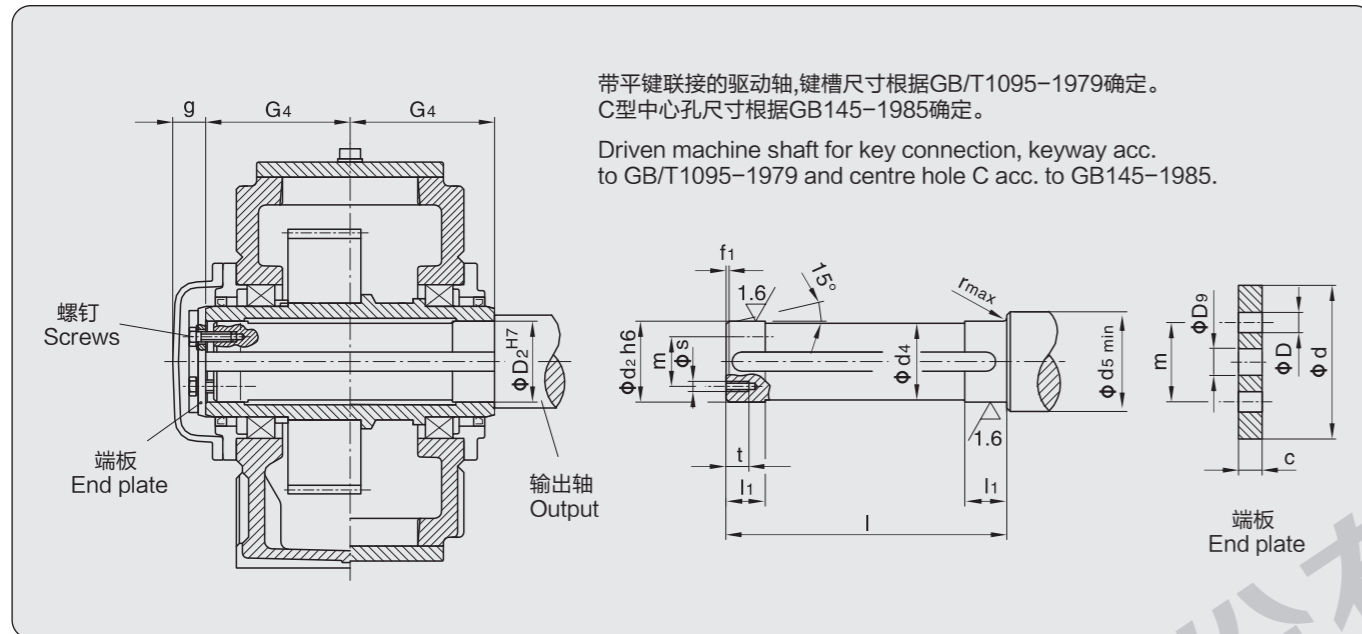
齿轮箱规格 Gear unit size	类型 EB2D														Type EB2D.														
	工作机驱动轴 ²⁾ Driven machine shaft							端板 End plate							弹性挡圈 Ring Circlip	空心轴 Hollow shaft				胀紧盘 ¹⁾ Shrink disk				螺钉 Screw	防护罩 Guard				
	d2	d3	d4	d5	f1	l	l1	r	c1	c2	d7	d8	D9	m		s	数量 Qty.	GB89/ 3.2-86	D2	D3	G4	G5	类型 Type			d	d1	H	W
	mm																												
2	60g6	60g6	59.5	70	3	300	36	2	13	6	65	47	22	35	M6	2	65x2.5	60	60	135	180	80-32	80	141	31	16	M10	180	200
3	70g6	70g6	69.5	80	4	326	38	2	17	7	75	55	22	40	M8	2	75x2.5	70	70	145	200	90-32	90	155	38	20	M10	200	220
4	85g6	85h6	84.5	95	4	386	48	2	17	7	90	70	22	50	M8	2	90x2.5	85	85	170	235	110-32	110	185	49	20	M12	235	250
5	100g6	100h6	99.5	114	5	453	53	2	20	8	105	80	26	55	M10	2	105x3	100	100	200	275	125-32	125	215	53	20	M12	275	285
6	110g6	110h6	109.5	124	5	453	58	3	20	8	115	85	26	60	M10	2	115x3	110	110	200	275	140-32	140	230	58	20	M14	285	285
7	120g6	120h6	119.5	134	5	533	68	3	20	8	125	90	26	65	M12	2	125x3	120	120	235	320	155-32	155	263	62	23	M14	330	335
8	130g6	130h6	129.5	145	6	538	73	3	20	8	135	100	26	70	M12	2	135x3	130	130	235	325	165-32	165	290	68	23	M16	340	340
9	140g6	145m6	139.5	160	6	609	82	4	23	10	150	110	33	80	M12	2	150x3	140	145	270	365	175-32	175	300	68	28	M16	360	380
10	150g6	155m6	149.5	170	6	629	92	4	23	10	160	120	33	90	M12	2	160x3	150	155	270	385	200-32	200	340	85	28	M16	395	400
11	165f6	170m6	164.5	185	7	744	112	4	23	10	175	130	33	90	M12	2	175x3	165	170	320	450	220-32	220	370	103	30	M20	435	470
12	180f6	185m6	179.5	200	7	749	122	4	23	10	190	140	33	100	M16	2	190x3	180	185	320	455	240-32	240	405	107	30	M20	450	470
14	210f6	215m6	209.5	233	8	894	147	5	28	14	220	170	33	130	M16	2	220x5	210	215	390	535	280-32	280	460	132	30	M20	525	555
16	240f6	245m6	239.5	263	8	1039	157	5	28	14	250	190	39	150	M20	2	250x5	240	245	450	620	320-32	320	520	140	35	M24	595	645
18	280f6	285m6	279.5	306	9	1177	177	5	30	14	290	210	39	160	M20	2	290x5	280	285	510	700	360-32	360	590	162	35	M24	635	725

1)胀紧盘不在我们的供货范围之内。如有需要,请另行订货。 Shrink disk does not belong to our scope of supply. Please order separately, if required.
2)工作机驱动轴材质:40Cr或强度更高的钢。根据用户要求,胀紧盘可布置在工作机侧。工作机驱动轴尺寸函索即复。
Material of driver machine shaft:40Cr or higher strength. Shrink disk on machine side on request. Shrink disk is supplied as loose item.
Dimensions of machine shaft on request.



齿轮箱 带平键联接的空心轴
Gear units Hollow Shaft For Parallel Key Connections

类型 TYPES EH2,EH3,EH4,EB3,EB4
规格 SIZES 3...18

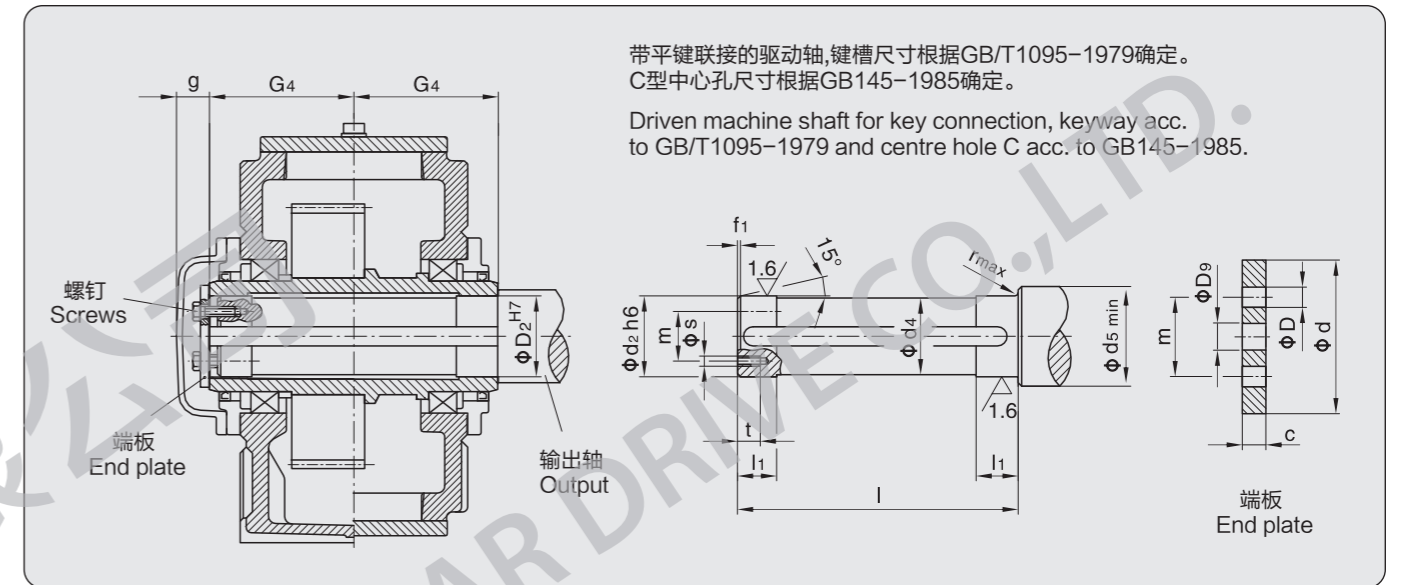


齿轮箱规格 Gear unit size	类型 EH2,EH3,EH4,EB3,EB4 Types EH2,EH3,EH4,EB3,EB4										端板 End plate			螺钉 Screw		空心轴 Hollow shaft				
	工作机驱动轴 ¹⁾ Driven machine shaft													规格 Size		数量 Qty.				
	d ₂	d ₄	d ₅	f ₁	l	l ₁	r	s	t	c	D	D ₉	d	m			D ₂	G ₄	g	
3	65	64.5	73	4	248	30	1.2	M10	18	8	11	18	78	45	M10x25	2	65	125	35	
4	80	79.5	88	4	278	35	1.2	M10	18	10	11	22	100	60	M10x25	2	80	140	35	
5	95	94.5	105	5	328	40	1.6	M10	18	10	11	26	120	70	M10x25	2	95	165	40	
6	105	104.5	116	5	328	45	1.6	M10	18	10	11	26	120	70	M10x25	2	105	165	40	
7	115	114.5	126	5	388	50	1.6	M12	20	12	13.5	26	140	80	M12x30	2	115	195	40	
8	125	124.5	136	6	388	55	2.5	M12	20	12	13.5	26	150	85	M12x30	2	125	195	40	
9	135	134.5	147	6	467	60	2.5	M12	20	12	13.5	33	160	90	M12x30	2	135	235	45	
10	150	149.5	162	6	467	65	2.5	M12	20	12	13.5	33	185	110	M12x30	2	150	235	45	
11	165	164.5	177	7	537	70	2.5	M16	28	15	17.5	33	195	120	M16x40	2	165	270	45	
12	180	179.5	192	7	537	75	2.5	M16	28	15	17.5	33	220	130	M16x40	2	180	270	45	
13	190	189.5	206	7	667	80	3	M16	28	18	17.5	33	230	140	M16x40	2	190	335	45	
14	210	209.5	226	8	667	85	3	M16	28	18	17.5	33	250	160	M16x40	2	210	335	45	
15	230	229.5	248	8	756	100	3	M20	38	25	22	39	270	180	M20x55	4	230	380	60	
16	240	239.5	258	8	756	100	3	M20	38	25	22	39	280	180	M20x55	4	240	380	60	
17	250	249.5	270	8	826	110	4	M20	38	25	22	39	300	190	M20x55	4	250	415	60	
18	275	274.5	295	9	826	120	4	M20	38	25	22	39	330	210	M20x55	4	275	415	60	

1)工作机驱动轴材质: 40Cr或强度更高的钢。平键不在我们的供货范围之内。如有需要, 请另行订货。
Material of driven machine shaft: 40Cr or higher strength. Parallel key does not belong to our scope of supply.
Please order separately, if required.

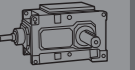
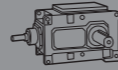
齿轮箱 带平键联接的空心轴
Gear units Hollow Shaft For Parallel Key Connections

类型 TYPES EB2H.
规格 SIZES 2...18



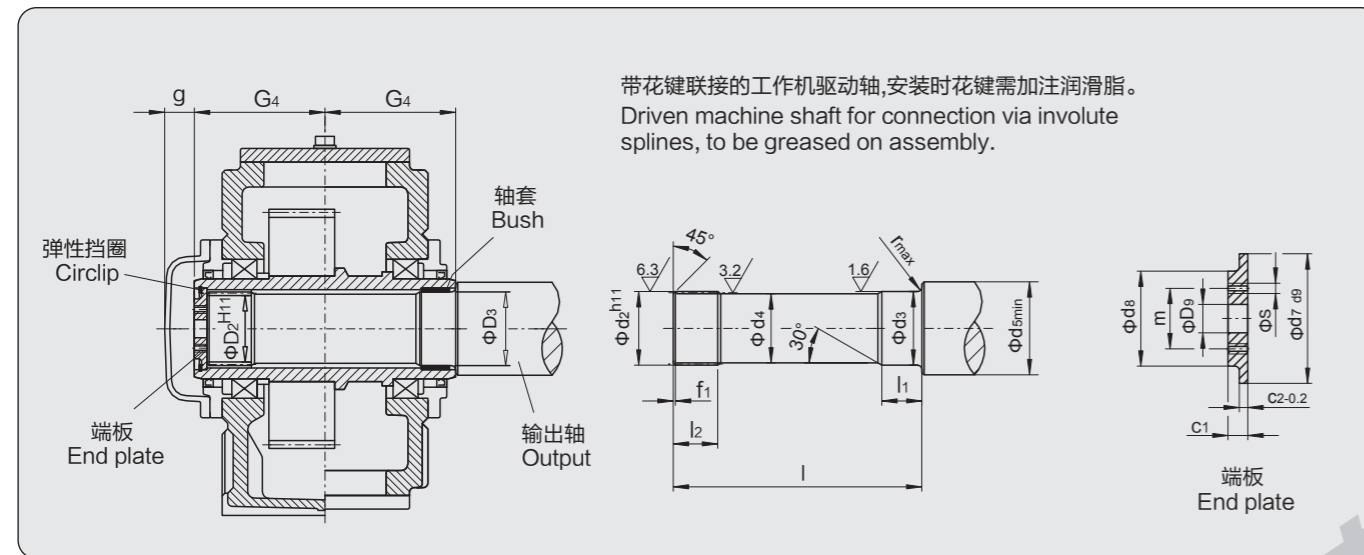
齿轮箱规格 Gear unit size	类型 EB2H. Types EB2H.										端板 End plate			螺钉 Screw		空心轴 Hollow shaft				
	工作机驱动轴 ¹⁾ Driven machine shaft													规格 Size		数量 Qty.				
	d ₂	d ₄	d ₅	f ₁	l	l ₁	r	s	t	c	D	D ₉	d	m			D ₂	G ₄	g	
2	55	54.5	63	3	268	30	1.2	M8	15	8	9	18	70	40	M8x20	2	55	135	35	
3	65	64.5	73	4	288	30	1.2	M10	18	8	11	18	78	45	M10x25	2	65	145	35	
4	80	79.5	88	4	338	35	1.2	M10	18	10	11	22	100	60	M10x25	2	80	170	35	
5	95	94.5	105	5	398	40	1.6	M10	18	10	11	26	120	70	M10x25	2	95	200	40	
6	105	104.5	116	5	398	45	1.6	M10	18	10	11	26	120	70	M10x25	2	105	200	40	
7	115	114.5	126	5	468	50	1.6	M12	20	12	13.5	26	140	80	M12x30	2	115	235	40	
8	125	124.5	136	6	468	55	2.5	M12	20	12	13.5	26	150	85	M12x30	2	125	235	40	
9	135	134.5	147	6	537	60	2.5	M12	20	12	13.5	33	160	90	M12x30	2	135	270	45	
10	150	149.5	162	6	537	65	2.5	M12	20	12	13.5	33	185	110	M12x30	2	150	270	45	
11	165	164.5	177	7	637	70	2.5	M16	28	15	17.5	33	195	120	M16x40	2	165	320	45	
12	180	179.5	192	7	637	75	2.5	M16	28	15	17.5	33	220	130	M16x40	2	180	320	45	
14	210	209.5	226	8	777	85	3	M16	28	18	17.5	33	250	160	M16x40	2	210	390	45	
16	240	239.5	258	8	896	100	3	M20	38	25	22	39	280	180	M20x55	4	240	450	60	
18	275	274.5	295	9	1016	120	4	M20	38	25	22	39	330	210	M20x55	4	275	510	60	

1)工作机驱动轴材质: 40Cr或强度更高的钢。平键不在我们的供货范围之内。如有需要, 请另行订货。
Material of driven machine shaft: 40Cr or higher strength. Parallel key does not belong to our scope of supply.
Please order separately, if required.



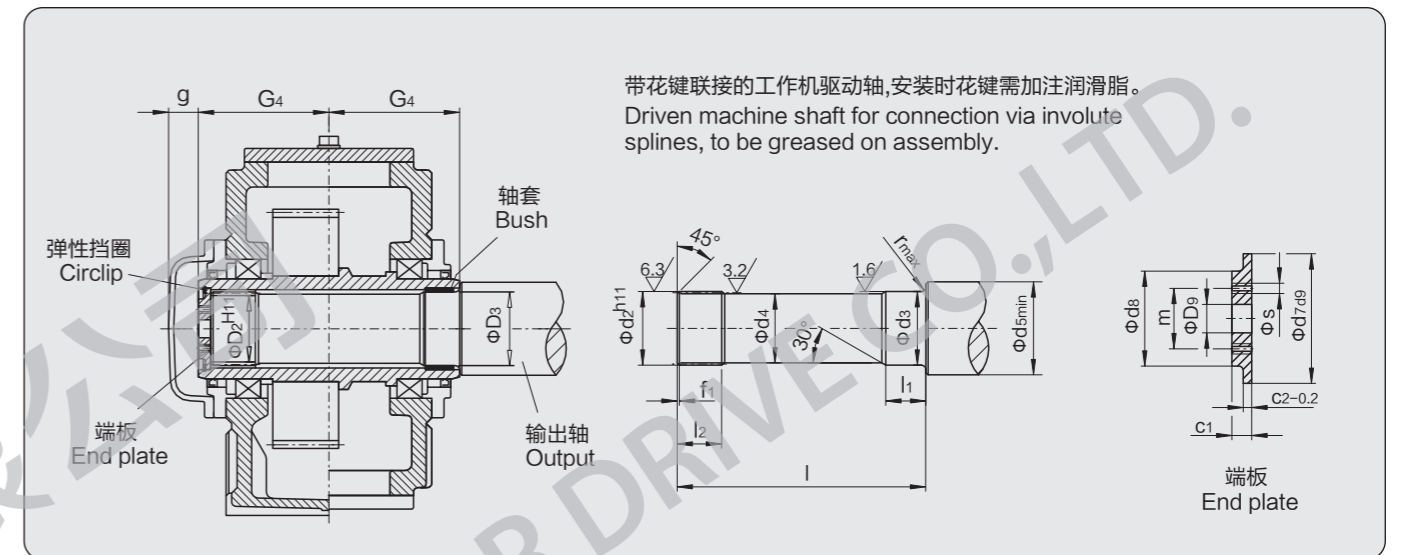
齿轮箱 带花键(DIN5480)联接的空心轴
Gear units Hollow Shaft For Spline (DIN5480)

类型 TYPES EH2,EH3,EH4,EB3,EB4
规格 SIZES 5...26



齿轮箱 带花键(DIN5480)联接的空心轴
Gear units Hollow Shaft For Spline (DIN5480)

类型 TYPES EB2
规格 SIZES 5...18

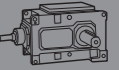
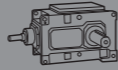


类型 EH2K,EH3K,EH4K,EB3K,EB4K		Types EH2K,EH3K,EH4K,EB3K,EB4K																						
规格 size	渐开线花键 Involute splines DIN5480	工作机驱动轴 driven machine shaft														弹性 垫圈 circlip	空心轴 hollow shaft				螺栓 bolt			
		d2	d3	d4	d5	f1	l	l1	l2	r	c1	c2	d7	d8	d9		m	s	数量 Qty	D2		D3	G4	g
5	W95*3*30*30*8f	94.4	100h6	93	114	3	308	53	90	2	20	8	105	80	26	55	M10	2	105*3	89	100	165	40	M24
6	W95*3*30*30*8f	94.4	110h6	93	124	3	308	58	90	3	20	8	105	80	26	55	M10	2	105*3	89	110	165	40	M24
7	W120*3*30*38*8f	119.4	120h6	118	134	3	368	68	105	3	20	8	125	90	26	65	M12	2	125*3	114	120	195	40	M24
8	W120*3*30*38*8f	119.4	130h6	118	145	3	368	73	105	3	20	8	125	90	26	65	M12	2	125*3	114	130	195	40	M24
9	W140*3*30*45*8f	139.4	145m6	138	160	3	444	82	125	4	23	10	150	110	33	80	M12	2	150*3	134	145	235	45	M30
10	W140*3*30*45*8f	139.4	155m6	138	170	3	444	92	125	4	23	10	150	110	33	80	M12	2	150*3	134	155	235	45	M30
11	W170*5*30*32*8f	169	170m6	168	185	5	514	112	150	4	23	10	175	130	33	90	M12	2	175*3	160	170	270	45	M30
12	W170*5*30*32*8f	169	185m6	168	200	5	514	122	150	4	23	10	175	130	33	90	M12	2	175*3	160	185	270	45	M30
13	W190*5*30*36*8f	189	195m6	188	213	5	644	137	180	5	23	10	200	150	33	110	M16	2	200*3	180	195	335	45	M30
14	W190*5*30*36*8f	189	215m6	188	233	5	644	147	180	5	23	10	200	150	33	110	M16	2	200*3	180	215	335	45	M30
15	W220*5*30*42*8f	219	235m6	218	253	5	728	157	200	5	28	14	240	180	39	140	M16	2	240*4	200	235	380	60	M36
16	W220*5*30*42*8f	219	245m6	218	263	5	728	157	200	5	28	14	240	180	39	140	M16	2	240*4	200	245	380	60	M36
17	W250*5*30*48*8f	249	260m6	248	278	5	796	177	215	5	30	14	265	200	39	150	M20	2	265*4	240	260	415	60	M36
18	W250*5*30*48*8f	249	285m6	248	306	5	796	177	215	5	30	14	265	200	39	150	M20	2	265*4	240	285	415	60	M36
19-26		敬请垂询 On request																						

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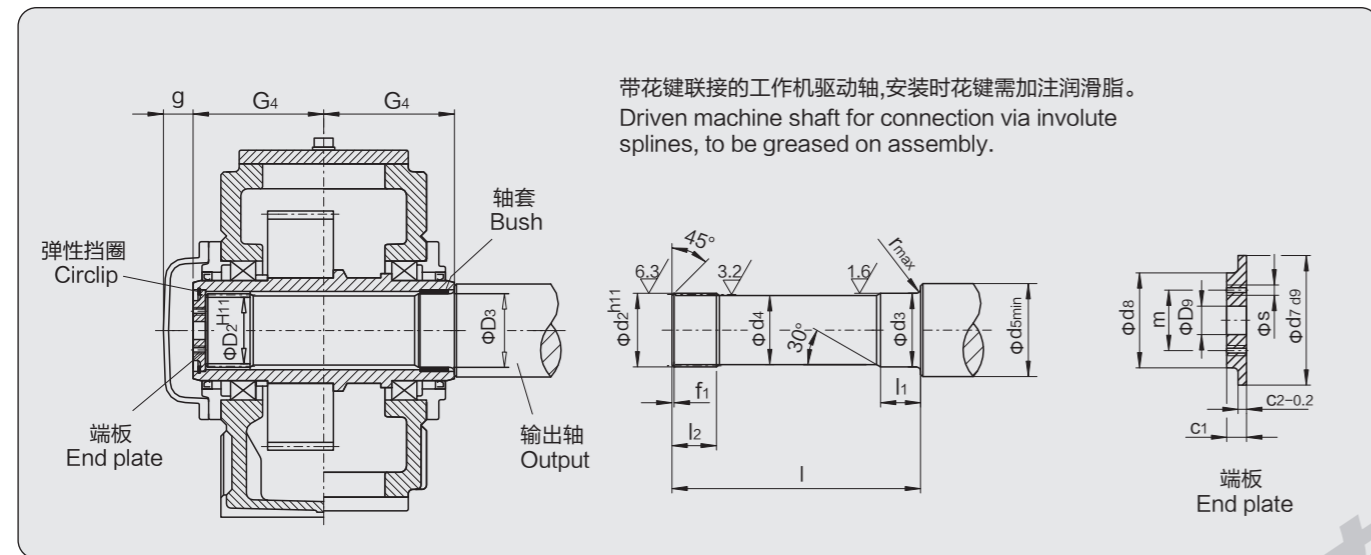
类型 EB2K		Type EB2K																						
规格 size	渐开线花键 Involute splines DIN5480	工作机驱动轴 driven machine shaft														弹性 垫圈 circlip	空心轴 hollow shaft				螺栓 bolt			
		d2	d3	d4	d5	f1	l	l1	l2	r	c1	c2	d7	d8	d9		m	s	数量 Qty	D2		D3	G4	g
5	W95*3*30*30*8f	94.4	100h6	93	114	3	378	53	90	2	20	8	105	80	26	55	M10	2	105*3	89	100	200	40	M24
6	W95*3*30*30*8f	94.4	110h6	93	124	3	378	58	90	3	20	8	105	80	26	55	M10	2	105*3	89	110	200	40	M24
7	W120*3*30*38*8f	119.4	120h6	118	134	3	448	68	105	3	20	8	125	90	26	65	M12	2	125*3	114	120	235	40	M24
8	W120*3*30*38*8f	119.4	130h6	118	145	3	448	73	105	3	20	8	125	90	26	65	M12	2	125*3	114	130	235	40	M24
9	W140*3*30*45*8f	139.4	145m6	138	160	3	514	82	125	4	23	10	150	110	33	80	M12	2	150*3	134	145	270	45	M30
10	W140*3*30*45*8f	139.4	155m6	138	170	3	514	92	125	4	23	10	150	110	33	80	M12	2	150*4	134	155	270	45	M30
11	W170*5*30*32*8f	169	170m6	168	185	5	614	112	150	4	23	10	175	130	33	90	M12	2	175*3	160	170	320	45	M30
12	W170*5*30*32*8f	169	185m6	168	200	5	614	122	150	4	23	10	175	130	33	90	M12	2	175*3	160	185	320	45	M30
14	W190*5*30*36*8f	189	215m6	188	233	5	745	147	180	5	23	10	200	150	33	110	M16	2	200*3	180	215	390	45	M30
16	W220*5*30*42*8f	219	245m6	218	263	5	868	157	200	5	28	14	240	180	39	140	M16	2	240*4	210	245	450	60	M36
18	W250*5*30*48*8f	249	285m6	248	306	5	986	177	215	5	30	14	265	200	39	150	M20	2	265*4	240	285	510	60	M36

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Material of driven machine shaft: 40Cr or higher strength. Parallel key does not belong to our scope of supply.
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齿轮箱 带花键(GB/T3478.1)联接的空心轴
Gear units Hollow Shaft For Spline (GB/T3478.1)

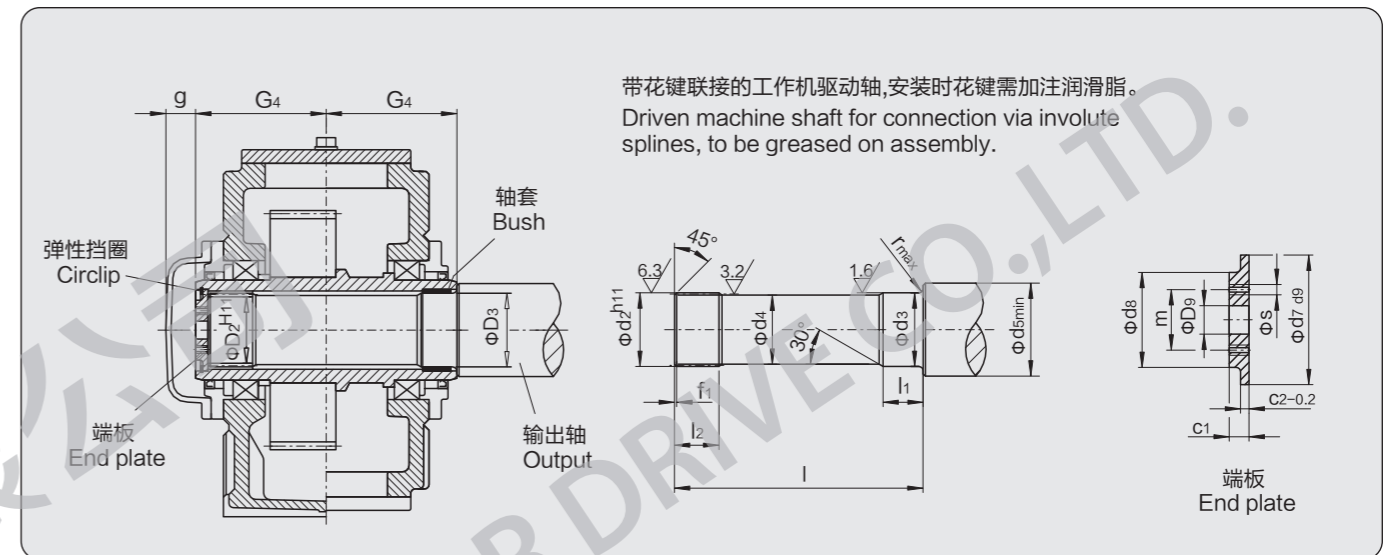
类型 TYPES EH2,EH3,EH4,EB3,EB4
规格 SIZES 5...18



带花键联接的工作机驱动轴,安装时花键需加注润滑脂。
Driven machine shaft for connection via involute splines, to be greased on assembly.

齿轮箱 带花键(GB/T3478.1)联接的空心轴
Gear units Hollow Shaft For Spline (GB/T3478.1)

类型 TYPES EB2
规格 SIZES 5...18



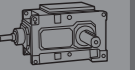
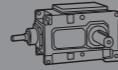
带花键联接的工作机驱动轴,安装时花键需加注润滑脂。
Driven machine shaft for connection via involute splines, to be greased on assembly.

规格 size	渐开线花键 Involute splines GB/T3478.1-1995	类型 EH2K,EH3K,EH4K,EB3K,EB4K Types EH2K,EH3K,EH4K,EB3K,EB4K																弹性垫圈 circlip	空心轴 hollow shaft				螺栓 bolt	
		工作机驱动轴 driven machine shaft											端板 end plate						数量 Qty	D2	D3	G4		g
		d2	d3	d4	d5	f1	l	l1	l2	r	c1	c2	d7	d8	D9	m	s							
5	30Z*3m*30p*6h	93	100h6	90	114	3	308	53	90	2	20	8	105	80	26	55	M10	2	105*3	87	100	165	40	M24
6	30Z*3m*30p*6h	93	110h6	90	124	3	308	58	90	3	20	8	105	80	26	55	M10	2	115*3	87	110	165	40	M24
7	38Z*3m*30p*6h	117	120h6	114	134	3	368	68	105	3	20	8	125	90	26	65	M12	2	125*3	111	120	195	40	M24
8	38Z*3m*30p*6h	117	130h6	114	145	3	368	73	105	3	20	8	125	90	26	65	M12	2	135*3	111	130	195	40	M24
9	45Z*3m*30p*6h	135	145m6	135	160	3	444	82	125	4	23	10	150	110	33	80	M12	2	150*3	132	145	235	45	M30
10	45Z*3m*30p*6h	165	155m6	135	170	3	444	92	125	4	23	10	150	110	33	80	M12	2	160*3	132	155	235	45	M30
11	32Z*5m*30p*6h	165	170m6	160	185	5	514	112	150	4	23	10	175	130	33	90	M12	2	175*3	155	170	270	45	M30
12	32Z*5m*30p*6h	165	185m6	160	200	5	514	122	150	4	23	10	175	140	33	90	M16	2	190*3	155	185	270	45	M30
13	36Z*5m*30p*6h	185	195m6	180	213	5	644	137	180	5	23	10	200	150	33	110	M16	2	200*3	175	195	335	45	M30
14	36Z*5m*30p*6h	185	215m6	180	233	5	644	147	180	5	28	14	200	150	33	110	M16	2	220*4	175	215	335	45	M30
15	42Z*5m*30p*6h	215	235m6	210	253	5	728	157	200	5	28	14	240	180	39	140	M16	2	240*4	205	235	380	60	M36
16	42Z*5m*30p*6h	215	245m6	210	263	5	728	157	200	5	28	14	240	180	39	140	M20	2	250*4	205	245	380	60	M36
17	48Z*5m*30p*6h	245	260m6	240	278	5	796	177	215	5	30	14	265	200	39	150	M20	2	265*4	235	260	415	60	M36
18	48Z*5m*30p*6h	245	285m6	240	306	5	796	177	215	5	30	14	265	200	39	150	M20	2	290*4	235	285	415	60	M36

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规格 size	渐开线花键 Involute splines GB/T3478.1-1995	类型 EB2K Type EB2K																弹性垫圈 circlip	空心轴 hollow shaft				螺栓 bolt	
		工作机驱动轴 driven machine shaft											端板 end plate						数量 Qty	D2	D3	G4		g
		d2	d3	d4	d5	f1	l	l1	l2	r	c1	c2	d7	d8	D9	m	s							
5	30Z*3m*30p*6h	93	100h6	90	114	3	378	53	90	2	20	8	105	80	26	55	M10	2	105*3	87	100	200	40	M24
6	30Z*3m*30p*6h	93	110h6	90	124	3	378	58	90	3	20	8	105	80	26	55	M10	2	115*3	87	110	200	40	M24
7	38Z*3m*30p*6h	117	120h6	114	134	3	448	68	105	3	20	8	125	90	26	65	M12	2	125*3	111	120	235	40	M24
8	38Z*3m*30p*6h	117	130h6	114	145	3	448	73	105	3	20	8	125	90	26	65	M12	2	135*3	111	130	235	40	M24
9	45Z*3m*30p*6h	135	145m6	135	160	3	514	82	125	4	23	10	150	110	33	80	M12	2	150*3	132	145	270	45	M30
10	45Z*3m*30p*6h	165	155m6	135	170	3	514	92	125	4	23	10	150	110	33	80	M12	2	160*3	132	155	270	45	M30
11	32Z*5m*30p*6h	165	170m6	160	185	5	614	112	150	4	23	10	175	130	33	90	M12	2	175*3	155	170	320	45	M30
12	32Z*5m*30p*6h	165	185m6	160	200	5	614	122	150	4	23	10	175	130	33	90	M16	2	190*3	155	185	320	45	M30
14	36Z*5m*30p*6h	185	215m6	180	233	5	754	147	180	5	28	14	220	170	33	130	M16	2	220*4	175	215	390	45	M30
16	42Z*5m*30p*6h	215	245m6	210	263	5	868	157	200	5	28	14	250	190	39	150	M20	2	250*4	205	245	450	60	M30
18	48Z*5m*30p*6h	245	285m6	240	306	5	986	177	215	5	30	14	290	210	39	160	M20	2	290*4	235	285	510	60	M30

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平行轴齿轮箱 Helical gear units

转动惯量 J₁ Mass Moments of Inertia J₁

类型 TYPES EH1...,EH2...,EH3...,EH4...

规格 SIZES 1...13

转动惯量 J₂(单位 kgm²)是指相对于齿轮箱输出轴 d₂ 的转动惯量,可按下式计算: J₂=i_n² × J₁。

转动惯量 J₁(单位 kgm²)是指相对于齿轮箱输入轴 d₁ 的转动惯量,输入轴不带风扇。

如果输入轴 d₁ 上带有风扇,则应加上 J_L。

The mass moment of inertia J₂ in kgm² refers to the output shaft d₂ of a gear unit and is calculated with the following formula: J₂=i_n² × J₁.

The mass moment of inertia J₁ in kgm² refers to the input shaft d₁ of a gear unit without fan.

For shaft d with fan, J_L has to be added.

Table with columns for input shaft diameter (in) and gear unit sizes (1-13). It lists mass moments of inertia J1 in kgm2 for various gear unit configurations.

平行轴齿轮箱 Helical gear units

转动惯量 J₁ Mass Moments of Inertia J₁

类型 TYPES EH1...,EH2...,EH3...,EH4...

规格 SIZES 14...26

转动惯量 J₂(单位 kgm²)是指相对于齿轮箱输出轴 d₂ 的转动惯量,可按下式计算: J₂=i_n² × J₁。

转动惯量 J₁(单位 kgm²)是指相对于齿轮箱输入轴 d₁ 的转动惯量,输入轴不带风扇。

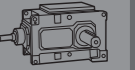
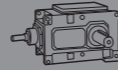
如果输入轴 d₁ 上带有风扇,则应加上 J_L。

The mass moment of inertia J₂ in kgm² refers to the output shaft d₂ of a gear unit and is calculated with the following formula: J₂=i_n² × J₁.

The mass moment of inertia J₁ in kgm² refers to the input shaft d₁ of a gear unit without fan.

For shaft d with fan, J_L has to be added.

Table with columns for input shaft diameter (in) and gear unit sizes (14-26). It lists mass moments of inertia J1 in kgm2 for various gear unit configurations.



直交轴齿轮箱
Bevel-helical gear units

转动惯量 J_1
Mass Moments of Inertia J_1

类型 TYPES EB2...,EB3...,EB4...

规格 SIZES 1...13

转动惯量 J_2 (单位 kgm^2) 是指相对于齿轮箱输出轴 d_2 的转动惯量, 可按下式计算: $J_2 = i_n^2 \times J_1$ 。
转动惯量 J_1 (单位 kgm^2) 是指相对于齿轮箱输入轴 d_1 的转动惯量, 输入轴不带风扇。
如果输入轴 d_1 上带有风扇, 则应加上 J_L 。

The mass moment of inertia J_2 in kgm^2 refers to the output shaft d_2 of a gear unit and is calculated with the following formula: $J_2 = i_n^2 \times J_1$.
The mass moment of inertia J_1 in kgm^2 refers to the input shaft d_1 of a gear unit without fan.
For shaft d_1 with fan, J_L has to be added.

i _n	转动惯量 J_1 (单位 kgm^2) 是指相对于齿轮箱输入轴 d_1 的转动惯量 Mass moment of inertia J_1 in kgm^2 referring to shaft d_1												
	齿轮箱规格 Gear unit sizes												
	1	2	3	4	5	6	7	8	9	10	11	12	13
5.0	0.0021	0.0049	0.0314	0.0314	0.0707		0.1988		0.4403		1.2743		2.7700
5.6	0.0019	0.0043	0.0096	0.0262	0.0604		0.1691		0.3744		1.0697		2.3418
6.3	0.0016	0.0035	0.0076	0.0228	0.0495	0.0805	0.1365	0.2276	0.2988	0.4986	0.8428	1.4755	1.8526
7.1	0.0014	0.0033	0.0071	0.0197	0.0420	0.0687	0.1207	0.1931	0.2543	0.4229	0.7257	1.2273	1.6222
8.0	0.0012	0.0027	0.0057	0.0152	0.0321	0.0555	0.0875	0.1542	0.1874	0.3346	0.5250	0.9645	1.1744
9.0	0.0010	0.0023	0.0052	0.0129	0.0295	0.0470	0.0786	0.1352	0.1709	0.2837	0.4753	0.8231	1.0617
10	0.00084	0.0018	0.0039	0.0104	0.0250	0.0363	0.0681	0.0985	0.1456	0.2097	0.4072	0.6005	0.9214
11.2	0.00079	0.0017	0.0037	0.0093	0.0214	0.0327	0.0590	0.0879	0.1241	0.1897	0.3493	0.5392	0.7959
12.5	0.00054	0.0012	0.0028			0.0274		0.0752		0.1599		0.4557	
14	0.00043	0.0098	0.0023			0.0235		0.0650		0.1363		0.3909	
16	0.00040	0.0082	0.0019										
18	0.00031	0.0063	0.0015										
JL	0.005	0.006	0.010	0.020		0.045	0.100	0.100	0.100	0.100	0.290	0.290	0.690
12.5				0.0073	0.0159		0.0445		0.0995		0.2740		0.6152
14				0.0071	0.0156		0.0436		0.0967		0.2671		0.6026
16				0.0060	0.0136	0.0174	0.0368	0.0487	0.0842	0.1084	0.2344	0.3029	0.5141
18				0.0059	0.0133	0.0168	0.0363	0.0474	0.0825	0.1040	0.2300	0.2925	0.5068
20			0.0023	0.0055	0.0124	0.0145	0.0339	0.0393	0.0770	0.0897	0.2146	0.2527	0.4742
22.4			0.0021	0.0047	0.0105	0.0141	0.0282	0.0385	0.0657	0.0870	0.1822	0.2461	0.4026
25			0.0017	0.0039	0.0083	0.0130	0.0243	0.0356	0.0534	0.0805	0.1462	0.2270	0.3196
28			0.0015	0.0036	0.0077	0.0111	0.0209	0.0296	0.0452	0.0687	0.1286	0.1926	0.2714
31.5			0.0013	0.0029	0.0062	0.0087	0.0162	0.0253	0.0348	0.0555	0.0936	0.1539	0.2004
35.5			0.0011	0.0024	0.0055	0.0080	0.0137	0.0218	0.0315	0.0470	0.0837	0.1349	0.1819
40			0.0089	0.0019	0.0041	0.0065	0.0110	0.0169	0.0265	0.0363	0.0720	0.0983	0.1539
45			0.0083	0.0018	0.0039	0.0057	0.0098	0.0142	0.0227	0.0326	0.0626	0.0877	0.1312
50			0.0057	0.0013	0.0030	0.0043	0.0081	0.0114	0.0178	0.0274	0.0469	0.0751	0.1028
56			0.0046	0.0011	0.0025	0.0040	0.0068	0.0102	0.0146	0.0235	0.0384	0.0649	0.0853
63			0.00042	0.0087	0.0021	0.0031	0.0059	0.0084	0.0124	0.0184	0.0326	0.0489	0.0725
71			0.00033	0.0067	0.0016	0.0026	0.0047	0.0070	0.0100	0.0150	0.0262	0.0400	0.0585
80					0.0021			0.0061		0.0128		0.0339	
90					0.0016			0.0048		0.0102		0.0272	
JL			0.005	0.006	0.010	0.010	0.020	0.020	0.045	0.045	0.100	0.100	0.290
80					0.0024			0.0057		0.0129		0.0350	0.0795
90					0.0021			0.0049		0.0110		0.0291	0.0678
100					0.0018	0.0024	0.0040	0.0058	0.0089	0.0131	0.0250	0.0358	0.0549
112					0.0016	0.0022	0.0037	0.0049	0.0079	0.0111	0.0215	0.0297	0.0465
125					0.0013	0.0018	0.0030	0.0040	0.0064	0.0087	0.0167	0.0254	0.0359
140					0.0011	0.0016	0.0025	0.0038	0.0057	0.0081	0.0141	0.0219	0.0323
160					0.00091	0.0013	0.0020	0.0031	0.0043	0.0065	0.0113	0.0170	0.0271
180					0.00085	0.0011	0.0018	0.0025	0.0040	0.0058	0.0101	0.0143	0.0233
200					0.00058	0.00092	0.0013	0.0020	0.0031	0.0043	0.0083	0.0114	0.0182
224					0.00047	0.00086	0.0011	0.0018	0.0025	0.0041	0.0070	0.0102	0.0149
250					0.00043	0.00059	0.00089	0.0014	0.0021	0.0031	0.0060	0.0084	0.0127
280					0.00033	0.00047	0.00069	0.0011	0.0016	0.0026	0.0048	0.0071	0.0102
315					0.00028	0.00043	0.00058	0.00091	0.0014	0.0021	0.0040	0.0061	0.0081
355						0.00034		0.00069		0.0016		0.0048	
400						0.00028		0.00059		0.0014		0.0041	

直交轴齿轮箱
Bevel-helical gear units

转动惯量 J_1
Mass Moments of Inertia J_1

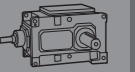
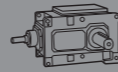
类型 TYPES EB2...,EB3...,EB4...

规格 SIZES 14...26

转动惯量 J_2 (单位 kgm^2) 是指相对于齿轮箱输出轴 d_2 的转动惯量, 可按下式计算: $J_2 = i_n^2 \times J_1$ 。
转动惯量 J_1 (单位 kgm^2) 是指相对于齿轮箱输入轴 d_1 的转动惯量, 输入轴不带风扇。
如果输入轴 d_1 上带有风扇, 则应加上 J_L 。

The mass moment of inertia J_2 in kgm^2 refers to the output shaft d_2 of a gear unit and is calculated with the following formula: $J_2 = i_n^2 \times J_1$.
The mass moment of inertia J_1 in kgm^2 refers to the input shaft d_1 of a gear unit without fan.
For shaft d_1 with fan, J_L has to be added.

i _n	转动惯量 J_1 (单位 kgm^2) 是指相对于齿轮箱输入轴 d_1 的转动惯量 Mass moment of inertia J_1 in kgm^2 referring to shaft d_1													
	齿轮箱规格 Gear unit sizes													
	14	15	16	17	18	19	20	21	22	23	24	25	26	i _n
		6.1753												5.0
		5.3415	6.6007	10.3549										5.6
	2.5972	4.4466	5.6746	8.5744										6.3
	3.0962	3.7296	4.7073	7.1324	9.0369									7.1
	2.0500	2.7508	3.9356	5.0109	7.4979									8.0
	1.7802	2.5048	2.9105	4.5186	5.2942									9.0
	1.2968	2.1468	2.6398	3.8518	4.7581									10
	1.1653	1.7964	2.2495	3.3164	4.0340									11.2
	1.0001		1.8843		3.4725									12.5
	0.8634													14
														16
														18
	0.690	0.690	0.690	0.690	0.690									JL
		1.6952		3.4843		7.8896			8.3877					12.5
		1.6558	1.7505	3.4451	0.5988	7.7305	8.0659	8.2186	8.6052					14
	0.6638	1.4797	1.7023	3.0661	3.5397	6.9989	7.8400	7.4408	8.3643					16
	0.6456	1.4545	1.5152	3.0418	3.1370	6.8398	6.9560	7.2717	7.4142					18
	0.5424	1.3716	1.4843	2.8806	3.1004	6.3626	6.8399	6.7643	7.2972	12.93				20
	0.5318	1.1459	1.3952	2.4284	2.9267	5.4882	6.4527	5.8027	6.8842	10.90	13.15	13.51		22.4
	0.4938	0.9016	1.1644	1.9196	2.4645	4.5614	5.5587	4.8075	5.8965	8.99	11.07	11.03		25
	0.4189	0.7728	0.9159	1.6758	1.9474	3.8203	4.6166	4.0148	4.8809	7.45	9.12	9.06	11.34	28
	0.3317	0.5615	0.7842	1.2159	1.6981	2.8212	3.8639	2.9719	4.0729	5.24	7.55	6.49	9.30	31.5
	0.2812	0.5062	0.5703	1.0968	1.2332	2.5642	2.8550	2.6917	3.0169	4.70	5.32	5.76	6.68	35.5
	0.2079	0.4306	0.5137	0.9481	1.1114	2.1920	2.5928	2.2890	2.7297	3.98	4.77	4.78	5.92	40
	0.1882	0.3694	0.4363	0.8188	0.9592	1.8351	2.2138	1.9182	2.3180	3.42	4.03	4.11	4.90	45
	0.1587	0.2765	0.3743	0.5713	0.8283	1.4000	1.8537	1.4641	1.9429	2.58	3.46	3.11	4.21	50
	0.1353	0.2284	0.2802	0.4692	0.5787	1.1439	1.4144	1.1946	1.4832	2.16	2.61	2.58	3.19	56
	0.1060	0.1956	0.2314	0.4054	0.4750	1.0429	1.1553	1.0845	1.2097	1.98	2.19	2.33	2.65	63
	0.0878	0.1587	0.1981	0.3333	0.4101	0.8730	1.0522	0.9051	1.0970	1.62	2.01	1.89	2.38	71
	0.0745		0.1605		0.3369		0.8802		0.9147		1.64		1.93	80
	0.0601													90
	0.290	0.290	0.290	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690	JL
		0.2219		0.2276		0.4955		1.4120		1.519		3.158		80
		0.1883	0.2234	0.1931	0.2307	0.4203	0.5009	1.1776	1.4199	1.261	1.533	2.645	3.188	90
	0.0807	0.1507	0.1896	0.1542	0.1956	0.3327	0.4248	0.9261	1.1838	0.991	1.272	2.087	2.669	100
	0.0688	0.1323</												



齿轮箱 **润滑油供给方式可选方案** **立式安装**
Gear units **Oil Supply for** **Vertical**

类型 TYPES EH2...EH4...,EB2...EB4...
规格 SIZES 4...18

各种润滑油供给方式 Oil supply variants
立式安装齿轮箱所用的各种润滑油供给方式列于表1。
Oil supply variants for vertical gear units can be derived from table 1.

类型1) Types	规格Size	浸油润滑 Dip lubrication	法兰泵强制润滑 Forced lubrication, flanged on pump	电动泵强制润滑 Forced lubrication, motor pump
EH2.V	4	X	-	-
	5...12	X	X	-
	13...18	-	X	-
EH3.V	5...12	X	X	X
	13...18	-	X	X
EH4.V	7...12	X	X	X
	13...18	-	-	X
EB2.V	4	X	-	-
	5...12	X	X	X
	13...18	-	X	X
EB3.V	4	X	-	-
	5...12	X	X	X
	13...18	-	X	X
EB4.V	5...12	X	X	X
	13...18	-	-	X

X=可供货 X=Possible variants

推荐供油方式 Preferred order:
规格6号(含)以下各型: 浸油润滑; 规格7号以上各型: 强制润滑
up to size 6: dip lubrication; from size 7 up: forced lubrication

对各种润滑油供给方式的说明
Notes on the individual oil supply variants

浸油润滑 Dip lubrication:
当采用浸油润滑时,所有需要润滑的零件均需浸在润滑油液中。
附带的补偿油箱用于储藏涨溢的油液。
in case of dip lubrication, all parts to be lubricated are lying in the oil.
an oil compensating tank has been fitted for oil ex-pansion.

强制润滑 Forced lubrication:
当采用强制润滑时,所有未浸在润滑油液中的零部件均通过一个法兰联接泵或单独的电动油泵进行飞溅润滑。
选择依据参见336-337页。
in case of forced lubrication, all parts which are not lying in oil are splash lubricated by means of a flanged-on pump or by a separate motor pump. criteria for selection, see page 336-337

齿轮箱 **法兰泵强制润滑** **立式安装**
Gear units **Forced Lubrication for flanged on pump** **Vertical**

类型 TYPES EH2,EH3,EH4,EB2,EB3,EB4
规格 SIZES 5...14

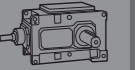
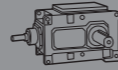
40℃以下的ISO-VG粘度 mm ² / s (cst) Viscosity ISO-VG at 40℃ in mm ² / s (cst)	强制润滑允许极限温度,℃ Permissible temperature limit in℃ for forced feed lubrication			
	矿物油Mineraloil		合成油Syntheticoil	
	最低min	最高max	最低min	最高max
VG220	10	80	0	90
VG320	15	90	5	100
VG460	20	95	10	105

强制润滑:
当采用强制润滑时,工作粘度不得超过1800cst。最低工作粘度不得小于25cst。当油温低于表4所列的数值时,必须提供浸油润滑方式,或者对润滑油进行加热。

Forced lubrication:
In case of forced lubrication,the operating Viscosity 1800cst must not be exceeded during starting.
A minimum operating viscosity of 25cst must be ensured. If the temperatures are below the values as listed in table 4, dip Lubrication has to be provided or the oil must be heated.

立式安装齿轮箱采用法兰泵 Assignment of flanged-on pumps to gear units					
类型 Types	规格 Size	法兰泵规格 Flanged-on pump size	类型 Types	规格 Size	法兰泵规格 Flanged-on pump size
EH2.V	5-8	SNBY5/1.6	EB2.V	5-8	SNBY5/1.6
	9-14	SNBY16/1.6		9-14	SNBY16/1.6
EH3.V	5-8	SNBY5/1.6	EB3.V	5-8	SNBY5/1.6
	9-14	SNBY16/1.6		9-18	SNBY16/1.6
EH4.V	7-8	SNBY5/1.6	EB4.V	5-8	SNBY5/1.6
	9-12	SNBY16/1.6		9-12	SNBY16/1.6

1)布置形式A,B,C,D,E,F
Design A,B,C,D,E,F



齿轮箱 Gear units 电机泵强制润滑 Forced Lubrication for motor pump 立式安装 Vertical

类型 TYPES EH2,EH3,EH4,EB2,EB3,EB4
规格 SIZES 5...14

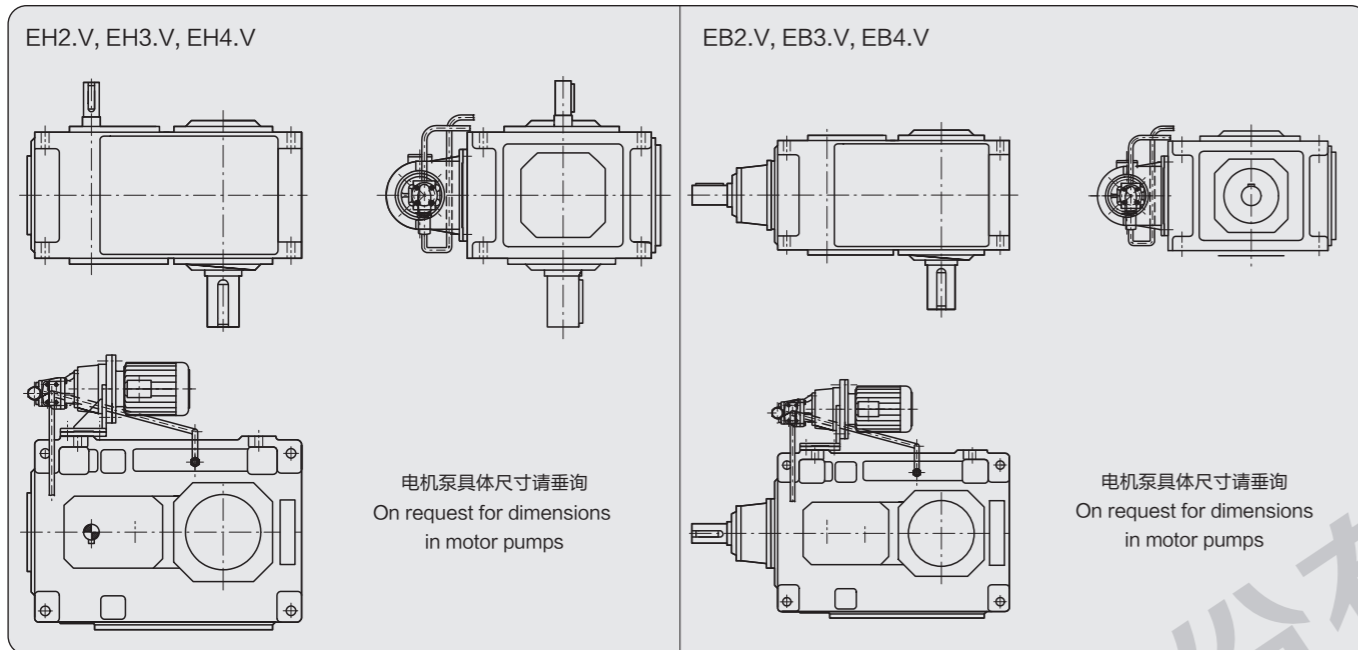


表6 Table 6

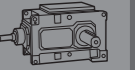
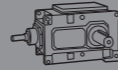
立式安装齿轮箱采用电动泵
Assignment of motor pumps to gear units

类型 Types	规格 Size	法兰泵规格 Flanged-on pump size	类型 Types	规格 Size	法兰泵规格 Flanged-on pump size
EH2.V	5-8	CB-B6JZ0.37kw	EB2.V	5-8	CB-B6JZ0.37kw
	9-18	CB-B6JZ0.75kw		9-18	CB-B6JZ0.75kw
EH3.V	5-8	CB-B6JZ0.37kw	EB3.V	5-8	CB-B6JZ0.37kw
	9-18	CB-B6JZ0.75kw		9-18	CB-B6JZ0.75kw
EH4.V	7-8	CB-B6JZ0.37kw	EB4.V	5-8	CB-B6JZ0.37kw
	9-18	CB-B6JZ0.75kw		9-18	CB-B6JZ0.75kw

1)布置形式A,B,C,D,E,F
Design A,B,C,D,E,F

附件 Add-on piece

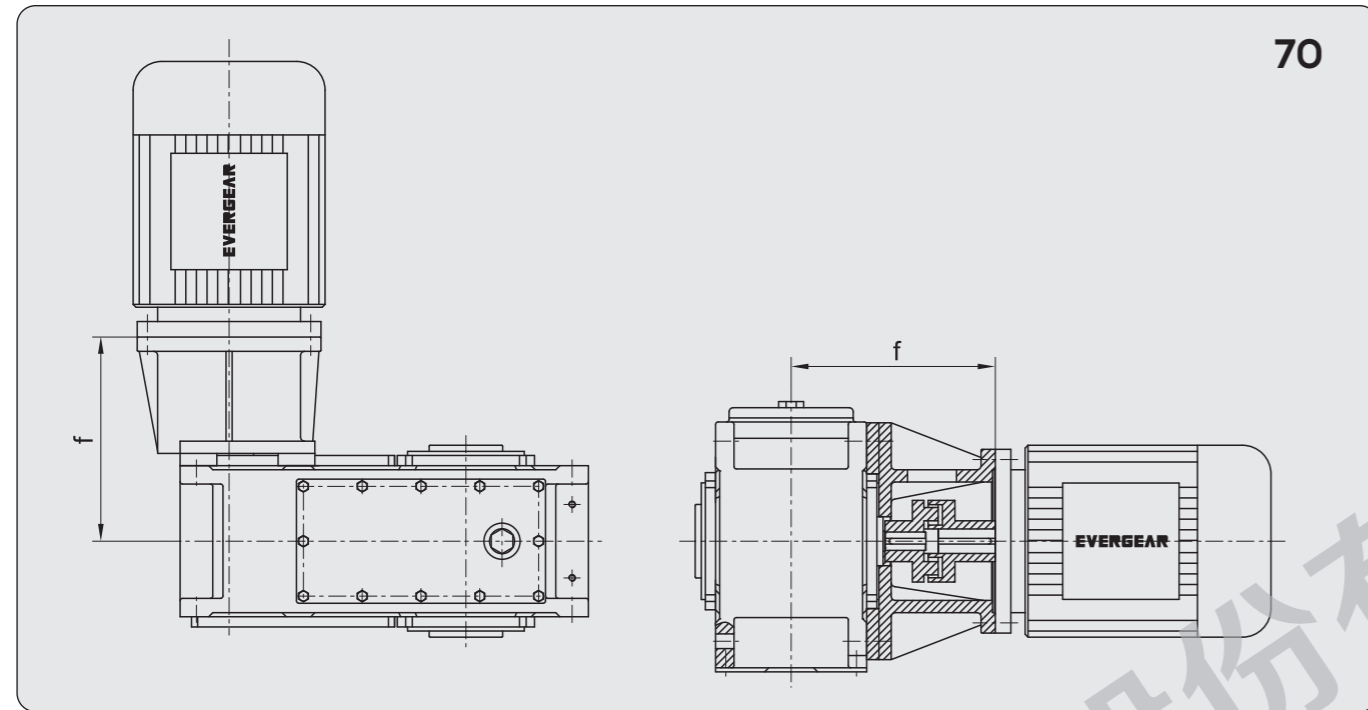
代号 code	附件 Add-on piece	页码 Page	示例 Representation
70	电机钟形支座 Moter bell housing	见339-340页 See page 338-339	
74	安装法兰 Mounting flange	见341页 See page 341	
75	扭力支撑臂 Mounting flange	见342页 See page 342	
78	逆止器 Back stop	-----	
79	内置冷却盘管 The built-in cooling coil	-----	
80	外置水冷式油冷却器 External water-cooled oil cooler	-----	
81	外置风冷式油冷却器 External air-cooled oil cooler	-----	
84	冷却风扇 cooling fan	见261-289页 See page 261-289	
85	机械油泵强制润滑 forced lubrication of mechanical oil pump	-----	
86	油泵电机组强制润滑 forced lubrication of oil pump motor set	见337页 See page 337	
87	补偿油箱漫油润滑 Dip lubrication of oil compensating tank	见297-317页 See page 297-317	
88	输出端板 Output end plate	见323-330页 See page 323-330	
89	PT100温度传感器 PT100 temperature sensor	-----	
90	输出防护罩 Output guard	-----	
96	垂直安装底座 Vertical mounting base	见343页 See page 343	



齿轮箱
Gear units

电机法兰
Flange to motor

类型 TYPES EH2...,EH3...,EH4...



EH2..					
电机功率 Motor Power	规格 Size				
	4	5/6	7/8	9	10
	f mm				
11-15kW	403				
18.5-22kW	403	428			
30kW	405	430	490		
37-45kW	442	467	527	567	572
55kW		467	527	567	572
75-90kW			527	567	572

EH4..					
电机功率 Motor Power	规格 Size				
	7/8	9	10	11/12	
	f mm				
	传动比 in Ratio in				
	≥200	≤180	≥200	≤180	
2.2-4kW	318				
5.5-7.5kW	341	379		384	
11-15kW	383	421	430	426	435
18.5-22kW		421	430	426	435
30kW			432	437	495
37-45kW			469	474	532
55kW					532

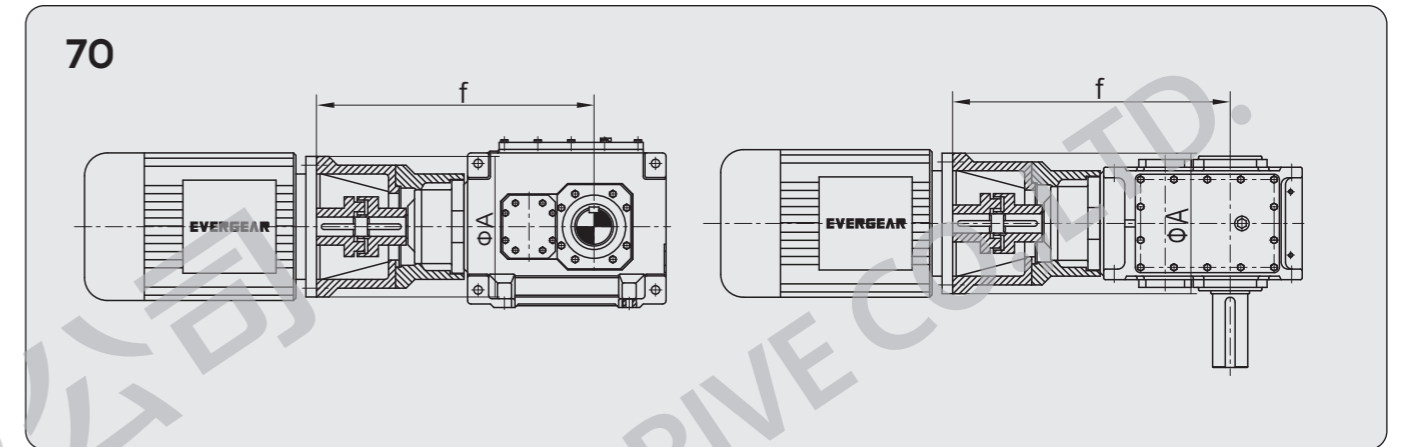
EH3..											
电机功率 Motor Power	规格 Size										
	5/6		7/8		9		10		11/12		
	f mm										
	传动比 in Ratio in										
	≥50	≤45	≥50	≤45	=50-63 ≥71	≤45	≥63	≤56	≥71	=50-63	≤45
11-15kW	316		388		463	508	468	513			
18.5-22kW	357	376	388	413	463	508	468	513			
30kW	357	376	390	415	465	510	470	515			
37-45kW	359	378	427	452	502	547	507	552	507	532	577
55kW		415	427	452	502	547	507	552	507	532	577
75-90kW		415			502	547	507	552	507	532	577

注:此表数据系电机为4级时,标准电机的安装尺寸参见第437页。
Note: Data in the above table calculated based on 4 pole motor. Fitting dimensions for standard motors see page 437

齿轮箱
Gear units

电机法兰
Flange to motor

类型 TYPES EB2...,EB3...,EB4...

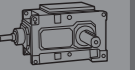
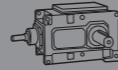


EB2..								
电机功率 Motor Power	规格 Size							
	4	5	6	7	8			
	f	A	f	A	f	A	f	A
	mm							
11-15kW	708	350						
18.5-22kW	708	350						
30kW	710	410	790	400	825			
37-45kW			827	450	862	957	450	1002
55kW						957	550	1002
75-90kW						957	550	1002

EB3..													
电机功率 Motor Power	规格 Size												
	4	5	6	7	8	9	10	11	12				
	f	A	f	A	f	A	f	A	f	A	f	A	f
	mm												
2.2-4kW	648	250											
5.5-7.5kW	671	300	756	350	791								
11-15kW	713	350	788	350	823	933	400	978					
18.5-22kW	713	350	788	350	823	933	400	978	1053	420	1103		
30kW	715	400	780	400	825	935	400	980	1055	420	1105	1240	400
37-45kW			827	450	862	972	450	1017	1092	450	1142	1277	450
55kW						972	550	1017	1092	550	1142	1277	550
75-90kW						972	550	1017	1092	550	1142	1277	550

EB4..																		
电机功率 Motor Power	规格Size																	
	5	6	7	8	9	10	11	12	13	14	15	16	17	18				
	f	A	f	A	f	A	f	A	f	A	f	A	f	A	f	A	f	
	mm																	
2.2-4kW	753	250	788	873	250	918		350										
5.5-7.5kW	776	300	811	896	300	941	1021	350	1071									
11-15kW	818	350	853	938	350	983	1053	350	1103	1253	400	1323						
18.5-22kW	818	350	853	938	350	983	1053	400	1103	1253	400	1362	1423	420	1493			
30kW				940	400	985	1055	450	1105	1255	400	1362	1423	420	1493	1682	400	1728
37-45kW							1092		1142	1292	450	1362	1462	450	1532	1719	450	1765
55kW										1292	550	1325	1462	550	1532	1719	550	1765
75-90kW										1292	550	1323	1462	550	1532	1719	550	1765

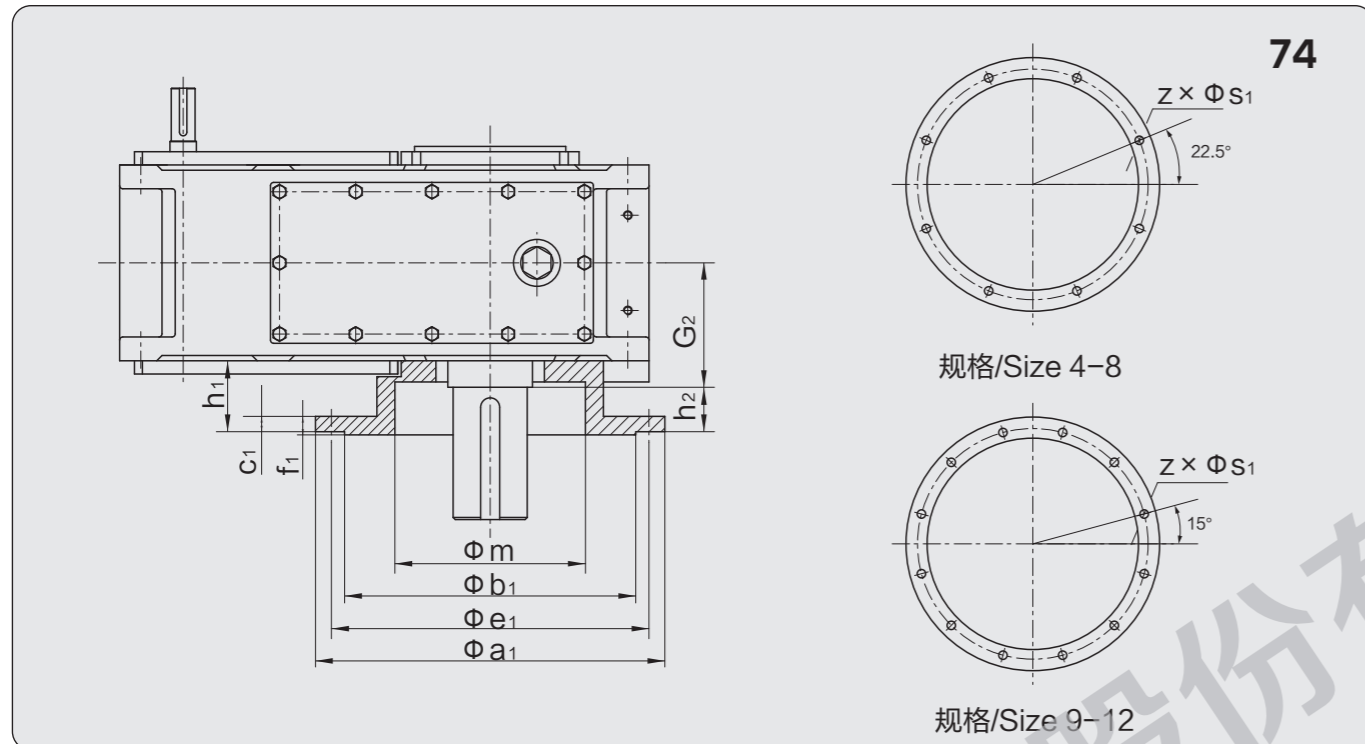
注:此表数据系电机为4级时,标准电机的安装尺寸参见第437页。
Note: Data in the above table calculated based on 4 pole motor. Fitting dimensions for standard motors see page 437.



齿轮箱
Gear units

安装法兰
Mounting flange

类型 TYPES EH2,EH3,EH4,EB3,EB4



规格 Size	a1	b1	c1	e1	f1	h1	h2	mmax	z × s1	附加重量 Add.weight	G2	
	mm										kg	EH2/3/4,EB3/4
4	450	350f7	24.5	400	5	82.5	50	153	8*17.5	40	140	170
5	550	450f7	25	500	5	90	52.5	190	8*17.5	60	165	200
6	550	450f7	25	500	5	90	52.5	245	8*17.5	65	165	200
7	660	550f7	25	600	5	135	90	250	8*22	90	195	235
8	660	550f7	30	600	5	135	90	255	8*22	100	195	235
9	660	550f7	29	600	6	134	84	290	12*22	150	235	270
10	660	550f7	34	600	6	134	89	320	12*26	160	235	270
11	800	680f7	44	740	6	184	129	340	12*26	210	270	320
12	800	680f7	44	740	6	184	129	360	12*26	220	270	320

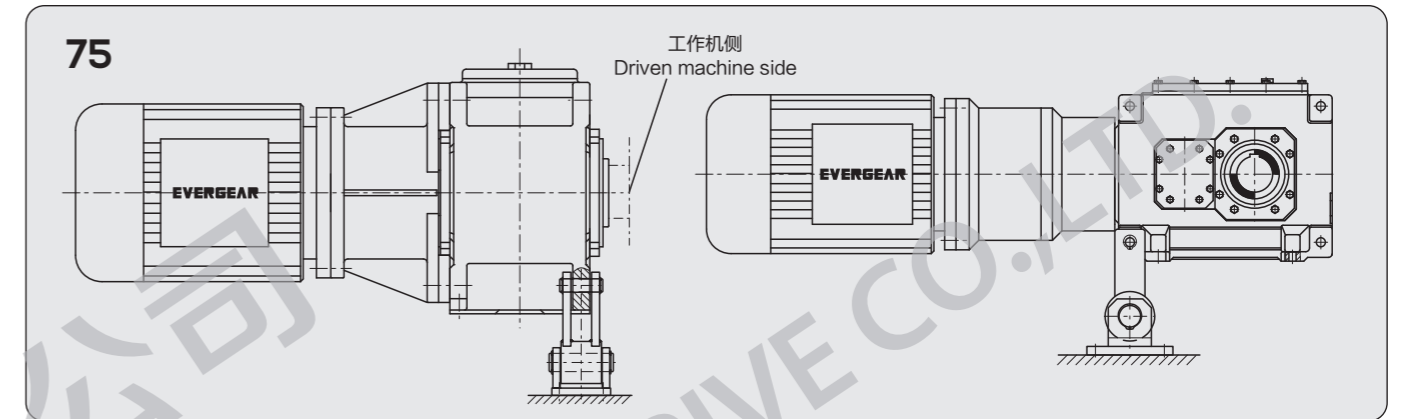
可采用的类型、规格和布置形式
Possible types, size, designs

规格 Size	EH2.H	EH2.V	EH3.H,EH4.H EB2.H,EB3.H,EB4.H	EH3.V,EH4.V EB2.V,EB3.V,EB4.V
4	A+B	B	A+B+C+D	B+C
5				
6				
7				
8	A+B+C+D	B+C	A+B+C+D	B+C
9				
10				
11	A+B	B	A+B+C+D	B+C
12	A+B+C+D	B+C		

齿轮箱
Gear units

减振扭力臂支撑
Vibration reducing torque supports

类型 TYPES EH2,EH3,EH4,EB2,EB3,EB4



最大传递扭矩受扭力臂支撑的限制: $T_{max}=f_{DMST} * T_{2Nenn}$
The maximum transmissible torque is limited by the torque support: $T_{max}=f_{DMST} * T_{2Nenn}$

表1 Table 1

类型 Type	扭力臂支撑的峰值扭矩系数 f_{DMST} Peak torque factor f_{DMST} for torque support															
	齿轮箱规格 Gear unit size															
	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19-26
EH2.	1.3	1.9	1.6	2.0	1.7	1.5	1.3	2.0	2.0	-	-	-	-	-	-	敬请垂询 On request
EH3.	-	2.0	1.7	2.0	2.0	1.6	1.4	2.0	2.0	2.0	1.9	1.5	1.4	1.2	1.2	
EH4.	-	-	-	2.0	2.0	1.7	1.4	2.0	2.0	2.0	2.0	1.7	1.5	1.3	1.2	
EB2.	1.2	1.2	1.2	1.3	1.2	1.2	1.2	1.9	1.8	1.4	1.3	-	-	-	-	
EB3.	1.2	1.6	1.4	1.8	1.6	1.2	1.2	2.0	2.0	1.8	1.7	1.4	1.3	1.2	1.2	
EB4.	-	2.0	1.7	2.0	2.0	1.7	1.4	1.2	1.2	2.0	2.0	1.6	1.5	1.3	1.2	

注:此表1数据系最小值,旋转方向和电机类型确定后有可能允许更大的峰值扭矩。请垂询!
Note: The values in the table 1 are minimum values. Dependent on direction of rotation and motortype, higher peak torques may possibly be allowed. Please consult us!

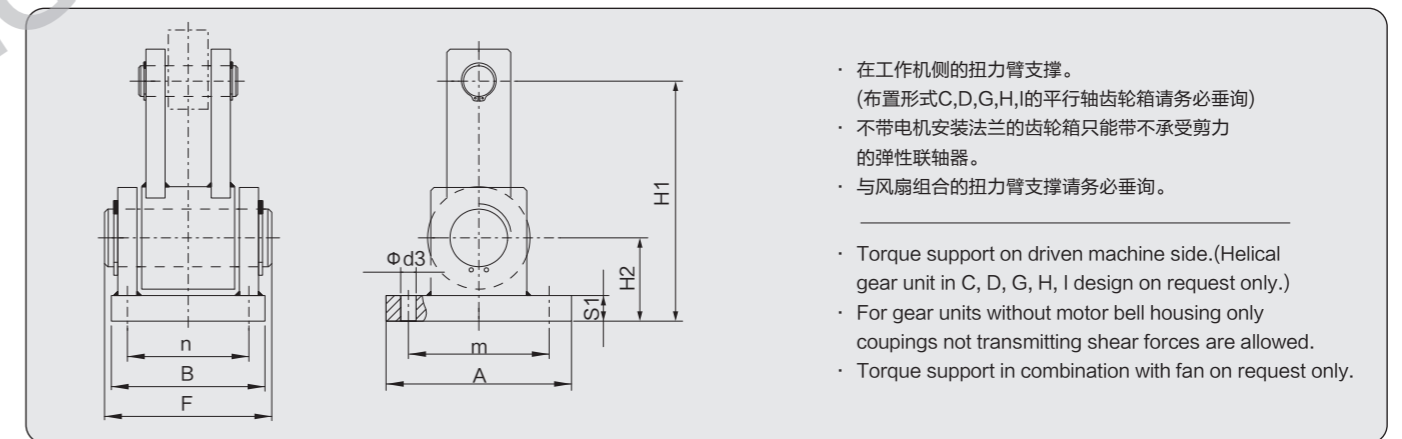
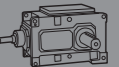
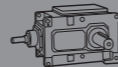


表2 Table 2

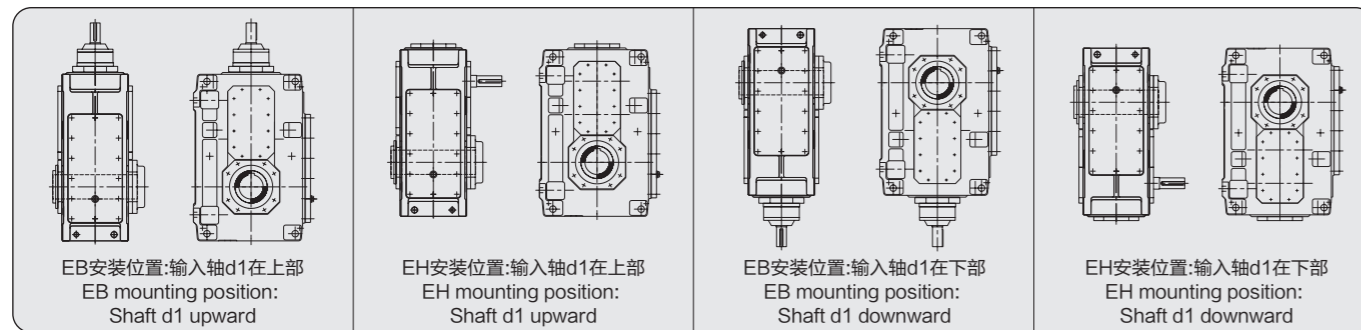
齿轮箱规格 Gear unit size	A	B	Φd3	H1	H2	m	n	S1	F	重量 Weight	
	mm										kg
4	160	110	19	200	65	120	70	15	116	6.8	
5+6	200	160	19	250	90	160	120	20	170	16	
7+8	320	200	19	400	140	260	130	25	195	37	
9+10										42	
11+12	400	300	24	500	175	320	240	30	320	155	
13+14										159	
15+16										163	
17+18										167	
19-26	敬请垂询 On request										



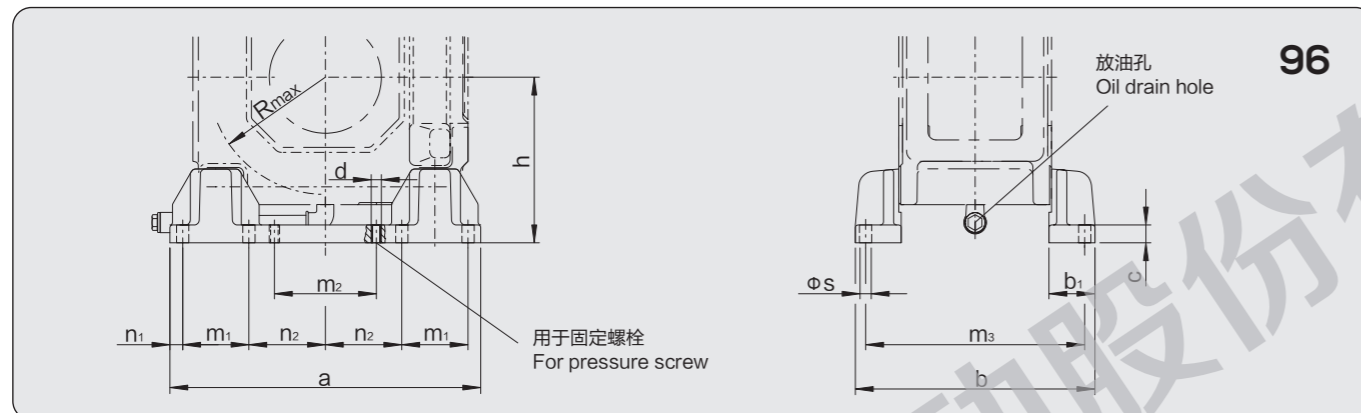
齿轮箱
Gear units

竖直安装底座
Vertical mounting

类型 TYPES EH2,EH3,EH4,EB2,EB3,EB4



对于上图所示的特殊安装位置可以采用带扭力臂支撑的轴装式或脚支座来安装。
They can be installed, for example, as shaft-mounted gear unit with torque support or by means of base rails are also available for the special mounting positions illustrated under.



规格 Size	EH2,EH3,EH4,EB2,EB3,EB4										EH2,EH3,EH4 EB3,EB4		EB2		
	a	b ₁	c	4*d	h	m ₁	m ₂	n ₁	n ₂	8*φs	R _{max}	b	m ₃	b	m ₃
4	450	70	28	M16	255	110	130	20	95	19	160	355	315	410	370
5					270						190				
6	510	70	28	M16	315	110	170	20	125	19	220	395	355	460	420
7					325						230				
8	610	85	35	M20	385	130	200	25	150	24	270	470	420	550	500
9					380						260	580	520		
10	710	105	40	M24	430	160	230	30	165	28	300	590	530	650	590
11					435						340				
12	860	115	50	M30	520	190	270	35	205	35	380	660	590	760	690
13					430						300				
14	965	97.5	60	M30	500	260	230	37.5	185	35	360	745	665	850	770
15					505						350	840	750	980	890
16	1060	107.5	70	M36	550	300	190	45	185	42	400				
17					550						390	930	820	1125	1015
18	1210	120	80	M42	610	340	250	55	210	48	440				

规格Size	EH2	EH3	EH4	EB2	EB3	EB4
4-12	浸油润滑 Dip lubrication	带补偿油箱的浸油润滑 Dip lubrication with oil compensating tank	带补偿油箱的浸油润滑 Dip lubrication with oil compensating tank	带法兰泵的强制润滑 Forced lubrication with flanged-on pump	带法兰泵的强制润滑 Forced lubrication with flanged-on pump	带法兰泵的强制润滑 Forced lubrication with flanged-on pump
13-18	带法兰泵的强制润滑 Forced lubrication with flanged-on pump	带法兰泵的强制润滑 Forced lubrication with flanged-on pump	带电机泵的强制润滑 Forced lubrication with motor pump	带法兰泵的强制润滑 Forced lubrication with flanged-on pump	带法兰泵的强制润滑 Forced lubrication with flanged-on pump	带电机泵的强制润滑 Forced lubrication with motor pump

请注意提供油设备(油泵,油管等...)的安装空间!
Take into account space required for oil supply elements (pump, pipes, etc.)

具体尺寸请垂询。
Dimensions on request.

1 主齿轮箱型号说明
Explanation of main gear unit type

例 Example: EB3SH18-63-D-CW/EKF127-Y37-24.91

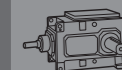
型号说明	上例说明	Explanation of types	Explanation of the above example
系列类型:EB 直交轴系列	直交轴系列	Types:EB Bevel-helical	Bevel-helical
传动级数:3 三级	三级	Number of stages:3 3-stage	3-stage
输出轴结构形式: S 实心轴 H 空心轴 D 带胀紧盘空心轴	实心轴输出	Output shaft design: S Solid shaft H Hollow shaft D Hollow shaft for shrink disk	Solid shaft
安装方式: H 卧式带底脚	卧式带底脚安装	Mouting positions:H Horizontal	Horizontal
规格代号:4~18	18机座号	Size:sizes 4~18	size 18
公称传动比:公称传动比 _i (见选型参数表)	公称传动比 i _n =63	Nominal ratio: Nominal ratio i _n [see selection table]	Nominal ratio i _n =63
轴(轴布置形式): B、D(见362页)	装配布置形式为D	Design of shaft: B、D (see page 362)	Design D
输入轴旋转方向 (面向输入轴方向看): CW 顺时针 CCW 逆时针	输入轴为顺时针方向	Direction of rotation of input shaft: (viewing on input shaft) CW Clockwise CCW Counter clockwise	Direction of rotation of input shaft is clockwise

2 辅传齿轮箱型号说明
Explanation of auxiliary gear motor type

型号说明	上例说明	Explanation of types	Explanation of the above example
系列类型:EK 螺旋锥齿轮箱	螺旋锥齿轮箱	Types:EK Helical-bevel gear motor	Helical-bevel gear motor
结构形式:F 轴伸法兰式	轴伸法兰式	Structure: F Flange mounted solid output shaft	Flange-mounted solid shaft output
机座号:47...127	127机座号	Size: 47...127	Size 127
电机:电机功率	37kw普通电机	Motor: motor power	37kw Ordinary motor
传动比:见EK参数表	传动比:24.91	Ratio:see EK	Ratio:24.91

注:
1) 使用国产及国外逆止器、超越离合器时,尺寸略有不同(见362页外形尺寸),请特别说明。
2) 主齿轮箱规格确定后,依据辅传驱动为空载和载重不同工作情况,辅传齿轮箱型号基本确定。

Note:
1) Please specially designate when domestic or imported backstop and overrunning clutch are used, as the dimensions are slightly different[see page 362 gear units mounting dimensions for detail].
2) Auxiliary gear motor type is basically determined depend on the auxiliary drive working under maintenance or under load condition after main gear unit has been selected.



齿轮箱 一般说明 Gear Units General Information

注意事项
Attention



应严格遵守以下各项:

- 样本中的附图只属范例,并不要求严格一致,所注尺寸允许变动。
- 所注重量仅为平均值,并不要求严格一致。
- 为防止发生事故,所有旋转部件应按安全规定加罩防护。
- 试车前,必须认真阅读外部操作说明。齿轮箱供货时已经做好运行准备,只是未加润滑油。
- 给出的加油量只作为参考值,实际油量应以油尺上的标注为准。
- 润滑油粘度须以齿轮箱铭牌上的数值为准。
- 采用国产逆止器、超越离合器时,需给逆止器和联接法兰之内的超越离合器加注润滑脂(2号锂基润滑脂可满足要求),并定期更换。采用国外逆止器、超越离合器时,需向联接法兰内加注润滑油(采用与主减速机同样规格润滑油)以润滑超越离合器,油位以略低于连接法兰视孔即可。

The following items are absolutely to be observed:

- Illustrations are examples only and are not strictly binding. Dimensions are subject to change
- The weights are mean values and not strictly binding.
- To prevent accidents, all rotating parts should be guarded according to local and national safety regulations.
- Prior to commissioning, the operating instructions must be observed. The gear units are delivered ready for operation but without oil filling.
- Oil quantities given are guide values only. The exact quantity of oil depends on the marks on the oil dipstick.
- The oil viscosity has to correspond to the data given on the name plate.
- If domestic backstop and overrunning clutch are used, please lubricate them with grease (No.2 lithium grease can meet requirement), and change periodically. If imported backstop and overrunning clutch are used, please fill lubrication into the connecting flange to lubricate the overrunning clutch, as the backstop is lubricated with splash oil.

有关外形尺寸图中的符号说明如下:

Explanations of symbols used in the dimensioned drawings:



油尺
Oil dipstick



通气孔
Breather



放油孔
Oil drain



加油孔
Oil filler

基础螺栓的最低性能等级为8.8级。

Foundation bolts of function class 8.8.

齿轮箱 选型指南 Gear Units Guidelines for the Selection

1. 确定齿轮箱的类型及规格 Determination of gear unit type and size

1.1 计算传动比
Calculate the transmission ratio

$$iS = \frac{n_1}{n_2}$$

1.2 确定齿轮箱的额定功率
Determine nominal power rating of the gear unit

$$P_N \geq P_2 \times f_1 \times S_A$$

如果不满足下列条件,请向我们咨询
It is not necessary, please consult us, if:

$$3.33 \times P_2 \geq P_N$$

1.3 校核最大扭矩,如峰值工作扭矩、起动扭矩或制动扭矩,看其是否满足要求
Check for maximum torque, e. g. peak operating-, starting- or braking torque

$$P_N \geq \frac{T_A \times n_1}{9550} \times 0.5$$

齿轮箱的规格和传动级数列在额定功率选型表中,可根据*i_N*和*P_N*确定。
Gear unit sizes and number of reduction stages are given in rating tables depending on *i_N* and *P_N*

1.4 根据363页上的表检查实际传动比是否满足要求。
Check whether the actual ratio *i* as per tables on page 363 is acceptable

2. 确定供油方式 Determination of oil supply

所有需要润滑的零部件均浸在润滑油中;
采用飞溅润滑方式;
也可按用户要求提供强制润滑方式。
All parts to be lubricated are lying in the oil or are splash lubricated or are forced lubrication on request.

卧式安装 Horizontal

3. 确定所需要的热容量PG Determination of required thermal capacity PG

3.1 如满足以下条件,则齿轮箱可不带辅助冷却装置:
Adequate for gear units without auxiliary cooling, if:

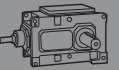
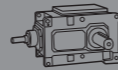
$$P_2 \leq P_G = P_{G1} \times f_4 \times f_7$$

3.2 如满足以下条件,则齿轮箱带冷却风扇可满足要求:
Adequate for gear units with fan cooling, if:

$$P_2 \leq P_G = P_{G2} \times f_4 \times f_7$$

3.3 如需要较高的热容量,则可按用户要求提供外部润滑油冷却装置进行冷却。
For higher thermal capacities, cooling by external oil cooler on request

卧式安装 Horizontal



齿轮箱 符号说明 Gear Units Key to Symbols

E_D	每小时工作周期,以百分比表示,如ED=80% / h Operating cycle per hour in%, e.g. ED=80% / h	f₁	工作机最低工况系数(表1),348页 Factor for driven machine(table 1), page 348
f₄	环境温度系数(表4),348页 Factor for ambient temperature (tables 4), page 348	f₇	海拔高度系数(表7),348页 Factors for altitude (tables 7), page 348
S_A	减速机安全系数(表15),348页 Safety factor (tables 15), page 348	i	实际传动比 Actual ratio
i_N	公称传动比 Nominal ratio	i_s	要求传动比 Required ratio
n₁	输入转速(r/min) Input speed(r/min)	n₂	输出转速(r/min) Output speed(r/min)
P_G	要求的热容量 Required thermal capacity	P_{G1}	齿轮箱的热容量,不带辅助冷却装置,351-352页 Thermal capacity for gear units without auxiliary cooling, page 351-352
P₂	工作机的额定功率(KW) Power rating of driven machine (KW)	t	环境温度 (°C) Ambient temperature (°C)
T_A	输入轴最大扭矩,如峰值工作扭矩、启动扭矩或制动扭矩 (N.m) Max. torque occurring on input shaft, e.g. peak operating-, starting- or braking torque(N.m)	T_{2N}	额定输出扭矩(kN.m),252页 Nominal output torque (kN.m), page 252
T₃	在通过辅助传动装置传动时(50Hz;n ₁ =1500r/min输入),输出轴的输出扭矩(kN.m),见349页 Output torque (kN.m) on main gear unit output shaft(input 50Hz;n ₁ =1500r/min), in case of input via auxiliary drive, page 349		

齿轮箱 选型指南/计算示例 Gear Units Guidelines for the Selection/Calculation Example

已知参数 Known parameter	
原动机 电动机: P ₁ =75 kW 电机转速: n ₁ =1500 rpm 最大启动扭矩: T _A =720 N.m	PRIME MOVER Electric motor: P ₁ =75 kW Motor speed: n ₁ =1500 rpm Max. starting torque: T _A =720 N.m
工作机 Driven machine	
皮带输送机功率: P ₂ =63 kW 转速: n ₂ =26 rpm 工作制: 12 小时/天 每小时启动次数: 5 每小时工作周期: ED=100% 环境温度: 30 °C 室外安装(风速): (w ≥ 4m/s) 海拔高度: 海平面	Belt conveyor: P ₂ =63 kW Speed: n ₂ =26 rpm Duty: 12 h/day Starts per hour: 5 Operating cycle per hour: ED=100% Ambient temperature: 30 °C Outdoor installation: (w ≥ 4m/s) Altitude: sea level
齿轮箱设计 Gear unit design	
直交轴齿轮箱 安装方式: 卧式安装 输出轴d ₂ : 位于齿轮箱右侧(面对输入轴),即布置型式C 输出轴d ₂ 转动方向: ccw	Bevel-helical gear unit Mounting position: horizontal Output shaft d ₂ : on right hand side design C Direction of rotation of output shaft d ₂ : ccw
选择齿轮箱的类型及规格 Selection of gear unit type and size	
1.1 传动比计算: Calculation of transmission ratio	$i_s = \frac{n_1}{n_2} = \frac{1500}{26} = 57.7 \quad i_N = 56$
1.2 确定额定功率 Determination of the gear unit nominal power rating	$P_N \geq P_2 \times f_1 \times f_2 \times S_A = 63 \times 1.5 \times 1 \times 1.25 = 118.125 \text{ kW}$
从额定功率表中选择: 类型 EB3 , 规格 10 , 对应的 P _N = 122 kW Selected from power rating table: type EB3, gear unit size 10, with P _N = 122 kW	$3.33 \times P_2 \geq P_N \quad 3.33 \times 63 = 219.8 \text{ kW} > P_N$
1.3 检查启动扭矩 Checking the starting torque	$P_N \geq \frac{T_A \times n_1}{9550} \times 0.5 = \frac{720 \times 1500}{9550} \times 0.5 = 56.5 \text{ kW} \quad P_N 122 \text{ kW} > 56.5 \text{ kW}$
确定热容量 Determination of thermal capacity	
2.1 根据表中给出的EB3型齿轮参数, 计算不带辅助冷却装置的齿轮箱热容量 Thermal capacity for gear units without auxiliary cooling, acc. to table for type EB3	$P_G = P_{G1} \times f_4 \times f_7 \quad P_{G1} = 72 \text{ kW} \times 0.88 \times 1 = 63.36 \text{ kW} \quad P_2 = 63 \text{ kW} < P_G = 63.36 \text{ kW}$

结论: 可选用不带冷却装置的减速机

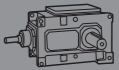
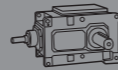


表1 工作机系数^{f₁} Table 1 Factor for driven machine^{f₁}

工作机 Driven machines	日工作小时数 Effective daily operating period under load in hours		
	≤0.5	0.5~10	>10
斗式输送机 Bucket conveyors	-	1.4	1.5
绞车 Hauling winches	1.4	1.6	1.6
卷扬机 Hoists	-	1.5	1.8
带式输送机 ≤150kW Belt conveyors ≤150kW	1.0	1.2	1.3
带式输送机 >150kW Belt conveyors >150kW	1.1	1.3	1.4

工作机 Driven machines	日工作小时数 Effective daily operating period under load in hours		
	≤0.5	0.5~10	>10
货用电梯 Goods lifts	-	1.2	1.5
客用电梯 Passenger lifts	-	1.5	1.8
刮板式输送机 Apron conveyors	-	1.2	1.5
自动扶梯 Escalators	1.0	1.2	1.4
轨道车辆 Railway Vehicles	-	1.5	-

表4 环境温度系数^{f₄} Table 4 Thermal factor^{f₄}

(不带辅助冷却装置或仅带冷却风扇进行冷却)
(Gear units without auxiliary cooling or with fan)

环境温度 Ambient	每小时工作周期(ED)百分比% Operating cycle per hour(ED)in%				
	100	80	60	40	20
10°C	1.14	1.20	1.32	1.54	2.04
20°C	1.00	1.06	1.16	1.35	1.79
30°C	0.87	0.93	1.00	1.18	1.56
40°C	0.71	0.75	0.82	0.96	1.27
50°C	0.55	0.58	0.64	0.74	0.98

表7 海拔高度系数^{f₇} Table 7 Factor for altitude^{f₇}

(不带辅助冷却装置或仅带冷却风扇进行冷却)
(Gear units without auxiliary cooling or with fan)

系数 Factor	海拔高度(m,高于海平面) Altitude(metres above MSL)				
	高达 Up to	高达 Up to	高达 Up to	高达 Up to	高达 Up to
	1000	2000	3000	4000	5000
f ₇	1.0	0.95	0.90	0.85	0.80

表15 减速机安全系数^{S_A} Table 15 Safety coefficient^{S_A}

重要性与安全要求 Importance and safety requirement	S _A
一般设备, 减速机失效仅引起单机停产且易更换配件 The failure of ordinary equipment and speed reducer can only result in production halts of single machine and replacement of spare parts.	1.1-1.3
重要设备, 减速机失效仅引起机组、生产线或全厂停产 The failure of ordinary equipment and speed reducer can only result in production halts of machines, production lines or the whole factory.	1.3-1.5
高度安全要求, 减速机失效引起设备、人身事故 Higher safety requirements, the failure of speed reducer can cause the incident of equipment and human body.	1.5-1.7

1.工作机额定功率P₁的确定
*) 按最大转矩确定额定功率
**) 检验热功率是完全必要的
所列各项系数均为经验值。
使用这些系数的前提条件是所述机械应符合通常的设计规范和载荷条件。
如遇特殊情况请及时与我司联系。

1.Determination for power rating of driven machine P₁
*) Determine power corresponding to max.torque
**) A check for thermal capacity is absolutely essential
The listed factors are empirical values.Prerequisite for their application is that the machinery and equipment mentioned correspond to generally accepted design and load specifications.
In case of deviations from standard conditions, please refer to us.

2.关于热容量的说明:
所给出的数值适用于安装地点 ≤1000m
风速 ≥1.4m/s(安装地点:室内大厅或大车间)

2.Notes on the thermal capacities:
The values listed refer to place of installation ≤1000m
Wind velocity ≥1.4m/s(Place of installation: large halls)

齿轮箱 辅助驱动 Gear Units Auxiliary Drive

类型 EB3... 规格 4...18

依据不同的使用要求,每种规格的减速机有两种辅传驱动型式:

空载驱动: 斗式提升机空载(空斗)时,辅传齿轮箱驱动斗式提升机以较低转速同向移动。

载荷驱动: 斗式提升机满载(满斗)时,辅传减速机驱动斗式提升机以较低转速同向移动。

Dependent on the case of application,for each gear unit size two different auxiliary drives are available:

No-load Drive:The motor of the auxiliary drive is moved in such a way that the bucket elevator can be operated with empty buckets at low speed in the same direction of rotation.

Operation under load:The motor of the auxiliary drive is moved in such a way that the bucket elevator can be operated with full buckets at low speed in the same direction of rotation.

辅传驱动结构设计

辅传齿轮箱为EKF系列带直联电机的锥齿轮减速机,通过中间法兰与主减速机相连并自动离合。中间法兰内部的超越离合器,有独立油润滑和加润滑油两种形式。EKF锥齿轮减速机也为独立油润滑方式,出厂前已加注润滑油。

Design of auxiliary drives

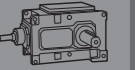
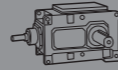
The auxiliary drive is a bevel-helical gear motor type EKF,which is flanged to the main gear unit by means of an intermediate flange and is coupled to the main gear units via an overrunning clutch. The overrunning clutch is located in the intermediate flange, and lubricated with its own oil or grease. The bevel-helical gear motor type EKF has an own oil filling and is before leave factory filled with oil.

主齿轮箱 Main gear unit	空载驱动 No-load drive						载荷驱动 Operation under load					
	1) n _s [min ⁻¹]	1) T _s [kNm]	2) 齿轮箱 Gear unit	P _u [kW]	输出轴 d×l [mm]	i	1) n _s [min ⁻¹]	1) T _s [kNm]	2) 齿轮箱 Gear unit	P _u [kW]	输出轴 d×l [mm]	i
4	2.7	2.7	EKF47-Y0.75-35.93	0.75	30X60	35.93	2.7	4.0	EKF57-Y1.1-36.37	1.1	35x70	36.37
5	2.6	5.4	EKF57-Y1.5-36.37	1.5	35X70	36.37	3.4	6.2	EKF67-Y2.2-28.28	2.2	40x80	28.28
6	2.1	6.7	EKF57-Y1.5-36.37	1.5	35X70	36.37	2.7	7.6	EKF67-Y2.2-28.28	2.2	40x80	28.28
7	3.4	6.2	EKF67-Y2.2-28.28	2.2	40x80	28.28	3.4	11.2	EKF77-Y4-27.99	4.0	50x100	27.99
8	2.7	7.8	EKF67-Y2.2-28.28	2.2	40x80	28.28	2.7	14.1	EKF77-Y4-27.99	4.0	50x100	27.99
9	2.9	9.7	EKF77-Y3-31.98	3.0	50X100	31.98	2.6	20.1	EKF87-Y5.5-36	5.5	60x120	36
10	2.3	12.2	EKF77-Y3-31.98	3.0	50X100	31.98	2.1	25.2	EKF87-Y5.5-36	5.5	60x120	36
11	2.3	12.5	EKF77-Y3-41.95	3.0	50X100	41.95	3.0	35.3	EKF97-Y11-32.44	11.0	70x140	32.44
12	1.8	15.8	EKF77-Y3-41.95	3.0	50X100	41.95	2.3	44.9	EKF97-Y11-32.44	11.0	70x140	32.44
13	2.2	17.7	EKF87-Y4-43.39	4.0	60X120	43.39	3.4	51.4	EKF107-Y18.5-27.33	18.5	90x170	27.33
14	1.7	21.9	EKF87-Y4-43.39	4.0	60X120	43.39	2.8	63.7	EKF107-Y18.5-27.33	18.5	90x170	27.33
15	2.2	17.0	EKF87-Y4-43.39	4.0	60X120	43.39	3.9	73.2	EKF127-Y30-24.91	30.0	110x210	24.91
16	2.0	19.3	EKF87-Y4-43.39	4.0	60X120	43.39	3.4	83.1	EKF127-Y30-24.91	30.0	110x210	24.91
17	2.2	17.3	EKF87-Y4-43.39	4.0	60X120	43.39	3.8	92.1	EKF127-Y37-24.91	37.0	110x210	24.91
18	1.9	20.1	EKF87-Y4-43.39	4.0	60X120	43.39	3.3	106.9	EKF127-Y37-24.91	37.0	110x210	24.91

减速机布置形式 Design of gear units

主齿轮箱EB布置形式: D 齿轮减速机电机EKF输出轴方向: A Design of main gear unit EB: D Output shaft direction of gear motor EKF: A	主齿轮箱EB布置形式: B 齿轮减速机电机EKF输出轴方向: B Design of main gear unit EB: B Output shaft direction of gear motor EKF: B
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注:
1) 辅传驱动输入时主齿轮箱输出轴上转速、转矩(50Hz,n₁=1500min⁻¹);
2) 齿轮减速机电机EKF规格。
Note:
1) Output speed and torque on main gear unit output shaft in case of input via auxiliary drive(50Hz,n₁=1500min⁻¹);
2) Gear motor EKF size.



直交轴齿轮箱 Bevel-helical gear units
额定功率 Nominal Power Ratings

类型 TYPES EB3...
规格 SIZES 4...18

Table with columns for gear unit sizes (4-18) and rows for different gear ratios (i) and speeds (n1, n2). Includes sub-headers for 'Gear unit sizes' and 'Nominal power ratings Pn (KW)'.

卧式设计齿轮箱要采用强制润滑 Forced lubrication required on horizontal gear units
* 敬请垂询 Gear units only on request

直交轴齿轮箱 Bevel-helical gear units
热功率 Thermal capacities

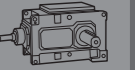
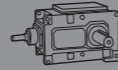
类型 TYPES EB3...
规格 SIZES 4...18

Table with columns for gear unit sizes (4-18) and rows for different gear ratios (i) and speeds (n). Includes sub-headers for 'Gear unit sizes' and 'Thermal capacities'.

PG1、PG2、PG3、PG4见214页 See page 214 for PG1、PG2、PG3、PG4

Table with columns for gear unit sizes (4-18) and rows for different gear ratios (i) and speeds (n). Includes sub-headers for 'Gear unit sizes' and 'Thermal capacities'.

PG1、PG2、PG3、PG4见214页 See page 214 for PG1、PG2、PG3、PG4



直交轴齿轮箱
Bevel-helical gear units

热功率
Thermal capacities

类型 TYPES EB3...
规格 SIZES 4...18

i	齿轮箱规格 Gear unit sizes															
	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
n=1500r/min 额定热功率																
25	PG1	31.9	43.3	50.1	66.2	75.2	86.9	92.8	109	130	128	150	153	160	*	*
	PG2	66.7	96.6	110	151	170	209	223	307	375	395	466	537	585	681	732
	PG3	73.6	122	135	208	232	310	347	408	590	632	762	970	1078	1181	1294
	PG4	102	168	186	284	317	422	466	584	817	870	1045	1297	1440	1629	1780
28	PG1	30.9	42.5	50	64.1	74.4	85	93.1	109	131	131	155	168	172	183	182
	PG2	63.9	93.3	109	143	165	199	220	296	363	380	452	535	562	689	711
	PG3	69.4	116	134	193	225	288	336	382	554	590	715	939	987	1157	1193
	PG4	96.7	159	185	264	306	395	455	549	767	819	985	1265	1326	1605	1650
31.5	PG1	29.4	40.7	47.8	61.7	72.7	82.7	90.7	106	129	131	154	170	183	190	199
	PG2	60.7	88.5	103	136	160	190	210	282	344	365	430	508	558	658	712
	PG3	65.2	108	126	180	215	271	312	356	508	550	658	857	952	1067	1165
	PG4	90.8	149	175	247	292	370	424	514	709	766	912	1162	1288	1487	1620
35.5	PG1	27.8	38.6	46.4	59.1	69.8	79.6	87.7	105	125	130	151	173	181	196	203
	PG2	56.8	83	99.8	129	152	181	199	271	328	353	412	495	526	644	677
	PG3	59.9	99.3	119	167	200	248	292	338	475	524	615	819	871	1021	1071
	PG4	83.7	138	166	229	272	341	396	487	661	732	855	1114	1181	1429	1498
40	PG1	24.3	33.7	44.3	52	67.1	75	84.4	100	121	125	147	168	180	194	204
	PG2	49.4	71.6	94.6	112	144	168	191	255	310	334	392	469	510	614	657
	PG3	50.5	82.7	111	138	187	224	274	310	440	484	574	758	829	954	1022
	PG4	70.6	115	155	191	254	309	372	449	616	678	798	1035	1129	1339	1434
45	PG1	23.8	32.9	41.8	50.8	64	69.4	80.8	93.2	118	117	144	160	176	187	203
	PG2	48.3	69.8	88.5	108	137	154	180	234	298	306	377	434	484	572	629
	PG3	49	79.7	102	133	172	202	251	280	417	435	544	684	768	868	960
	PG4	68.7	111	142	183	236	279	342	407	585	607	760	936	1049	1221	1346
50	PG1	24.2	33	36.8	50.7	56.9	69.3	77	95.8	115	124	142	174	174	210	204
	PG2	48.7	69.2	76.9	106	119	151	169	232	281	310	358	445	453	593	594
	PG3	49.1	77.7	85.8	129	144	194	228	274	384	433	506	692	696	884	880
	PG4	68.5	108	119	177	197	269	312	396	539	610	709	944	956	1242	1240
56	PG1	22.4	30.7	36.2	47.5	55.7	64.8	72	88.9	108	117	135	167	186	203	225
	PG2	44.8	64	75.1	99.5	116	140	155	211	260	285	330	411	461	552	612
	PG3	44.2	70.1	82.9	117	138	174	206	243	345	389	451	622	702	800	891
	PG4	62.1	98.3	115	162	190	241	281	354	488	547	637	852	962	1128	1255
63	PG1	21.6	29.5	36	46.1	55.2	62.8	71	86.3	108	114	138	162	173	199	211
	PG2	43.2	61.6	74.2	96.2	114	135	151	203	255	275	332	393	422	529	563
	PG3	41.9	66.2	80.8	111	134	164	197	229	335	366	451	585	627	755	805
	PG4	58.9	93	112	154	185	229	269	334	471	517	633	802	862	1071	1133
71	PG1	20	28.2	33.3	43.9	51.4	59	65.9	80.2	99.9	107	127	155	167	190	205
	PG2	40	58.5	68.4	91.7	106	126	140	189	232	258	302	372	404	498	539
	PG3	38	61.3	73	103	122	148	177	206	297	331	404	538	591	698	760
	PG4	53.7	86.5	102	143	168	209	243	301	421	469	567	743	813	990	1075

PG1、PG2、PG3、PG4见214页 See page 214 for PG1、PG2、PG3、PG4

直交轴齿轮箱
Bevel-helical Gear Units

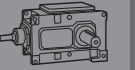
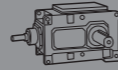
实际传动比
Actual Ratios

类型 TYPES EB3...
规格 SIZES 4...18

i _N	齿轮箱规格 Gear unit sizes									
	4	5	6	7	8	9	10	11	12	13
25	25.380	25.421	24.349	25.446	25.152	25.843	25.400	25.185	25.103	
28	27.836	27.881	27.211	28.125	27.923	28.563	27.842	27.836	27.517	
31.5	30.196	30.245	31.508	30.509	32.084	30.985	32.400	31.975	32.021	
35.5	34.771	34.827	34.557	35.131	35.461	35.679	35.811	34.771	35.392	
40	39.487	39.551	37.486	39.896	38.468	40.902	38.846	39.861	40.654	
45	43.077	43.146	43.166	43.523	44.296	44.202	44.732	43.077	44.209	
50	49.060	49.139	49.021	49.568	50.304	50.341	51.280	49.060	50.681	
56	55.152	55.240	53.477	55.723	54.877	56.592	55.417	55.152	54.769	
63	60.808	60.906	60.904	61.438	62.499	62.396	63.114	60.808	62.376	
71	69.293	69.404	68.467	70.011	70.259	71.102	70.951	69.293	70.121	

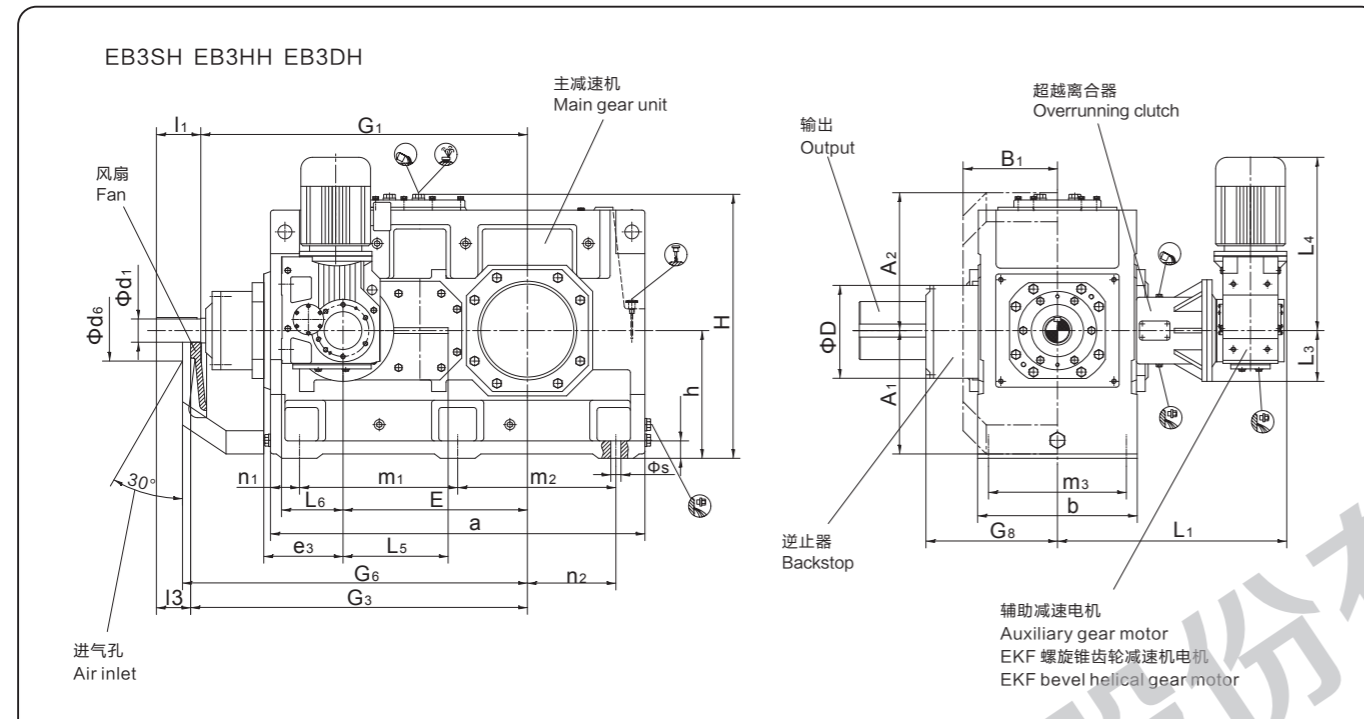
i _N	齿轮箱规格 Gear unit sizes					
	13	14	15	16	17	18
25	25.864	25.131	24.916	24.842	25.409	25.936
28	28.587	27.548	27.847	28.263	28.398	29.507
31.5	32.838	32.057	31.634	31.588	32.259	32.979
35.5	35.709	35.432	34.400	35.883	35.080	37.463
40	40.936	40.700	39.435	39.021	40.215	40.738
45	44.238	44.259	42.617	44.732	43.460	46.702
50	50.383	50.737	48.536	48.341	49.496	50.469
56	56.639	54.831	54.562	55.055	55.641	57.479
63	62.448	62.446	60.158	61.892	61.348	64.616
71	71.161	70.200	68.553	68.239	69.909	71.243

i	齿轮箱规格 Gear unit sizes															
	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
n=1800r/min 额定热功率																
25	PG1	32.3	43	49.4	64.6	72.5	82.8	87.2	110	102	116	*	*	*	*	
	PG2	74.1	106	122	165	186	228	243	329	398	414	486	544	587	674	714
	PG3	80.9	134	148	227	254	337	377	440	634	675	813	1020	1128	1229	1339
	PG4	115	189	209	319	355	471	520	647	901	954	1143	1399	1546	1738	1890
28	PG1	31.4	42.6	49.9	63.4	72.9	82.5	89.4	100	117	112	130	*	*	*	*
	PG2	71.1	103	121	157	182	218	240	320	390	404	479	554	577	700	716
	PG3	76.5	127	147	211	246	315	367	414	598	635	767	998	1044	1218	1251
	PG4	109	179	209	296	344	442	509	611	851	903	1085	1378	1440	1734	1776
31.5	PG1	30.1	41	48	61.6	72	81.3	88.4	100	118	116	135	137	142	*	*
	PG2	67.6	98.1	114	150	177	209	230	306	371	391	460	534	582	681	731
	PG3	71.8	119	139	198	236	297	341	387	551	594	710	916	1015	1133	1233
	PG4	102	169	197	278	328	415	476	573	788	849	1009	1274	1409	1619	1759
35.5	PG1	28.5	39.1	46.9	59.4	69.7	78.9	86.3	100	118	119	137	146	149	155	155
	PG2	63.3	92.1	110	142	168	199	219	296	356	381	443	525	555	674	705
	PG3	66.1	109	131	184	219	272	320	369	516	568	666	880	933	1091	1141
	PG4	94.6	155	187	258	306	384	445	544	738	814	949	1228	1299	1566	1636
40	PG1	25	34.2	44.9	52.4	67.2	74.7	83.6	97	115	116	136	146	153	160	164
	PG2	55.1	79.6	105	124	160	186	211	279	337	362	424	500	541	647	690
	PG3	55.7	91	123	152	205	246	300	339	480	526	623	816	891	1022	1092
	PG4	79.8	129	175	215	286	348	418	503	688	755	888	1144	1245	1472	1572
45	PG1	24.5	33.5	42.5	51.3	64.4	69.5	80.4	90.8	110	110	134	142	154	159	169
	PG2	53.9	77.7	98.4	120	151	170	199	257	326	333	409	465	517	607	665
	PG3	54.1	87.8	113	147	190	222	275	306	454	473	592	739	828	933	1029
	PG4	77.7	125	161	206	265	314	384	457	655	677	847	1037	1160	1346	148



直交轴齿轮箱 Bevel-helical gear units 三级传动 Three Stage 带辅传 with Auxiliary Drive 空载驱动 No-load Drive 类型 TYPES EB3... 规格 SIZES 13...18

直交轴齿轮箱 Bevel-helical gear units 三级传动 Three Stage 带辅传 with Auxiliary Drive 空载驱动 No-load Drive 类型 TYPES EB3... 规格 SIZES 13...18

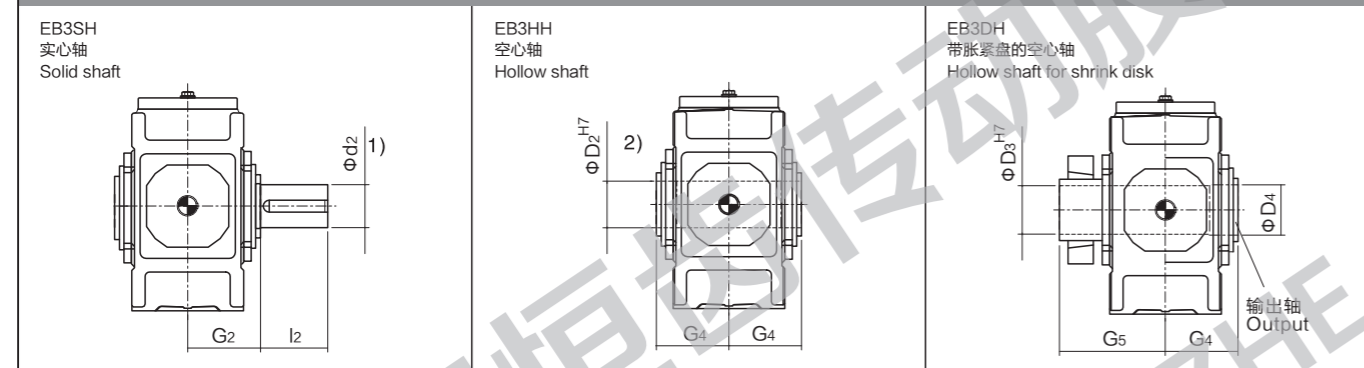


规格 Size	辅传减速机 Auxiliary gear motor	尺寸 mm Dimensions in mm																				
		输入轴 Input shaft			输入轴 Input shaft									G1	G3							
			in=25-45			in=25-50			in=25-56			in=50-71				in=56-71			in=63-71			
			d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3		
13	EKF87-Y4-43.39		80	165	130							60	140	105							1125	1160
14	EKF87-Y4-43.39								80	165	130							60	140	105	1195	1230
15	EKF87-Y4-43.39		90	165	130							70	140	105							1367	1402
16	EKF87-Y4-43.39					90	165	130							70	140	105				1413	1448
17	EKF87-Y4-43.39		110	205	165							80	170	130							1560	1600
18	EKF87-Y4-43.39					110	205	165							80	170	130				1620	1660

规格 Size	尺寸 mm Dimensions in mm														
	减速机 mm Gear units						减速机 mm Gear units								
													G6 ⁵⁾	h	H
													G6 ⁵⁾	h	H
13	1290	425	475	550	325	60	210	265	635	1180	453	433*	440	900	
14	1430	425	475	550	325	60	210	265	705	1250	453	433*	440	900	
15	1550	485	520	625	365	70	210	320	762	1420	500	476*	500	1000	
16	1640	485	520	625	365	70	210	320	808	1470	500	476*	500	1000	
17	1740	535	570	690	395	80	230	370	860	1620	532	508*	550	1100	
18	1860	535	570	690	395	80	230	370	920	1680	532	508*	550	1100	

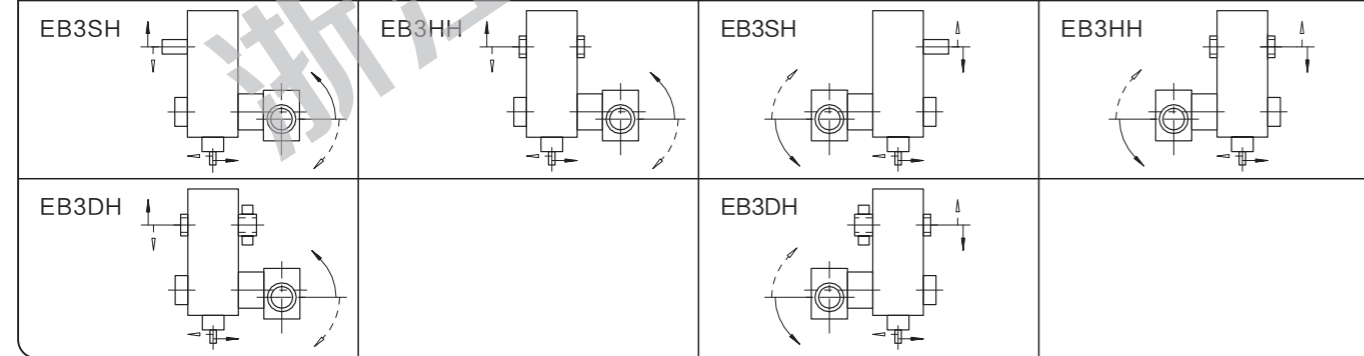
规格 Size	尺寸 mm Dimensions in mm																
	减速机 mm Gear units						减速机 mm Gear units										
													L3	L4	L5	L6	D ⁵⁾
13	545	545	475	100	305	35	805	790*	190	628	362	212	320	290*			
14	545	685	475	100	375	35	805	790*	190	628	362	212	320	290*			
15	655	655	535	120	365	42	850	835*	200	628	443	212	400	290*			
16	655	745	535	120	410	42	850	835*	200	628	443	212	400	290*			
17	735	735	600	135	390	42	882	867*	225	628	520	212	400	290*			
18	735	855	600	135	450	42	882	867*	225	628	520	212	400	290*			

★ 输出轴 Output Shaft



主减速机EB布置形式: D 齿轮减速机EKF输出轴方向: A
Design of main gear unit EB: D
Output shaft direction of gear motor EKF: A

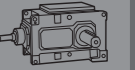
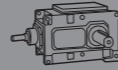
主减速机EB布置形式: B 齿轮减速机EKF输出轴方向: B
Design of main gear unit EB: B
Output shaft direction of gear motor EKF: B



规格 Size	尺寸 mm Dimensions in mm									润滑油 lubrication		重量 weight									
	EB3SH			EB3HH			EB3DH			EKF (L)	EB3 (L)	EKF ³⁾ (kg)	EB3/EKF ⁴⁾ (kg)								
													D2 ¹⁾	G2	l2	D2	G4	D3	D4	G4	G5
13	200	335	350	190	335	190	190	335	480	11.9	130	113	2493								
14	210	335	350	210	335	210	215	335	480	11.9	140	113	2863								
15	230	380	410	230	380	230	235	380	550	11.9	210	113	3843								
16	240	380	410	240	380	240	245	380	550	11.9	220	113	4068								
17	250	415	410	250	415	250	260	415	600	11.9	290	113	5103								
18	270	415	470	275	415	280	285	415	600	11.9	330	113	5608								

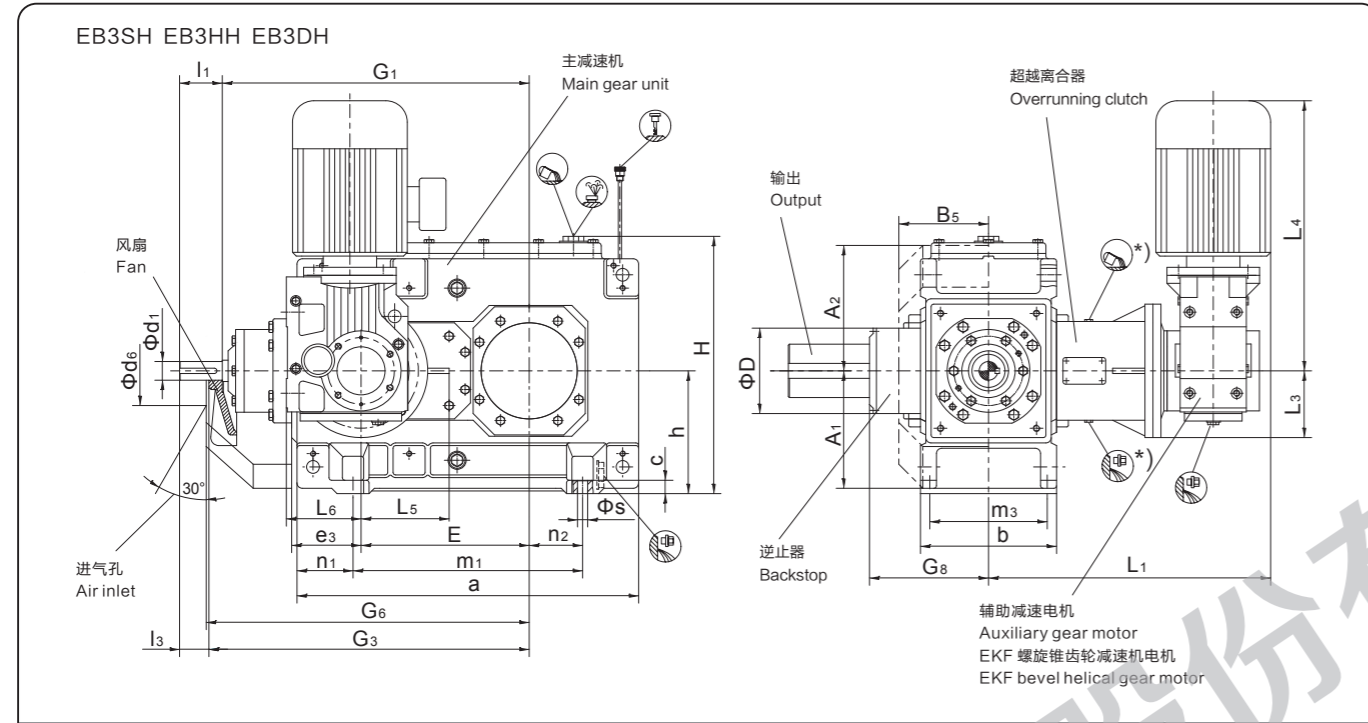
3)EKF减速机电机重量(不含润滑油重量),其余相关数据详见82页。
4)主减速机与辅传减速机电机组合总重量(不含润滑油重量);
5)不带*列为采用国产逆止器、超越离合器时尺寸,带*列为采用国外逆止器、超越离合器时的尺寸。
3)Weight of gear motor EKF (oil weight not included),other detailed data refer to Page 82
4)Gross weight of combination of main gear unit and auxiliary gear motor(oil weight not included).
5)Without * is the dimension using domestic backstop and overrunning clutch and with * is the dimension using imported backstop and overrunning clutch.

1)k6=φ50 m6>φ50
有关平键 GB/T1095-1979型和中心孔,参见第321-322页。 For parallel key GB/T1095-1979 and for center hole,see page 321-322.
2)键槽 GB/T1095-1979 Keyway GB/T1095-1979.
*)仅当采用国外超越离合器时加注润滑油,若采用国产逆止器、超越离合器时则加注润滑油。
*)Fill lubrication only when selecting imported overrunning clutch,if domestic backstop and overrunning clutch are used please fill grease.

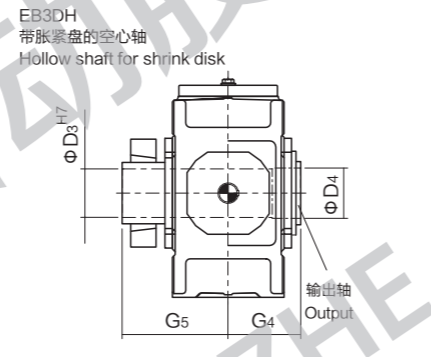
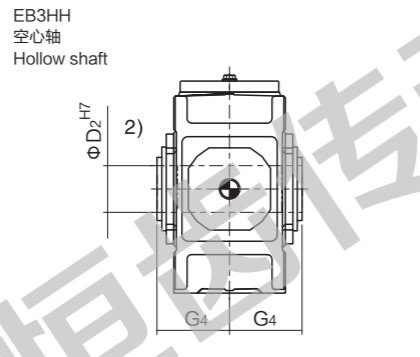
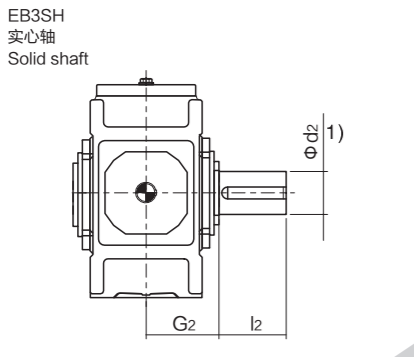


直交轴齿轮箱 Bevel-helical gear units
三级传动 Three Stage
带辅传 with Auxiliary Drive
载荷驱动 Load Drive

类型 TYPES EB3...
规格 SIZES 4...12

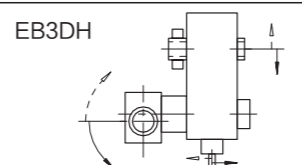
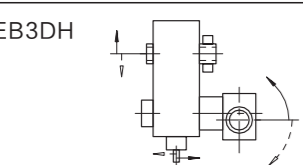
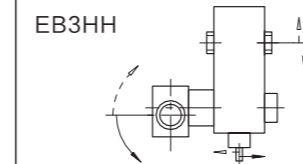
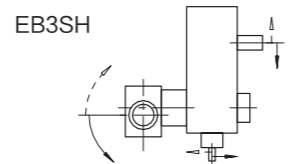
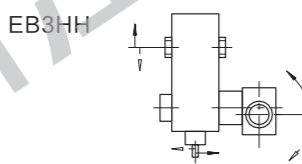
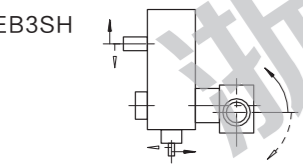


★ 输出轴 Output Shaft



主减速机EB布置形式: D
齿轮减速机EKF输出轴方向: A
Design of main gear unit EB: D
Output shaft direction of gear motor EKF: A

主减速机EB布置形式: B
齿轮减速机EKF输出轴方向: B
Design of main gear unit EB: B
Output shaft direction of gear motor EKF: B



1) $k6 \leq \phi 50$ $m6 > \phi 50$
有关平键 GB/T1095-1979型和中心孔, 参见第321-322页。For parallel key GB/T1095-1979 and for center hole, see page 321-322.
2) 键槽 GB/T1095-1979 Keyway GB/T1095-1979.
*) 仅当采用国外超越离合器时加注润滑油, 若采用国产逆止器、超越离合器时则加注润滑脂。
*) Fill lubrication only when selecting imported overrunning clutch, if domestic backstop and overrunning clutch are used please fill grease.

直交轴齿轮箱 Bevel-helical gear units
三级传动 Three Stage
带辅传 with Auxiliary Drive
载荷驱动 Load Drive

类型 TYPES EB3...
规格 SIZES 4...12

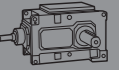
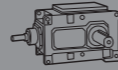
规格 Size	辅传减速机 Auxiliary gear motor	尺寸 mm Dimensions in mm													
		输入轴 Input shaft													
		in=25-45			in=25-56			in=50-71			in=63-71			G1	G3
		d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3		
4	EKF57-Y1.1-36.37	30	70	50				25	60	40				500	520
5	EKF67-Y2.2-28.28	35	80	60				28	60	40				575	595
6	EKF67-Y2.2-28.28				35	80	60				28	60	40	610	630
7	EKF77-Y4-27.99	45	100	80				35	80	60				690	710
8	EKF77-Y4-27.99				45	100	80				35	80	60	735	755
9	EKF87-Y5.5-36	55	110	80				40	100	70				800	830
10	EKF87-Y5.5-36				55	110	80				40	100	70	850	880
11	EKF97-Y11-32.44	70	135	105				50	110	80				960	990
12	EKF97-Y11-32.44				70	135	105				50	110	80	1030	1060

规格 Size	尺寸 mm Dimensions in mm													
	减速机 mm Gear units													
	a	A1	A2	b	B1	c	d6	e3	E	G6	G8 ⁵⁾		h	H
4	565	195	200	215	143	28	110	110	270	530	193	188*	200	415
5	640	220	235	255	168	28	130	130	315	605	218	213*	230	482
6	720	220	235	255	168	28	130	130	350	640	218	213*	230	482
7	785	275	275	300	193	35	165	160	385	720	273	266*	280	572
8	890	275	275	300	193	35	165	160	430	765	273	266*	280	582
9	925	315	325	370	231	40	175	185	450	845	348	327*	320	662
10	1025	315	325	370	231	40	175	185	500	895	348	327*	320	662
11	1105	370	385	430	263	50	190	225	545	1010	397	342*	380	795
12	1260	370	385	430	263	50	190	225	615	1080	397	342*	380	795

规格 Size	尺寸 mm Dimensions in mm													
	减速机 mm Gear units													
	m1	m3	n1	n2	s	L1 ⁵⁾		L3	L4	L5	L6	D ⁵⁾		
4	355	180	105	85	19	479	474*	125	447	137	132	132	132*	
5	430	220	105	100	19	528	523*	125	536	165	140	160	150*	
6	510	220	105	145	19	528	523*	125	536	165	140	160	150*	
7	545	260	120	130	24	636	636*	125	693	210	180	195	190*	
8	650	260	120	190	24	636	636*	125	693	210	180	195	190*	
9	635	320	145	155	28	743	723*	175	674	255	212	230	210*	
10	735	320	145	205	28	743	723*	175	674	255	212	230	210*	
11	775	370	165	180	35	869	849*	225	806	315	265	280	210*	
12	930	370	165	265	35	869	849*	225	806	315	265	280	210*	

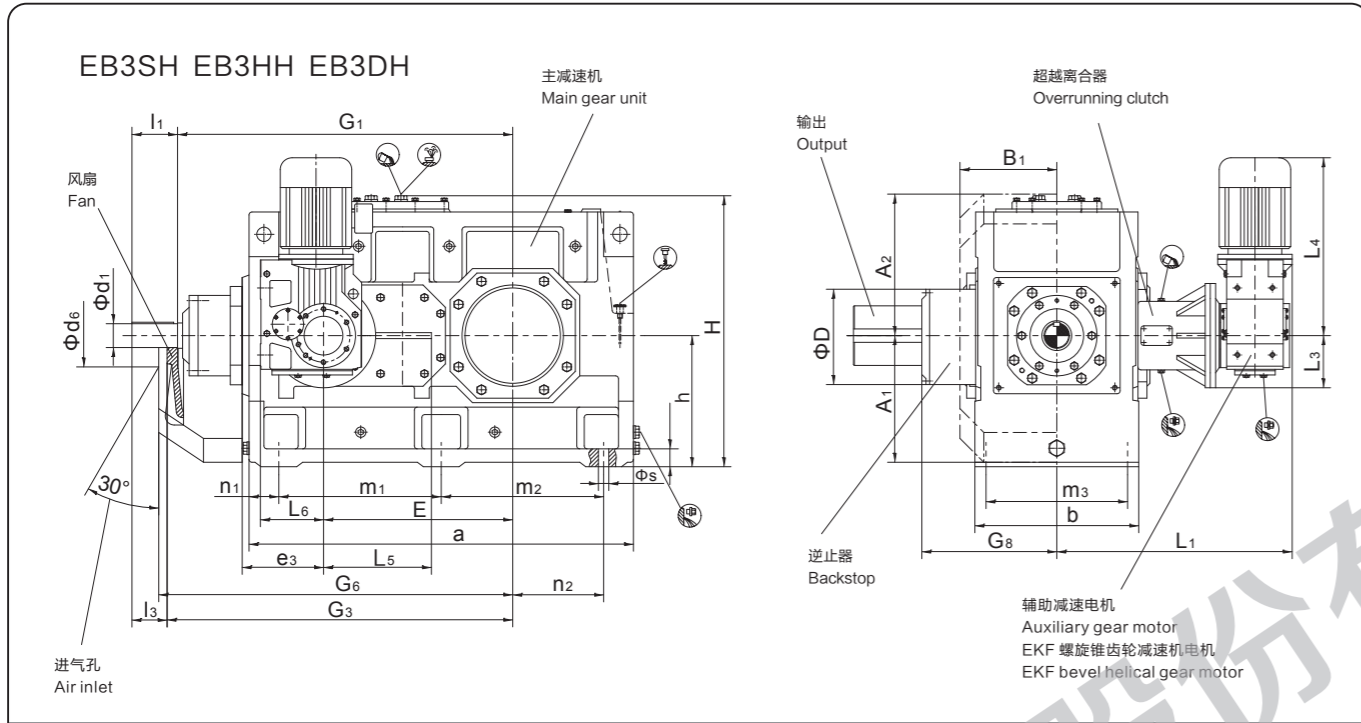
规格 Size	尺寸 mm Dimensions in mm									润滑油 lubrication		重量 weight	
	EB3SH			EB3HH		EB3DH				EKF	EB3	EKF ³⁾	EB3/EKF ⁴⁾
	d2 ¹⁾	G2	l2	D2	G4	D3	D4	G4	G5	(L)	(L)	(kg)	(kg)
4	80	140	170	80	140	85	85	140	205	3	10	50	283
5	100	165	210	95	165	100	100	165	240	3.6	16	66	424
6	110	165	210	105	165	110	110	165	240	3.6	17	66	479
7	120	195	210	115	195	120	120	195	280	6	30	98	689
8	130	195	250	125	195	130	130	195	285	6	33	98	774
9	140	235	250	135	235	140	145	235	330	11.9	45	150	1105
10	160	235	300	150	235	150	155	235	350	11.9	48	150	1235
11	170	270	300	165	270	165	170	270	400	21.5	79	248	1821
12	180	270	300	180	270	180	185	270	405	21.5	84	248	2096

3) EKF减速机重量(不含润滑油重量), 其余相关数据详见82页。
4) 主减速机与辅传减速机组合总重量(不含润滑油重量);
5) 不带*列为采用国产逆止器、超越离合器时尺寸, 带*列为采用国外逆止器、超越离合器时的尺寸。
3) Weight of gear motor EKF (oil weight not included), other detailed data refer to Page 82.
4) Gross weight of combination of main gear unit and auxiliary gear motor (oil weight not included).
5) Without * is the dimension using domestic backstop and overrunning clutch and with * is the dimension using imported backstop and overrunning clutch.

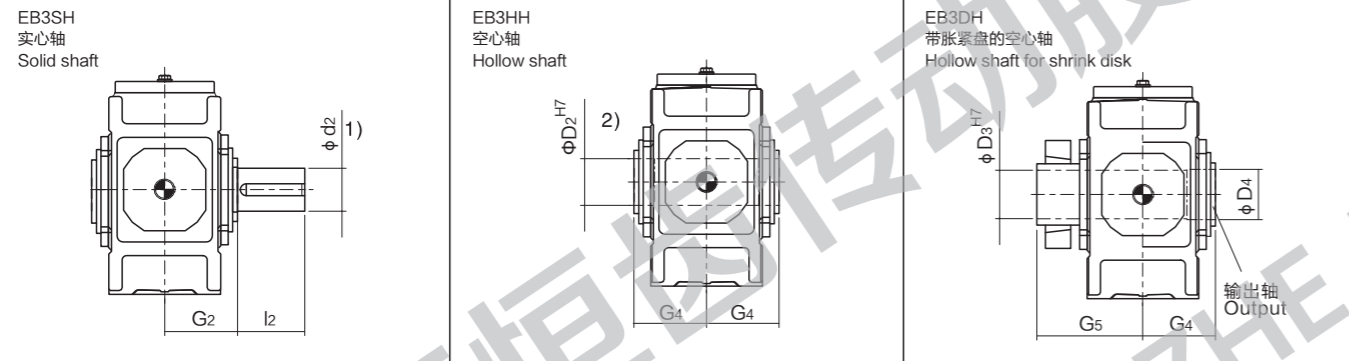


直交轴齿轮箱 Bevel-helical gear units 三级传动 Three Stage 带辅传 with Auxiliary Drive 载荷驱动 Load Drive 类型 TYPES EB3... 规格 SIZES 13...18

直交轴齿轮箱 Bevel-helical gear units 三级传动 Three Stage 带辅传 with Auxiliary Drive 载荷驱动 Load Drive 类型 TYPES EB3... 规格 SIZES 13...22

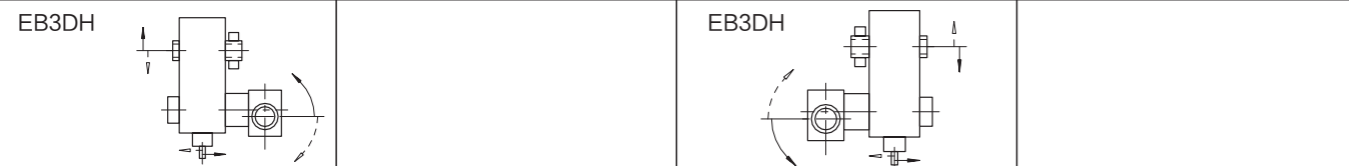
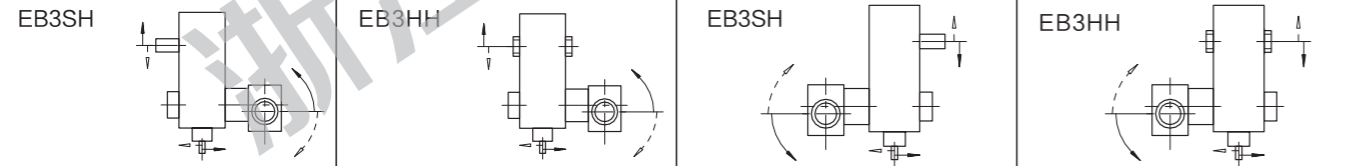


★ 输出轴 Output Shaft



主减速机EB布置形式: D 齿轮减速机EKF输出轴方向: A
Design of main gear unit EB: D
Output shaft direction of gear motor EKF: A

主减速机EB布置形式: B 齿轮减速机EKF输出轴方向: B
Design of main gear unit EB: B
Output shaft direction of gear motor EKF: B



1) $k6 \leq \phi 50$ $m6 > \phi 50$
有关平键 GB/T1095-1979型和中心孔,参见第321-322页。For parallel key GB/T1095-1979 and for center hole, see page 321-322.
2) 键槽 GB/T1095-1979 Keyway GB/T1095-1979.
*) 仅当采用国外超越离合器时加注润滑油,若采用国产逆止器、超越离合器时则加注润滑脂。
*) Fill lubrication only when selecting imported overrunning clutch, if domestic backstop and overrunning clutch are used please fill grease.

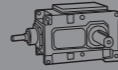
规格 Size	辅传减速机 Auxiliary gear motor	尺寸mm Dimensions in mm												G ₁	G ₃							
		输入轴 Input shaft																				
		i _N =25-45		i _N =25-50		i _N =25-56		i _N =50-71		i _N =56-71		i _N =63-71										
		d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃	d ₁ ¹⁾	l ₁	l ₃			
13	EKF107-Y18.5-27.33	80	165	130				80	165	130				60	140	105				1125	1160	
14	EKF107-Y18.5-27.33																60	140	105		1195	1230
15	EKF127-Y30-24.91	90	165	130										70	140	105					1367	1402
16	EKF127-Y30-24.91				90	165	130														1413	1448
17	EKF127-Y37-24.91	110	205	165							80	170	130								1560	1600
18	EKF127-Y37-24.91				110	205	165							80	170	130					1620	1660

规格 Size	尺寸mm Dimensions in mm													
	减速机mm Gear units													
	a	A ₁	A ₂	b	B ₁	c	d ₆	e ₃	E	G ₆	G ₈ ⁵⁾	h	H	
13	1290	425	475	550	325	60	210	265	635	1180	453	433*	440	900
14	1430	425	475	550	325	60	210	265	705	1250	453	433*	440	900
15	1550	485	520	625	365	70	210	320	762	1420	500	476*	500	1000
16	1640	485	520	625	365	70	210	320	808	1470	500	476*	500	1000
17	1740	535	570	690	395	80	230	370	860	1620	532	508*	550	1100
18	1860	535	570	690	395	80	230	370	920	1680	532	508*	550	1100

规格 Size	尺寸mm Dimensions in mm													
	减速机mm Gear units													
	m ₁	m ₂	m ₃	n ₁	n ₂	s	L ¹⁾	L ₃	L ₄	L ₅	L ₆	D ⁵⁾		
13	545	545	475	100	305	35	1024	986*	225	934	362	315	320	290*
14	545	685	475	100	375	35	1024	986*	225	934	362	315	320	290*
15	655	655	535	120	365	42	1181	1161*	275	1048	443	375	400	290*
16	655	745	535	120	410	42	1181	1161*	275	1048	443	375	400	290*
17	735	735	600	135	390	42	1223	1203*	275	1068	520	375	400	290*
18	735	855	600	135	450	42	1223	1203*	275	1068	520	375	400	290*

规格 Size	尺寸mm Dimensions in mm									润滑油 lubrication		重量 weight	
	输出轴 Output shaft									EKF	EB3	EKF ³⁾	EB3/EKF ⁴⁾
	EB3SH			EB3HH		EB3DH							
	d ₂ ¹⁾	G ₂	l ₂	D ₂	G ₄	D ₃	D ₄	G ₄	G ₅	(L)	(L)	(kg)	(kg)
13	200	335	350	190	335	190	190	335	480	35	130	286	2666
14	210	335	350	210	335	210	215	335	480	35	140	286	3036
15	230	380	410	230	380	230	235	380	550	55	210	478	4208
16	240	380	410	240	380	240	245	380	550	55	220	478	4438
17	250	415	410	250	415	250	260	415	600	55	290	478	5468
18	270	415	470	275	415	280	285	415	600	55	300	478	5973

3) EKF减速机重量(不含润滑油重量),其余相关数据详见82页。
4) 主减速机与辅传减速机组合总重量(不含润滑油重量);
5) 不带*列为采用国产逆止器、超越离合器时尺寸,带*列为采用国外逆止器、超越离合器时的尺寸。
3) Weight of gear motor EKF (oil weight not included), other detailed data refer to Page 82.
4) Gross weight of combination of main gear unit and auxiliary gear motor (oil weight not included).
5) Without * is the dimension using domestic backstop and overrunning clutch and with * is the dimension using imported backstop and overrunning clutch.



直交轴齿轮箱 Bevel-helical gear units
逆止器 Backstops

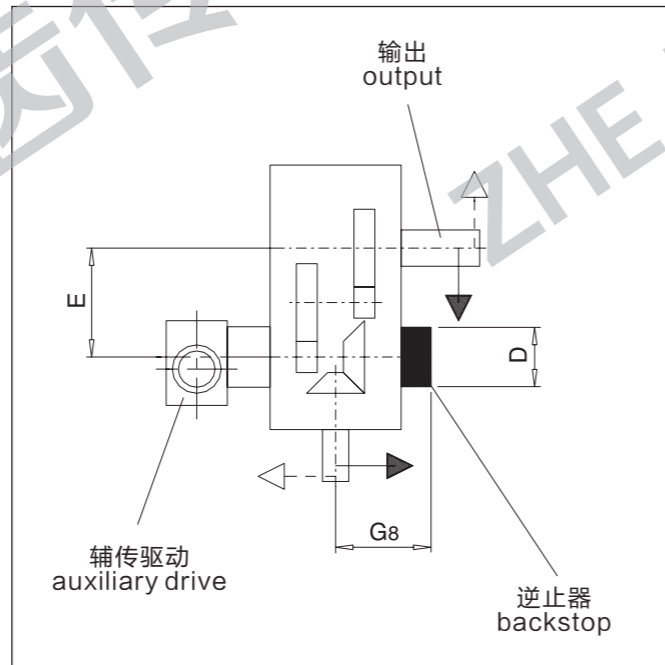
类型 TYPES EB3...
规格 SIZES 4...18

标准逆止器布置及输入输出转向关系
Standard backstop arrangement and dependence of direction of rotation

类型 Type	布置形式 Design	
	B	D
EB3SH		
EB3HH		
EB3DH		

型号/types EB3.H

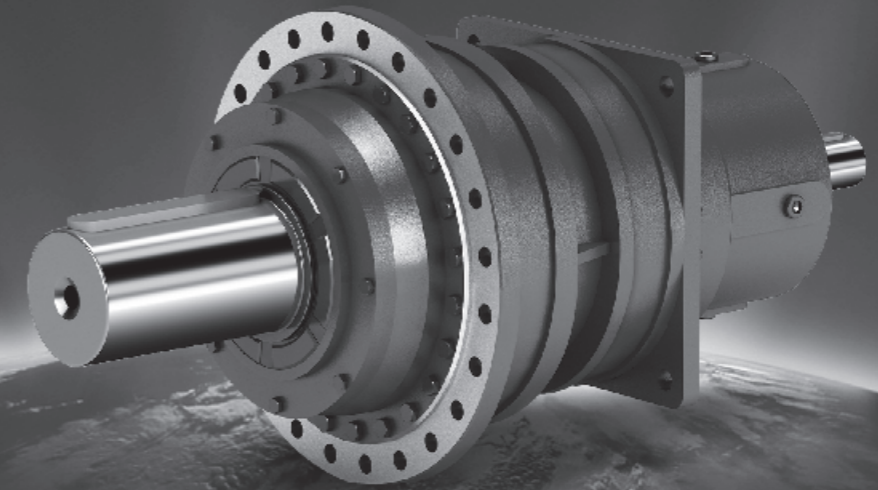
规格 Sizes	E mm	G8 mm	D mm	
4	270	193	188*	132 132*
5	315	218	213*	150 160*
6	350	218	213*	150 160*
7	385	273	266*	190 195*
8	430	273	266*	190 195*
9	450	347	327*	210 230*
10	500	347	327*	210 230*
11	545	397	342*	210 280*
12	615	397	342*	210 280*
13	635	453	433*	290 320*
14	705	453	433*	290 320*
15	762	500	476*	290 400*
16	808	500	476*	290 400*
17	860	532	508*	290 400*
18	920	532	508*	290 400*



注：不带*列为采用国产逆止器、超越离合器时尺寸，带*列为选用国外逆止器、超越离合器时尺寸。
Note: Without * is the dimension using domestic backstop and overrunning clutch and with * is the dimension using imported backstop and overrunning clutch.

*EQ Series

行星齿轮减速机
Planetary Gear Reducer



EVERGEAR