

H / B、T系列工业齿轮箱



H/B、T系列工业齿轮箱 H/B、T Series Gear box



江苏凯博传动设备有限公司
Jiangsu Kaibo Transmissions Co.,ltd.

公司简介

江苏凯博传动设备有限公司是一家设计制造各类减速机的高新技术企业，和全国二十多所院校科研机构合作，以生产“开博”系列减速机为主导产品，品种规格齐全。目前已拥有JA、JB、JC型自动焊接设备专用减速机；B、X系列摆线针轮减速机；ZDY、ZLY、ZSY、ZFY系列硬齿面圆柱齿轮减速机；ZSYF方箱体系列硬齿面圆柱减速机；ZLYJ、ZSYJ系列塑料挤出机专用减速机；DBY、DCY、DFY、DCYK系列硬齿面圆锥圆柱齿轮减速机；ML、YM系列橡塑机械专用减速机；KR系列斜齿轮减速电机；KS系列斜齿轮蜗轮蜗杆减速电机；KK系列弧齿锥齿轮减速电机；KF系列平行轴斜齿轮减速电机；H/B系列重载型工业齿轮箱；T系列螺旋锥齿轮转向箱等十几个系列上百个品种的减速机。产品畅销全国各地，远销欧美、日本、印度等十几个国家和地区。

江苏凯博拥有从德国引进的Niles成型磨齿机等一大批先进的生产设备和检测仪器，公司通过了ISO9001:2001质量管理体系认证。精良的生产设备，先进的管理理念，完善的质量管理体系，再加上高素质的员工队伍，以为客户提供一流的产品和一流的服务为宗旨，“开博”定能成为国内减速机行业最具竞争力的品牌之一。



多年来，本公司凭借雄厚的实力、良好的信誉以及严格的质量管理、优质的售后服务，赢得了社会广大用户的一至认可。

By the means of powerful ability, good reputation, strict quality control and excellent after-sale service, the company achieves a popular widely cutommers' recognition in the society.



倾力赢得市场

EXERT OURSELF TO WIN THE MARKET



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enterprise
Introduce



H/B系列重载型工业齿轮箱
H/B series heavy-duty industrial gear box **P001**



T系列螺旋锥齿轮转向箱
T series spiral bevel steering gear box **P116**

Jiangsu Kaibo Transmission Equipment Co., Ltd.

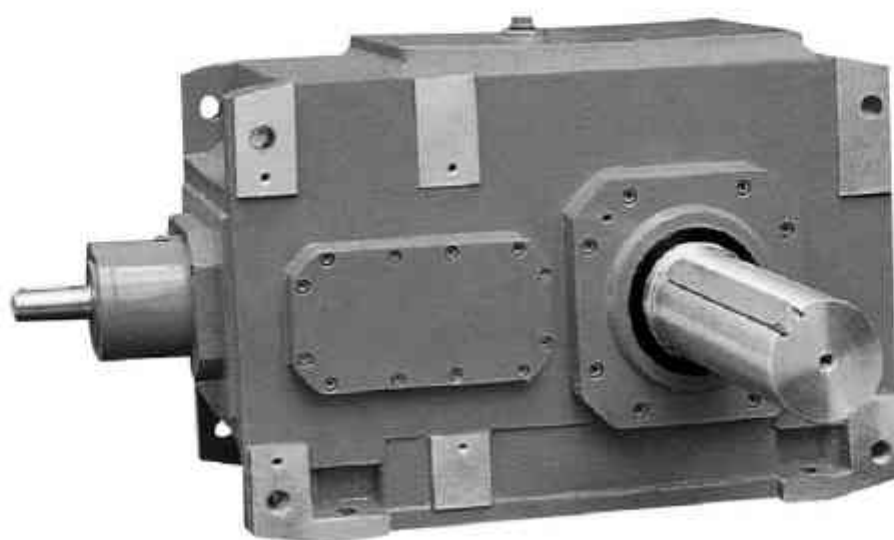
is a high-tech enterprise specialized in designing and manufacturing gear motor. Cooperating with more than 20 academies and scientific research institutions, the company develops the leading products of "KAIBO" series reducers with complete specifications and varieties. The main products include JA, JB and JC type automatic special reducer for welding equipment, B and X series planet-cycloid reducer, ZDY, ZLY, ZSY and ZFY series hardened cylindrical gear reducer, ZSYF square cabinet series hardened cylindrical reducer, ZLYJ and ZSYJ series special reducer for plastic extruder, DBY, DCY, DFY and DCYK series hardened cone cylindrical reducer, ML and YM series special reducer for rubber plastic machinery, KR series bevel-helical gear motors, KS series bevel-helical worm gear motors, KK series spiral bevel gear motors, KF series parallel shaft helical gear motors, H/B series heavy-duty industrial gear box, T series spiral bevel steering gear box, etc. reducers more than 10 series and over 100 varieties. The products enjoy a high popularity in the domestic and foreign countries such as Europe, America, Japan, and India, for dozens of countries and regions above.

The company has a batch of advanced production equipment and detecting instrument, such as Niles grinding machine imported from Germany. The company also has passed the ISO 9001:2000 quality system certification. Based on excellent production equipment, advanced management idea, impeccable quality system and high-quality staff and with holding the tenet of providing the customer with top-rank products and service, "KAIBO" certainly can become one of the most competitive brands in the domestic reducer industry.



H/B系列重载型工业齿轮箱

H/B Series Heavy-Duty Industrial Gear Box



齿轮箱 Gear Box

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H/B

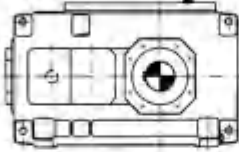
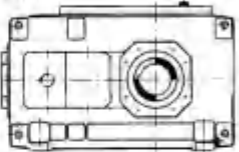
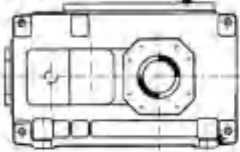
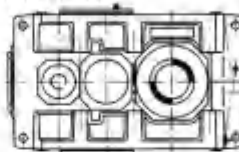
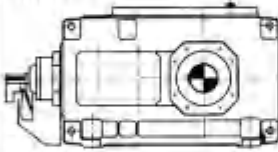
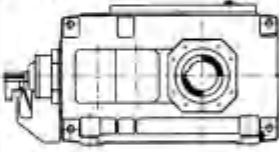
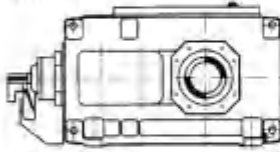
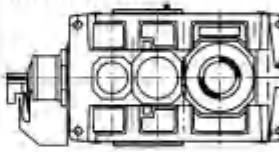
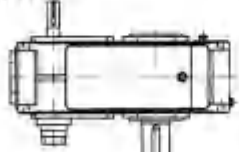
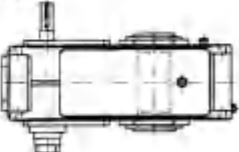
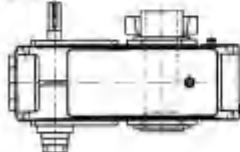
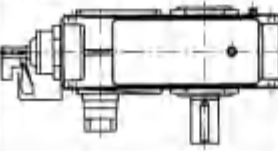
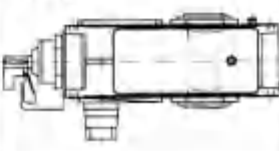
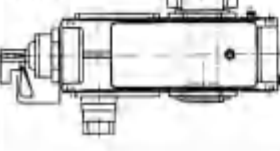
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H/B系列

齿轮箱 Gear Box

基本类型概括 Summary Of Basic Types

H/B

卧式安装 平行轴齿轮箱 类型 H1...,H2...,H3...,H4... 1-...4-级传动, iN=1.25-450		Horizontal mounting position Helical gear box Types H1...,H2...,H3...,H4... 1-...4-stage, iN=1.25-450	
H.SH 	H.HH 	H.DH 	H.HM,H.DM 
垂直轴齿轮箱 类型 B2...,B3...,B4... 2-...4-级传动, iN=5-400		Bevel-helical gear box Types B2...,B3...,B4... 2-...4-stage, iN=5-400	
B.SH 	B.HH 	B.DH 	B.HM,B.DM 
立式安装 平行轴齿轮箱 类型 H2.V,H3.V,H4.V 2-...4-级传动, iN=6.3-450		Vertical mounting position Helical gear box Types H2.V,H3.V,H4.V 2-...4-stage, iN=6.3-450	
H.SV 	H.HV 	H.DV 	
垂直轴齿轮箱 类型 B2.V,B3.V,B4.V 2-...4-级传动, iN=5-400		Bevel-helical gear box Types B2.V,B3.V,B4.V 2-...4-stage, iN=5-400	
B.SV 	B.HV 	B.DV 	

齿轮箱 Gear Box

性能特点 Characteristic

设计

平行轴和垂直轴齿轮箱采用全新设计，其独特的创新之处在于：

- 零部件种类减少，而规格型号增加；
- 运转可靠性提高，传动功率增大；
- 可以提供法兰盘式输出轴，使齿轮箱满足在狭小空间的安装要求（根据客户要求供货）。

安装方式

- 齿轮箱既可卧式安装，也可立式安装。
- 如果用户提出要求，也可以采用其他安装形式。
- 安装电机用法兰，扭力支撑装置均为产品的标准配置。

齿轮的噪音特性

- 采用最新设计思想，通过以下途径彻底改善齿轮的噪音特性；
- 利用吸收噪音的箱体结构；
- 采用特大的齿面接触比。

齿轮箱散热

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，主要通过以下方法：

- 增大箱体的表面积；
- 采用大风扇及新型导流风扇罩；
- 根据较低的最大允许油温选择齿轮箱。这样，可因换油周期加长而提供设备运行可靠性，并能降低设备维护费用。

库存

齿轮箱根据单元结构模块化设计原理，大大减少了零部件种类。

Design

Gear box are a completely new design, Outstanding innovations are;

- More size with a reduced variety of parts;
- Higher operational reliability combined with increased power capacity;
- Flanged output shafts to facilitate assembly of gear box in confined spaces (on request).

Mounting position

- Gear box can be supplied for either horizontal or vertical installation.
- Other arrangements are also possible on request.
- Motor bell housings, Torque supports are part of our standard product range.

Noise behaviour

- New concepts were applied to clearly improve the noise emission of the gear box.
- Designing noise-absorbing housings.
- Achieving exceptionally large contact ratios.

Thermal conduction

Gear box not only have a high efficiency but also a favourable 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 gear box 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.

Storing

Gear box have been designed according to a new unit construction principle.

H/B系列

齿轮箱 Gear Box

一般说明 General Informations

注意事项

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罩防护。
- 试车之前，必须认真阅读设备操作说明书。减速机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。实际油量以油标上的标记为准。
- 润滑油粘度须以减速机铭牌上的数值为准。
- 减速机供货时带径向轴封。用户如有特别要求，可提供其它形式的密封装置。
- 转动方向是指输出轴d2的方向。

Attention:

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 reducers 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 oildipstick.
- The oil viscosity has to correspond to the data given on the name plate.
- The reducers 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

规格13号以上减速机箱体地脚上配有千斤顶螺丝，箱盖上配有调平面。

From size 13 up jack screws in the housing feet,and leveling pads on the upper housing part.

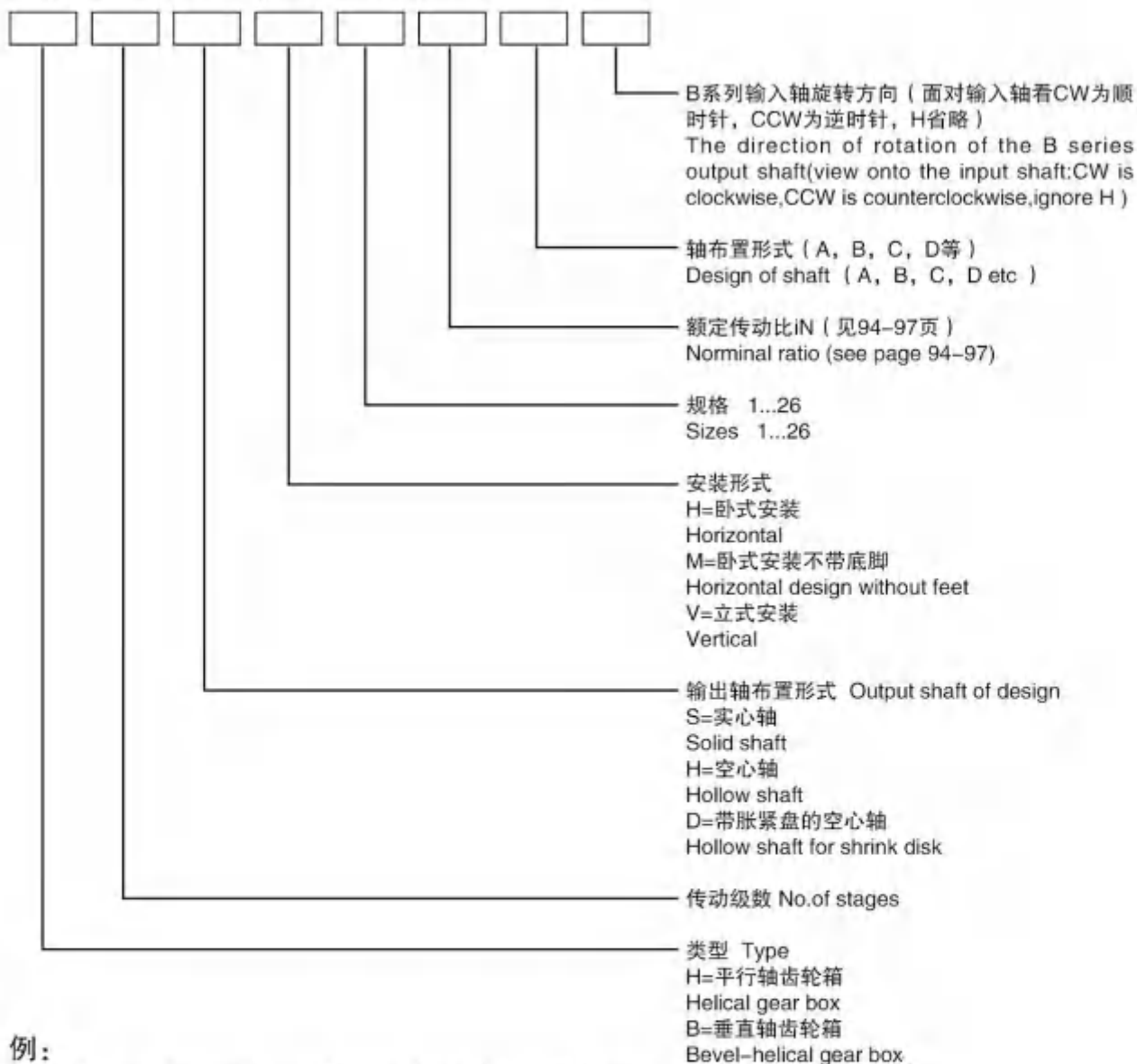
基础螺栓的最低性能等级为8.8级

Foundation bolts of min,property class 8.8.

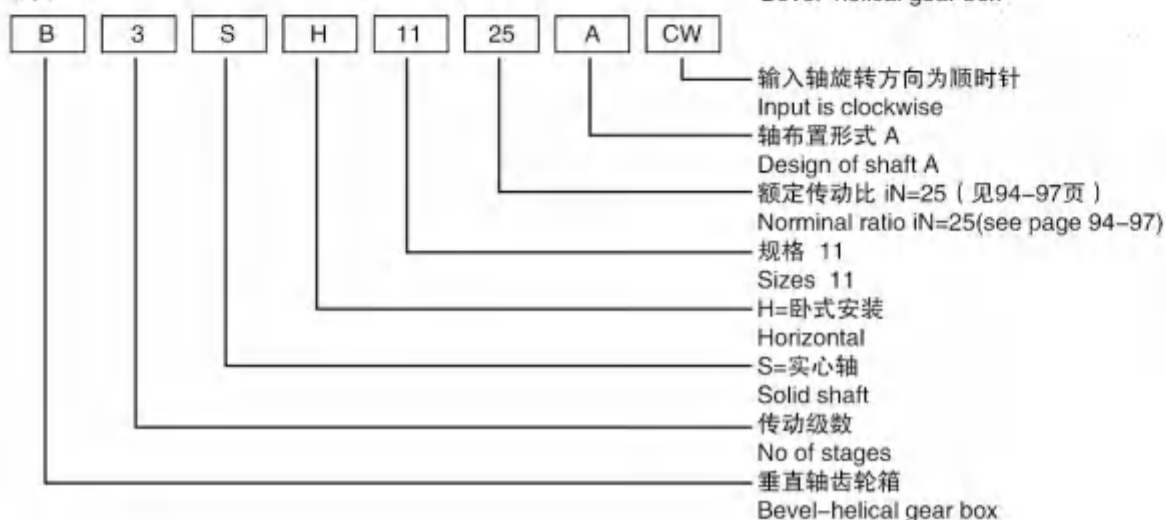
H/B

齿轮箱 Gear Box

型号表示方法 Designation of Types



例:



H/B系列



齿轮箱 Gear Box

选型指南 Guidelines for the selection

H/B

1.确定齿轮箱的类型及规格 1.Determination of gear box type and size	1.1 计算传动比 Find the trasmission ratio $iS=\frac{n1}{n2}$ 1.2 确定齿轮箱的额定功率 Determine nominal power rating of the gear box $P_N\geq P_3 \times f_1 \times f_2 \times S_A$ 如果不满足下列条件, 请向我们咨询 It is not necessary to 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 1.3 Check for maximum torque,e.g.peak operating-,starting –or braking torque $P_N\geq \frac{T_k \times n1}{9550} \times f_3$ 齿轮箱的规格和传动级数在额定功率选型表中, 可根据iN和PN确定。 Gear box sizes and number of reduction stages are given in rating tables depending on iN and PN 1.4 检查输出轴上是否允许有附加载荷: 见26-27页 1.4 Check whether additional forces on the output shaft are permissible;see pages 26-27 1.5 根据94-97页上的表检查实际传动比是否满足要求 1.5 Check whether the actual ratio i as per table on pages 94-97 is acceptable	
	安装方式 Mounting position	
	卧式安装 Horizontal	立式安装 Vertical
2.确定润滑方式 2.Lubrication method to determine	所有需要润滑的零部件均浸在润滑油中, 或采用飞溅润滑方式, 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 Forced lubricated on request	可选润滑油供给方式: —浸油润滑 —通过法兰联接泵或电动泵进行强制润滑。 有关合适的供油方式和选择标准, 参见74-111页。 Possible oil supply variations: —Dip lubrication —Forced lubrication by means of flanged-on pump or motor pump.For preferred variants and criteria fo selection, page 74-111
3. 确定冷却方式 3. Sure cooling way	3.1 如满足以下条件, 则齿轮箱可不带辅助冷却装置: 3.1 Adequate for gear box without auxiliary cooling,if: $P_2 \leq PG=PG_1 \times f_4 \times f_6 \times f_8 \times f_9$ 3.2 如满足以下条件, 则齿轮箱带冷却风扇可满足要求: 3.2 Adequate for gear box with fan cooling ,if: $P_2 \leq PG=PG_2 \times f_4 \times f_6 \times f_8 \times f_{10}$ 3.3 如满足以下条件, 则齿轮箱带冷却盘管可满足要求: 3.3 Adequate for gear box with fitted cooling coil,if: $P_2 \leq PG=PG_3 \times f_5 \times f_7 \times f_8 \times f_{11}$ 3.3 如满足以下条件, 则齿轮箱带冷却盘管和风扇可满足要求: 3.3 Adequate for gear box with cooling coil and fan,if: $P_2 \leq PG=PG_5 \times f_7 \times f_8 \times f_{12}$ 3.5 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。 3.5 For higher thermal capacities,cooling by external oil,coolre on request	

齿轮箱 Gear Box

符号说明 Key to Symbols

符号说明:

Key to Symbols

- E₀** = 每小时工作周期, 以百分比表示, 如E₀=80% / h
Operating cycle per hour in %, e.g. E₀=80% / h
- f₁** = 工作机系数(表1), 10页
Factor for driven machine (table 1), pages 10
- f₂** = 原动机系数(表2), 11页
Factor for prime mover (table 2), page 11
- f₃** = 峰值扭矩系数(表3), 11页
Peak torque factor (table 3), page 11
- f₄, f₅** = 环境温度系数(表4+表5), 11页
Thermal factors (tables 4 + 5), page 11
- f₆, f₇** = 海拔高度系数(表6+表7), 11页
Factors for altitude (tables 6 + 7), page 11
- f₈** = 立式安装齿轮箱供油系数(表8), 12页
Oil supply factor for vertical gear box (Table 8), page 12
对于卧式安装齿轮箱: f₈=1
For horizontal gear box: f₈=1
- f₉, f₁₀** = 热容量系数(表9~14), 12~13页
Thermal capacity factors (tables 9... 14), pages 12-13
- a₁** = 规格系数
Size factor
- a₂** = 传动比系数
Transmission ratio factor
- i** = 实际传动比
Actual ratio
- i_N** = 额定传动比
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, 15-23页
Thermal capacity for gear box without auxiliary cooling, pages 15-23
- P_{G2}** = 齿轮箱的热容量, 带冷却风扇, 15-23页
Thermal capacity for gear box with fan cooling, pages 15-23
- P_{G3}** = 齿轮箱的热容量, 带内置冷却盘管, 15-23页
Thermal capacity for gear box with built-in cooling coil, pages 15-23
- P_{G4}** = 齿轮箱的热容量, 带内置冷却盘管和风扇, 15-23页
Thermal capacity for gear box with built-in cooling coil and fan, pages 15-23
- P_N** = 齿轮箱的额定功率(kW), 见选型表, 14-22页
Nominal power rating of gear box(kW), see tables, pages 14-22
- 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、起动扭矩或制动扭矩(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), 24-25页
Nominal output torque (kN.m), pages 24-25
- S_A** = 减速机安全系数(表15)11页
Safety coefficient of speed reductor (table 15) Page 11

H/B系列

齿轮箱 Gear Box

选型指南 Guidelines for the selection

计算示例 Calculation Example

H/B

已知参数:

原动机

电机功率: $P_1=75\text{kW}$

电机转速: $n=1500\text{rpm}$

最大起动扭矩: $T_A=720\text{N.m}$

工作机

皮带输送机功率: $P_2=66\text{kW}$

转速: $n_2=26\text{rpm}$

工作制: 12小时/天

每小时起动次数: 7

每小时工作周期: $ED=100\%$

环境温度: 30°C

室外安装(风速): $(w \geq 4\text{m/s})$

海拔高度: 海平面

重要性与安全要求: 一般

齿轮箱设计

垂直轴齿轮箱

安装方式: 卧式安装

输出轴d2: 位于齿轮箱右侧(面对输入轴), 即布置型式C

输出轴d2转动方向: ccw

KNOWN CRITERIA:

PRIME MOVER

Electric motor: $P=75\text{ kW}$

Motor speed: $n=1500\text{ rpm}$

Max. starting torque: $T_A=720\text{ N.m}$

DRIVEN MACHINE

Belt conveyor: $P_2=66\text{ kW}$

Speed: $n_2=26\text{ rpm}$

Duty: 12 h/day

Starts per hour: 7

Operating cycle per hour: $ED=100\%$

Ambient temperature: 30°C

Outdoor installation: $(w \geq 4\text{m/s})$

Altitude: sea level

Reliability: normal

GEAR BOX DESIGN

Bevel-helical gear box

Mounting position: horizontal

Output shaft d2: on right hand side design C

Direction of rotation of output shaft d2: ccw

要求: 齿轮箱的类型及规格 Required: Type and size of gear box

1. 选择齿轮箱的类型及规格: Selection of gear box type and size

1.1 传动比计算: Calculation of transmission ratio

$$i_c = \frac{n_1}{n_2} = \frac{1500}{26} = 57.7 \quad i_b = 56$$

1.2 确定额定功率 Determination of the gear box nominal power rating

$$P_N \geq P_2 \times f_1 \times f_2 \times X_S = 66 \times 1.3 \times 1 \times 1.4 = 120\text{kW}$$

从额定功率表中选择: 类型B3, 规格10, 对应的 $P_N=122\text{kW}$

Selected from power rating table: type B3, gear box size 10, with $P_N = 122\text{kW}$

$$3.33 \times P_2 \geq P_N \quad 3.33 \times 66 = 219.8\text{kW} > P_N$$

1.3 检查起动扭矩 Checking the starting torque

$$P_N \geq \frac{T_A \times n_1}{9550} \times f_3 = \frac{720 \times 1500}{9550} \times 0.65 = 73.5\text{kW} \quad P_N = 122\text{kW} > 73.5\text{kW}$$

2. 确定热容量 Determination of thermal capacity

2.1 根据表中给出的B3型齿轮箱参数, 计算不带辅助冷却装置的齿轮箱热容量

2.1 Thermal capacity for gear box without auxiliary cooling, acc. to table for type B3

$$P_G = P_{G1} \times f_4 \times f_5 \times f_6 \times f_7 \quad P_G = 78.9\text{kW} \times 0.88 \times 1 \times 1 \times (1.23 - 2.80 \times 0.095 \times 0.15) \quad P_G = 82.6\text{kW}$$

$$P_2 = 66\text{kW} < P_G = 82.6$$

结论: 齿轮箱不带辅助冷却装置, 可满足要求!

Conclusion: A gear box without auxiliary cooling is sufficient!

表1
Table 1 工作机工况系数 f_1
Working machine working condition coefficient f_1

工作机 Working Machine		工作机最低工况系数 f_1 Minimum working machine working condition coefficient f_1			工作机 Working Machine		工作机最低工况系数 f_1		
		<0.5h	0.5-10h	>10h			<0.5h	0.5-10h	>10h
污水 Sewage 处理 treatment	浓缩机(中心传动) Concentrator(central transmission)	—	—	1.2	起重 Hoisting 机械 machinery	回转机构 Rotary mechanism	1.00	1.40	1.80
	压滤机 Filter press	1.00	1.30	1.5		升降机构 Elevation mechanism	1.00	1.10	1.40
	絮凝剂 Flocculant	0.80	1.00	1.3		行走机构 Walking mechanism	1.10	1.60	2.00
	曝气机 Aerator	—	1.80	2		提升机构 Hoisting mechanism	1.00	1.40	1.80
	捞渣设备 Raking device	1.00	1.20	1.3		臂式起重机 Rotary arm crane	1.00	1.20	1.50
	垂直、回转组合排渣装置 Vertical and rotary combination raking device	1.00	1.30	1.5	化学 Chemical 工业 industry	挤压机 Extrusion press	—	—	1.60
	预浓缩器 Pre-concentrator	—	1.10	1.3		调浆机 Slurry mixer	—	1.60	2.00
	螺旋泵 Screw pump	—	1.30	1.5		橡胶辊光机 Rubber roller	—	1.50	1.75
	水轮机 Hydraulic turbine	—	—	2		冷却器 Cooling cylinder	—	1.30	1.60
	离心机 Centrifuge pump	1.00	1.20	1.3		混料机, 用于均匀介质 Mixer, for homogeneous medium	1.00	1.30	1.60
	1个活塞容积泵 1 piston volume test pump	1.30	1.40	1.8		混料机, 用于非均匀介质 Mixer, for inhomogeneous medium	1.40	1.60	1.80
	>1个活塞容积泵 >1 piston volume test pump	1.20	1.40	1.8		搅拌机, 用于非均匀介质 Blender, for homogeneous density	1.00	1.30	1.50
	—	—	—	—		搅拌机, 用于非均匀介质 Blender, for inhomogeneous density	1.20	1.50	1.75
	—	—	—	—		烘炉 Baking oven	1.00	1.30	1.30
	—	—	—	—		离心机 Centrifugal machine	1.00	1.25	1.30
	—	—	—	—	冷却塔 Cooling tower	冷却塔风机 Cooling tower fan	—	—	2.00
	—	—	—	—		风机(轴流和离心式) Fan (axial flow and centrifugal type)	—	1.40	1.50
钢铁 Steel 工业 industry	拉丝机 Wire drawing machine	1.25	1.50	1.75	蔗糖 Sucrose 生产 production	甘蔗切片机 Sugarcane chopper	—	—	1.70
	捻线机 Reeling machine	1.00	1.25	1.5		甘蔗碾磨机 Sugarcane mill	—	—	1.70
	集中驱动轨道(无反转) Centralized driving rail (without reverse rotation)	1.25	1.50	1.75	甜菜糖 Beet sugar 生产 production	甜菜切片机 Beet mince	—	—	1.70
	单独驱动轨道(无反转) Individual driving rail (without reverse rotation)	1.50	1.75	2		压榨机, 机械制冷机, 煮糖机 Squeezer, mechanical refrigerator, cooking machine	—	—	1.20
	集中驱动轨道(有反转) Centralized driving rail (with reverse rotation)	1.50	1.75	2		甜菜清洗机 Beet cleaner	—	—	1.40
	单独驱动轨道(有反转) Individual driving rail (with reverse rotation)	1.5	1.80	2		甜菜切片机 Beet chopper	—	—	1.50
纺织 Textile 工业 industry	可逆式中厚板轧机 Reversible middle thickness plate rolling machine	—	1.80	2	索道 Ropeway 缆车 Cable car	索道索道 Cargo ropeway	—	1.30	1.40
	—	—	—	—		往返索道空中索道 Reciprocating system aerial ropeway	—	1.60	1.80
	—	—	—	—		T型杆升降梯 T-shaped rod lifter	—	1.30	1.40
输送 Conveying 机械 machinery	织机 Weaving machine	1.25	1.50	1.75	水泥 Cement 工业 industry	连续索道 Continuous ropeway	—	1.40	1.60
	纺纱机 Spinning machine	1.00	1.05	1.5		混凝土搅拌机 Concrete blender	—	1.50	1.50
	洗染机 Washing machine	1.00	1.25	1.5		破碎机 Cracking machine	—	1.20	1.40
	斗式输送机 Bucket conveyor	—	1.20	1.5	—	回转窑 Rotary kiln	—	—	2.00
	绞车 Winding engine	1.40	1.60	1.8		管式磨粉机 Pipe type grinding machine	—	—	2.00
	卷扬机 Winding machine	—	1.50	1.8		造粉机 Powder making machine	—	1.60	1.60
	吊篮电梯 Goods lift	—	1.20	1.5		—	—	—	—
造纸 Papermaking 机械 machinery	乘客电梯 Passenger lift	—	1.50	1.8	—	—	—	—	—
	刮板式输送机 Screw conveyor	—	1.20	1.5		—	—	—	—
	自动扶梯 Escalator	—	1.20	1.4		—	—	—	—
	铁道行运机构 Railway mechanism	—	1.50	—		—	—	—	—
—	各种类型 Various types	—	1.80	2	—	—	—	—	—
	碎浆机鼓渣装置 Drive device of pulp shredder	2.00	2.00	2		—	—	—	—
往复式压缩机 Reciprocating compressor		—	1.80	1.9	—				

H/B系列

齿轮箱 Gear Box

服务系数 Service Factor

表2 原动机系数 Table 2 Factor for prime mover f_1	
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 Table 3 Peak torque factor f_2				
	每小时峰值负荷次数 load peaks per hour			
	1-5	6-30	31-100	>100
f_2 单向载荷 steady direction of load	0.5	0.65	0.7	0.85
f_2 口交变载荷 Alternating direction of load	0.7	0.95	1.10	1.25

表4 环境温度系数 Table 4 Thermal factor f_3					
不带辅助冷却装置或仅带冷却风扇 Without auxiliary cooling or with fan cooling					
环境温度 Ambient temperature	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	0.96

表5 环境温度系数 Table 5 Thermal factor f_4					
带冷却盘管或带冷却盘管和风扇 For cooling with cooling coil, or with fan and cooling coil					
环境温度 Ambient temperature	每小时工作周期(ED)百分比% Operating cycle per hour (ED) in %				
	100	80	60	40	20
10°C	1.04	1.10	1.21	1.40	1.86
20°C	1.00	1.06	1.16	1.35	1.79
30°C	0.93	0.99	1.08	1.26	1.66
40°C	0.88	0.93	1.02	1.19	1.58
50°C	0.81	0.86	0.94	1.09	1.45

表6 海拔高度系数 Table 6 Factor for altitude f_5					
不带辅助冷却装置或仅带冷却风扇 Without auxiliary cooling or with fan cooling					
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_5	1.0	0.95	0.90	0.85	0.80

表7 海拔高度系数 Table 7 Factor for altitude f_6					
带冷却盘管或带冷却盘管和风扇 For cooling with cooling coil, or with fan and cooling coil					
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_6	1.0	0.98	0.96	0.94	0.92

表15 减速机安全系数 Table 15 Factor safety S_A			
重要性与安全要求 Importance and safety requirements	一般设备, 减速机失效仅引起单机停产且更换备件 The failure of ordinary equipment and speed reducer can only result in production halts of single machine and replacement of spare parts.	一般设备, 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 or machines, production lines or the whole factory.	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.
S_A	1.1-1.3	1.3-1.5	1.5-1.7

H/B

齿轮箱 Gear Box

服务系数 Service Factors

表8
Table 8
垂直齿轮箱供油系数 对于H/B系列齿轮箱(1) 当采用强制润滑时, $f_{L2} \geq 0.5$
Oil supply factor for vertical gear box For H/B series gear box (1) and in case of forced lubrication $f_{L2} \geq 0.5$

齿轮箱型式 Gear box type	供油方式 Oil supply	速比 1..12 Size 1..12				速比 15..18 Size 15..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	带风扇和冷却盘管 With fan and cooling coil	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	带风扇和冷却盘管 With fan and cooling coil
H2.V H3.V H4.V	浸油润滑 Dip lubrication	0.85	-	0.95	1	-	-	-	-
	强制润滑 Forced lubrication	1.15	-	1.05	1	1.15	1	1.05	1
B2.V B3.V B4.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	1.15	1.10	1.10	1.10

表9
Table 9
不带辅助冷却装置的齿轮箱热容量系数
Thermal capacity factor for gear box without auxiliary cooling

齿轮箱型式 Gear box type	n r/min	安装位置 Place of installation							
		狭小空间安装 风速 $> 0.5m/s$ Small confined spaces wind velocity $> 0.5m/s$	室内大厅, 大车间安装 风速 $> 1.4m/s$ Large halls workshops Wind velocity $> 1.4m/s$	室外安装 风速 $> 4.0m/s$ In the open Wind velocity $> 4.0m/s$					
H1	750	0.65-0.25Xa1Xa2	0.75-0.27Xa1Xa2	1.00	H4	750	0.75	0.83	1.00
	1000	0.70-0.29Xa1Xa2	0.84-0.35Xa1Xa2	1.14-0.47Xa1Xa2		1000	0.85	0.91	1.10-0.40Xa1Xa2
	1500	0.72-0.50Xa1Xa2	0.88-0.60Xa1Xa2	1.25-0.60Xa1Xa2		1500	0.97-1.00Xa1Xa2	1.00-1.25Xa1Xa2	1.27-1.14Xa1Xa2
	1800	0.71-0.40Xa1Xa2	0.86-0.40Xa1Xa2	1.31-0.59Xa1Xa2		1800	1.02-1.16Xa1Xa2	1.04-1.21Xa1Xa2	1.34-0.85Xa1Xa2
	1600	0.76-1.00Xa1Xa2	0.87-1.40Xa1Xa2	1.12-1.30Xa1Xa2	B2	750	0.65-0.09Xa1Xa2	0.72-0.14Xa1Xa2	1.00
H2	750	0.75-0.48Xa1Xa2	0.79-0.31Xa1Xa2	1.00		1000	0.69-0.70Xa1Xa2	0.81-0.77Xa1Xa2	1.05-0.64Xa1Xa2
	1000	0.76-1.00Xa1Xa2	0.87-1.40Xa1Xa2	1.12-1.30Xa1Xa2		1500	0.74-0.30Xa1Xa2	0.96-0.50Xa1Xa2	1.09-0.90Xa1Xa2
	1500	0.83-1.10Xa1Xa2	0.86-0.60Xa1Xa2	1.25-0.49Xa1Xa2		1800	0.75-0.60Xa1Xa2	0.90-0.50Xa1Xa2	1.25-1.00Xa1Xa2
	1800	0.85-0.80Xa1Xa2	0.88-0.71Xa1Xa2	1.31-0.80Xa1Xa2	B3	750	0.75	0.80-0.06Xa1Xa2	1.00
H3	750	0.76	0.81-0.06Xa1Xa2	1.0		1000	0.79-0.63Xa1Xa2	0.87-0.81Xa1Xa2	1.10-0.73Xa1Xa2
	1000	0.85-1.20Xa1Xa2	0.90-1.25Xa1Xa2	1.11-1.30Xa1Xa2		1500	0.88-0.40Xa1Xa2	0.85-0.60Xa1Xa2	1.25-2.00Xa1Xa2
	1500	0.89-0.70Xa1Xa2	1.00-0.80Xa1Xa2	1.27-0.70Xa1Xa2		1800	0.88-0.00Xa1Xa2	0.95-0.30Xa1Xa2	1.26-0.30Xa1Xa2
	1800	0.96-0.50Xa1Xa2	1.05-0.60Xa1Xa2	1.32-0.40Xa1Xa2	B4	750	0.77	0.82	1.00
	750	0.76	0.81-0.06Xa1Xa2	1.0		1000	0.83	0.88	1.05-0.25Xa1Xa2
	1000	0.85-1.20Xa1Xa2	0.90-1.25Xa1Xa2	1.11-1.30Xa1Xa2		1500	0.82-1.70Xa1Xa2	0.95-0.80Xa1Xa2	1.24-2.00Xa1Xa2
	1500	0.89-0.70Xa1Xa2	1.00-0.80Xa1Xa2	1.27-0.70Xa1Xa2		1800	0.88-0.00Xa1Xa2	1.04-0.40Xa1Xa2	1.30-0.40Xa1Xa2
	1800	0.96-0.50Xa1Xa2	1.05-0.60Xa1Xa2	1.32-0.40Xa1Xa2		1800	0.88-0.00Xa1Xa2	1.04-0.40Xa1Xa2	1.30-0.40Xa1Xa2

表10
Table 10
带冷却风扇的齿轮箱热容量系数
Thermal capacity factor for gear box with fan

齿轮箱型式 Gear box type	n r/min	安装位置 Place of installation							
		狭小空间安装 风速 $> 0.5m/s$ Small confined spaces wind velocity $> 0.5m/s$	室内大厅, 大车间安装 风速 $> 1.4m/s$ Large halls workshops Wind velocity $> 1.4m/s$	室外安装 风速 $> 4.0m/s$ In the open Wind velocity $> 4.0m/s$					
H1	750	0.67-0.25Xa1Xa2	0.87-0.04Xa1Xa2	1.00	H4	750	0.69-0.29Xa1Xa2	0.91-0.25Xa1Xa2	1.00
	1000	1.10-0.33Xa1Xa2	1.20-0.30Xa1Xa2	1.23-0.32Xa1Xa2		1000	1.06-1.30Xa1Xa2	1.08-1.20Xa1Xa2	1.17-0.85Xa1Xa2
	1500	1.56-1.00Xa1Xa2	1.53-0.95Xa1Xa2	1.56-0.64Xa1Xa2		1500	1.88-0.20Xa1Xa2	1.40-0.10Xa1Xa2	1.46-0.70Xa1Xa2
	1800	1.59-1.50Xa1Xa2	1.70-1.50Xa1Xa2	1.73-1.30Xa1Xa2		1800	1.54-0.40Xa1Xa2	1.55-0.40Xa1Xa2	1.64-0.80Xa1Xa2
	1600	1.59-1.50Xa1Xa2	1.70-1.50Xa1Xa2	1.73-1.30Xa1Xa2	B2	750	0.65	0.86	1.00
H2	750	0.95-0.07Xa1Xa2	0.96-0.06Xa1Xa2	1.00		1000	1.13-0.15Xa1Xa2	1.14-0.16Xa1Xa2	1.19-0.19Xa1Xa2
	1000	1.16-0.65Xa1Xa2	1.17-0.63Xa1Xa2	1.21-0.55Xa1Xa2		1500	1.47-0.92Xa1Xa2	1.45-0.82Xa1Xa2	1.52-0.95Xa1Xa2
	1500	1.54-2.40Xa1Xa2	1.55-2.40Xa1Xa2	1.58-2.09Xa1Xa2		1800	1.88-1.70Xa1Xa2	1.86-1.70Xa1Xa2	1.88-1.70Xa1Xa2
	1800	1.74-3.60Xa1Xa2	1.75-3.60Xa1Xa2	1.78-3.60Xa1Xa2	B3	750	0.84	0.96	1.00
	750	0.95-0.07Xa1Xa2	0.96-0.06Xa1Xa2	1.00		1000	1.13-0.17Xa1Xa2	1.14-0.18Xa1Xa2	1.18-0.25Xa1Xa2
	1000	1.16-0.65Xa1Xa2	1.17-0.63Xa1Xa2	1.21-0.55Xa1Xa2		1500	1.48-1.40Xa1Xa2	1.49-1.40Xa1Xa2	1.52-1.40Xa1Xa2
	1500	1.54-2.40Xa1Xa2	1.55-2.40Xa1Xa2	1.58-2.09Xa1Xa2		1800	1.88-2.80Xa1Xa2	1.87-2.50Xa1Xa2	1.74-2.50Xa1Xa2
	1800	1.74-3.60Xa1Xa2	1.75-3.60Xa1Xa2	1.78-3.60Xa1Xa2		1800	1.88-2.80Xa1Xa2	1.87-2.50Xa1Xa2	1.74-2.50Xa1Xa2

表11
Table 11
带冷却盘管的齿轮箱热容量系数
Thermal capacity factor for gear box with cooling coil

齿轮箱型式 Gear box type	n r/min	安装位置 Place of installation							
		狭小空间安装 风速 $> 0.5m/s$ Small confined spaces wind velocity $> 0.5m/s$	室内大厅, 大车间安装 风速 $> 1.4m/s$ Large halls workshops Wind velocity $> 1.4m/s$	室外安装 风速 $> 4.0m/s$ In the open Wind velocity $> 4.0m/s$					
H1	750	0.67	0.81	1.00	H4	750	0.69	0.91	1.00
	1000	0.97-0.05Xa1Xa2	1.05-0.05Xa1Xa2	1.15-0.10Xa1Xa2		1000	1.04	1.07	1.15-0.38Xa1Xa2
	1500	1.15-0.19Xa1Xa2	1.22-0.25Xa1Xa2	1.26-0.30Xa1Xa2		1500	1.30-0.79Xa1Xa2	1.34-1.10Xa1Xa2	1.47-1.60Xa1Xa2
	1800	1.25-0.42Xa1Xa2	1.32-0.47Xa1Xa2	1.30-0.57Xa1Xa2		1800	1.44-1.70Xa1Xa2	1.45-2.00Xa1Xa2	1.62-2.60Xa1Xa2
	1600	1.25-0.42Xa1Xa2	1.32-0.47Xa1Xa2	1.30-0.57Xa1Xa2	B2	750	0.85	0.90	1.00
H2	750	0.88	0.91	1.00		1000	0.88	1.02	1.15-0.09Xa1Xa2
	1000	0.97-0.05Xa1Xa2	1.05-0.05Xa1Xa2	1.15-0.10Xa1Xa2		1500	1.14	1.19-0.06Xa1Xa2	1.26-0.37Xa1Xa2
	1500	1.15-0.19Xa1Xa2	1.22-0.25Xa1Xa2	1.26-0.30Xa1Xa2		1800	1.21-0.03Xa1Xa2	1.29-0.25Xa1Xa2	1.48-0.64Xa1Xa2
	1800	1.25-0.42Xa1Xa2	1.32-0.47Xa1Xa2	1.30-0.57Xa1Xa2	B3	750	0.88	0.91	1.00
	750	0.88	0.91	1.00		1000	1.03	1.06	1.17-0.15Xa1Xa2
	1000	0.97-0.05Xa1Xa2	1.05-0.05Xa1Xa2	1.15-0.10Xa1Xa2		1500	1.28-0.35Xa1Xa2	1.32-0.48Xa1Xa2	1.46-0.84Xa1Xa2
	1500	1.27-0.79Xa1Xa2	1.33-0.69Xa1Xa2	1.37-1.10Xa1Xa2		1800	1.41-0.63Xa1Xa2	1.46-0.99Xa1Xa2	1.61-1.40Xa1Xa2
	1800	1.40-1.40Xa1Xa2	1.46-1.50Xa1Xa2	1.61-1.75Xa1Xa2		1800	1.41-0.63Xa1Xa2	1.46-0.99Xa1Xa2	1.61-1.40Xa1Xa2

对于系数 f_{L2} 和 f_{L3} , 请与我们联系 For factors f_{L2} and f_{L3} , please refer to us

(根据客户需求另行商议) (According to customer request)

H/B系列



齿轮箱 Gear Box

服务系数 Service Factor

表12 Table 12		带冷却风度和冷却盘管的齿轮箱的热容量系数 Thermal capacity factor for gear box with fan and cooling coil				f_H				
齿轮箱 类型 Gear box type	n r/min	安装地点 Place of installation				H2	750	0.94	0.95	1.00
		狭小空间安装 风速 Small confined spaces wind velocity $\geq 0.5\text{m/s}$	室内大厅、大车间安装 风速 Large halls, workshops Wind velocity $\geq 1.4\text{m/s}$	室外安装 风速 In the open Wind velocity $\geq 4.0\text{m/s}$			1000	$1.14-0.46Xa1Xa2$	$1.15-0.47Xa1Xa2$	$1.20-0.48Xa1Xa2$
H1	750	0.98	0.98	1.00		B2	750	0.97	0.98	1.00
	1000	$1.19-0.09Xa1Xa2$	$1.20-0.09Xa1Xa2$	$1.22-0.09Xa1Xa2$			1000	$1.17-0.08Xa1Xa2$	$1.18-0.08Xa1Xa2$	$1.21-0.12Xa1Xa2$
	1500	$1.56-0.31Xa1Xa2$	$1.56-0.30Xa1Xa2$	$1.57-0.29Xa1Xa2$			1500	$1.55-0.47Xa1Xa2$	$1.55-0.47Xa1Xa2$	$1.58-0.52Xa1Xa2$
	1800	$1.75-0.52Xa1Xa2$	$1.76-0.52Xa1Xa2$	$1.77-0.52Xa1Xa2$			1800	$1.74-0.81Xa1Xa2$	$1.75-0.82Xa1Xa2$	$1.77-0.84Xa1Xa2$
H2	750	0.97	0.98	1.00		B3	750	0.97	0.97	1.00
	1000	$1.19-0.25Xa1Xa2$	$1.20-0.25Xa1Xa2$	$1.22-0.25Xa1Xa2$			1000	$1.17-0.08Xa1Xa2$	$1.18-0.10Xa1Xa2$	$1.21-0.18Xa1Xa2$
	1500	$1.59-1.06Xa1Xa2$	$1.59-1.00Xa1Xa2$	$1.61-1.00Xa1Xa2$			1500	$1.56-0.84Xa1Xa2$	$1.57-0.85Xa1Xa2$	$1.60-0.92Xa1Xa2$
	1800	$1.82-1.50Xa1Xa2$	$1.82-1.80Xa1Xa2$	$1.84-1.80Xa1Xa2$			1800	$1.78-1.50Xa1Xa2$	$1.78-1.50Xa1Xa2$	$1.80-1.50Xa1Xa2$

对于系数 $f_H < 0.5$, 请与我们联系! For factors $f_H < 0.5$, please refer to us!

表13 Table 13		尺寸系数 Size factor a1											
Size	3	4	5	6	7	8	9	10	11	12	13	14	
a1	0.024	0.030	0.050	0.055	0.065	0.075	0.085	0.095	0.135	0.150	0.190	0.200	
Size	15	16	17	18	19	20	21	22	23	24	25	26	
a1	0.027	0.290	0.320	0.345	0.370	0.390	0.500	0.610					

*) 对于这些尺寸, 请与我们联系! *) for these sizes, please refer to us!

表14 Table 14		传动比系数 Transmission ratio factor i2											
i	H1SH	i	H2SH	i	H3SH	i	H4SH	i	B2SH	i	B3SH	i	B4SH
1.25	13.000	6.3	1.800	22.4	0.320	100	0.020	5	3.500	12.5	0.950	80	0.110
1.4	12.000	7.1	1.600	25	0.310	112	0.015	5.6	2.800	14	0.850	90	0.100
1.6	10.000	8	1.400	28	0.270	125	0.012	6.3	2.400	16	0.800	100	0.090
1.8	8.500	9	1.100	31.5	0.230	140	0.009	7.1	1.900	18	0.750	112	0.080
2	8.000	10	0.890	35.5	0.190	160	0.007	8	1.600	20	0.700	125	0.070
2.24	7.000	11.2	0.740	40	0.170	180	0.004	9	1.350	22.4	0.650	140	0.060
2.5	6.500	12.5	0.630	45	0.160	200	0.002	10	1.200	25	0.550	160	0.050
2.8	6.000	14	0.530	50	0.110	224	0.000	11.2	1.100	28	0.450	180	0.040
3.15	5.500	16	0.450	56	0.090	250	0.000	12.5	0.950	31.5	0.380	200	0.030
3.55	5.000	18	0.370	63	0.080	280	0.000	14	0.850	35.5	0.330	224	0.020
4	4.900	20	0.330	71	0.045	315	0.000	16	0.800	40	0.300	250	0.010
4.5	4.100	22.4	0.320	80	0.040	355	0.000	18	0.750	45	0.270	280	0.000
5	4.500	25	0.310	90	0.035	400	0.000			50	0.200	315	0.000
5.6	4.600	28	0.270	100	0.020	450	0.000			56	0.150	355	0.000
				112	0.015					63	0.130	400	0.000
										71	0.120		
										80	0.110		
										90	0.100		

平行轴齿轮箱 Helical Gear Box 类型 H1 Type H1

额定功率 Nominal Power Ratings 规格 1...19 Sizes 1...19

H/B

额定功率 Nominal Power Ratings																												
齿轮箱规格 Gear box size																												
H/B	额定功率 PN KW / Nominal power ratings PN in kW																											
	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	27	28
1.25	1500	1200	90	327	580	1631	2708																					
	1000	800	66	218	386	1114	1801																					
	750	600	50	163	280	806	1351																					
1.4	1500	1071	83	303	677	1559	2591																					
	1000	714	62	202	438	1009	1607																					
	750	536	47	162	304	780	1282																					
1.6	1500	938	65	285	717	1385	2318	3428																				
	1000	625	57	199	495	1024	1545	2018	3023																			
	750	469	43	142	376	787	1159	1594	2094																			
1.8	1500	832	79	279	672	1305	2188	3611																				
	1000	556	53	140	448	865	1421	2410	3260																			
	750	417	40	105	338	664	1065	1808	2585																			
2	1500	750	73	196	642	1217	1953	3350																				
	1000	500	49	131	409	812	1309	2236	3511																			
	750	375	37	98	322	609	952	1677	2878	4751																		
2.25	1500	670	67	175	588	1087	1754	3087																				
	1000	446	45	117	392	724	1168	2053	3263																			
	750	335	34	88	285	544	877	1543	2486	4380																		
2.5	1500	600	60	162	528	974	1571	2784																				
	1000	400	42	109	362	649	1047	1843	3016	4937																		
	750	300	31	82	264	487	785	1382	2262	3425																		
2.8	1500	536	56	152	471	806	1330	2470																				
	1000	357	37	105	314	557	886	1648	2682	4224																		
	750	280	28	78	236	416	665	1235	2021	3171	4799																	
3.15	1500	478	50	136	415	756	1221	2098	3409																			
	1000	317	33	90	279	506	813	1391	2270	3869																		
	750	236	24	67	200	373	611	1044	1705	2881	4311																	
3.55	1500	423	44	124	382	687	1109	1938	3083																			
	1000	282	30	83	245	458	735	1230	2055	3494																		
	750	211	22	63	183	342	550	965	1538	2507	3822																	
4	1500	375	39	110	330	609	982	1728	2790																			
	1000	240	26	73	233	406	654	1159	1853	3194	4529																	
	750	188	20	55	165	305	482	866	1394	2402	3406	4823																
4.5	1500	333	35	77	236	481	746	1338	2008	3557																		
	1000	222	18	51	156	321	497	830	1336	2371	3364																	
	750	167	14	38	117	241	374	609	1007	1784	2553	3777																
5	1500	290	30	68	198	377	644	1099	1712	2799																		
	1000	200	16	44	132	251	429	706	1141	1860	2597	3844																
	750	150	12	33	94	188	322	529	856	1385	1948	2733																
5.6	1500	246	27	56	168	320	491	892	1454	2371																		
	1000	179	19	37	112	214	320	506	871	1584	2212	2812																
	750	134	9	28	84	160	248	448	727	1186	1656	2103																

非强制润滑需 强制润滑 required

H/B系列



平行轴齿轮箱 Helical Gear Box
类型 H1 Type H1

热容量 Thermal Capacities
规格 1...19 Sizes 1...19

热容量 Thermal Capacities																											
齿轮箱规格 Gear box sizes																											
H/B		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
		热容量PG (单位为KW) 取决于冷却方式: PG1: 无辅助冷却装置; PG2: 带冷却风扇; PG3: 带冷却水管; PG4: 带风扇和冷却水管。 Thermal capacity PG(in KW) depends on kind of cooling: PG1: without auxiliary cooling, PG2: fan cooling, PG3: cooling coil, PG4: fan and cooling coil.																									
1.25	PG1	70.1		110		207		230		180																	
	PG2			171		408		562		642																	
	PG3	109		269		641		923		1322																	
	PG4			322		619		1177		1621																	
1.4	PG1	68.0		110		214		250		247																	
	PG2			169		409		567		670																	
	PG3	106		260		629		901		1305																	
	PG4			312		600		1149		1569																	
1.6	PG1	65.2		108		215		261		303		234															
	PG2			164		399		548		606		867		891													
	PG3	100		244		593		836		1246		2138		2631													
	PG4			285		754		1064		1519		2632		3220													
1.8	PG1	60.0		120		214		274		323		330															
	PG2			181		387		552		682		1000		1011													
	PG3	93.7		264		557		818		1105		2082		2547													
	PG4			319		712		1040		1454		2555		3095													
2	PG1	65.0		116		209		273		334		399		300													
	PG2			174		372		534		665		1010		1085		794											
	PG3	89.1		281		625		775		1128		2004		2483		2249											
	PG4			303		670		965		1382		2449		3001		3099											
2.24	PG1	57.0		112		202		263		336		433		416													
	PG2			168		353		486		643		989		1119		908											
	PG3	53.9		226		490		699		1063		1897		2377		2190											
	PG4			286		628		889		1296		2322		2874		2964											
2.5	PG1	54.1		103		192		252		326		452		436													
	PG2			153		332		466		611		871		1121		1001											
	PG3	75.5		212		453		644		984		1778		2246		2140											
	PG4			257		590		818		1201		2174		2714		2875											
2.8	PG1	52.3		97.0		180		263		347		456		525													
	PG2			143		309		477		630		928		1095		1093			984								
	PG3	59.5		195		413		649		990		1643		2091		2063			2359								
	PG4			237		529		824		1205		2010		2525		2744			3138								
3.15	PG1	49.7		88.1		185		293		371		520		620		464											
	PG2			138		305		505		664		976		1151		1291			1253								
	PG3	54.9		169		408		755		1075		1670		2082		2210			2585								
	PG4			327		517		967		1320		2030		2495		2847			3297								
3.55	PG1	45.0		87.5		182		272		348		493		607		527			420								
	PG2			126		297		490		616		902		1086		1259			1289								
	PG3	59.7		170		390		678		973		1508		1899		2057			2443								
	PG4			305		494		870		1196		1835		2277		2620			3068								
4	PG1	41.0		79.4		166		247		301		465		580		550			514								
	PG2			114		269		438		523		753		906		1194			1267			1221					
	PG3	52.2		151		345		592		805		1358		1711		1869			2349								
	PG4			182		439		763		998		1655		2055		2384			2829								
4.5	PG1	41.0		87.5		172		254		347		446		606		657			649			563					
	PG2			122		272		437		505		789		937		1272			1337			1351					
	PG3	53.0		161		346		586		800		1290		1766		1905			2238								
	PG4			193		438		749		1003		1580		2126		2403			2782								
5	PG1	37.0		79.2		163		245		316		443		596		676			776			788					
	PG2			111		257		419		527		770		989		1246			1485			1578					
	PG3	46.5		143		325		551		783		1220		1662		1805			2414								
	PG4			172		411		707		964		1500		2000		2276			2668								
5.6	PG1	36.5		70.9		145		221		304		423		535		600			745			904					
	PG2			98.3		227		374		503		730		890		1131			1374			1658					
	PG3			125		281		483		729		1143		1457		1585			2148								
	PG4			150		357		621		902		1409		1761		2014			2660								

H/B

平行轴齿轮箱 Helical Gear Box

类型 H2...H3... Type H2... H3

额定功率 Nominal Power Ratings

规格 3...26 Sizes 3...26

H/B

额定功率 Nominal Power Ratings																												
IN	mm	mm	轴间距 (mm) Shaft center distance																									
			3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26		
			额定功率 H/B KW Nominal power ratings H/B in kW																									
5.0	1600	285	87	157	262		474		785		1893		3143		5508		8660											
	1000	189	58	105	175		316		524		1228		2081		3647		5862											
	750	119	44	79	131		247		393		862		1472		2430		3839											
7.1	1600	211	77	139	232		480		695		1328		1900		3159	3519	4309	5382										
	1000	141	52	92	165		281		462		913		1230		2111	2362	2879	3396	4311	4946								
	750	106	39	70	117		211		350		616		960		1567	1776	2164	2552	3241	3718	4551							
9	1600	188	68	124	207	266	574	472	650	776	1033	1358	1693	2108	2645	3194	3839	4528										
	1000	125	46	82	137	177	248	314	412	517	726	900	1126	1401	1872	2394	2952	3540	3822	4365	5366							
	750	94	34	62	103	130	187	236	310	389	545	679	846	1053	1406	1575	1919	2268	2874	3297	4036	4904						
11.2	1600	167	61	110	184	236	332	430	560	691	971	1207	1504	1871	2303	2798	3410	4022										
	1000	111	41	73	122	157	221	279	366	459	645	802	1010	1244	1562	1890	2266	2671	3394	3894	4765	5925						
	750	83	30	55	91	117	165	203	274	343	462	600	747	930	1147	1391	1605	1999	2506	2912	3563	3941	4833					
14	1600	150	55	99	165	212	298	377	498	620	873	1084	1351	1741	2246	2815	3463	4113										
	1000	100	37	65	110	141	199	251	330	414	561	720	891	1120	1427	1875	2340	2808	3386	3990	4283	4786						
	750	75	27	49	82	105	148	188	247	310	436	542	675	840	1123	1257	1531	1886	2295	2651	3220	3597	4241	4688				
16.5	1600	131	49	86	147	189	267	337	442	554	779	966	1207	1501	2008	2285	2736	3267										
	1000	89	33	59	99	128	177	224	294	365	517	643	801	997	1333	1491	1817	2133	2721	3162	3821	4265	5092					
	750	67	25	44	74	95	135	168	221	277	384	481	605	751	1000	1125	1368	1614	2049	2350	2875	3215	3768	4380				
19	1600	120	44	79	132	170	238	302	395	496	697	867	1081	1345	1767	2010	2450	2950	3659									
	1000	80	29	52	88	113	159	201	264	331	465	579	720	889	1158	1340	1634	1927	2436	2850	3438	3837	4584					
	750	60	22	40	66	85	119	151	198	249	343	424	540	672	899	1008	1225	1445	1859	2195	2576	2877	3483	3955	4900			
22.5	1600	107	39	71	118	151	219	283	360	450	623	772	964	1199	1602	1735	2185	2577	3272	3759								
	1000	71	26	47	78	100	148	189	244	313	437	537	670	835	1063	1190	1450	1710	2117	2491	3048	3405	4015	4609				
	750	54	20	36	59	76	107	135	178	223	314	380	485	605	809	905	1103	1301	1661	1894	2318	2580	3053	3506	4410	5375		
26	1600	94	34	62	103	130	197	258	340	430	596	747	946	1183	1406	1575	1919	2268	2874	3297								
	1000	63	23	42	69	88	125	158	208	261	366	455	567	706	943	1055	1288	1517	1926	2210	2705	3021	3562	4090	5346			
	750	47	17	31	50	66	94	118	156	194	273	340	425	527	704	787	960	1132	1437	1649	2018	2254	2689	3051	3630	4531		
30.4	1600	83	30	55	91	117	165	209	274	346	482	600	747	930	1147	1391	1605	1999	2506	2912								
	1000	53	20	37	62	79	111	141	185	242	325	405	504	627	829	946	1143	1349	1712	1964	2404	2686	3195	3630	4524	5160		
	750	42	15	28	46	59	84	106	139	174	244	300	378	471	629	704	858	1042	1284	1473	1804	2014	2375	2727	3430	4070		
35.5	1600	75	27	49	82	105	148	188	247	310	436	542	675	840	1123	1257	1531	1886	2295	2651								
	1000	50	18	33	55	71	98	126	165	207	281	351	450	560	749	836	1021	1264	1529	1754	2147	2398	2897	3248	4084	4607		
	750	39	14	25	43	54	76	95	125	157	221	275	345	428	569	637	775	975	1162	1333	1631	1825	2149	2467	3034	3508		
40.4	1600	67	25	42	72	95	130	168	217	277	382	484	617	751	1073	1125	1403	1614	2105	2380	2847							
	1000	43	16	29	48	64	88	113	146	189	267	323	415	504	721	794	942	1084	1414	1579	1979	2138	2539	2921	3370	4147		
	750	33	12	21	35	47	64	83	107	136	188	238	304	370	529	582	691	795	1037	1158	1451	1583	1935	2142	2584	3041		
45	1600	60			69	85	129	151	214	240	377	464	553	692	861	1047	1267	1508	1805	2168	2629	2953	3618	4021	5026			
	1000	40			46	57	86	101	142	165	251	289	358	449	641	725	858	1005	1237	1445	1759	1909	2346	2681	3351	3770		
	750	30			35	42	64	75	107	124	183	217	276	358	481	542	623	754	942	1084	1319	1476	1799	2070	2513	2827		
50	1600	58			62	74	116	133	192	220	333	381	490	616	855	978	1197	1357	1696	1967	2375	2650	3165	3619	4524	5089		
	1000	35			41	49	77	89	128	147	226	258	322	411	577	652	754	905	1121	1301	1563	1732	2111	2449	3016	3383		
	750	27			31	37	58	66	96	110	170	192	240	308	430	488	565	679	846	965	1187	1329	1563	1809	2202	2545		
56	1600	48			35	43	105	124	171	216	307	377	442	548	769	870	1085	1266	1505	1744	2111	2354	2815	3217	4035	4524		
	1000	33			30	36	89	104	144	171	261	287	356	435	619	673	809	1025	1193	1407	1595	1975	2243	2661	3216	3616		
	750	24			20	26	82	94	135	158	221	247	305	383	500	563	665	794	957	1085	1307	1487	1802	2043	2461	2822		
63	1600	43			46	56	112	130	189	234	330	387	479	670	761	980	1055	1312	1517	1847	2067	2463	2815	3515	3958			
	1000	28			32	40	80	95	130	156	225	256	320	405	528	595	701	840	1012	1231	1378	1642	1876	2345	2663			
	750	21			24	28	75	88	123	145	203	231	284	355	460	528	620	744	884	1034	1231	1407	1759	1979				

注: 轴间距 (mm) Forced lubrication required

类型 H2...H3... Types H2... H3...

规格 3...26 Sizes 3...26

機 型 PG, KW Thermal / Capacities																													
齒輪箱規格 Gear box sizes																													
H ₂		機型PG: 單位kW () 數值在() 內者為: PG1: 普通型齒輪箱, PG2: 普通型齒輪箱, PG3: 普通型齒輪箱, PG4: 普通型齒輪箱 Thermal capacity PG (kW) dependent on rpm / mounting Performance auxiliary cooling, PG4 fan cooling, PG5 cooling coil, PG6 fan and cooling coil																											
		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		
6.3	PG1	34.0	64.0	104			126			157			183			215			240			275			310				
	PG2		64.5	126			152			275			443			607			652			775							
	PG3	54.0	74.0	78			281			454			689			1184			1405			1713							
	PG4	137	216				357			632			835			1394			1653			2132							
7.1	PG1	55.0	69.0	81			124			173			256			340			351			342			215			250	
	PG2		85.7	131			184			264			440			601			659			672			807			802	
	PG3	70.3	115	180			273			427			650			1123			1352			1416			1650			1710	
	PG4	128	217				306			506			812			1344			1599			1670			2040			2129	
8	PG1	49.7	67.1	88.9	117		120	137		169	176		192	201		341	372		368	368		365	340		431	402	459	399	
	PG2		71.4	121	140		167	213	255		267	405	495	590		681	658		679	826		831							
	PG3	70.8	120	171	187		289	297	405	450		619	649	1089	1216		1310	1370		1611	1650								
	PG4	131	206	226	330		385	481	630	777		1023	1284	1485	1635		1614	1980		2042									
9	PG1	45.3	64.9	82.7	99.5		116	135	183		172	243	293	336		378	375		383	399		380	469		457	518	479	1637	
	PG2		65.2	120	141		180	204	245	257		406	481	575		652	647		679	820		848							
	PG3	71.4	104	185	187		246	280	383	421		672	824	1012	1175		1247	1381		1562	1615								
	PG4	128	196	221	302		344	456	496	717		994	1216	1407	1401		1550	1907		1992									
10	PG1	44.1	61.4	81.0	88.6		112	129	157		167	236	289	331		378	375		390	410		419	500		492	572	595	1076	
	PG2		63.6	115	137		171	197	234	240		396	478	562		637	629		664	820		850							
	PG3	52.4	82.9	151	175		201	236	359	401		507	783	955		1115	1177		1284	1403		1526							
	PG4	117	183	215	285		327	426	472	672		950	1148	1343	1379		1475	1619		1908									
11.5	PG1	41.7	58.8	77.9	95.5		113	125	149		182	236	277	317		373	370		390	420		437	530		530	607	569	1118	
	PG2		70.4	130	152		172	189	221	240		381	452	536		618	606		647	799		840							
	PG3	65.2	101.7	143	171		220	251	335	376		635	780	941	1062		1100	1187		1411	1413								
	PG4	119	173	206	283		310	400	447	686		872	1133	1275	1292		1381	1717		1822									
13.5	PG1	35.8	58.7	75.3	88.1		111	119	146		159	219	261	301		349	364		372	384		444	535		550	641	621	1110	
	PG2		73.7	107	124		161	180	215	229		381	430	522		545	630		622	784		817							
	PG3	59.7	88.5	140	175		224	257	324	356		592	675	803		907	1076		1114	1570		1410							
	PG4	136	188	190	275		292	364	421	650		816	1016	1179	1261		1305	1665		1716									
14	PG1	38.3	63.7	75.4	84.3		105	120	142		142	226	270	310		389	399		345	434		459	531		574	643	663	1110	
	PG2		71.3	101	116		155	181	207	217		382	433	495		590	669		615	786		816							
	PG3	52.5	82.7	131	146		200	235	285	331		483	670	799		887	1001		1087	1280		1380							
	PG4	85.1	156	170	247		280	364	395	602		817	985	1187	1173		1276	1657		1685									
16	PG1	38.3	59.2	89.5	105.5		118	132	145		212	289	282	354		361	371		420	440		530	580		627	682	1084	1127	
	PG2		58.2	96.7	114		142	176	192	210		334	424	449		502	595		582	725		761							
	PG3	51.3	74.5	120	146		184	220	280	321		440	653	707		900	970		1030	1188		1261							
	PG4	89.8	144	175	228		282	304	379	540		749	855	1084	1147		1183	1444		1520									
16	PG1	34.8	47.0	54.5	75.1		84.1	105	125		140	196	285	285		308	340		273	415		433	504		561	617	637	1050	
	PG2		62.0	89.4	106		136	150	181	182		210	396	460		533	527		579	702		739							
	PG3	50.2	70.0	113	128		175	216	281	336		470	652	709		836	907		887	1132		1102							
	PG4	64.2	126	182	216		253	312	357	513		729	859	1007	1050		1150	1373		1446									
20	PG1	32.1	45.0	60.4	73.1		84.9	102	121		132	189	236	287		308	326		351	406		429	512		548	598	624	1015	
	PG2		63.4	85.3	100		128	145	174	199		237	389	419		482	489		540	681		713							
	PG3	45.3	67.7	105	124		180	199	250	295		387	547	646		740	829		810	1088		1134							
	PG4	81.4	128	150	198		232	298	329	484		693	780	899		975	1069		1318	1360									
32.4	PG1	31.9	43.3	59.1	69.6		81.8	97	111		124	176	220	240		210	330		336	355		405	440		501	594	607	775	
	PG2		49.9	71.1	89.9		121	143	161		175	245	343	381		482	443		510	400		645							
	PG3	45.9	67.7	109.4	116		185	200	255	259		362	512	525		740	844		834	844		1070							
	PG4	74.3	115	142	185		221	240	307	441		620	580	893		981	880		834	1311									
25	PG1		35.8	65.0	64.3		80.6	115	120		175	215	234		290	302		341	344		367	435		453	587	535	780	790	
	PG2		69.2	89.3	105		132	145	171		224	339	282		446	429		456	445		474								
	PG3		38.7	108	158		188	231	248		392	480	439		676	695		854	796		842								
	PG4		110	151	177		295	258	294		436	582	550		815	880		563	881		940								
35	PG1		54.5	60.7	86.7		87.1	114	111		167	198	225		359	210		332	339		385	487		447	540	540	770	808	
	PG2		69.5	63.8	106		127	143	156		215	304	881		223	421		441	406		456								
	PG3		104.0	188.6	157		167	334	334		367	435	488		548	797		814	766		799								
	PG4		194	170	138		183	350	367		410	530	518		605	850		808	850		867								
31.5	PG1		35.8	61.3	81.2		90.3	111	115		181	199	219		252	210		338	349		340	471		438	530	540	773	804	
	PG2		69.4	102	138		162	215	262		350	409	449		520	332		575	734		775								
	PG3		100	174	181		191	240	292		381	450	486		574	819		851	812		872								
	PG4		21.0	28.7	78.6		80.6	107	114		155	196	212		243	435		320	212		239	405		429	530	545	784	797	
35.5	PG1		65.4	68.2	142		160	305	300		331	377	427		499	679		741	670		738								
	PG2		63.0	70.9	88.1		112	134	141		199	236	282		301	596		420	399		433								
	PG3																												
	PG4																												

H/B

平行轴齿轮箱 Helical Gear Box
类型 H3... H4... Types H3... H4

额定功率 Nominal Power Ratings
规格 5...26 Size 5...26

H/B

额定功率 10min Power Ratings																										
IN	H	B	轴端速度 Gear Speeds																							
			5	6	7	8	9	10	11	12	14	15	16	17	18	19	20	21	22	24	26	28	30	32	35	
			额定功率 10min Power Ratings Nominal power ratings (kW)																							
40	1500	38	44	32	61	101	135	171	207	243	324	360	402	444	486	528	570	612	654	696	738	780	822	864	906	948
	1000	25	28	38	54	67	80	93	106	120	156	171	192	216	240	264	288	312	336	360	384	408	432	456	480	504
	750	15.8	22	30	40	50	62	75	88	100	126	141	162	183	204	225	246	267	288	309	330	351	372	393	414	435
45	1500	33	35	43	47	59	78	93	108	133	201	251	292	333	374	415	456	497	538	579	620	661	702	743	784	825
	1000	22	25	32	35	45	59	71	83	97	125	151	176	201	226	251	276	301	326	351	376	401	426	451	476	501
	750	16.2	19	25	28	36	46	56	67	78	93	111	129	147	165	183	201	219	237	255	273	291	309	327	345	363
50	1500	39	35	48	68	80	107	126	163	205	247	289	331	373	415	457	499	541	583	625	667	709	751	793	835	877
	1000	20	23	30	43	51	71	84	100	122	144	166	188	210	232	254	276	298	320	342	364	386	408	430	452	474
	750	15	17	23	32	40	55	66	79	94	110	126	142	158	174	190	206	222	238	254	270	286	302	318	334	350
55	1500	37	31	41	58	72	98	122	170	212	254	296	338	380	422	464	506	548	590	632	674	716	758	800	842	884
	1000	17.5	21	27	38	46	64	77	92	110	132	154	176	198	220	242	264	286	308	330	352	374	396	418	440	462
	750	12.4	15	20	28	35	48	58	70	84	100	116	132	148	164	180	196	212	228	244	260	276	292	308	324	340
60	1500	34	28	36	52	64	88	108	151	189	231	273	315	357	399	441	483	525	567	609	651	693	735	777	819	861
	1000	15.5	18	24	34	42	58	72	88	108	130	152	174	196	218	240	262	284	306	328	350	372	394	416	438	460
	750	11.5	14	18	26	32	42	52	64	78	94	110	126	142	158	174	190	206	222	238	254	270	286	302	318	334
71	1500	21	24	32	45	55	75	95	122	150	178	206	234	262	290	318	346	374	402	430	458	486	514	542	570	598
	1000	14.1	16	21	30	36	50	62	76	92	110	128	146	164	182	200	218	236	254	272	290	308	326	344	362	380
	750	10.6	12	16	23	28	38	48	58	70	84	100	116	132	148	164	180	196	212	228	244	260	276	292	308	324
80	1500	15.8	20	29	40	50	67	86	108	132	156	180	204	228	252	276	300	324	348	372	396	420	444	468	492	516
	1000	12.8	14	19	27	33	45	56	70	84	100	116	132	148	164	180	196	212	228	244	260	276	292	308	324	340
	750	9.4	11	14	20	25	33	42	52	64	78	92	106	120	134	148	162	176	190	204	218	232	246	260	274	288
90	1500	16.7	18	25	35	45	63	83	105	129	153	177	201	225	249	273	297	321	345	369	393	417	441	465	489	513
	1000	11.1	13	17	23	29	40	50	62	76	92	108	124	140	156	172	188	204	220	236	252	268	284	300	316	332
	750	8.0	10	13	17	22	29	37	46	56	68	80	92	104	116	128	140	152	164	176	188	200	212	224	236	248
110	1500	15	23	32	40	53	69	84	115	139	171	203	235	267	299	331	363	395	427	459	491	523	555	587	619	651
	1000	10	15	21	27	35	45	55	75	92	112	132	152	172	192	212	232	252	272	292	312	332	352	372	392	412
	750	7.5	11	15	20	27	34	42	57	69	86	103	120	137	154	171	188	205	222	239	256	273	290	307	324	341
112	1500	13.4	20	29	36	48	64	79	108	132	156	180	204	228	252	276	300	324	348	372	396	420	444	468	492	516
	1000	8.9	13	19	25	32	43	53	70	86	104	122	140	158	176	194	212	230	248	266	284	302	320	338	356	374
	750	6.7	10	14	19	24	31	38	52	63	78	93	108	123	138	153	168	183	198	213	228	243	258	273	288	303
125	1500	12	26	35	43	56	75	94	111	127	156	185	214	243	272	301	330	359	388	417	446	475	504	533	562	591
	1000	8	17	21	28	35	46	56	74	90	108	126	144	162	180	200	218	236	254	272	290	308	326	344	362	380
	750	6	13	16	21	27	36	44	58	69	86	103	120	137	154	171	188	205	222	239	256	273	290	307	324	341
140	1500	10.8	29	39	48	63	84	99	128	152	176	200	224	248	272	296	320	344	368	392	416	440	464	488	512	536
	1000	7.1	16	19	25	32	43	53	70	86	104	122	140	158	176	194	212	230	248	266	284	302	320	338	356	374
	750	5.4	12	14	19	24	31	38	52	63	78	93	108	123	138	153	168	183	198	213	228	243	258	273	288	303
160	1500	9.4	20	25	32	42	55	74	92	110	128	146	164	182	200	218	236	254	272	290	308	326	344	362	380	398
	1000	6.3	14	17	22	29	40	49	68	82	100	118	136	154	172	190	208	226	244	262	280	298	316	334	352	370
	750	4.7	10	13	17	21	28	35	48	58	74	89	105	121	137	153	169	185	201	217	233	249	265	281	297	313
160	1500	5.3	18	22	28	37	50	69	86	103	120	137	154	171	188	205	222	239	256	273	290	307	324	341	358	375
	1000	3.6	12	15	20	25	33	41	54	65	82	99	116	133	150	167	184	201	218	235	252	269	286	303	320	337
	750	4.2	9.0	11	15	19	25	32	43	52	65	78	92	106	120	134	148	162	176	190	204	218	232	246	260	274
200	1500	7.2	19	23	27	34	47	65	83	101	119	137	155	173	191	209	227	245	263	281	299	317	335	353	371	389
	1000	5	11	15	19	24	31	39	50	61	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300
	750	3.8	8.2	10	13	17	22	28	35	43	53	63	75	87	99	111	123	135	147	159	171	183	195	207	219	231
224	1500	6.7	14	18	24	31	42	57	72	88	104	120	136	152	168	184	200	216	232	248	264	280	296	312	328	344
	1000	4.5	10	12	16	21	27	35	44	54	65	77	90	103	116	129	142	155	168	181	194	207	220	233	246	259
	750	3.3	7.1	9.6	12	15	21	26	33	40	50	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228
250	1500	6	18	22	27	35	47	65	83	101	119	137	155	173	191	209	227	245	263	281	299	317	335	353	371	389
	1000	4	10	13	17	22	29	37	46	56	67	80	94	108	122	136	150	164	178	192	206	220	234	248	262	276
	750	3	6.9	9.0	11	14	19	24	30	37	46	56	67	79	91	103	115	127	139	151	163	175	187	199	211	223
280	1500	3.4	12	14	17	24	34	46	59	72	86	100	114	128	142	156	170	184	198	212	226	240	254	268	282	296
	1000	2.6	7.7	9.6	12	16	20	28	33	41	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200
	750	2.7	5.8	7.8	10	12	17	21	25	31	37	43	49	57	65	73	81	89	97	105						

H/B系列



平行轴齿轮箱 Helical Gear Box
类型 H3... H4... Types H3... H4...

热容量 Thermal Capacities
规格 5...26 Size 5...26

热容量 Thermal Capacities PG in kW																												
齿轮箱规格 Gear box sizes																												
H/B	PG	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26					
		总容量PG (单位为kW) (取决于冷却方式: PG1: 无辅助冷却装置; PG2: 带冷却风扇; PG3: 带冷却盘管; PG4: 带风扇和冷却盘管) Thermal capacity PG(in kW) dependent on kind of cooling: PG1: without auxiliary cooling; PG2: fan cooling; PG3: cooling coil; PG4: fan and cooling coil.																										
40	PG1	48.1	56.6	74.6	95.9	101	110	149	180	204	236	284	304	309	322	390	416	517	537	754	794	902	949					
	PG2	58.3	68.6	92.8	107	127	137	190	228	251	291	371	390	382	409													
	PG3	79.3	92.4	152	151	191	246	312	359	435	467	609	686	641	660													
	PG4	88.6	103	149	170	214	272	349	402	446	517	717	770	711	760													
45	PG1	46.0	54.9	71.9	84.1	97.2	107	148	175	196	227	282	299	297	309	360	401	501	524	745	775	891	927					
	PG2	55.7	60.2	80	104	121	133	189	219	240	280	360	381	377	382													
	PG3	74.9	88.1	126	145	181	238	305	341	379	444	625	648	627	644													
	PG4	83.0	99.7	142	163	203	261	342	392	419	481	702	725	695	710													
50	PG1	44.4	51.7	57.6	79.8	94.9	101	145	166	191	219	281	291	292	306	379	395	500	508	736	762	850	815					
	PG2	59.6	62.2	83.7	98.0	118	125	184	210	235	269	362	379	388	395													
	PG3	72.5	82	110	136	177	221	298	325	359	419	619	634	613	626													
	PG4	80.0	91.7	133	152	187	242	324	350	406	465	691	710	681	701													
55	PG1	42.1	49.6	64.4	86.7	90.3	97.0	134	155	184	209	267	269	278	300	362	388	477	506	720	745	861	885					
	PG2	50.7	59.6	79.4	94.1	112	120	170	206	225	256	343	371	359	377													
	PG3	67.9	77.6	111	129	166	209	271	315	349	394	577	628	574	617													
	PG4	75.6	86.9	125	144	185	229	302	358	396	437	643	690	636	684													
63	PG1	39.6	47.7	60.0	82.4	85.3	94.7	127	149	174	204	252	275	282	285	338	371	456	482	697	724	834	867					
	PG2	47.6	57.1	73.9	88.5	105	116	160	202	212	249	323	353	329	357													
	PG3	62.0	74.0	102	121	153	204	251	300	325	364	533	582	550	576													
	PG4	70.2	83.0	114	136	172	224	280	335	369	425	596	653	620	640													
71	PG1	39.2	45.2	58.2	80.9	83.4	90.1	124	150	170	197	245	260	262	270	330	349	435	461	669	696	800	832					
	PG2	47.0	54.0	71.3	84.1	103	111	156	187	206	239	313	332	315	337													
	PG3	62.2	70.2	97.9	113	150	191	242	279	310	364	513	540	507	534													
	PG4	69.4	78.3	110	127	167	209	270	312	345	403	573	604	564	592													
80	PG1	37.2	42.6	56.9	84.3	78.9	85.1	117	141	164	186	236	252	242	250	315	341	411	435	655	681	783	814					
	PG2	44.5	50.6	66.6	76.2	96.6	104	146	176	199	226	300	321	302	320													
	PG3	57.8	65.2	94.2	104	139	177	223	259	299	308	484	519	479	511													
	PG4	64.6	72.8	106	117	158	184	250	290	330	375	542	580	532	567													
90	PG1	36.7	42.2	59.7	82.2	74.9	83.0	113	136	159	180	222	243	229	248	309	322	399	415	627	652	760	790					
	PG2	43.9	50.2	65.7	75.4	91.8	101	143	171	186	216	282	308	284	309													
	PG3	56.2	64.6	87.1	100	129	173	214	250	274	325	440	480	443	483													
	PG4	69.0	72.1	98.3	113	145	189	240	280	304	367	501	549	499	557													
100	PG1		40.0	48.1	60.3	67.1	78.8	99.5	130	143	175	179	229	201	234	282	306	388	403	508	632	611	756					
	PG2		47.5		73.8		95.9		161		212		289		290													
	PG3		60.0		96.7		161		231		311		453		447													
	PG4		67.2		109		176		259		344		507		497													
110	PG1		39.5	46.3	57.8	64.2	74.9	98.7	126	140	164	171	214	184	192	206	270	283	379	392	498	518	596	620				
	PG2		47.0		69.9		91.2		156		199		286															
	PG3		58.5		89.6		149		222		296		437															
	PG4		65.5		101		164		249		317																	
125	PG1			44.9	51.6	62.1	67.3	94.6	110	126	142	165	177	186	197	201	270	283	367	393	468	508	594	601				
140	PG1			42.6	49.5	60.1	64.8	91.5	109	122	138	159	170	178	190	201	267	287	347	371	475	494	569	591				
160	PG1			41.0	48.0	56.9	62.4	87.0	106	115	134	153	164	171	183	241	257	333	351	455	473	544	566					
180	PG1			39.4	45.6	54.4	60.4	83.9	101	111	130	150	167	167	175	230	247	328	345	439	457	525	548					
200	PG1			37.9	43.9	52.6	57.0	79.2	96.4	106	123	146	164	161	172	222	236	309	331	432	449	516	537					
224	PG1			35.7	42.0	50.5	54.6	75.9	92.8	103	120	140	150	150	160	210	227	295	312	426	445	512	532					
250	PG1			34.1	40.7	48.2	53.0	72.1	87.5	98.0	115	129	149	143	155	202	219	279	297	409	425	499	509					
280	PG1			33.1	38.2	46.8	50.8	69.4	84.3	94.9	109	125	132	149	147	174	207	268	281	388	404	467	468					
315	PG1			32.4	36.8	44.6	48.5	67.7	79.9	91.0	105	119	128	143	143	190	199	257	270	374	389	447	465					
350	PG1			30.9	35.5	43.8	47.1	64.4	86.9	98.6	109	117	123	130	137	181	195	245	260	363	378	435	452					
400	PG1				34.8		44.9		75.1		97.1		120		134		185		246		359							
450	PG1					39.1		44.1		71.4		92.6																

垂直轴齿轮箱 Bevel-Helical Gear Box
类型 B2..., B3..., Types B2..., B3

额定功率 Nominal Power Ratings
规格 1...26 Sizes 1...26

H/B

额定功率 Nominal Power Ratings																													
H/B	H1	H2	齿轮箱尺寸 Gear box 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	
			额定功率 PN kW Nominal power ratings PN in kW																										
5	1500	300	65	85	97	122	235		550		680	135		2075															
	1000	200	24	12	55	121	197		373		595	401		1255		1555													
	750	150	18	31	49	81	148		280		440	575		1037		1516													
5.5	1500	292	35	50	87	163	264		500		795	128		1850															
	1000	179	22	37	58	109	176		334		525	843		1355		2297													
	750	134	15	28	43	81	132		250		393	591		940		1712	1084	2725											
5.5	1500	235	29	50	77	145	234	299	444	556	698	837	1171	1371	1705	2041													
	1000	163	19	39	52	97	157	200	298	371	465	593	788	918	1182	1505	2164	2343											
	750	119	14	25	39	72	117	150	222	278	349	444	556	685	885	1022	1620	1797	2480										
7.1	1500	211	25	44	58	120	208	265	393	493	619	787	1033	1253	1513	1850													
	1000	141	17	30	45	85	133	177	269	330	415	505	723	842	1076	1344	1540	2141	2670										
	750	105	13	22	34	68	104	133	198	245	311	398	542	631	810	935	1405	1639	2164	2553									
8	1500	188	23	39	51	114	185	245	350	439	551	701	951	1151	1516	1732	2308												
	1000	125	15	25	41	78	123	157	233	292	366	465	611	732	908	1152	1720	1947	2302										
	750	94	11	20	31	57	90	115	175	219	278	350	457	551	756	986	1239	1467	1919	2264									
9	1500	167	20	35	54	101	154	210	311	399	490	623	853	1053	1354	1651	2200	2555											
	1000	111	13	23	35	67	109	139	207	258	325	414	527	703	807	1056	1334	1720	2355	2673									
	750	83	10	17	27	50	82	104	155	184	243	308	385	530	675	791	1142	1355	1605	1950									
10	1500	130	18	31	48	81	143	188	280	350	440	552	753	974	1225	1432	2073	2320											
	1000	100	12	21	32	61	98	135	185	234	293	371	459	646	817	985	1382	1550	2042	2309									
	750	75	9	16	24	45	74	94	140	175	220	280	357	467	613	745	1037	1162	1531	1815									
11.2	1500	134	15	28	42	81	132	168	250	313	393	503	709	870	1094	1368	1852	2077											
	1000	89	11	19	29	54	88	112	165	205	261	332	471	579	727	904	1230	1379	1917	2143									
	750	67	8	13	22	41	66	84	125	155	196	250	354	435	547	684	925	1088	1368	1514									
12.5	1500	120	14	25	38	69	118	151	214	265	335	447	635	779	980	1225	1654	1860	2480										
	1000	80	10	17	26	46	79	101	142	187	235	298	423	519	655	817	1105	1240	1654	1927	2094								
	750	60	7	13	19	35	59	75	107	140	176	224	311	380	490	613	829	930	1255	1445	1571								
14	1500	107	13	22	35	67	110	134	204	250	321	389	544	685	846	1052	1335	1584	2177										
	1000	71	8	15	23	45	73	89	135	165	219	265	364	451	595	725	1010	1103	1400	1719	1945	2193	2576						
	750	54	6	11	18	34	55	66	103	125	167	201	280	351	452	551	775	857	1103	1301	1461	1665	2035	2290					
16	1500	94	11	19	31	61	100	115	185	212	305	350	521	610	817	980	1207	1515	2002										
	1000	63	7	13	20	41	67	79	126	142	205	235	360	405	548	643	897	1015	1303	1517	1811	2052	2307	2584					
	750	47	5	9	15	31	50	59	94	106	153	175	275	315	405	480	690	798	1044	1132	1353	1515	1870	2077					
16	1500	83	9	15	26	50	92	110	172	201	282	326	501	565	738	869	1266	1391	1755	2038									
	1000	56	6	11	18	38	62	74	119	135	191	220	341	381	496	585	850	925	1173	1407	1662	1875	2345	2588					
	750	42	4	7	13	28	47	55	87	105	143	165	255	274	340	391	704	780	1055	1267	1407	1759	1925						
20	1500	75			28	52	95	104	181	195	287	309	471	584	691	800	1032	1151	1571	1825									
	1000	50			19	35	58	69	127	125	178	208	311	382	451	529	801	874	1037	1237	1571	1735	2159	2385	2532				
	750	38			14	26	44	53	92	95	135	156	232	271	350	410	609	685	796	955	1194	1321	1571	1910	2228				
22.5	1500	67			25	46	77	97	144	174	235	280	421	505	617	744	1072	1214	1400	1555	2105	2120							
	1000	45			17	31	52	65	97	117	165	193	287	353	415	497	721	815	948	1120	1314	1525	1979	2215	2500	2815			
	750	33			12	23	38	46	71	85	117	142	207	249	304	365	509	588	691	809	1037	1190	1451	1624	1935	2212	2764		
25	1500	60			29	41	69	91	139	169	214	270	377	471	555	685	991	1105	1270	1468	1805	2155							
	1000	40			15	28	46	61	95	107	142	181	281	314	368	457	641	725	836	1055	1257	1445	1780	1980	2345	2655			
	750	30			11	21	35	46	64	80	107	135	185	235	276	342	461	543	625	754	942	1094	1319	1475	1759	2010	2387	2827	
26	1500	54			20	37	62	82	118	144	182	243	339	424	496	618	885	978	1131	1357	1605	1950	2375						
	1000	36			14	25	41	55	77	96	128	162	235	282	332	411	577	650	754	905	1131	1301	1581	1775	2111	2418	2815		
	750	27			10	19	31	41	58	72	95	122	170	212	259	308	432	489	585	679	846	975	1167	1329	1583	1809	2262	2595	

必须强制润滑 Forced lubrication required

H/B系列



垂直轴齿轮箱 Bevel-Helical Gear Box
类型 B2... B3... Types B2..., B3

热容量 Thermal Capacities
规格 1...26 Size 1...26

热容量 PG, kW Thermal Capacities PG in kW																											
齿轮箱规格 Gear box sizes																											
IN		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
		热容量 PG (单位: kW) 取决于冷却方式: PG1, 无辅助冷却装置; PG2, 带冷却风扇; PG3, 带冷却盘管; PG4, 带冷却盘管和冷却盘。 Thermal capacity PG (in kW) depends on kind of cooling: PG1: without auxiliary cooling; PG2: fan cooling; PG3: cooling coil; PG4: fan and cooling coil.																									
3	PG1	34.9	45.6	59.7	66.9	86.8		192		159		234		286		330											
	PG2	39.1	50.8	70.1	101	140		223		173		268		329		377											
	PG3	41.1	53.8	80.9	115	209		313		281		354		418		476											
	PG4	45.0	57.5	118	156	250		403		340		452		532		615											
4.5	PG1	31.4	44.0	57.5	64.1	85.2		117		144		231		275		349			328								
	PG2	35.0	48.5	70.4	95.9	147		179		155		248		293		368			402								
	PG3	41.5	56.4	104	140	195		280		260		331		404		479			503								
	PG4	45.0	54.4	112	150	242		371		361		421		513		604			642								
6.3	PG1	32.0	39.7	52.2	62.4	81.8	96.5	110	134	137	155	218	277	283	337	351	374	353									
	PG2	34.7	43.7	60.5	93.5	130	162	194	235	240	272	406	518	597	728	752	815	836									
	PG3	39.1	51.2	91.8	124	182	269	281	327	451	555	657	1119	1264	1595	1748	1872										
	PG4	41.0	57.3	99.0	160	225	307	337	471	421	554	733	1166	1377	1712	1922	2105	2292									
7.1	PG1	30.7	39.4	51.5	62.6	72.7	94.7	104	127	150	145	217	275	284	341	346	372	354	369								
	PG2	35.4	43.5	62.7	67.5	122	143	162	221	225	256	397	501	589	712	715	775	808	857								
	PG3	37.0	50.9	90.9	114	188	252	240	350	300	414	635	912	1078	1325	1479	1613	1752	1862								
	PG4	39.9	57.0	97.6	140	206	298	310	435	387	510	692	1166	1339	1649	1781	1941	2109	2269								
8	PG1	28.5	36.6	48.0	58.4	73.3	90.8	95.8	120	138	141	211	284	289	322	337	365	355	383								
	PG2	31.2	40.2	58.2	62.1	114	140	171	205	191	240	362	484	534	648	659	736	750	832								
	PG3	34.8	46.0	83.5	105	154	233	222	317	275	375	473	811	959	1162	1310	1501	1590	1758								
	PG4	35.8	52.5	85.8	130	182	277	267	393	350	464	619	974	1190	1441	1595	1802	1903	2115								
9	PG1	25.0	34.2	45.9	52.7	69.5	85.4	94.8	113	138	134	193	267	280	322	321	347	351	381								
	PG2	28.5	37.6	55.2	77.5	116	132	152	182	196	225	348	444	515	588	633	675	723	773								
	PG3	29.4	43.2	78.4	96.9	142	214	208	292	252	346	446	775	897	1131	1256	1342	1512	1569								
	PG4	33.0	48.3	84.0	120	175	255	270	363	330	425	555	941	1115	1403	1513	1654	1815	1915								
10	PG1	22.2	29.6	39.4	44.5	64.6	80.8	85.8	107	112	127	185	232	249	291	297	327	342	374								
	PG2	25.0	31.2	46.4	64.5	98.9	121	150	180	189	212	323	405	485	538	581	650	684	745								
	PG3	25.0	36.0	64.2	77.4	127	197	189	269	240	219	409	587	650	899	1145	1271	1403	1515								
	PG4	28.2	39.8	69.1	85.9	152	235	246	335	310	285	537	635	1033	1244	1382	1528	1684	1818								
11.2	PG1	21.3	27.9	37.6	42.8	57.9	76.6	79.3	102	101	122	164	229	234	290	280	322	315	363								
	PG2	22.1	30.4	48.8	61.8	96.0	116	133	171	167	202	285	384	431	555	532	605	618	705								
	PG3	24.0	34.7	62.1	73.8	111	180	185	252	208	201	354	647	720	904	1010	1159	1243	1411								
	PG4	27.2	38.6	68.4	91.7	138	215	215	314	270	274	465	788	900	1167	1221	1400	1494	1688								
12.5	PG1	20.5	29.4	37.3	45.0	61.1	70.9	87.2	125	115	132	183	210	238	277	304	292	377	384								
	PG2	21.4	32.0	45.1	58.5	93.0	105	133	159	182	189	289	359	379	502	532	545	664	696								
	PG3	25.9	38.1	62.2	72.5	117	160	206	230	265	275	491	590	674	865	1054	1019	1258	1251								
	PG4	27.5	40.6	68.7	85.2	137	192	239	287	253	242	526	724	795	1070	1222	1235	1518	1500								
14	PG1	19.4	25.6	33.3	43.7	59.2	69.4	85.9	125	103	130	187	240	248	322	349	364	411									
	PG2	21.0	27.8	39.7	56.8	90.3	94.4	120	141	176	168	282	315	385	462	512	552	657	704								
	PG3	22.5	32.8	54.4	70.3	113	140	169	201	235	250	402	512	679	749	1005	1055	1218	1181								
	PG4	23.8	35.0	58.1	82.6	132	167	204	250	241	293	514	627	801	937	1165	1241	1453	1380								
16	PG1	18.5	24.0	31.9	41.5	57.3	66.4	80.5	105	132	131	177	203	221	259	318	304	365	379								
	PG2	19.8	25.9	37.1	54.0	77.3	88.6	122	140	172	190	266	311	349	404	503	525	652	672								
	PG3	21.8	30.4	50.9	66.6	100	121	169	211	267	324	401	505	617	699	984	1018	1194	1119								
	PG4	23.0	32.5	53.6	78.3	127	141	219	243	331	371	467	623	727	824	1142	1181	1433	1360								
18	PG1	17.1	21.8	28.3	40.5	55.4	64.3	86.4	101	118	126	168	200	222	281	306	302	351	389								
	PG2	18.2	23.7	33.5	52.4	74.9	85.6	110	136	166	175	282	311	352	407	482	521	625	655								
	PG3	19.5	27.5	45.1	64.7	105	118	182	205	277	286	393	627	821	703	945	1005	1142	1257								
	PG4	20.8	29.3	48.0	76.0	128	138	211	236	320	341	477	622	732	829	1091	1161	1371	1506								
20	PG1			33.0	38.0	53.1	61.9	82.8	95	118	129	180	209	239	296	317	340	395	411	411							
	PG2			37.1	49.4	71.5	82.5	113	129	159	168	250	289	329	371	404	437	502	559	745	745						
	PG3			58.4	81.2	101	112	174	195	255	305	374	467	581	638	807	953	1099	1146								
	PG4			61.3	71.5	115	131	201	223	307	350	454	579	684	751	1047	1194	1315	1375								
22.4	PG1			32.8	37.1	52.2	60.0	80.0	93.2	110	119	153	189	201	242	288	297	354	384	409	431	475	492	814	947	974	
	PG2			37.1	43.1	70.8	80.1	100	125	150	165	237	289	313	374	458	475	586	614	725	752	818	940	992	1023	1158	
	PG3			58.5	58.5	96.8	109	158	187	257	279	347	435	542	645	859	919	1051	1093								
	PG4			61.1	68.5	117	127	189	216	287	320	463	574	686	804	1054	1165	1281	1218								
25	PG1			30.7	35.2	49.4	57.5	77.5	89.9	105	114	145	181	190	235	272	300	352	390	409	427	461	487	789	814	936	963
	PG2			34.7	45.5	66.5	76.8	105	118	147	158	202	256	284	348	411	468	546									

垂直轴齿轮箱 Bevel-Helical Gear Box
类型 B3... B4... Types B3... B4

额定功率 Nominal Power Ratings
规格 3...26 Sizes 3...26

H/B

		额定功率 Nominal Power Ratings																											
H/B	Type	Input mm	输出轴规格 Output Shaft Sizes																										
			4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26				
			额定功率 - 千瓦 Nominal power ratings - kW																										
315	B3	1500	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68
		1000	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64
		750	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
355	B3	1500	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72
		1000	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68
		750	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
400	B3	1500	25	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78
		1000	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72
		750	12	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
450	B3	1500	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82
		1000	25	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78
		750	14	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
500	B3	1500	35	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88
		1000	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82
		750	16	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43
560	B3	1500	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92
		1000	35	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88
		750	18	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
630	B3	1500	45	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98
		1000	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92
		750	20	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47
710	B3	1500	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100	102
		1000	45	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98
		750	22	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
800	B3	1500	55	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108
		1000	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100	102
		750	24	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
900	B3	1500	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112
		1000	55	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108
		750	26	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53
1000	B3	1500	65	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118
		1000	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112
		750	28	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55
1120	B3	1500	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120	122
		1000	65	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118
		750	30	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57
1250	B3	1500	75	78	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120	122	124	126	128
		1000	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120	122
		750	32	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59
1400	B3	1500	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120	122	124	126	128	130	132
		1000	75	78	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120	122	124	126	128
		750	34	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61
1600	B3	1500	85	88	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120	122	124	126	128	130	132	134	136	138
		1000	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120	122	124	126	128	130	132
		750	36	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63
1800	B3	1500	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120	122	124	126	128	130	132	134	136	138	140	142
		1000	85	88	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120	122	124	126	128	130	132	134	136	138
		750	38	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65
2000	B3	1500	100	102	104	106	108	110	112	114	116	118	120	122	124	126	128	130	132	134	136	138	140	142	144	146	148	150	152
		1000	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120	122	124	126	128	130	132	134	136	138	140	142
		750	40	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67
2250	B3	1500	110	112	114	116	118	120	122	124	126	128	130	132	134	136	138	140	142	144	146	148	150	152	154	156	158	160	162
		1000	100	102	104	106	108	110	112	114	116	118	120	122	124	126	128	130	132	134	136	138	140	142	144	146	148	150	152
		750	42	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69

H/B系列



垂直轴齿轮箱 Bevel-Helical Gear Box
类型 B3... B4... Types B3... B4...

热容量 Thermal Capacities
规格 3...26 Sizes 3...26

热容量 PG, kW Thermal Capacities PG in kW																											
齿轮箱规格 Gear box sizes																											
尺寸 Size	规格 Type	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
		热容量 PG (单位为 kW) (取决于冷却方式: PG1: 无辅助冷却; PG2: 带冷却风扇; PG3: 带冷却水管; PG4: 带风扇和冷却水管) Thermal capacity PG (in kW) (dependent on kind of cooling: PG1: without auxiliary cooling; PG2: fan cooling; PG3: cooling coil; PG4: fan and cooling coil).																									
31.5	PG1	26.2	32.0	45.2	63.4	88.7	131.1	185.8	266.1	381.1	541.1	781.1	1121.1	1621.1	2321.1	3321.1	4821.1	6921.1	10021.1	14521.1	21021.1	30021.1	43021.1	62021.1	89021.1	128021.1	
	PG2	31.7	39.2	56.5	80.7	113.8	165.1	238.1	345.1	505.1	735.1	1065.1	1565.1	2265.1	3265.1	4765.1	6865.1	10165.1	14665.1	21165.1	30165.1	43165.1	62165.1	89165.1	128165.1	188165.1	
	PG3	46.0	49.8	82.7	88.7	138	165	206	240	275	394	428	513	875	752	845	907										
	PG4	50.2	56.2	96.5	113	160	188	240	276	337	467	508	608	764	873	1014	1111										
35.5	PG1	28.7	35.1	49.5	51.5	66.2	78.9	108.0	101	120	155	166	192	241	268	291	311	351	388	409	435	728	750	882	811		
	PG2	34.2	38.5	56.6	68.2	88.4	105	125	138	190	222	252	295	363	388	420	509	548	637	661	665	988	1021	1088	1111		
	PG3	44.8	45.6	75.7	91.4	128	153	190	224	261	367	407	478	642	684	808	837										
	PG4	47.0	53.6	88.7	107	148	176	221	257	310	434	482	555	745	784	905	1017										
40	PG1	33.8	36.8	57.0	48.0	57.0	75.8	64.9	86.4	118	147	155	188	238	250	275	301	343	378	568	419	703	731	841	881		
	PG2	38.2	33.5	48.8	64.5	76.7	99.4	116	132	178	219	237	287	341	373	458	486	568	607	616	667	844	871	1008	1088		
	PG3	56.9	36.4	61.0	85.6	106	149	172	210	239	340	375	445	583	646	748	805										
	PG4	40.8	45.2	71.9	88.6	123	164	200	241	291	413	448	528	680	755	880	988										
45	PG1	35.2	35.7	58.0	45.9	56.2	71.4	78.0	91.8	109	141	144	178	211	245	295	287	321	355	559	596	663	682	795	836		
	PG2	36.8	38.7	47.5	60.8	74.0	93.5	106	124	163	209	216	267	313	351	418	403	519	570	569	624	778	810	931	978		
	PG3	56.4	37.0	60.7	78.3	102	132	155	192	215	321	338	421	582	589	694	733										
	PG4	48.0	44.0	71.3	81.6	116	152	180	221	265	368	396	499	621	685	818	903										
50	PG1	38.7	35.8	56.8	40.0	56.4	68.5	76.6	85.8	102	133	146	169	218	238	295	286	317	331	585	567	611	645	730	767		
	PG2	45.8	32.9	46.8	52.2	72.6	81.4	103	118	160	195	218	250	316	322	424	427	448	529	586	574	671	724	832	874		
	PG3	57.0	37.3	59.4	66.3	88.6	110	146	171	210	295	332	399	585	594	686	684										
	PG4	38.0	43.8	69.5	76.5	114	127	173	201	250	350	387	468	620	628	828	821										
55	PG1	40.2	35.9	53.0	33.0	51.4	60.6	70.7	78.9	90.4	102	134	155	189	232	247	276	300	326	566	583	593	623	717	753		
	PG2	48.4	30.2	43.3	61.6	67.4	78.8	85.3	106	145	179	197	228	267	323	305	432	478	568	568	601	683	710	817	858		
	PG3	52.3	33.6	53.3	63.0	69.4	105	135	157	186	264	298	346	479	511	617	688										
	PG4	33.9	38.7	62.8	74.0	104	126	155	181	228	315	351	418	556	628	736	823										
63	PG1	46.7	35.0	51.7	38.7	49.8	59.8	68.2	77.4	95.5	121	129	157	189	234	237	254	280	314	559	571	587	590	687	712		
	PG2	51.8	29.1	41.6	50.2	65.1	77.4	91.9	103	139	175	189	229	273	314	371	365	400	488	540	583	636	691	780	791		
	PG3	51.5	31.8	50.3	61.4	84.6	102	125	150	175	256	280	345	448	482	583	680										
	PG4	32.8	37.6	59.5	72.2	89.0	119	147	173	215	304	334	409	521	561	693	781										
71	PG1	48.6	21.8	30.2	56.7	47.9	55.5	63.9	71.7	88.4	111	121	144	180	195	224	244	297	304	533	580	547	568	654	667		
	PG2	50.0	27.0	29.6	40.2	62	71.0	85.0	95.6	129	159	177	208	285	281	347	377	451	468	505	544	602	626	713	758		
	PG3	58.6	26.9	26.6	56.5	78.4	89.0	113	136	157	227	255	309	413	454	537	586										
	PG4	28.6	34.3	55.3	65.4	82.1	108	134	156	194	271	303	365	482	528	644	701										
80	PG1			32.5	34.2	48.2	53.8	68.2	88.2	103	106	138	138	165	166	208	211	285	287	509	530	560	598	670	660		
	PG2				44.5		69.4		92.3			153		200		266		353		538		602		716			
	PG3				62.8		88.0		127			212		290		417		588									
	PG4				81.6		103		146			255		346		487		647									
97	PG1			51.8	52.6	46.7	51.0	65.7	64.9	86.9	98.7	135	129	177	190	188	214	273	282	588	404	584	578	662	585		
	PG2				42.3		66.0		86.5			142		187													
	PG3				49.5		81.5		116			190		262													
	PG4				57.6		95.4		135			230		314													
100	PG1			50.3	54.8	44.2	51.5	63.2	63.7	90.6	115	128	149	167	182	197	206	258	280	565	581	543	571	657	690		
112	PG1			58.2	54.0	42.5	50.0	60.5	65.1	91.3	111	122	144	168	172	178	199	245	264	582	587	497	517	685	625		
125	PG1			57.9	52.5	40.8	47.1	58.0	63.7	87.5	108	117	136	151	169	170	184	234	252	531	595	407	517	605	625		
140	PG1			56.8	51.8	38.6	46.6	54.7	61.3	85.8	101	111	130	145	161	161	175	225	240	520	525	467	488	588	687		
160	PG1			54.5	59.0	35.2	43.5	50.0	56.4	75.2	96.6	105	125	135	149	155	169	213	231	512	523	453	471	542	580		
180	PG1			54.0	58.6	34.3	41.4	48.8	55.1	75.5	91.6	99.2	118	130	145	146	159	199	218	502	506	428	450	510	544		
200	PG1			53.2	58.3	34.0	37.8	47.8	50.7	71.9	83.7	96.8	112	129	140	144	151	198	204	273	365	401	417	480	504		
224	PG1			51.6	58.8	31.7	40.9	44.7	49.4	68.0	81.8	90.8	108	120	128	134	149	189	191	265	277	400	418	478	502		
250	PG1			51.1	54.6	30.6	38.5	43.1	46.4	65.4	79.7	87.9	102	116	120	130	138	181	184	247	269	371	386	444	488		
280	PG1			50.1	53.2	28.7	34.1	41.1	46.3	62.6	74.8	83.0	96.9	108	119	122	134	169	174	238	250	354	385	450	444		
315	PG1			48.8	52.6	26.9	32.8	39.6	44.7	61.4	73.4	79.2	92.7	102	108	115	126	160	164	220	237	333	346		418		
355	PG1				51.6		30.8		41.7		69.1		88.5		103		119			223		317			380		
400	PG1				53.2		28.9		39.3		64.5		84.3														

平行齿轮箱 Helical Gear Box

额定输出扭矩 Nominal Output Torques

类型 H1...H2...H3...H4...

Type H1...H2...H3...H4...

规格 1...26

Sizes 1...26

H/B

传动比 <i>i</i> : 额定输出扭矩 <i>T_{2N}</i> Transmission ratios <i>i</i> : Nominal output torques <i>T_{2N}</i>																											
IN	齿轮箱规格 Gear box 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 <i>T_{2N}</i> (K Nm) Nominal output torques <i>T_{2N}</i>																											
1.25	0.79	2.6		7		13.3		21.5																			
1.4	0.88	2.7		7.2		13.9		22.3																			
1.6	0.97	2.9		7.5		14.2		23.6		40		60															
1.8	0.91	2.4		7.7		15.2		24.4		41.4		65.2															
2	0.93	2.5		8.2		15.5		25		42.7		66.2		121													
2.24	0.95	2.6		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		33.7		44		72		113		171											
3.15	1	2.7		8.4		15.2		24.5		41.9		65.4		118		178											
3.55	1	2.8		8.3		15.5		24.9		43.7		69.6		118		173											
4	1	2.8		8.4		15.5		25		44		70.8		122		178		245									
4.5	0.82	2.2		6.7		13.6		21.4		40		57.5		102		146		216									
5	0.78	2.1		6.3		12		20.5		39.7		54.5		88.9		124		174									
5.6	0.82	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		66		140		195		292									
7.1		3.5	6.3	10.5		19		31.5		55.5		66		148	160	195	230	292	335	410							
8		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	102	143	160	195	230	292	335	410	458						
9		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	102	148	160	195	230	292	335	410	458	540					
10		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	102	148	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	102	148	160	195	230	292	335	410	458	540	620	760			
12.5		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	102	143	160	195	230	292	335	410	458	540	620	760	880		
14		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	102	143	160	195	230	292	335	410	458	540	620	760	880		
16		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	102	143	160	195	230	292	335	410	458	540	620	760	880		
18		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	102	143	160	195	230	292	335	410	458	540	620	760	880		
20		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	102	143	160	195	230	292	335	410	458	540	620	760	880		
22.4		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	102	143	160	195	230	292	335	410	458	540	620	760	880		
25			11	13.5	20.5	24	34	39.5	59	69	80	102	153	173	200	240	300	345	420	470	560	640	800	900			
28			11	13	20.5	23.5	34	39.5	59	67.8	88	109	163	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	163	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	163	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	163	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	163	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	163	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	163	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	163	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	163	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	163	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	163	173	200	240	290	345	410	470	560	640	800	900			
100				14.5	20.5	25.5	34	43	60	75	88	109	163	173	200	240	300	345	420	465	560	640	800	900			
112				14.1	20.5	25.2	34	42	60	75	88	109	162	173	200	240	300	345	420	470	560	640	800	900			
125					20.5	25.5	34	43	60	75	88	109	163	173	200	240	300	345	420	470	560	640	800	900			
140					20.5	25.5	34	43	60	75	88	109	163	173	200	240	300	345	420	470	560	640	800	900			
160					20.5	25.5	34	43	60	75	88	109	163	173	200	240	300	345	420	470	560	640	800	900			
180					20.5	25.5	34	43	60	75	88	109	163	173	200	240	300	345	420	470	560	640	800	900			
200					20.5	25.5	34	43	60	75	88	109	163	173	200	240	300	345	420	470	560	640	800	900			
224					20.5	25.5	34	43	60	75	88	109	163	173	200	240	300	345	420	470	560	640	800	900			
250					20.5	25.5	34	43	60	75	88	109	163	173	200	240	300	345	420	470	560	640	800	900			
280					20.5	25.5	34	43	60	75	88	109	163	173	200	240	300	345	420	470	560	640	800	900			
315					20.5	25.5	34	43	60	75	88	109	163	173	200	240	300	345	420	470	560	640	800	900			
355					19.6	25.5	33	43	59	75	88	108	140	173	193	240	290	345	410	470	560	640	800	900			
400						25.5		43		75		109		158		229		335		465		640		900			
450							24.8		41.6		74		109														

H/B系列



垂直轴齿轮箱 Bevel-Helical Gear Box

额定输出扭矩 Nominal Output Torques

类型 B2...B3...B4...

Type B2...B3...B4...

规格 1...26

Sizes 1...26

传动比 <i>i</i> N...额定输出扭矩 <i>T</i> _{2N} Transmission ratios <i>i</i> N/nominal output torques <i>T</i> _{2N}																										
iN	齿轮箱规格 Gear box 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 T _{2N} (KNm) Nominal output torques T _{2N}																									
5	1.15	2	3.1	5.8	9.4		17.8		28		45		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	57	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	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	1.15	3	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	65	78	97.5	132	148	195	230								
12.5	1.15	3	3.1	5.8	9.4	12	17.8	22.3	28	35.6	50.5	62	78	97.5	132	148	195	230	250		340					
14	1.15	2	3.1	5	9.8	12	18.2	22.3	29.5	35.6	53	62	80	97.5	137	148	195	230	262	295	360	405				
16	1.1	1.95	3.1	6.2	10.2	12	19.1	21.5	31	35.6	56	62	83	97.5	142	168	200	230	275	308	380	422				
18	1.03	1.6	3	6.4	10.6	12.6	19.6	23.1	33.5	37.6	58	65	85	100	142	160	200	240	288	320	400	438				
20			3.6	6.6	11	13.2	20.5	23.9	34	38.3	60	68	88	103	153	167	200	240	300	332	420	455	580		800	
22.4			3.6	6.6	11	13.8	20.5	24.8	34	41	60	72	98	106	163	173	200	240	300	345	420	470	580	640	800	900
25			3.6	6.6	11	14.5	20.5	25.5	34	48	60	75	98	109	153	173	200	240	300	345	420	470	560	640	800	900
28			3.6	6.6	11	14.5	20.5	25.5	34	48	60	75	98	109	153	173	200	240	300	345	420	470	560	640	800	900
31.5			3.6	6.6	11	14.5	20.5	25.5	34	48	60	75	98	109	153	173	200	240	300	345	420	470	560	640	800	900
35.5			3.6	6.6	11	14.5	20.5	25.5	34	48	60	75	98	109	153	173	200	240	300	345	420	470	560	640	800	900
40			3.6	6.6	11	14.5	20.5	25.5	34	48	60	75	98	109	153	173	200	240	300	345	420	470	560	640	800	900
45			3.6	6.6	11	14.5	20.5	25.5	34	48	60	75	98	109	153	173	200	240	300	345	420	470	580	640	800	900
50			3.6	6.6	11	14.5	20.5	25.5	34	48	60	75	98	109	153	173	200	240	300	345	420	470	560	640	800	900
56			3.6	6.6	11	14.5	20.5	25.5	34	48	60	75	98	109	153	173	200	240	300	345	420	470	560	640	800	900
63			3.6	6.6	11	14.5	20	25.5	34	43	60	75	98	109	153	173	200	240	300	345	420	470	560	640	800	900
71			3.6	6.6	11	14.5	20	25.5	34	43	60	75	98	109	153	173	200	240	300	345	420	470	580	640	800	900
80					11	14.5	20.5	25.5	34	43	60	75	98	109	153	173	200	240	300	345	420	470	580	640	800	900
90					11	14.5	20.5	25.5	34	43	60	75	98	109	153	173	200	240	300	345	420	470	560	640	800	900
100					11	14.5	20.5	25.5	34	43	60	75	98	109	153	173	200	240	300	345	420	470	560	640	800	900
112					11	14.5	20.5	25.5	34	43	60	75	98	109	153	173	200	240	300	345	420	470	560	640	800	900
125					11	14.5	20.5	25.5	34	43	60	75	98	109	153	173	200	240	300	345	420	470	560	640	800	900
140					11	14.5	20.5	25.5	34	43	60	75	98	109	153	173	200	240	300	345	420	470	580	640	800	900
160					11	14.5	20.5	25.5	34	43	60	75	98	109	153	173	200	240	300	345	420	470	580	640	800	900
180					11	14.5	20.5	25.5	34	43	60	75	98	109	153	173	200	240	300	345	420	470	560	640	800	900
200					11	14.5	20.5	25.5	34	43	60	75	98	109	153	173	200	240	300	345	420	470	560	640	800	900
224					11	14.5	20.5	25.5	34	43	60	75	98	109	153	173	200	240	300	345	420	470	560	640	800	900
250					11	14.5	20.5	25.5	34	43	60	75	98	109	153	173	200	240	300	345	420	470	560	640	800	900
280					11	14.5	20.5	25.5	34	43	60	75	98	109	153	173	200	240	300	345	420	470	560	640	800	900
315					11	14.5	20.5	25.5	34	43	60	75	98	109	153	173	200	240	300	345	420	470	580	640	800	900
355						14.5		25.5		43		75		109		173		240		345		470		640		900
400						14.5		25.5		43		75		109												

H/B

齿轮箱 Gear Box

输出轴d2上允许的附加径向力1)

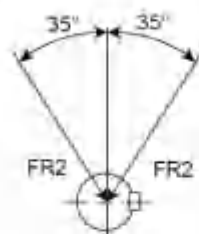
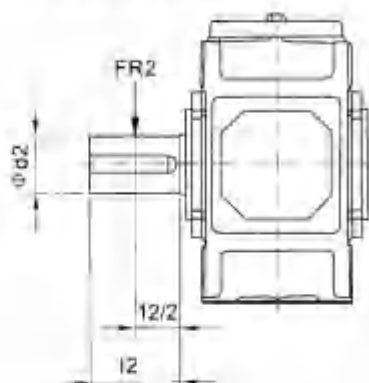
Permissible Additional Radial Forces on Output Shaft d2 1)

类型 H1S., H2S., H3S., H4S., B2S., B3S., B4S.

Types H1S., H2S., H3S., H4S., B2S., B3S., B4S.

作用力在轴端中部

Application of force on centre of shaft end



允许的作用力方向
Permissible direction of force

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) Gear box sizes 1) 4)																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
H1SH	A/B	2)	-	2)	-	2)	-	2)	-	2)	-	2)	-	2)	-	2)	-	2)	-
H2S.	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	18	18	10	28	35	35	112	112	85	135	135	135
H3S.	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
H4S.	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
B2S.	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
B3S.	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
B4S.	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力。请与我们联系。
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) 根据用户要求供货。On request.

3) 当作用力不在轴端中部时, 请参见第27页。For application of force outside the center of the shaft end, see page 27.

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。

Use foundation bolts of min. Property class 8.8. Foundation must be dry and grease-free. Permissible additional radial forces on input shaft d1 on request.

H/B系列



齿轮箱 Gear Box

输出轴 d2 上允许的附加径向力

Permissible Additional Radial Forces on Output Shaft d2

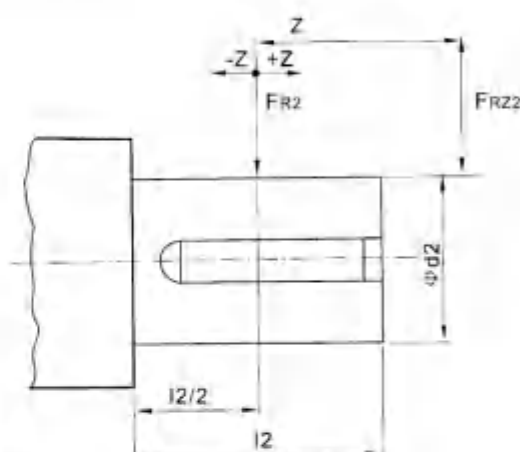
类型 H1S., H2S., H3S., H4S., B2S., B3S., B4S

Types H1S., H2S., H3S., H4S., B2S., B3S., B4S

H/B

作用力不在轴端中部

Application of force outside the centre of the shaft end



FR22 允许的轴端外部径向力

FR22 Permissible external radial force

FR2 允许的附加径向力根据78页上的表确定

FR2 Permissible additional radial force acc.to table page 78

K 作用力系数根据下表确定

K Factor of application of force acc.to table

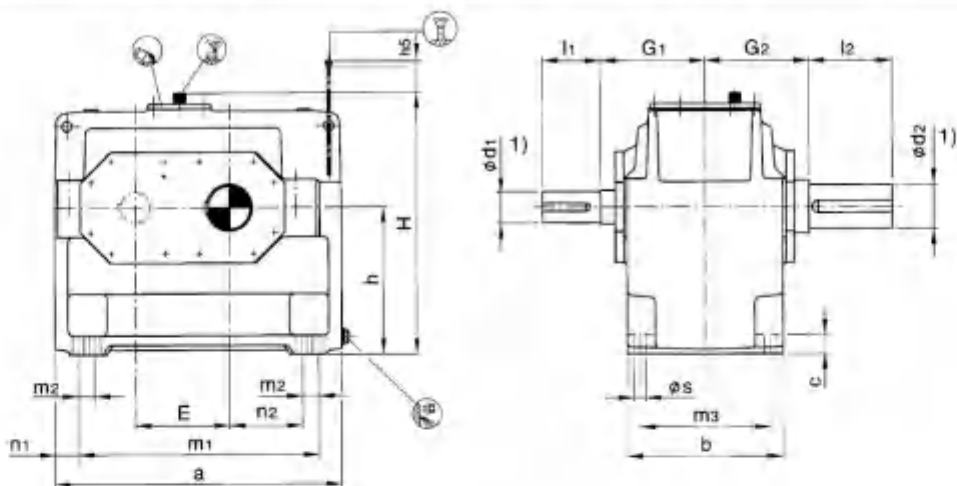
作用力系数 K Factor of application of farce K															
规格 Size	距离 Z （ mm ） Distance Z in mm														
	-200	-150	-100	-75	-50	-25	0	25	50	75	100	105	200	250	300
1						1.11	1.00	0.81	0.68	0.58	0.51				
2						1.11	1.00	0.83	0.71	0.63	0.56				
3					1.21	1.09	1.00	0.85	0.74	0.65	0.58	0.48			
4					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	0.48	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

平行轴齿轮箱 Helical Gear Box
类型 H1SH Type H1SH

单级传动 Single Stage 卧式安装 Horizontal
规格 1...19 Size 1...19

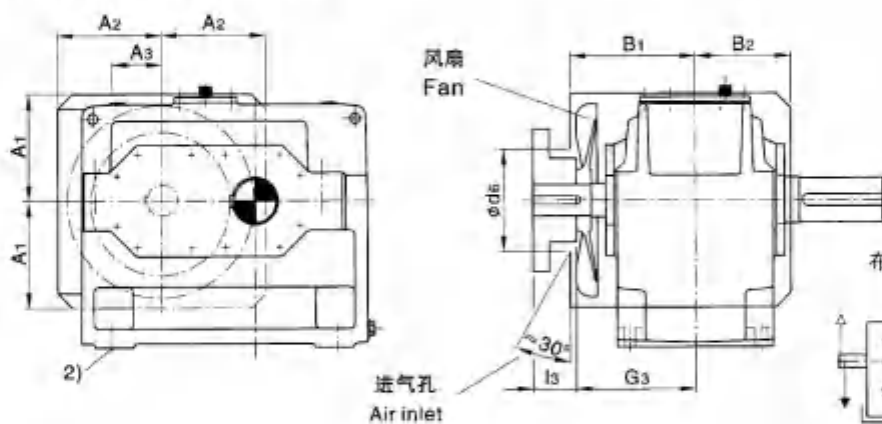
H/B

H1SH

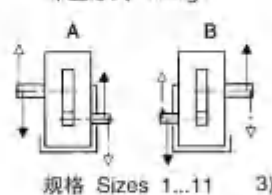


H1SH

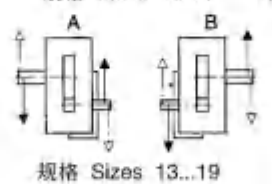
规格 3...11带冷却风扇 Sizes 3...11 with fan



布置形式 Design



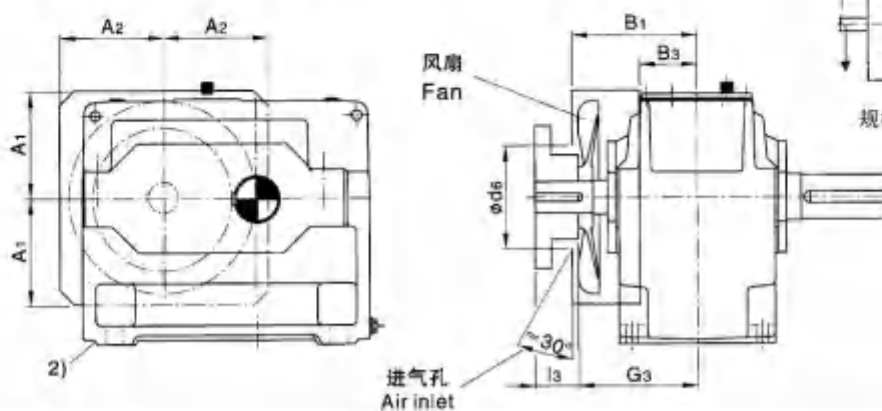
规格 Sizes 1...11 3)



规格 Sizes 13...19

H1SH

规格 13...19带冷却风扇 Sizes 13...19 with fan



1) $k_0 \leq \phi 50$ $m_0 > \phi 50$

有关平键GB/T1095-1979型和中心孔, 参见第88-89页。For parallel key GB/T1095-1979 and for centre hole, see page 88-89.

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.

H/B系列



平行轴齿轮箱 Helical Gear Box
类型 H1SH Types H1SH

单级传动 Single Stage 卧式安装 Horizontal
规格 1...19 Size 1...19

H/B

规格 Size	尺寸 mm Dimensions in mm																
	输入轴 Input																
	iN=1.25-2.8			iN=1.6-2.8			iN=2-2.8			iN=3.15-4			iN=4.5-5.6			G1	G3
	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3		
1	40	70	-							30	50		24	40	-	110	
3	60	125	105							45	100	80	32	80	60	170	190
5	85	160	130							60	135	105	50	110	80	210	240
7	100	200	165							75	140	105	60	140	105	250	285
9	110	200	165							90	165	130	75	140	105	280	315
11				130	240	205				110	205	170	90	170	135	325	360
13				150	245	200				130	245	200	100	210	165	365	410
15							180	290	240	150	250	200	125	250	200	360	410
17							200	330	280	170	290	240	140	250	200	400	450
19							220	340	290	190	340	290	160	300	250	440	490

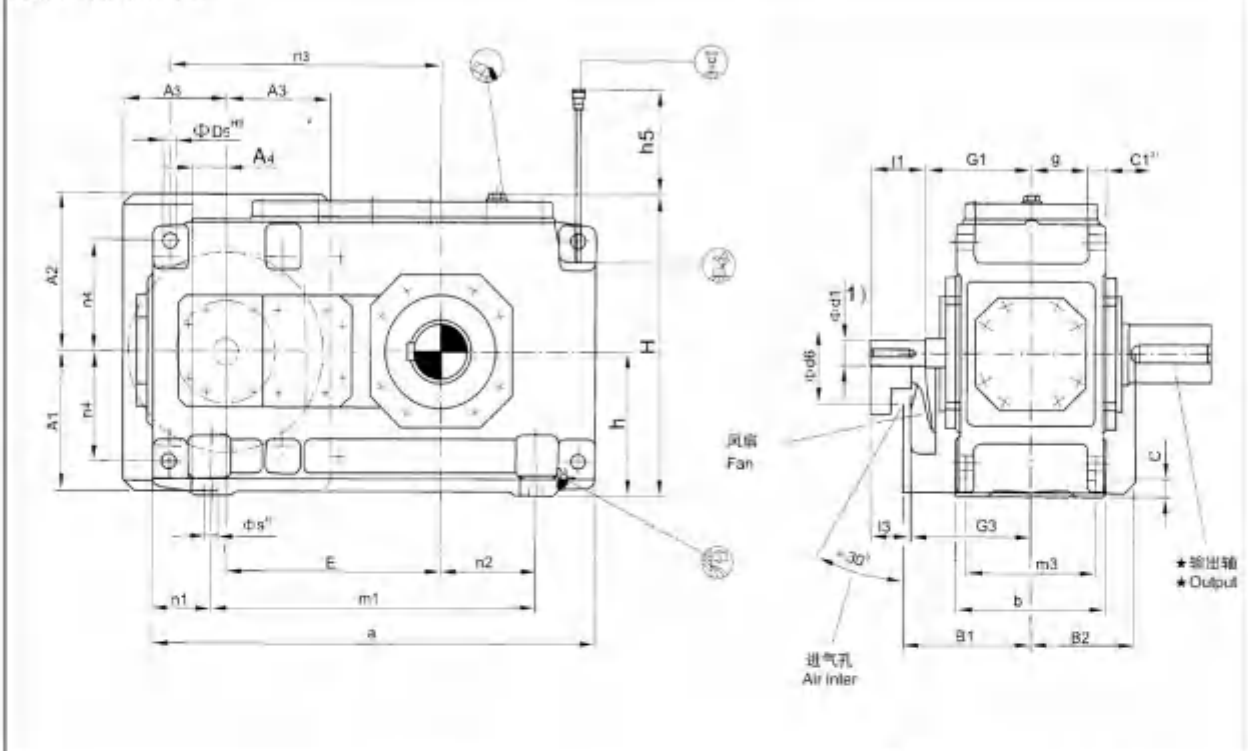
规格 Size	尺寸 mm Dimensions in mm																				
	齿轮箱 Gear box																				
	a	A1	A2	A3	b	B1	B2	B3	c	d5	E	h	h5	H	m1	m2	m3	n1			
1	295	-	-	-	150	-	-	-	18	-	90	140	55	275	220	-	120	37.5	80	12	
3	420	150	145	80	200	205	130	-	28	130	130	200	82	375	310	-	160	55	110	19	
5	580	225	215	115	285	255	185	-	35	190	185	290	100	525	440	-	240	70	160	24	
7	690	255	250	120	375	300	230	-	45	245	225	350	75	625	540	-	315	75	195	28	
9	805	300	265	140	425	330	265	-	50	280	265	420	50	735	625	-	350	90	225	35	
11	960	360	330	190	515	375	320	-	60	350	320	500	40	875	770	-	440	95	280	35	
13	1100	415	350		580	430		150	70	350	370	580	40	1020	870	-	490	115	315	42	
15	1295	500	430	-	545	430	-	120	80	450	442	600	10	1115	1025	-	450	135	370	48	
17	1410	550	430	-	615	470	-	150	80	445	490	670	-	1235	1170	130	530	120	425	42	
19	1590	630	475	-	690	510	-	190	90	445	555	760	-	1395	1290	150	590	150	465	48	

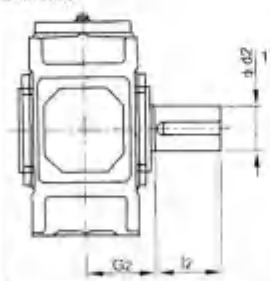
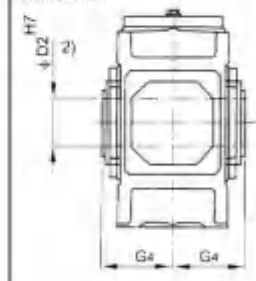
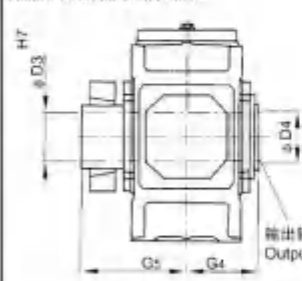
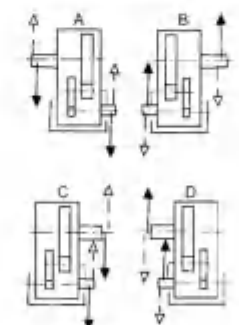
规格 Size	尺寸 mm Dimensions in mm			润滑油 Lubrication	重量 Weight (kg)
	输出轴 Output			(L)	
	d2 ¹⁾	G2	L ₂		
1	45	110	80	2.5	55
3	60	170	125	7	128
5	85	210	160	22	302
7	105	250	200	42	547
9	125	270	210	68	862
11	150	320	240	120	1515
13	180	360	310	175	2395
15	220	360	350	190	3200
17	240	400	400	270	4250
19	270	440	450	390	5800

平行轴齿轮箱 Helical Gear Box
类型 H2.H Type H2.H

两级传动 Two Stage 卧式安装 Horizontal
规格 3...12 Size 3...12

H2SH H2HH H2DH



★ 输出轴 Output			布置形式 Design
H2SH 实心轴 Solid shaft 	H2HH 空心轴 Hollow shaft 	H2DH 带胀紧盘的空心轴 Hollow shaft for shrink disk 	

1) $k_e \leq \Phi 50$ $m_e > \Phi 50$

有关平键GB/T1095-1979型和中心孔, 参见第88-89页。For parallel key GB/T1095-1979 and for centre hole, see page 88-89.

2) 键槽GB/T1095-1979。Keyway GB/T1095-1979.

3) 扭力支撑位于工作机侧。Torque support on driven machine side.

4) 在安装螺栓前, 应先拆下风罩罩。Remove air guide cover before fitting the foundation bolts.

H/B系列



平行轴齿轮箱 Helical Gear Box
类型 H2.H Types H2.H

两级传动 Two Stage 卧式安装 Horizontal
规格 3...12 Sizes 3...12

H/B

规格 Size	尺寸 mm Dimensions in mm													
	输入轴 Input													
	IN=6.3-11.2			IN=8-14			IN=12.5-22.4			IN=16-28			G1	G3
d1 ¹⁾	I1	I3	d1 ¹⁾	I1	I3	d1 ¹⁾	I1	I3	d1 ¹⁾	I1	I3			
3	35	60	—				28	50					135	—
4	45	100	80				32	80	60				170	190
5	50	100	80				38	80	80				195	215
6				50	100	80				38	80	60	195	215
7	60	135	105				50	110	80				210	240
8				60	135	105				50	110	80	210	240
9	75	140	110				60	140	110				240	270
10				75	140	110				60	140	110	240	270
11	90	165	130				70	140	105				275	310
12				90	165	130				70	140	105	275	310

规格 Size	尺寸 mm Dimensions in mm												
	齿轮箱 Gear box												
	a	A1	A2	A3	A4	b	B1	B2	c	C1	D5	d6	
3	450	—	—	—	—	190	—	—	22	24±1	15	—	
4	565	195	225	150	30	215	205	158	28	30±1	24	138	
5	640	225	260	175	55	255	230	177.5	28	30±1	24	150	
6	720	225	250	175	55	255	230	177.5	28	30±1	24	150	
7	765	272	305	210	70	300	255	210	35	36±1	26	200	
8	890	272	305	210	70	300	255	210	35	36±1	26	200	
9	925	312	355	240	100	370	285	245	40	45±1.5	36	200	
10	1025	312	355	240	100	370	285	245	40	45±1.5	36	200	
11	1105	372	420	285	135	430	325	285	50	54±1.5	40	210	
12	1260	372	420	285	135	430	325	285	50	54±1.5	40	210	

规格 Size	尺寸 mm Dimensions in mm												
	齿轮箱 Gear box												
	E	g	h	h5	H	m1	m3	n1	n2	n3	n4	s	
3	220	71	175	110	380	290	180	60	65	285	132.5	15	
4	270	77.5	200	110	415	355	180	105	85	345	150	19	
5	315	97.5	230	150	482	430	220	105	100	405	180	19	
6	360	97.5	230	150	482	510	220	105	145	440	180	19	
7	365	114	260	180	572	545	260	120	130	500	215	24	
8	430	114	260	180	582	650	260	120	190	545	215	24	
9	450	140	320	205	662	635	320	145	155	585	245	28	
10	500	140	320	215	662	705	320	145	205	635	245	28	
11	545	161	360	250	782	775	370	165	180	710	300	35	
12	615	161	360	250	790	930	370	165	265	780	300	35	

规格 Size	尺寸 mm Dimensions in mm									润滑油 Lubrication	重量 Weight (kg)
	输出轴 Output									(L)	
	H2SH			H2HH		H2DH					
	d2 ¹⁾	G2	I2	D2 ¹⁾	G4	D3	G4	G4	G5		
3	85	125	140	65	125	70	70	125	180	6	115
4	80	140	170	80	140	85	85	140	205	10	190
5	100	165	210	95	165	100	100	165	240	15	300
6	110	165	210	105	165	110	110	165	240	16	355
7	120	195	210	115	195	120	120	195	280	27	505
8	130	195	250	125	195	130	130	195	285	30	590
9	140	235	250	135	235	140	145	235	330	42	830
10	160	235	300	150	235	150	155	235	350	45	960
11	170	270	300	165	270	165	170	270	400	71	1335
12	180	270	300	180	270	180	185	270	405	76	1615

平行轴齿轮箱 Helical Gear Box

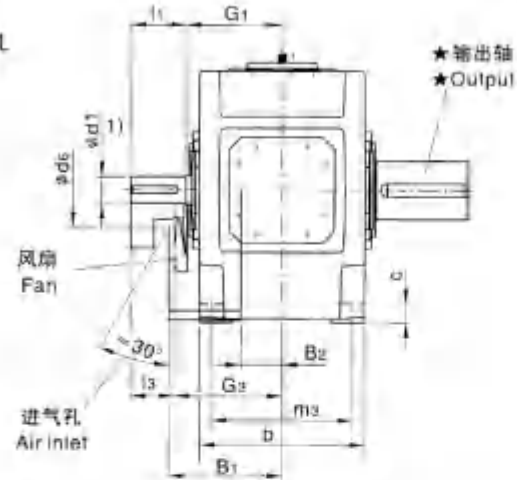
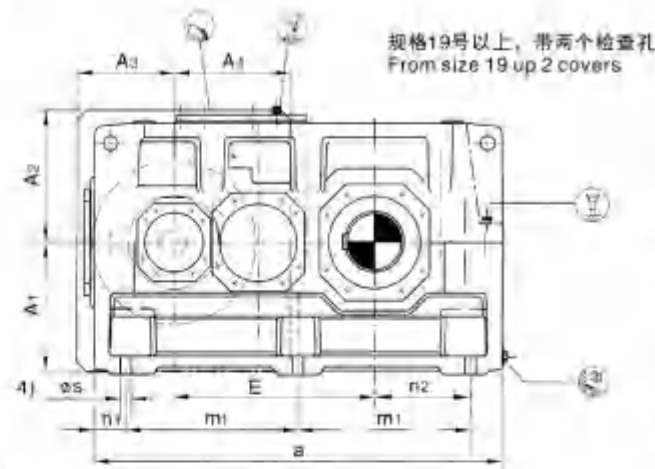
两级传动 Two Stage

卧式安装 Horizontal

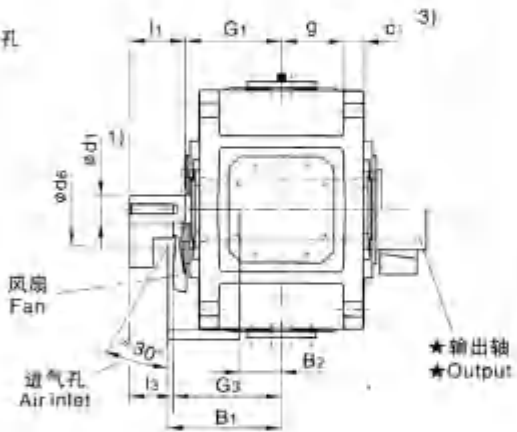
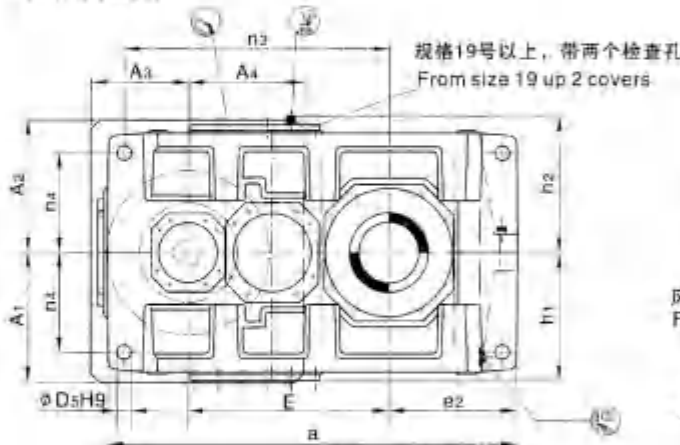
类型 H2.H, H2.M Types H2.H, H2.M

规格 13... 22 Size 13...22

H2SH H2HH H2DH



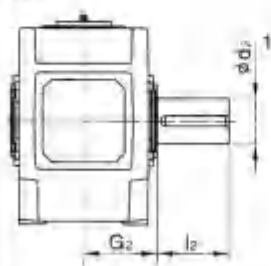
H2HM H2DM



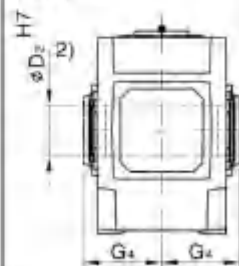
★ 输出轴 Output

布置形式 Design

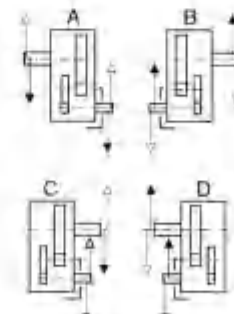
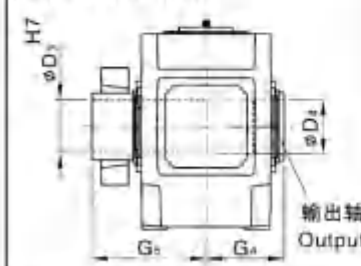
H2SH
实心轴
Solid shaft



H2HH²¹, H2HM²¹
空心轴
Hollow shaft



H2DH²¹, H2DM²¹
带腔室的空心轴
Hollow shaft for sink disk



1) $k_0 \leq \phi 50$, $m_0 > \phi 50$

有关半圆GB/T1095-1979型和中心孔, 参见第88-89页。For parallel key GB/T1095-1979 and for centre hole, see page 88-89.

2) 键槽GB/T1095-1979。Keyway GB/T1095-1979.

3) 扭力支撑位于工作机侧。Torque support on driven machine side.

4) 在安装螺栓前, 应拆下风罩。Remove air guide cover before fitting the foundation bolts.

5) 规格13和15: 速比只有iN=6.3-18; 规格17号和19号: 速比只有iN=6.3-16

Size 13 and 15: only iN=6.3-18; Size 17 and 19: only iN=6.3-16.

H/B系列



平行轴齿轮箱 Helical Gear Box 两级传动 Two Stage 卧式安装 Horizontal
 类型 H2.H, H2.M Types H2.H, H2.M 规格 13... 22 Sizes 13... 22

H/B

规格 Size	尺寸/mm Dimensions in mm																	
	输入轴 Input																	
	d1=6.3-11.2			d1=7.1-12.5			d1=8-14			d1=12.5-20			d1=14-22.4			d1=15-25		
	d1	l1	l2	d1	l1	l2	d1	l1	l2	d1	l1	l2	d1	l1	l2	d1	l1	l2
13	100	205	170							85	170	135					330	365
14							100	205	170							85	170	135
15	120	210	165							100	210	165					365	410
16				120	210	165							100	210	165		365	410
17	125	245	200							110	210	165					420	465
18				125	245	200							110	210	165		420	465
19	150	245	200							120	210	165					475	520
20				150	245	200							120	210	165		475	520
21	170	290	240							140	250	200					495	545
22				170	290	240							140	250	200		495	545

规格 Size	尺寸/mm Dimensions in mm													
	齿轮箱 Gear box													
	a	A1	A2	A3	A4	b	B1	B2	c	c1	d0	D5	e2	E
13	1290	430	480	330	365	560	385	135	60	61±2	250	48	405	635
14	1430	430	480	330	365	560	385	135	60	61±2	250	48	475	705
15	1550	490	500	370	440	625	430	155	70	72±2	280	55	485	760
16	1640	490	500	370	440	625	430	155	70	72±2	280	55	530	808
17	1740	540	565	435	505	690	485	140	80	81±2	280	55	525	860
18	1860	540	565	435	505	690	485	140	80	81±2	280	55	585	920
19	2010	600	600	500	450	790	540	180	90	91±2	310	65	590	997
20	2130	600	600	500	450	790	540	180	90	91±2	310	65	650	1057
21	2140	660	680	500	610	830	565	200	100	100±2	450	75	655	1067
22	2250	680	680	500	610	830	565	200	100	100±2	450	75	710	1122

规格 Size	尺寸 mm Dimensions in mm													
	齿轮箱 Gear box													
	g	h	h1	h2	H	m1	m2	m3	n1	n2	n3	n4	s	
13	211.5	440	450	460	900	545	545	475	100	305	835	340	35	
14	211.5	440	450	460	900	545	685	475	100	375	905	340	35	
16	238	500	490	500	1000	655	655	535	120	365	1005	375	42	
16	238	500	490	500	1000	655	745	535	120	410	1050	375	42	
17	259	550	555	560	1110	735	735	600	135	390	1145	425	42	
18	259	550	555	560	1110	735	855	600	135	450	1205	425	42	
19	299	620	615	620	1240	850	850	690	155	435	1345	475	48	
20	299	620	615	620	1240	850	970	690	155	495	1405	475	48	
21	310	700	685	690	1390	900	900	720	170	485	1400	520	56	
22	310	700	685	690	1390	900	1010	720	170	540	1455	520	56	

规格 Size	尺寸/mm Dimensions in mm									润滑油 Lubrication		重量 Weight	
	输出轴 Output									H2.H	H2.M	H2.H (kg)	H2.M (kg)
	H2EH			H2HM ⁽¹⁾ H2HM ⁽²⁾		H2DH ⁽¹⁾ H2DM ⁽¹⁾				G5			
	d2 ⁽¹⁾	G2	L2	D3 ⁽¹⁾	G4	D3	D4	G4					
13	200	385	350	190	325	190	195	235	480	155	110	2000	1980
14	210	385	350	210	315	210	215	235	480	140	113	2570	2430
15	230	380	410	220	380	230	235	380	550	210	180	3420	3240
16	240	380	410	240	380	240	245	380	550	215	185	3655	3455
17	250	415	410	250	415	250	260	415	600	290	230	4600	4420
18	270	415	470	275	415	280	285	415	600	300	240	5125	4870
19	290	465	470	—	—	285	285	465	670	320	300	5800	5100
20	300	465	500	—	—	310	315	465	670	340	320	7500	7200
21	320	480	500	—	—	330	335	490	715	320	350	8900	8400
22	340	490	550	—	—	340	345	490	725	340	370	9600	9200

平行轴齿轮箱 Helical Gear Box

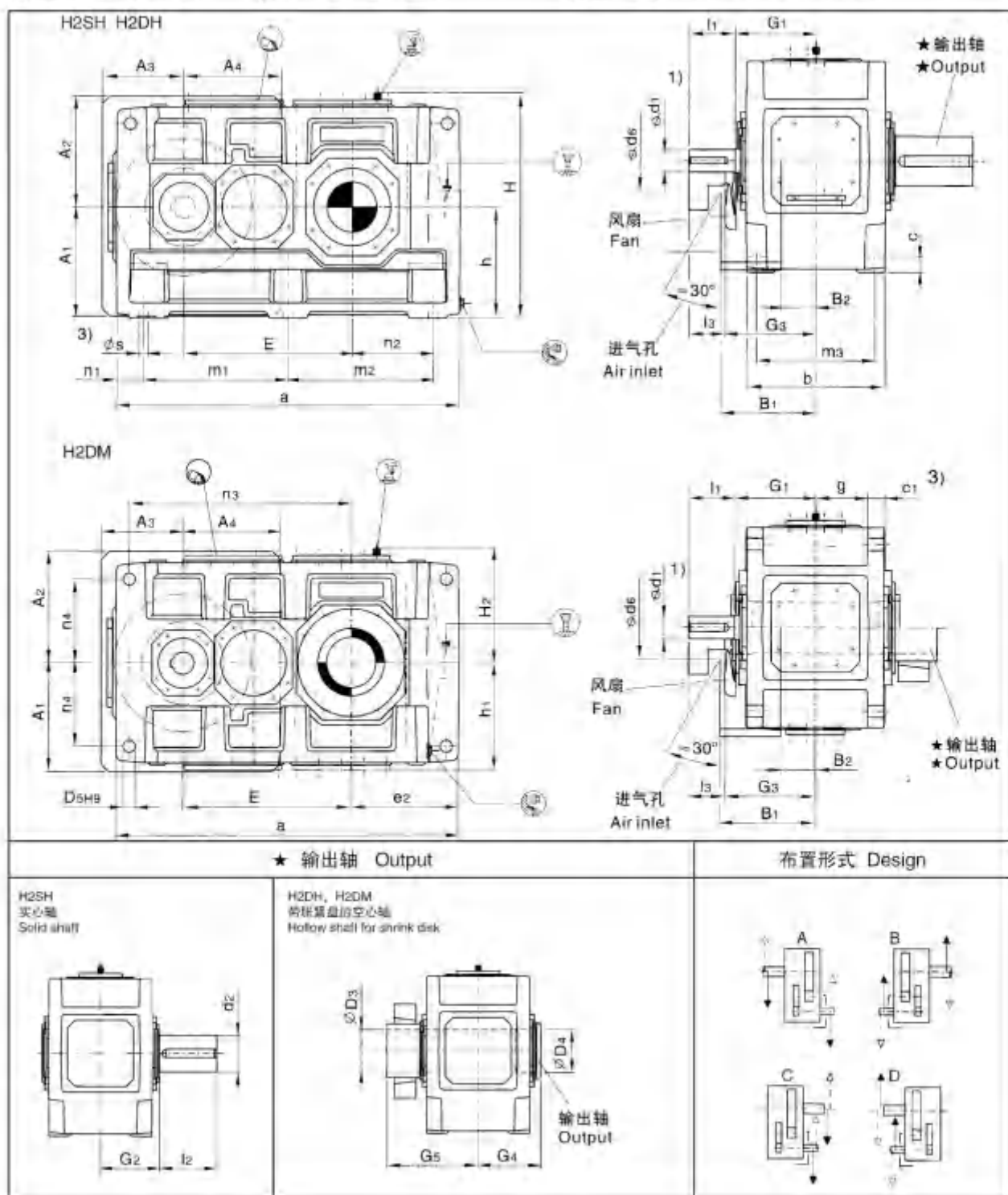
两级传动 Two Stage

卧式安装 Horizontal

类型 H2.H, H2.M Type H2.H, H2.M

规格 23...26 Size 23...26

H/B

1.) $k_p \leq \Phi 50$ $m_p > \Phi 50$

有关平键GB/T1095-1979型和中心孔, 参见第88-89页。For parallel key GB/T1095-1979 and for centre hole, see page 88-89.

2) 鍵槽GB/T1095-1979, Keyway GB/T1095-1979.

3) 扭力支撐位于工作機側。Torque support on driven machine side

H/B系列



平行轴齿轮箱 Helical Gear Box 两级传动 Two Stage 卧式安装 Horizontal
 类型 H2.H, H2.M Types H2.H, H2.M 规格 23...26 Sizes 23...26

H/B

规格 Size	尺寸 mm Dimensions in mm													
	输入轴 Input													
	iN=6.3-11.2			iN=7.1-11.5			iN=12.5-20			iN=14-22.4			G1	G3
	d1 ¹⁾	I1	I3	d1 ¹⁾	I1	I3	d1 ¹⁾	I1	I3	d1 ¹⁾	I1	I3		
23	190	330	280				150	250	200				560	610
24				190	330	280				150	250	200	560	610
25	200	340	290				170	300	250				600	650
26				200	340	290				170	300	250	600	650

规格 Size	尺寸 mm Dimensions in mm													
	齿轮箱 Gear box													
	a	A1	A2	A3	A4	b	B1	B2	c	c1	d6	D5	e2	E
23	2380	770	770	550	550	930	630	220	115	120±2	450	80	730	1185
24	2510	770	770	550	550	930	630	220	115	120±2	450	80	795	1250
25	2580	845	865	550	550	1045	670	240	130	120±2	450	90	790	1325
26	2760	845	865	550	550	1045	670	240	130	120±2	450	90	880	1415

规格 Size	尺寸 mm Dimensions in mm												
	齿轮箱 Gear box												
	g	h	h1	h2	H	m1	m2	m3	n1	n2	n3	n4	s
23	342	780	770	770	1550	1010	1010	810	180	550	1560	580	56
24	342	780	770	770	1550	1010	1140	810	180	615	1625	580	56
25	400	860	860	860	1720	1090	1090	910	200	590	1685	660	66
26	400	860	860	860	1720	1090	1270	910	200	680	1775	660	66

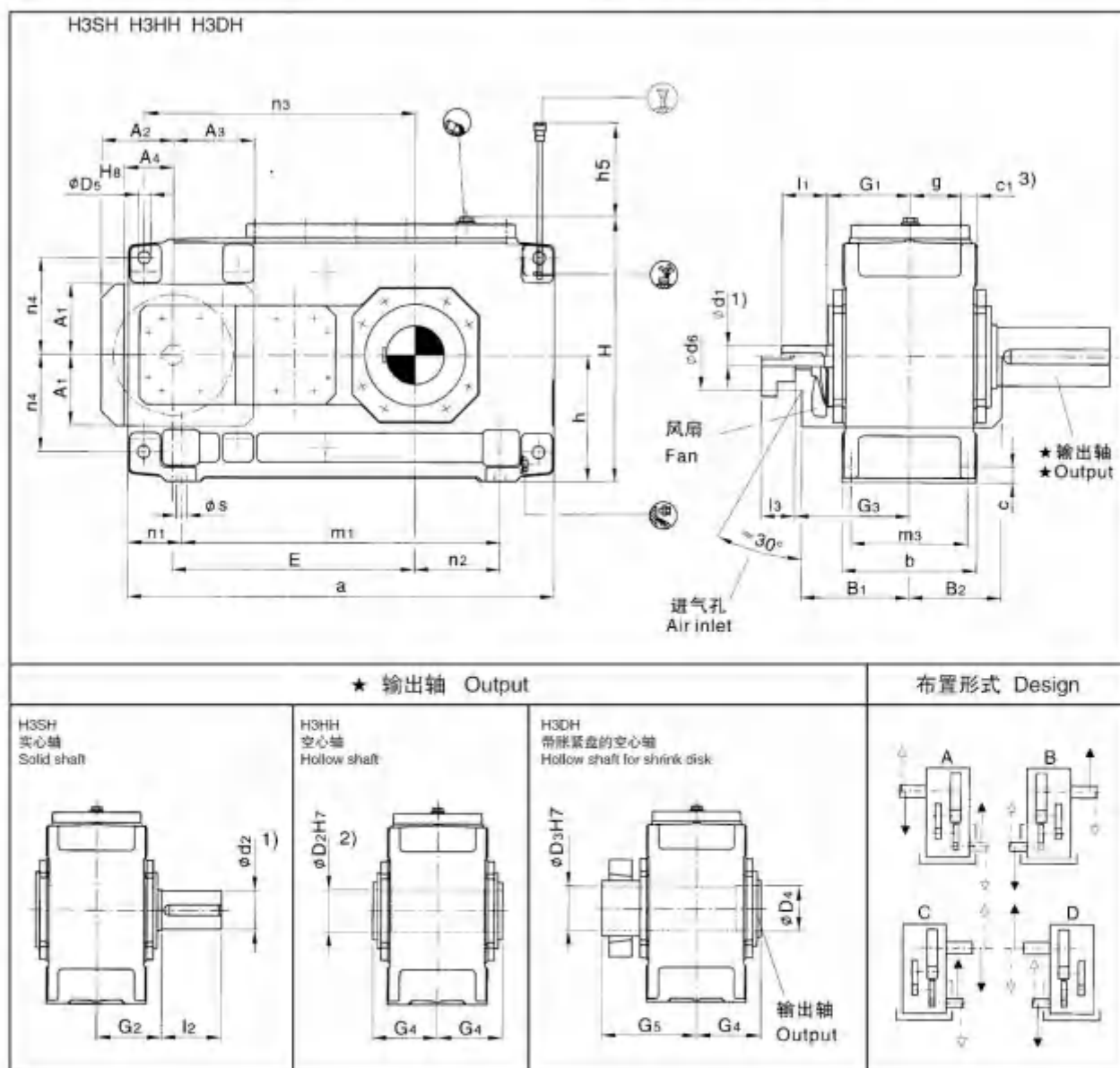
规格 Size	尺寸 mm Dimensions in mm							润滑油 Lubrication		重量 Weight	
	输出轴 Output										
	H2SH			H2DH H2DM				H2.H (L)	H2.M (L)	H2.H (kg)	H2.M (kg)
	d2 ¹⁾	G2	I2	D3	D4	G4	G5				
23	360	540	590	360	365	540	785	430	470	11600	11000
24	380	540	590	380	385	540	805	450	500	13000	12300
25	400	605	650	400	405	605	875	600	660	15500	14700
26	420	605	650	430	435	605	900	640	700	17200	16200

平行轴齿轮箱 Helical Gear Box
类型 H3.H Types H3.H

三级传动 Three Stage
规格 5...12 Size 5...12

卧式安装 Horizontal

H/B



1) $k_s \leq \phi 50$ $m_s > \phi 50$

有关平键 GB/T1095-1979 型和中心孔, 参见第 88-89 页。For parallel key GB/T1095-1979 and for centre hole, see page 88-89.

2) 键槽 GB/T1095-1979. Keyway GB/T1095-1979.

3) 扭力支撑位于工作机侧。Torque support on driven machine side.

H/B系列



平行轴齿轮箱 Helical Gear Box
类型 H3.H Types H3.H

三级传动 Three Stage
规格 5...12 Size 5...12

卧式安装 Horizontal

H/B

规格 Size	尺寸 mm Dimensions in mm																	
	输入轴 Input																	
	IN=24-45			IN=51.5-55			IN=50-63			IN=63-80			IN=71-90			IN=90-112		
	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3
5	40	70	70				30	50	50				24	40	40			
6				40	70	70				30	50	50				24	40	40
7	45	80	80				35	60	60				28	50	50			
8				45	80	80				35	60	60				28	50	50
9	60	125	105				45	100	80				32	80	60			
10				60	125	105				45	100	80				32	80	60
11	70	120	120				50	80	80				42	70	70			
12				70	120	120				50	80	80				42	70	70

规格 Size	尺寸 mm Dimensions in mm											
	齿轮箱 Gear box											
	a	A1	A2	A3	A4	b	B1	B2	c	d1	d6	D5
5	690	137	135	140	80	255	215	175	28	30 ± 1	60	24
6	770	137	135	140	80	255	215	175	28	30 ± 1	60	24
7	845	157	160	180	100	300	245	205	35	36 ± 1	75	28
8	950	157	160	180	100	300	245	205	35	36 ± 1	75	28
9	1000	182	190	205	120	370	295	240	40	45 ± 1.5	90	36
10	1100	182	190	205	120	370	295	240	40	45 ± 1.5	90	36
11	1200	218	220	255	150	430	325	280	50	54 ± 1.5	100	40
12	1355	218	220	255	150	430	325	280	50	54 ± 1.5	100	40

规格 Size	尺寸 mm Dimensions in mm											
	齿轮箱 Gear box											
	E	g	h	h5	H	m1	m3	n1	n2	n3	n4	s
5	405	97.5	230	130	482	480	220	105	100	455	180	19
6	440	97.5	230	130	482	560	220	105	145	480	180	19
7	495	114	280	170	572	605	260	120	130	580	215	24
8	540	114	280	160	582	710	260	120	190	605	215	24
9	560	140	320	185	662	710	320	145	155	660	245	28
10	630	140	320	185	662	810	320	145	205	710	245	28
11	705	161	380	180	782	870	370	165	180	805	300	35
12	775	161	380	170	790	1025	370	165	265	875	300	35

规格 Size	尺寸 mm Dimensions in mm									润滑油 Lubrication (L)	重量 Weight (kg)
	输出轴 Output										
	H3SH			H3HH		H3DH					
	d2 ¹⁾	G2	l2	D2 ²⁾	G4	D3	D4	G4	G5		
5	100	165	210	95	165	100	100	165	240	15	320
6	110	165	210	105	165	110	110	165	240	17	365
7	120	195	210	115	195	120	120	195	280	26	540
8	130	195	250	125	195	130	130	195	285	30	625
9	140	235	250	135	235	140	145	235	330	45	875
10	160	235	300	150	235	150	155	235	350	46	1020
11	170	270	300	165	270	165	170	270	400	85	1400
12	180	270	300	180	270	180	185	270	405	90	1675

平行轴齿轮箱 Helical Gear Box

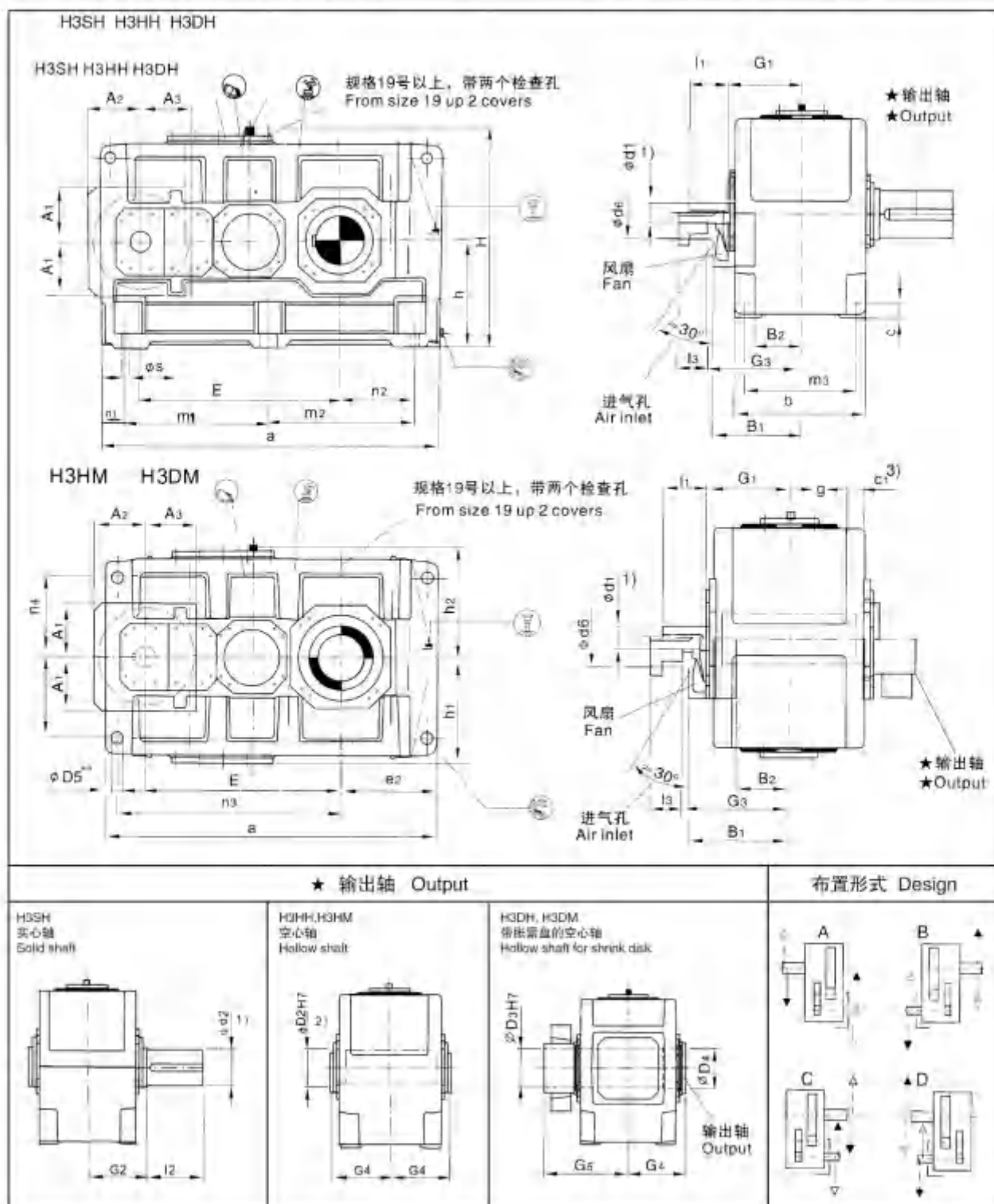
三级传动 Three Stage

卧式安装 Horizontal

类型 H3.H, H3.M Types H3.H, H3.M

规格 13...22 Sizes 13...22

H/B



1) $k_0 \leq \phi 50$ $m_0 > \phi 50$

有关平键GB/T1095-1979型和中心孔, 参见第258-259页。For parallel key GB/T1095-1979 and for centre hole, see page 88-89.

2) 键槽GB/T1095-1979. Keyway GB/T1095-1979.

3) 扭力支撑位于工作机侧。Torque support on driven machine side.

H/B系列



平行轴齿轮箱 Helical Gear Box 三级传动 Three Stage 卧式安装 Horizontal
 类型 H3.H, H3.M Types H3.H, H3.M 规格 13... 22 Size 13... 22

规格 Size	尺寸/mm Dimensions in mm																		G1	G2
	输入轴 Input																			
	Z=22-4-15			Z=25-30 N=28-56 *			Z=30-63			Z=56-71 N=63-80 *			Z=71-90			Z=90-100 N=90-112 *				
	d1 ¹⁾	l1	l2	d1 ¹⁾	l1	l2	d1 ¹⁾	l1	l2	d1 ¹⁾	l1	l2	d1 ¹⁾	l1	l2	d1 ¹⁾	l1	l2		
13	85	160	130				60	135	105				50	110	80				310	285
14				85	160	130				60	135	105				50	110	80	310	285
15	100	250	165				75	140	105				60	140	105				350	320
16				100	250	165				75	140	105				60	140	105	350	320
17	100	290	185				75	140	105				60	140	105				380	350
18				100	290	185				75	140	105				60	140	105	380	350
19	110	300	41				90	155	41				75	140	41				430	41
20				110	300	41				90	155	41				75	140	41	430	41
21	130	240	41				110	205	41				90	170	41				470	41
22				130	240	41				110	205	41				90	170	41	470	41

* 仅指规格14号齿轮箱 Only size 14

规格 Size	尺寸/mm Dimensions in mm											
	齿轮箱 Gear box											
	a	A1	A2	A3	b	B1	B2	c	d1	d5	D5	E
13	1395	225	225	212	550	380	195	60	61±2	120	48	620
14	1535	225	225	212	550	380	195	60	61±2	120	48	690
15	1680	270	265	252	625	415	205	70	72±2	150	55	687
16	1770	270	265	252	625	415	205	70	72±2	150	55	1033
17	1770	270	265	252	690	445	235	80	81±2	150	55	1035
18	1690	270	265	252	690	445	235	80	81±2	150	55	1095
19	2030	41	41	41	790	41	41	90	91±2	41	65	1190
20	2150				790			90	91±2		65	1250
21	2340				830			100	100±2		75	1387
22	2450				830			100	100±2		75	1442

规格 Size	尺寸 mm Dimensions in mm													
	齿轮箱 Gear box													
	g	h	h1	h2	H	m1	m2	m3	n1	n2	n3	n4	s	
13	211.5	440	450	460	900	597.5	597.5	475	100	305	940	340	35	
14	211.5	440	450	460	900	597.5	737.5	475	100	375	1010	340	35	
15	236	500	490	500	1000	720	720	535	120	365	1135	375	42	
16	236	500	490	500	1000	720	810	535	120	410	1180	375	42	
17	259	550	535	560	1110	750	750	600	135	390	1175	425	42	
18	259	550	535	560	1110	750	870	600	135	450	1235	425	42	
19	299	620	615	620	1240	860	860	690	155	435	1365	475	46	
20	299	620	615	620	1240	860	980	690	155	495	1425	475	46	
21	310	700	685	690	1390	1000	1000	720	170	485	1615	520	56	
22	310	700	685	690	1390	1000	1110	720	170	540	1670	520	56	

规格 Size	尺寸/mm Dimensions in mm										润滑油 Lubrication		重量 Weight	
	输出轴 Output													
	H3SH			H3HH H3HM			H3DH H3DM				H3H	H3M	H3H	H3M
	d2 ¹⁾	G2 ¹⁾	l2	d2 ¹⁾	G4	D3	D4	G4	G5		(L)	(L)	(kg)	(kg)
13	200	335	350	190	335	190	195	335	480		160	125	2295	2155
14	210	335	350	210	335	210	215	335	480		165	130	2625	2490
15	230	380	410	230	380	230	235	380	550		235	190	3475	3260
16	240	380	410	240	380	240	245	380	550		245	195	3875	3625
17	250	415	410	250	415	250	260	415	600		305	240	4560	4250
18	270	415	470	275	415	280	285	415	600		315	250	5050	4740
19	290	465	470	-	-	285	295	465	670		420	390	5700	5200
20	300	465	500	-	-	310	315	465	670		450	415	6100	5600
21	320	490	500	-	-	330	335	490	715		470	515	9100	8500
22	340	490	550	-	-	340	345	490	725		490	540	9800	9000

平行轴齿轮箱 Helical Gear Box

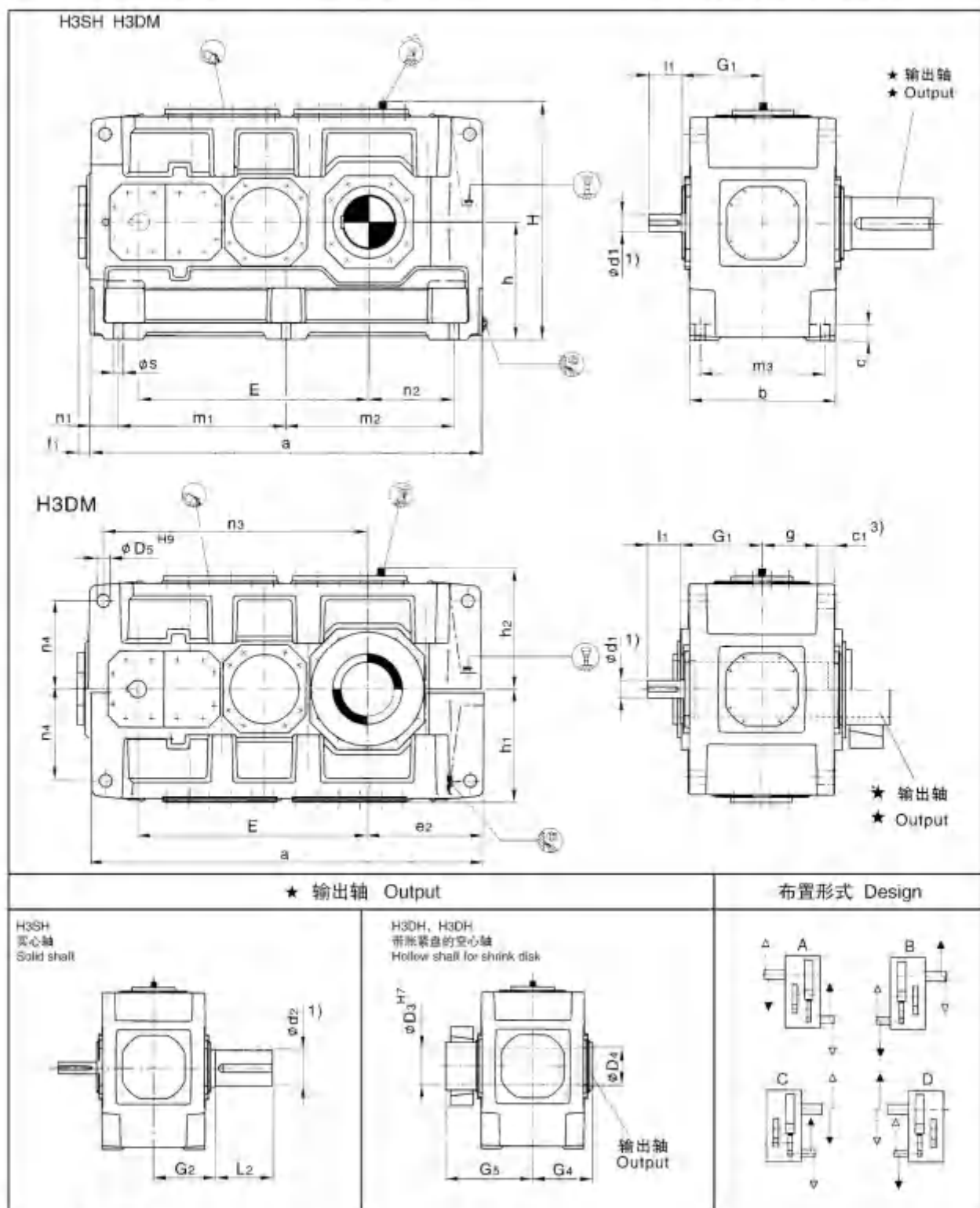
三级传动 Three Stage

卧式安装 Horizontal

类型 H3.H, H3.M Types H3.H, H3.M

规格 23...26 Sizes 23...26

H/B



1) $k_0 \leq \phi 50$ $m_0 > \phi 50$

有关平键GB/T1095-1979型和中心孔, 参见第88-89页。For parallel key GB/T1095-1979 and for centre hole, see page 88-89.

2) 键槽GB/T1095-1979。Keyway GB/T1095-1979.

3) 扭力支撑位于工作机侧。Torque support on driven machine side.

H/B系列



平行轴齿轮箱 Helical Gear Box 三级传动 There Stage 卧式安装 Horizontal
 类型 TH3.H, TH3.M Types TH3.H, TH3.M 规格 23...26 Size 23...26

H/B

规格 Size	尺寸 mm Dimensions in mm												
	输入轴 Input												G1
	iN=22.4-45		iN=25-50		iN=50-63		iN=56-71		iN=71-90		iN=80-100		
	d1 ¹⁾	l1	d1 ¹⁾	l1	d1 ¹⁾	l1	d1 ¹⁾	l1	d1 ¹⁾	l1	d1 ¹⁾	l1	
23	130	240			110	205			90	170			510
24			130	240			110	205			90	170	510
25	150	245			130	245			100	210			570
26			150	245			130	245			100	210	570

规格 Size	尺寸 mm Dimensions in mm											
	齿轮箱 Gear box											
	a	b	c	c1	D5	e2	E	f1	g	h	h1	
23	2530	930	115	120 ± 2	80	730	1505	35	342	780	770	
24	2660	930	115	120 ± 2	80	795	1570	35	342	780	770	
25	2830	1045	130	120 ± 2	90	790	1695	65	400	860	860	
26	3010	1045	130	120 ± 2	90	880	1785	65	400	860	860	

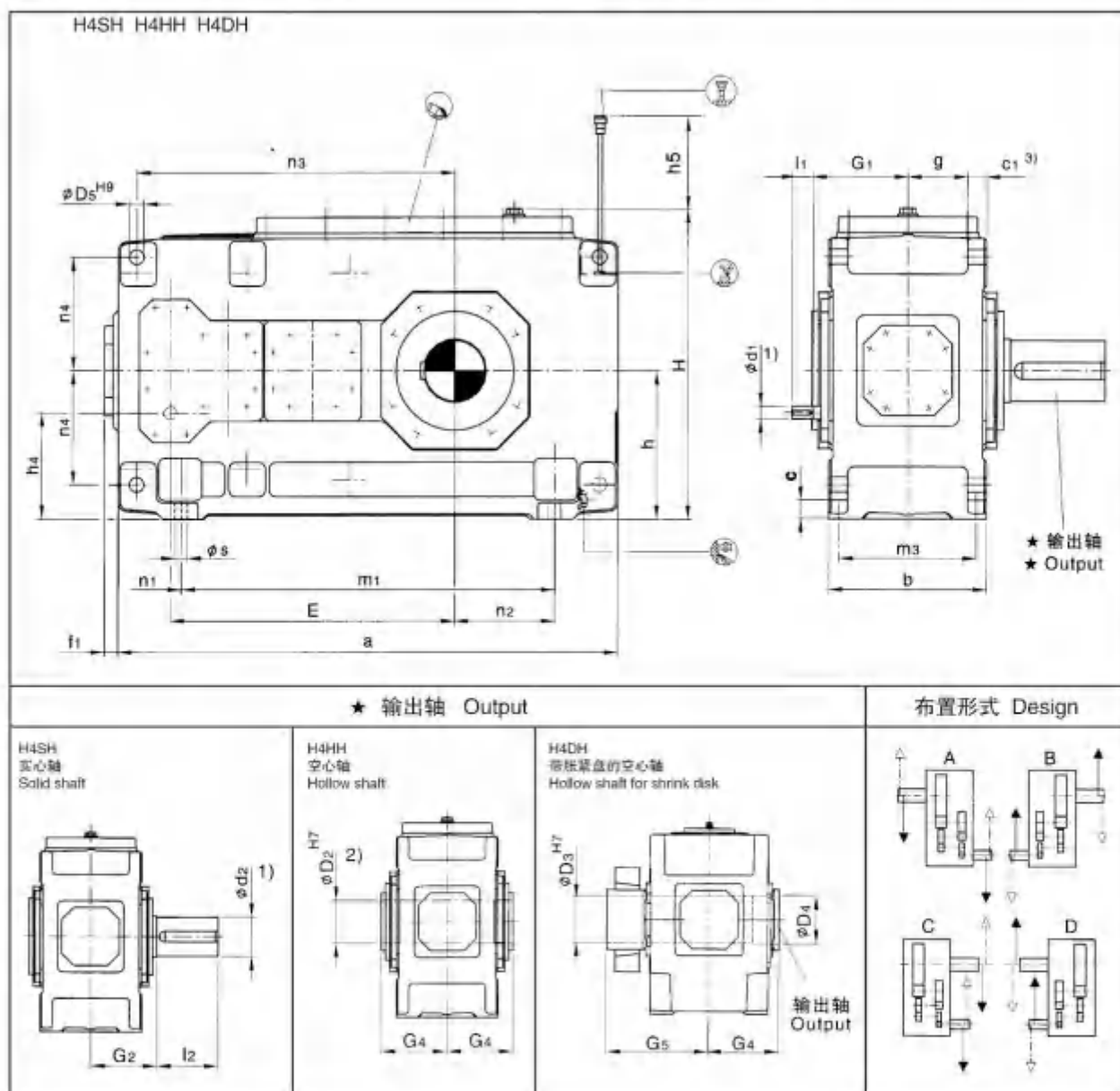
规格 Size	尺寸 mm Dimensions in mm										
	齿轮箱 Gear box										
	h2	H	m1	m2	m3	n1	n2	n3	n4	s	
23	790	1570	1085	1085	810	180	550	1725	580	56	
24	790	1570	1085	1215	810	180	615	1790	580	56	
25	860	1720	1215	1215	910	200	590	1965	660	66	
26	860	1720	1215	1395	910	200	680	2055	660	66	

规格 Size	尺寸 mm Dimensions in mm							润滑油 Lubrication		重量 Weight	
	输出轴 Output										
	H2SH			H3SH H3SM				H3.H	H3.M	H3.H	H3.M
	D2 ¹⁾	G2	L2	D3	D4	G4	G5	(L)	(L)	(kg)	(kg)
23	360	540	590	360	365	540	785	620	690	11500	10600
24	380	540	590	380	385	540	805	650	725	13400	12500
25	400	605	650	400	405	605	875	880	970	16100	15200
26	420	605	650	430	435	605	900	935	1030	17600	16500

平行轴齿轮箱 Helical Gear Box
类型 H4.H Types H4.H

四级传动 Four Stage 卧式安装 Horizontal
规格 7...12 Size 7...12

H/B



1) $k_e \leq \phi 50$ $m_e > \phi 50$

有关平键GB/T1095-1979型和中心孔, 参见第88-89页。For parallel key GB/T1095-1979 and for centre hole, see page 88-89.

2) 键槽GB/T1095-1979。Keyway GB/T1095-1979.

3) 扭力支撑位于工作机侧。Torque support on driven machine side.

H/B系列



平行轴齿轮箱 Helical Gear Box
类型 H4.H Type H4.H

四级传动 Four Stage 卧式安装 Horizontal
规格 7...12 Sizes 7...12

H/B

规格 Size	尺寸 mm Dimensions in mm								
	输入轴 Input								
	iN=100-180		iN=125-224		iN=200-355		iN=250-450		G1
	d1 ¹⁾	l1	d1 ¹⁾	l1	d1 ¹⁾	l1	d1 ¹⁾	l1	
7	30	50			24	40			180
8			30	50			24	40	180
9	35	60			28	50			215
10			35	60			28	50	215
11	45	100			32	80			250
12			45	100			32	80	250

规格 Size	尺寸 mm Dimensions in mm																			
	齿轮箱 Gear box																			
	a	b	c	c1	D5	E	f1	g	h	h4	h5	H	m1	m3	n1	n2	n3	n4	s	
7	845	300	35	36±1	28	495	37	114	280	200	140	572	605	260	120	130	560	215	24	
8	950	300	35	36±1	28	540	37	114	280	200	140	582	710	260	120	190	605	215	24	
9	1000	370	40	45±1.5	36	580	43	140	320	230	150	662	710	320	145	155	660	245	28	
10	1100	370	40	45±1.5	36	630	43	140	320	230	150	662	810	320	145	205	710	245	28	
11	1200	430	50	54±1.5	40	705	47	161	380	270	165	782	870	370	165	180	805	300	35	
12	1355	430	50	54±1.5	40	775	47	161	380	270	165	790	1025	370	165	265	875	300	35	

规格 Size	尺寸 mm Dimensions in mm									润滑油 Lubrication (L)	重量 Weight (kg)
	输出轴 Output										
	H4SH			H4HH		H4DH					
	d2 ¹⁾	G2	l2	D2 ¹⁾	G4	D3	D4	G4	G5		
7	120	195	210	115	195	120	120	195	280	25	550
8	130	195	250	125	195	130	130	195	285	27	645
9	140	235	250	135	235	140	145	235	330	48	875
10	160	235	300	150	235	150	155	235	350	50	1010
11	170	270	300	165	270	165	170	270	400	80	1460
12	180	270	300	180	270	180	185	270	405	87	1725

平行轴齿轮箱 Helical Gear Box

四级传动 Four Stage

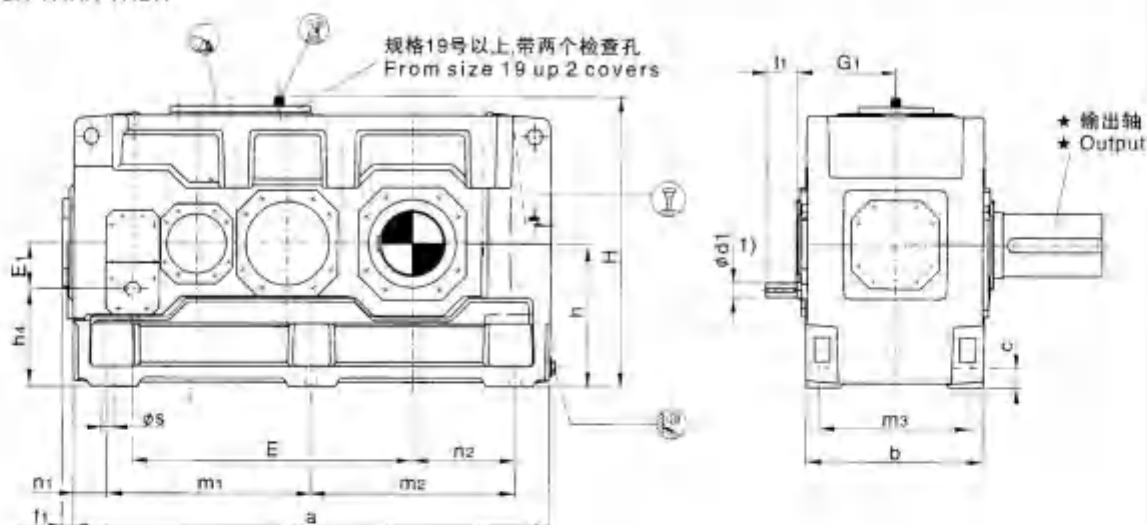
卧式安装 Horizontal

类型 H4.H, H4.M Types H4.H, H4.M

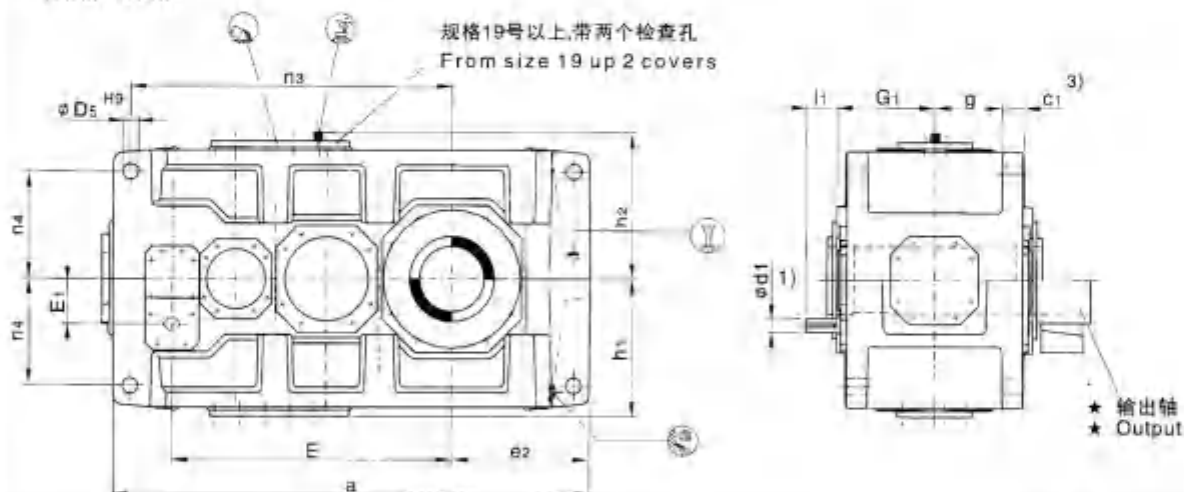
规格 13...22 Sizes 13...22

H/B

H4SH H4HH H4DH



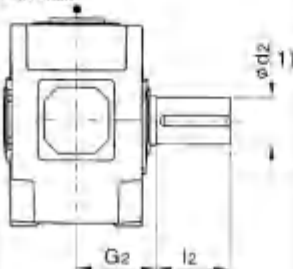
H4HM H4DM



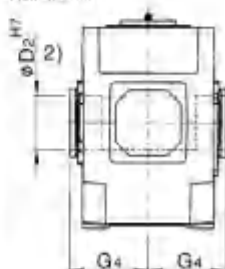
★ 输出轴 Output

布置形式 Design

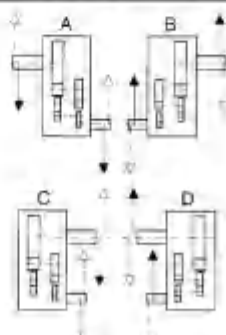
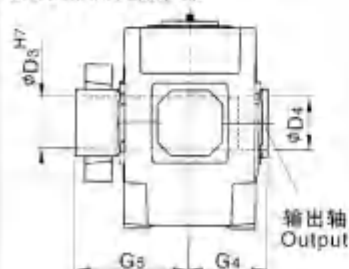
H4SH
实心轴
Solid shaft



H4HH, H4HM
空心轴
Hollow shaft



H4DH, H4DM
带碟刹的空心轴
Hollow shaft for shrink disk



1) $k_0 \leq \phi 50$ $m_0 > \phi 50$ $m_0 \leq 100$ $U_0 > 100$

有关平键GB/T1095-1979型和中心孔, 参见第88-89页。For parallel key GB/T1095-1979 and for centre hole, see page 88-89.

2) 键槽GB/T1095-1979. Keyway GB/T1095-1979.

3) 扭力支撑位于工作机侧。Torque support on driven machine side.

H/B系列



平行轴齿轮箱 Helical Gear Box 四级传动 Four Stage 卧式安装 Horizontal
类型 H4.H, H4.M Types H4.H, H4.M 规格 13..22 Sizes 13..22

规格 Size	尺寸 mm Dimensions in mm											
	输入轴 Input											
	H=100-180		H=113-200		H=125-224		H=200-355		H=224-400		H=250-450	
	d1 ¹⁾	l1	d1 ¹⁾	l1	d1 ¹⁾	l1	d1 ¹⁾	l1	d1 ¹⁾	l1	d1 ¹⁾	l1
13	50	100					38	80				
14					50	100					38	80
15	60	135					50	110				
16			60	135					50	110		
17	80	105					50	80				
18			60	105					50	80		
19	75	105					60	105				
20			75	105					60	105		
21	90	165					70	140				
22			90	165					70	140		

规格 Size	尺寸 mm Dimensions in mm											
	齿轮箱 Gear box											
	a	b	c	c1	D5	a2	E	E1	f1	g	h	
13	1395	550	60	61±2	48	405	820	130	47	211.5	440	
14	1535	550	60	61±2	48	475	890	130	47	211.5	440	
15	1680	825	70	72±2	55	485	987	180	56	238	500	
16	1770	825	70	72±2	55	530	1033	160	56	238	500	
17	1770	690	80	81±2	55	525	1035	160	53	259	550	
18	1890	690	80	81±2	55	585	1085	180	53	259	550	
19	2030	790	90	91±2	65	590	1190	185	53	299	620	
20	2150	790	90	91±2	65	650	1250	185	53	299	620	
21	2340	830	100	100±2	75	655	1387	225	62	310	700	
22	2450	830	100	100±2	75	710	1442	225	62	310	700	

规格 Size	尺寸 mm Dimensions in mm												
	齿轮箱 Gear box												
	n1	n2	n4	H	m1	m2	m3	n1	n2	n3	n4	a	
13	450	460	310	900	597.5	597.5	475	100	305	940	340	35	
14	450	460	310	900	597.5	737.5	475	100	375	1010	340	35	
15	490	500	340	1000	720	720	595	120	385	1135	375	42	
16	490	500	340	1000	720	610	535	120	410	1160	375	42	
17	555	560	390	1110	750	750	600	135	390	1175	425	42	
18	555	560	390	1110	750	870	600	135	450	1235	425	42	
19	615	620	435	1240	860	860	690	155	435	1365	475	48	
20	615	620	435	1240	860	980	690	155	495	1425	475	48	
21	685	690	475	1390	1000	1000	720	170	485	1515	520	56	
22	685	690	475	1390	1000	1110	720	170	540	1570	520	56	

规格 Size	尺寸 mm Dimensions in mm									润滑油 Lubrication		重量 Weight	
	输出轴 Output												
	H4SH			H4HH	H4HM	H5DH H3DM							
	d2 ¹⁾	G2	I2	D2 ²⁾	G4	D3	D4	G4	G5				
13	200	335	350	190	335	190	195	335	480	130	120	2390	2270
14	210	335	350	210	335	210	215	335	480	140	125	2730	2600
15	230	380	410	230	380	230	235	380	550	230	170	3635	3440
16	240	380	410	240	380	240	245	380	550	235	175	3965	3740
17	250	415	410	250	415	250	260	415	600	290	225	4660	4445
18	270	415	470	275	415	260	285	415	600	305	230	5685	4915
19	290	465	470	—	—	285	295	465	670	360	310	6900	6300
20	300	465	500	—	—	310	315	465	670	380	330	8200	7700
21	320	490	500	—	—	330	335	490	715	395	430	9200	8600
22	340	490	550	—	—	340	345	490	725	420	450	9900	9400

H/B

平行轴齿轮箱 Helical Gear Box

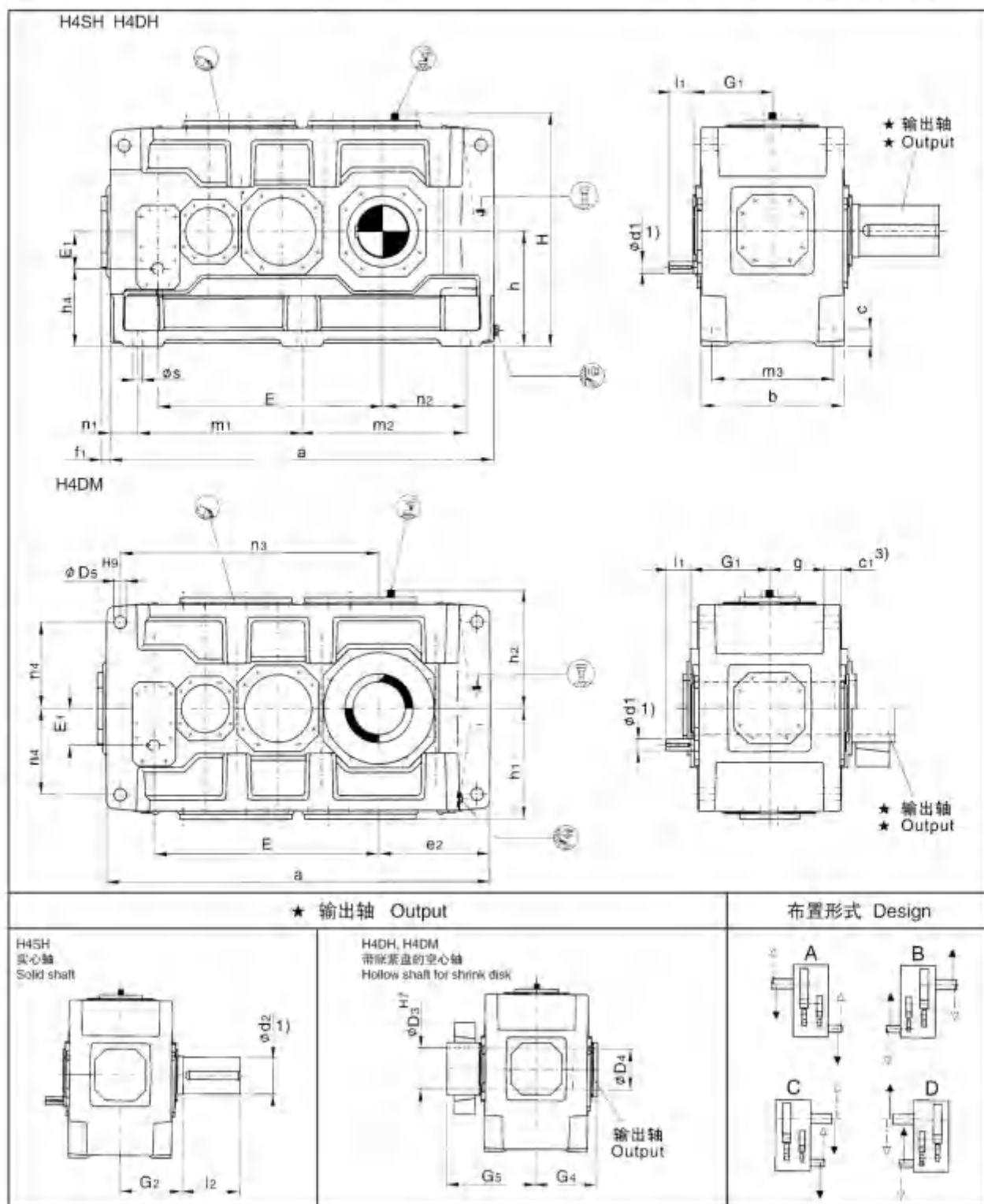
四级传动 Four Stage

卧式安装 Horizontal

类型 H4.H, H4.M Types H4.H, H4.M

规格 23...26 Sizes 23...26

H/B



1) $k_0 \leq \phi 50$ $m_0 > \phi 50$

有关平键GB/T1095-1979型和中心孔, 参见第88-89页。For parallel key GB/T1095-1979 and for centre hole, see page 88-89.

2) 键槽GB/T1095-1979。Keyway GB/T1095-1979.

3) 扭力支撑位于工作机侧。Torque support on driven machine side.

H/B系列



平行轴齿轮箱 Helical Gear Box 四级传动 Four Stage 卧式安装 Horizontal
 类型 H4.H, H4.M Types H4.H, H4.M 规格 23...26 Sizes 23...26

H/B

规格 Size	尺寸 mm Dimensions in mm							
	输入轴 Input							
	iN=100-180		iN=112-200		iN=200-355		iN=224-400	
	d1 ⁽¹⁾	l1	d1 ⁽¹⁾	l1	d1 ⁽¹⁾	l1	d1 ⁽¹⁾	l1
23	90	130			70	105		
24			90	130			70	105
25	100	205			85	170		
26			100	205			85	170

规格 Size	尺寸 mm Dimensions in mm										
	齿轮箱 Gear box										
	a	b	c	c1	D5	e2	E	E1	f1	g	h
23	2530	930	115	120 ± 2	80	730	1505	225	35	342	780
24	2660	930	115	120 ± 2	80	795	1570	225	35	342	780
25	2830	1045	130	120 ± 2	90	790	1695	265	65	400	860
26	3010	1045	130	120 ± 2	90	880	1785	285	65	400	860

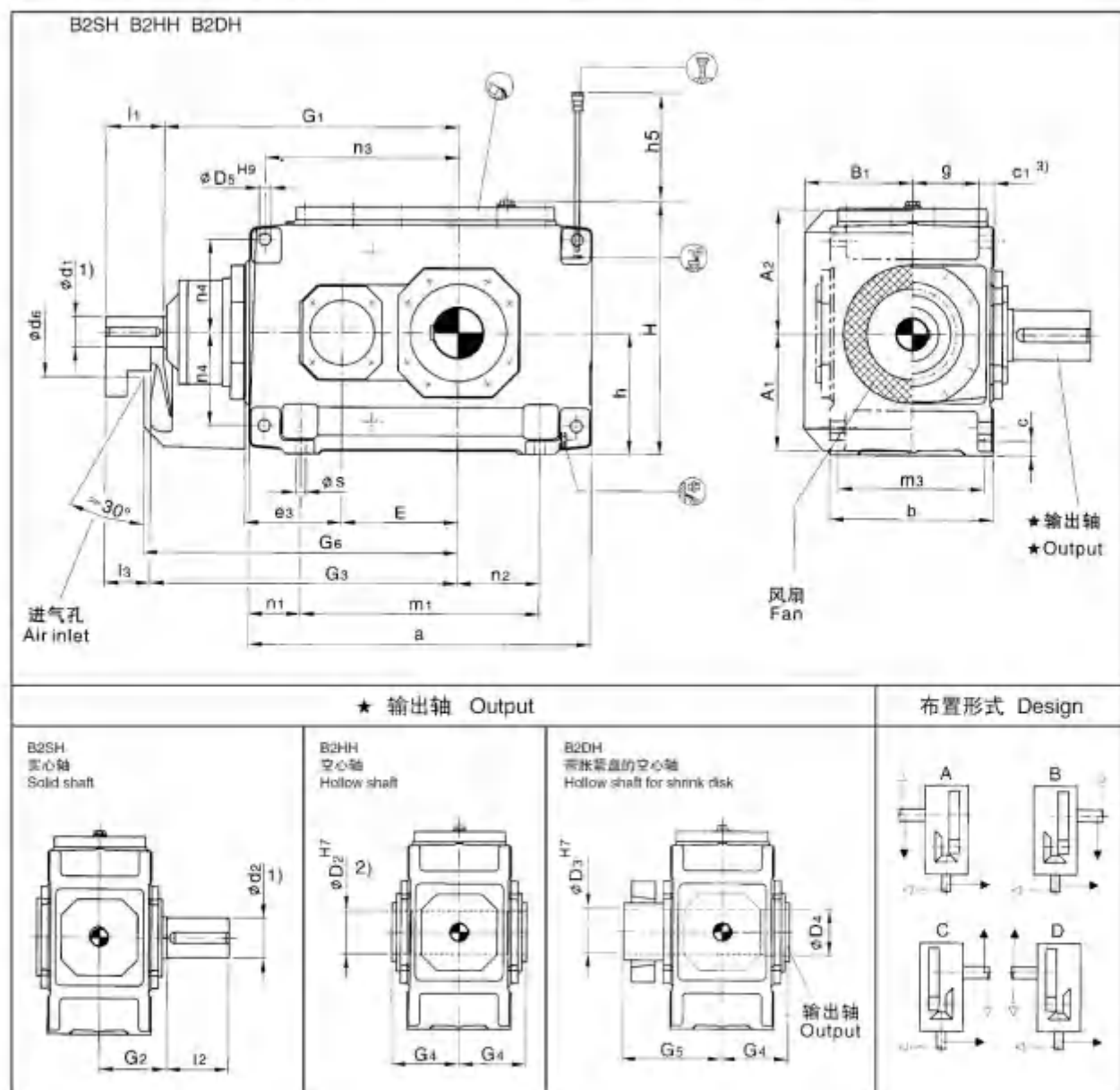
规格 Size	尺寸 mm Dimensions in mm										
	齿轮箱 Gear box										
	h1	h2	h4	H	m1	m2	m3	n1	n2	n3	n4
23	770	790	555	1570	1085	1085	810	180	550	1725	580
24	770	790	555	1570	1085	1215	810	180	615	1790	580
25	860	860	595	1720	1215	1215	910	200	590	1965	660
26	860	860	595	1720	1215	1395	910	200	680	2055	660

规格 Size	尺寸 mm Dimensions in mm							润滑油 Lubrication		重量 Weight	
	输出轴 Output										
	H4SH			H4DH H4DM				H4.H (L)	H4.M (L)	H4.H (kg)	H4.M (kg)
	d2 ⁽¹⁾	G2	l2	D3	D4	G4	G5				
23	360	540	590	360	365	540	785	520	500	11600	10700
24	380	540	590	380	385	540	805	550	600	13500	12600
25	400	605	650	400	405	605	875	735	800	16100	15200
26	420	605	650	430	435	605	900	780	850	17600	16500

垂直轴齿轮箱 Bevel-helical Gear Box
类型 B2.H Types B2.H

二级传动 Two Stage 卧式安装 Horizontal
规格 1...12 Sizes 1...12

H/B



1) $k_e \leq \Phi 50$ $m_e > \Phi 50$

有关平键GB/T1095-1979型和中心孔, 参见第88-89页。For parallel key GB/T1095-1979 and for centre hole, see page 88-89.

2) 键槽GB/T1095-1979。Keyway GB/T1095-1979.

3) 扭力支撑位于工作机侧。Torque support on driven machine side.

H/B系列



垂直轴齿轮箱 Bevel-helical Gear Box
类型 B2.H Type B2.H

二级传动 Two Stage 卧式安装 Horizontal
规格 1...12 Size 1...12

H/B

规格 Size	尺寸 mm Dimensions in mm										
	输入轴 Input										
	IN=5-11.2			IN=6.3-14			IN=12.5-18			G1	G3
d1 ¹⁾	I1	I3	d1 ¹⁾	I1	I3	d1 ¹⁾	I1	I3			
1	38	55	40				20	50	85	300	315
2	30	70	50				25	60	40	340	360
3	35	80	60				26	80	40	390	410
4	45	100	80							465	485
5	55	110	80							535	565
6				55	110	80				570	600
7	70	135	105							640	670
8				70	135	105				685	715
9	80	165	130							755	790
10				80	165	130				805	840
11	90	185	150							925	960
12				90	185	150				995	1030

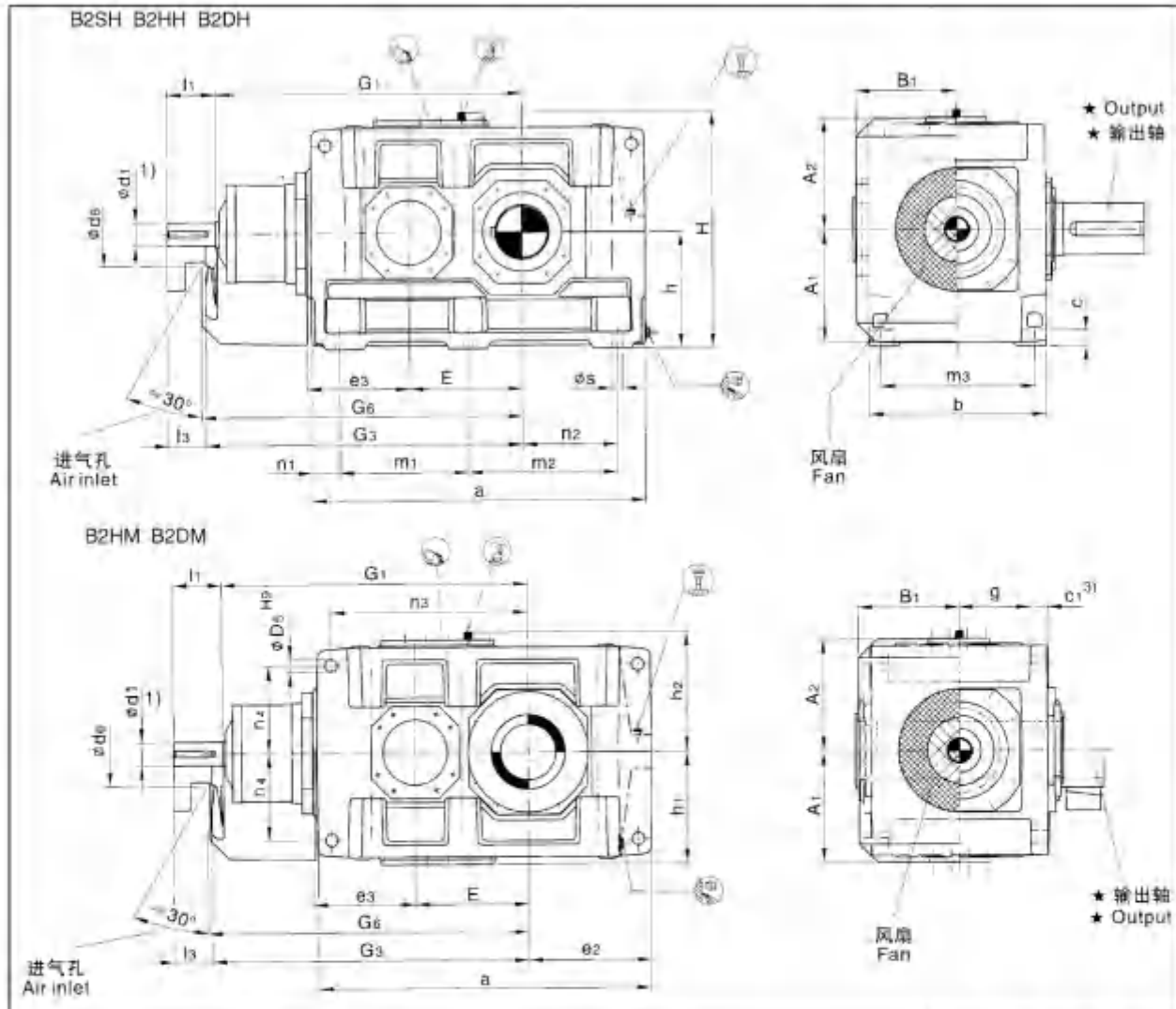
规格 Size	尺寸 mm Dimensions in mm											
	齿轮箱 Gear box											
	s	A1	A2	b	B1	c	c1	D5	d6	e3	E	g
1	305	125	130	160	128	18	16±1	12	110	90	90	74
2	365	140	145	205	143	18	20±1	14	110	110	110	82.5
3	405	170	170	225	163	22	24±1	18	120	130	130	88.5
4	505	195	200	270	188	28	30±1	24	150	160	160	105
5	565	220	235	320	215	28	30±1	24	160	185	185	130
6	645	220	235	320	215	28	30±1	24	160	185	220	130
7	690	270	265	380	250	35	36±1	28	210	225	225	154
8	785	270	265	380	250	35	36±1	28	210	225	270	154
9	820	310	325	440	270	40	48±1.5	36	195	265	265	172
10	920	310	325	440	270	40	48±1.5	36	195	265	315	172
11	975	370	365	530	328	50	54±1.5	40	210	320	320	211
12	1130	370	365	530	328	50	54±1.5	40	210	320	380	211

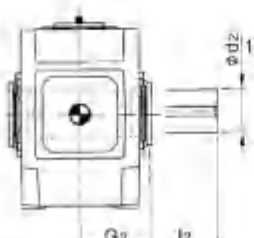
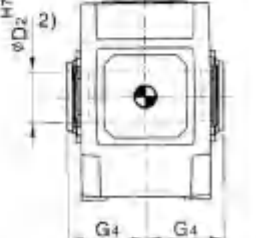
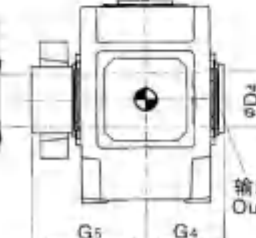
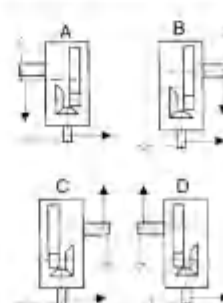
规格 Size	尺寸 mm Dimensions in mm											
	齿轮箱 Gear box											
	G6	h	h5	H	m1	m3	m1	n2	n3	n4	is	
1	325	130	80	275	185	155	60	70	160	105	12	
2	370	145	80	305	225	160	65	75	195	115	12	
3	420	175	90	360	245	195	80	85	235	132.5	15	
4	485	200	80	415	295	235	105	95	295	150	19	
5	575	230	150	482	355	285	105	100	330	160	19	
6	610	230	150	482	435	285	105	145	365	180	19	
7	685	290	160	582	450	340	120	130	405	215	24	
8	730	290	190	582	555	340	120	190	450	215	24	
9	805	320	205	662	530	390	145	155	490	245	28	
10	855	320	215	662	630	390	145	205	530	245	28	
11	960	380	240	790	645	470	165	180	680	300	35	
12	1050	380	250	790	800	470	165	255	650	300	35	

规格 Size	尺寸 mm Dimensions in mm									润滑油 Lubrication (L)	重量 Weight (kg)
	输出轴 Output										
	B2SH			B2HH		B2DH					
	d2	G2	I2	D2 ²⁾	G4	D5	D4	G4	G5		
1	45	120	80	—	—	—	—	—	—	2	65
2	55	135	110	55	135	80	80	135	180	4	90
3	65	145	140	85	145	70	70	145	200	5	140
4	80	170	170	80	170	85	85	170	235	10	235
5	100	200	210	95	200	100	100	200	275	18	360
6	110	200	210	105	200	110	110	200	275	19	410
7	120	235	210	115	235	120	120	235	320	31	615
8	130	235	250	125	235	130	130	235	325	34	700
9	140	270	250	135	270	140	145	270	365	48	1000
10	160	270	300	150	270	150	155	270	385	50	1155
11	170	320	300	165	320	165	170	320	450	80	1640
12	180	320	300	180	320	180	185	320	455	95	1910

垂直轴齿轮箱 Bevel-helical Gear Box 二级传动 Two Stage 卧式安装 Horizontal
类型 B2.H, B2.M Types B2.H, B2.M 规格 13...18 Sizes 13...18

H/B



★ 输出轴 Output			布置形式 Design
B2SH 实心轴 Solid shaft 	B2HH B2HM 空心轴 Hollow shaft 	B2DH B2DM 带胀紧套的空心轴 Hollow shaft for shrink disk 	

1) $k_p \leq \phi 50$ $m_p > \phi 50$

有关平键GB/T1095-1979型和中心孔, 参见第88-89页。For parallel key GB/T1095-1979 and for centre hole, see page 88-89.

2) 键槽GB/T1095-1979。Keyway GB/T1095-1979.

3) 扭力支撑位于工作机侧。Torque support on driven machine side.

H/B系列



垂直轴齿轮箱 Bevel-helical Gear Box 二级传动 Two Stage 卧式安装 Horizontal
类型 B2.H, B2.M Types B2.H, B2.M 规格 13...18 Size 13...18

H/B

规格 Size	尺寸 mm Dimensions in mm														
	输入轴 Input														
	iN=5-11.2			iN=5.6-11.2			iN=5.6-12.5			iN=6.3-14			iN=7.1-12.5		
	d1 ¹⁾	I1	I3	d1 ¹⁾	I1	I3	d1 ¹⁾	I1	I3	d1 ¹⁾	I1	I3	d1 ¹⁾	I1	I3
13	110	205	165												
14										110	205	165			
15	130	245	200												
16							130	245	200						
17				150	245	200									
18													150	245	200

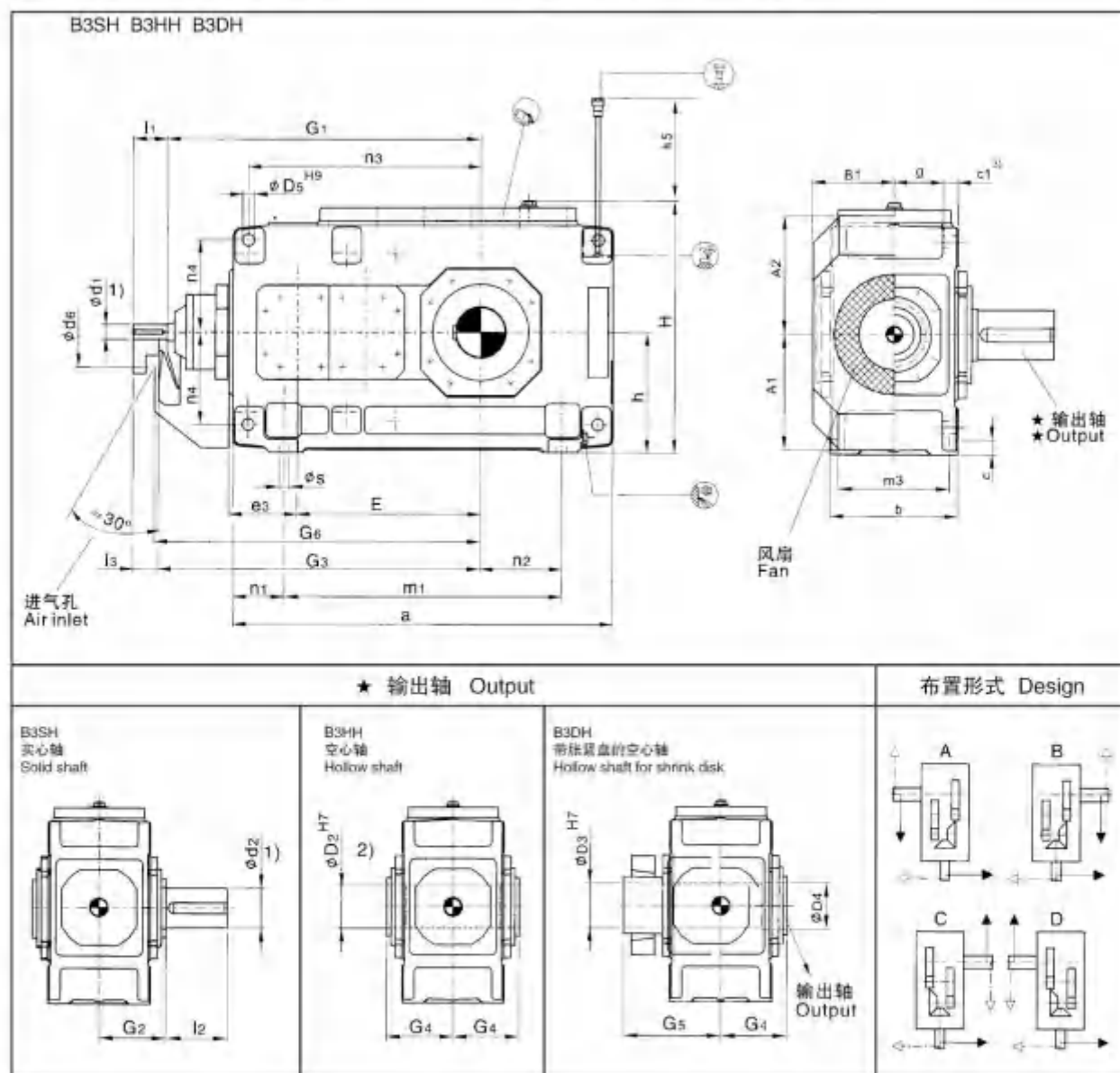
规格 Size	尺寸 mm Dimensions in mm													
	齿轮箱 Gear box													
	a	A1	A2	b	B1	c	c1	d6	D5	e2	e3	E	g	
13	1130	430	450	655	375	60	61 ± 2	245	48	405	380	370	264	
14	1270	430	450	655	375	60	61 ± 2	245	48	475	380	440	264	
15	1350	490	495	765	435	70	72 ± 2	280	55	485	450	442	308	
16	1440	490	495	765	435	70	72 ± 2	260	55	530	450	488	308	
17	1490	540	555	885	505	80	81 ± 2	380	65	525	510	490	356	
18	1610	540	555	885	505	80	81 ± 2	380	65	585	510	550	356	

规格 Size	尺寸 mm Dimensions in mm												
	齿轮箱 Gear box												
	G6	h	h1	h2	H	m1	m2	m3	n1	n2	n3	n4	s
13	1130	440	450	460	900	465	465	580	100	305	675	340	35
14	1200	440	450	460	900	465	605	580	100	375	745	340	35
15	1340	500	490	500	1000	555	555	670	120	365	805	375	42
16	1395	500	490	500	1000	555	645	670	120	410	850	375	42
17	1500	560	555	560	1110	610	610	780	135	390	895	420	48
18	1560	560	555	560	1110	610	730	780	135	450	955	420	48

规格 Size	尺寸 mm Dimensions in mm									润滑油 Lubrication		重量 Weight (kg)			
	输出轴 Output									B2.H				B2.M	
	B2SH			B2HH B2HM		B2DH B2DM				轴封 (L) Shaft seal					
	d2 ¹⁾	G2	I2	D2 ²⁾	G4	D3	D4	G4	G5						
13	200	390	350	—	—	—	—	—	—	140	120	2450	2350		
14	210	390	350	210	390	210	215	390	535	155	130	2825	2725		
15	230	480	410	—	—	—	—	—	—	220	180	3990	3795		
16	240	480	410	240	450	240	245	450	620	230	190	4345	4160		
17	250	540	410	—	—	—	—	—	—	320	260	5620	5320		
18	270	540	470	275	510	280	285	510	700	335	275	6150	5860		

垂直轴齿轮箱 Bevel-helical Gear Box 三级传动 Three Stage 卧式安装 Horizontal
类型 B3.H Types B3.H 规格 3..12 Size 3..12

H/B



1) $k_e \leq \phi 50$ $m_e > \phi 50$

有关平键GB/T1095-1979型和中心孔, 参见第88-89页。For parallel key GB/T1095-1979 and for centre hole, see page 88-89.

2) 键槽GB/T1095-1979。Keyway GB/T1095-1979.

3) 扭力支撑位于工作机侧。Torque support on driven machine side.

H/B系列



垂直轴齿轮箱 Bevel-helical Gear Box 三级传动 Three Stage 卧式安装 Horizontal
 类型 B3.H Types B3.H 规格 3...12 Size 3...12

H/B

规格 Size	尺寸 mm Dimensions in mm														
	输入轴 Input														
	N=12.5-45			N=16-56			N=20-45			N=50-71			N=63-90		
	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3
3							28	55	40	20	50	35			
4	30	70	50							25	60	40			
5	35	80	60							28	60	40			
6				35	80	60							28	60	40
7	45	100	80							35	80	60			
8				45	100	80							35	80	60
9	55	110	80							40	100	70			
10				55	110	80							40	100	70
11	70	135	105							50	110	80			
12				70	135	105							50	110	80

规格 Size	尺寸 mm Dimensions in mm												
	齿轮箱 Gear box												
	a	A1	A2	b	B1	c	d1	d6	D5	e3	E	g	
3	450	170	170	190	128	22	24 ± 1	90	18	90	220	71	
4	565	195	200	215	143	26	30 ± 1	110	24	110	270	77.5	
5	640	220	255	265	168	26	30 ± 1	130	24	130	315	97.5	
6	720	280	235	255	168	28	30 ± 1	130	24	130	350	87.5	
7	765	275	275	300	193	35	36 ± 1	165	28	160	385	114	
8	890	275	275	300	193	36	36 ± 1	166	28	160	420	114	
9	925	315	325	370	231	40	45 ± 1.5	175	36	185	450	140	
10	1025	315	325	370	231	40	45 ± 1.5	175	36	185	500	140	
11	1105	370	355	430	263	50	54 ± 1.5	190	40	225	545	161	
12	1260	570	355	430	263	50	54 ± 1.5	190	40	225	615	161	

规格 Size	尺寸 mm Dimensions in mm											
	齿轮箱 Gear box											
	G6	n	n5	H	m1	m3	n1	n2	n5	n4	s	
3	455	175	100	360	290	160	80	65	265	132.5	15	
4	530	200	100	415	355	180	105	85	345	150	19	
5	605	250	130	482	430	220	105	100	405	160	19	
6	640	250	130	482	510	220	105	145	440	160	19	
7	720	280	170	572	545	260	120	130	500	215	24	
8	765	280	160	582	650	260	120	190	545	215	24	
9	845	320	175	662	825	320	145	155	695	245	38	
10	895	320	175	662	735	320	145	205	635	245	28	
11	1010	380	220	782	775	370	165	180	710	300	35	
12	1080	380	210	790	930	370	165	265	780	300	35	

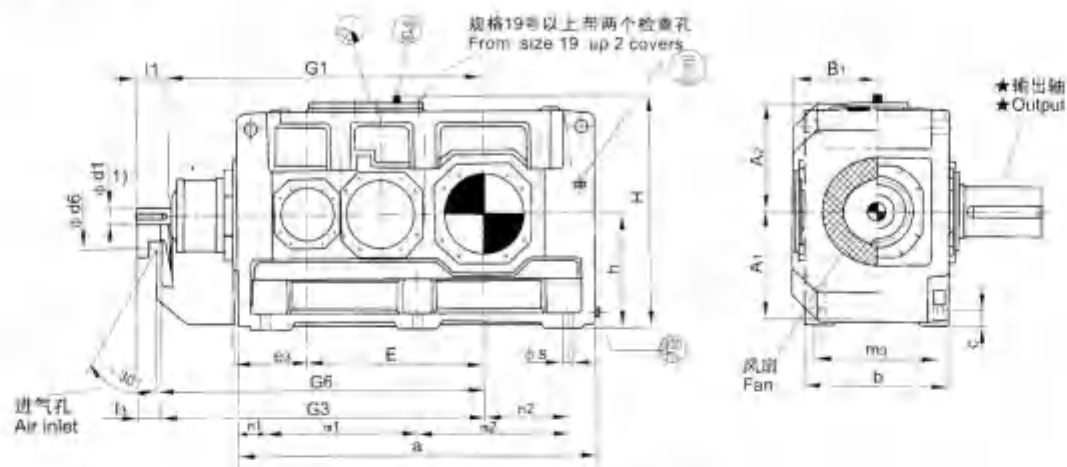
规格 Size	尺寸 mm Dimensions in mm									润滑油 Lubrication (L)	重量 Weight (kg)
	输出轴 Output										
	B3SH			B5HH		B3UH					
	G2	G2	G2	D2 ²⁾	G4	D3	D4	G4	G5		
3	65	125	140	65	125	70	70	125	180	6	130
4	80	140	170	80	140	85	85	140	205	9	210
5	100	165	210	95	165	100	100	165	240	14	325
6	110	165	210	105	165	110	110	165	240	15	380
7	120	195	210	115	195	120	120	195	280	25	550
8	130	195	250	125	195	130	130	195	285	26	635
9	140	235	250	135	235	140	145	235	330	40	890
10	160	235	300	150	235	150	155	235	350	42	1020
11	170	270	300	165	270	165	170	270	400	68	1455
12	180	270	300	185	270	180	185	270	405	72	1730

垂直轴齿轮箱 Bevel-helical Gear Box
类型 B3.H B3.M Types B3.H B3.M

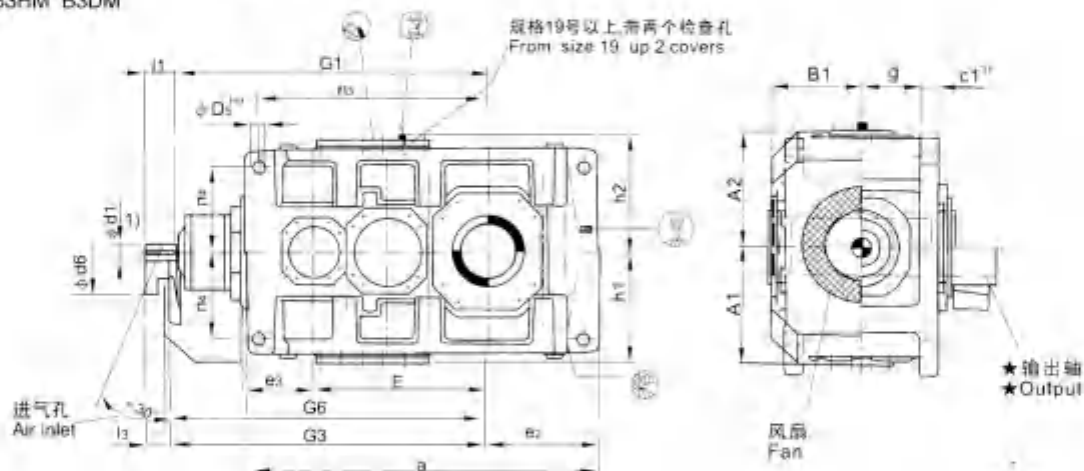
三级传动 Three Stage 卧式安装 Horizontal
规格 13...22 Sizes 13...22

H/B

B3SH B3HH B3DH



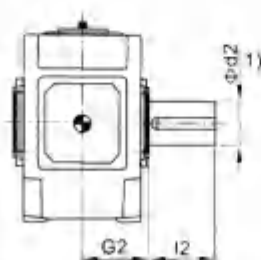
B3HM B3DM



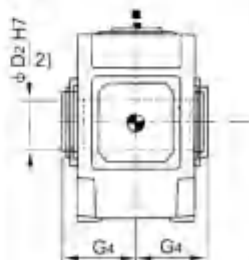
★ 输出轴 Output

布置形式 Design

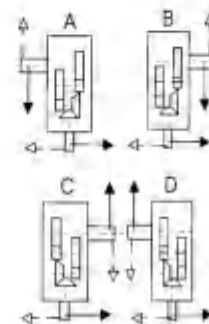
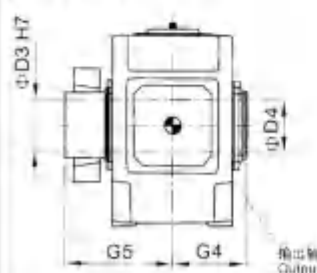
B3SH
实心轴
Solid shaft



B3HH B3HM
空心轴
Hollow shaft



B3DH B3DM
带胀紧套的空心轴
Hollow shaft for shrink disk



1) $k_s \leq \phi 50$ $m_s > \phi 50$

有关平键GB/T1095-1979型和中心孔, 参见第88-89页。For parallel key GB/T1095-1979 and for centre hole, see page 88-89.

2) 键槽GB/T1095-1979。Keyway GB/T1095-1979.

3) 扭力支撑位于工作机侧。Torque support on driven machine side.

H/B系列



垂直轴齿轮箱 Bevel-helical Gear Box 三级传动 Three Stage 卧式安装 Horizontal
类型 B3.H B3.M Types B3.H B3.M 规格 13...22 Size 13...22

规格 Size	尺寸 mm Dimensions in mm																	
	输入轴 Input																	
	d1=12.5-45			d1=14-50			d1=15-56			d1=50-71			d1=55-80			d1=55-90		
	d1	L1	L3	d1	L1	L3	d1	L1	L3	d1	L1	L3	d1	L1	L3	d1	L1	L3
13	60	165	150							60	140	105						
14							60	165	130							60	140	105
15	90	165	190							70	140	105						
16				90	165	130							70	140	105			
17	110	205	165							80	170	130						
18				110	205	165							80	170	130			
19	130	245	200							100	210	165						
20				130	245	200							100	210	165			
21	130	245	200							100	210	165						
22				130	245	200							100	210	165			

规格 Size	尺寸 mm Dimensions in mm													
	齿轮箱 Gear box													
	a	A1	A2	B	B1	e	d1	db	D5	e2	e3	E	g	
13	1290	425	435	550	325	60	61±2	210	48	405	265	635	211.5	
14	1430	425	435	550	325	60	61±2	210	48	475	265	705	211.5	
15	1550	485	520	625	385	70	72±2	210	55	465	390	762	238	
16	1640	485	520	625	385	70	72±2	210	55	590	390	808	238	
17	1740	535	570	690	395	80	81±2	230	55	525	370	860	259	
18	1860	535	570	690	395	80	81±2	230	55	585	370	920	259	
19	2010	610	630	790	448	90	91±2	245	65	590	420	997	299	
20	2130	610	630	790	448	90	91±2	245	65	650	420	1057	299	
21	2140	690	690	890	473	100	100±2	260	75	655	450	1067	310	
22	2250	690	690	890	473	100	100±2	260	75	710	450	1122	310	

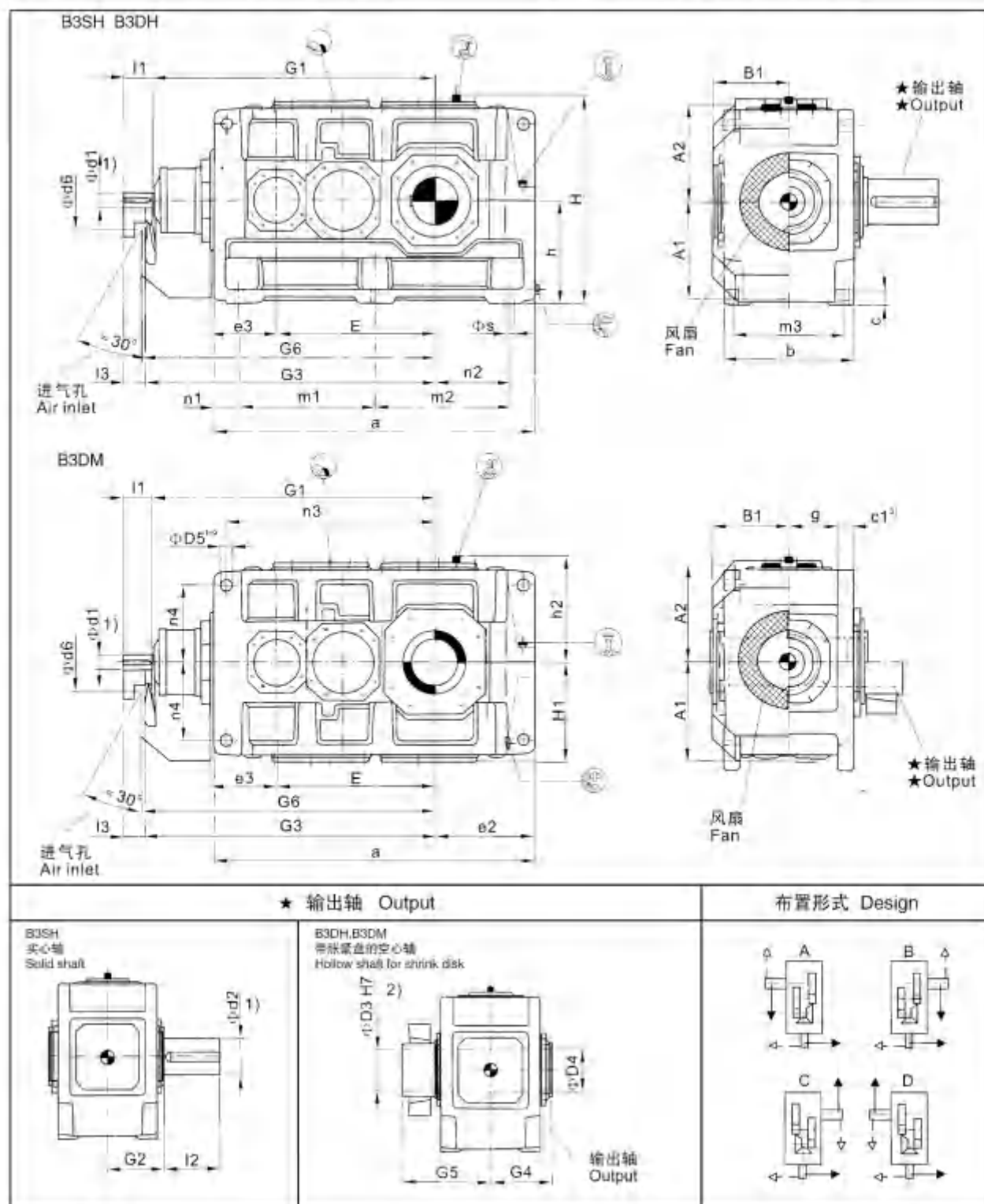
规格 Size	尺寸 mm Dimensions in mm													
	齿轮箱 Gear box													
	G6	h	h1	h2	H	m1	m2	m3	n1	n2	n3	n4	s	
13	1180	440	450	460	900	545	545	475	100	305	635	340	35	
14	1250	440	450	460	900	545	585	475	100	375	905	340	35	
15	1420	500	490	500	1000	655	655	535	120	365	1005	375	42	
16	1470	500	490	500	1000	655	745	535	120	410	1060	375	42	
17	1620	550	535	560	1110	735	735	600	135	390	1145	425	42	
18	1680	550	535	560	1110	735	855	600	135	450	1205	425	42	
19	1900	690	615	620	1240	850	850	690	150	435	1345	475	49	
20	1980	690	615	620	1240	850	970	690	150	495	1405	475	49	
21	1970	700	685	690	1390	900	900	720	170	485	1400	520	56	
22	2025	700	685	690	1390	900	1010	720	170	540	1455	520	56	

规格 Spec.	尺寸 mm Dimensions in mm									润滑油 Lubrication		重量 Weight	
	输出轴 Output												
	B3SH			B3HH B3HM		B3DH B3DM							
	d2	G2	E	D2 ¹⁾	G4	D3	D4	G4	G5	(L)	(L)	(kg)	(kg)
13	200	335	350	190	335	190	195	335	480	130	10	2360	2260
14	210	385	350	210	335	210	215	335	480	140	115	2750	2615
15	230	380	410	230	380	230	235	380	550	210	160	3730	3540
16	240	380	410	240	380	240	245	380	550	220	165	3955	3765
17	250	415	410	250	415	250	260	415	600	290	230	4990	4760
18	270	415	470	275	415	280	285	415	600	300	235	5495	5240
19	290	465	470			285	285	465	670	380	360	7000	6600
20	300	465	500			310	315	465	670	440	420	8100	7600
21	320	490	500			330	335	490	715	370	420	9200	8600
22	340	490	550			340	345	490	725	430	490	9900	9400

H/B

垂直轴齿轮箱 Bevel-helical Gear Box 三级传动 Three Stage 卧式安装 Horizontal
类型 B3.H B3.M Types B3.H B3.M 规格 23...26 Sizes 23...26

H/B



1) $k_0 \leq \Phi 50$ $m_0 > \Phi 50$

有关半键GB/T1095-1979型和中心孔, 参见第88-89页。For parallel key GB/T1095-1979 and for centre hole, see page 88-89.

2) 键槽GB/T1095-1979. Keyway GB/T1095-1979.

3) 扭力支撑位于工作机侧。Torque support on driven machine side.

H/B系列



垂直轴齿轮箱 Bevel-helical Gear Box 三级传动 Three Stage 卧式安装 Horizontal
类型 B3.H B3.M Types B3.H B3.M 规格 23...26 Sizes 23...26

H/B

规格 Size	尺寸 mm Dimensions in mm											
	输入轴 Input											
	iN=20-45			iN=22.4-50			iN=50-71			iN=56-80		
	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3
23	150	245	200				110	210	165			
24				150	245	200				110	210	165
25	150	245	200				110	210	165			
26				150	245	200				110	210	165

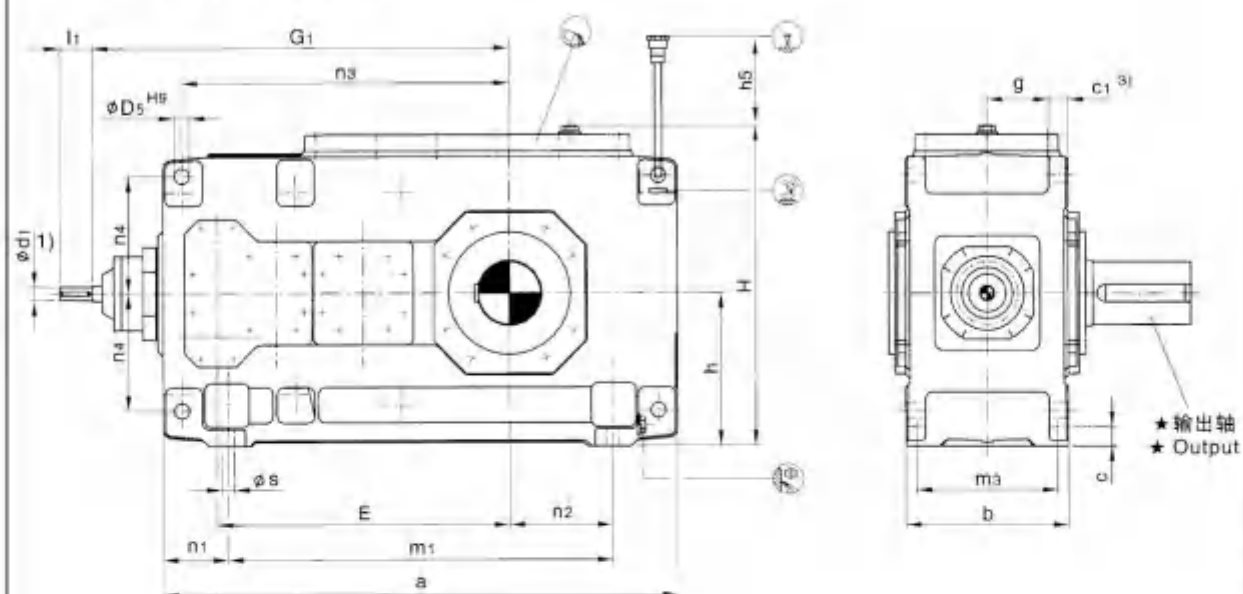
规格 Size	尺寸 mm Dimensions in mm												
	齿轮箱 Gear box												
	a	A1	A2	b	B1	c	c1	d6	D5	e2	e3	E	g
23	2380	770	770	930	528	115	120 ± 2	350	80	730	490	1185	342
24	2510	770	770	930	528	115	120 ± 2	350	80	795	490	1250	342
25	2580	845	865	1045	585	130	120 ± 2	380	90	790	490	1325	400
26	2760	845	865	1045	585	130	120 ± 2	380	90	880	490	1415	400

规格 Size	尺寸 mm Dimensions in mm												
	齿轮箱 Gear box												
	G6	h	h1	h2	H	m1	m2	m3	n1	n2	n3	n4	s
23	2200	780	770	790	1570	1010	1010	810	180	550	1560	580	56
24	2265	780	770	790	1570	1010	1140	810	180	615	1625	580	56
25	2315	860	860	860	1720	1090	1090	910	200	590	1685	660	66
26	2430	860	860	860	1720	1090	1270	910	200	680	1775	660	66

规格 Size	尺寸 mm Dimensions in mm							润滑油 Lubrication		重量 Weight	
	输出轴 Output										
	B3SH			B3DH B3DM				B3.H	B3.M	B3.H	B3.M
	d2 ¹⁾	G2	l2	D3	D4	G4	G5	(L)	(L)	(kg)	(kg)
23	360	540	590	360	365	540	785	520	560	11500	10600
24	380	540	590	380	385	540	805	600	650	13400	12500
25	400	605	650	400	405	605	875	720	790	16000	15100
26	420	605	650	430	435	605	900	840	920	17500	16400

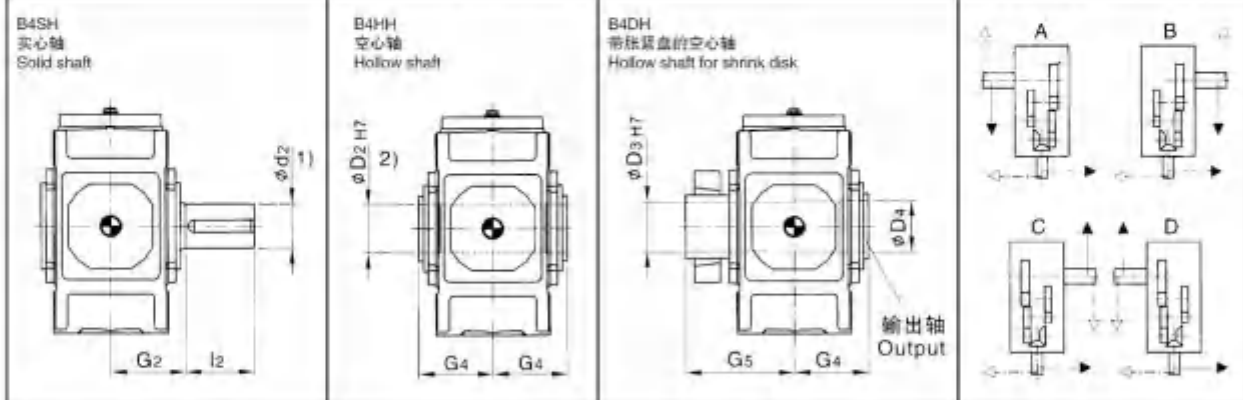
垂直轴齿轮箱 Bevel-helical Gear Box 四级传动 Four Stage 卧式安装 Horizontal
 类型 B4.H Types B4.H 规格 5...12 Sizes 5...12

B4SH B4HH B4DH



★ 输出轴 Output

布置形式 Design



1) $k_e \leq \phi 50$ $m_e > \phi 50$

有关平键GB/T1095-1979型和中心孔, 参见第88-89页。For parallel key GB/T1095-1979 and for centre hole, see page 88-89.

2) 键槽GB/T1095-1979。Keyway GB/T1095-1979.

3) 扭力支撑位于工作机侧。Torque support on driven machine side.

H/B系列



垂直轴齿轮箱 Bevel-helical Gear Box 四级传动 Four Stage 卧式安装 Horizontal
 类型 B4.H Types B4.H 规格 5...12 Sizes 5...12

H/B

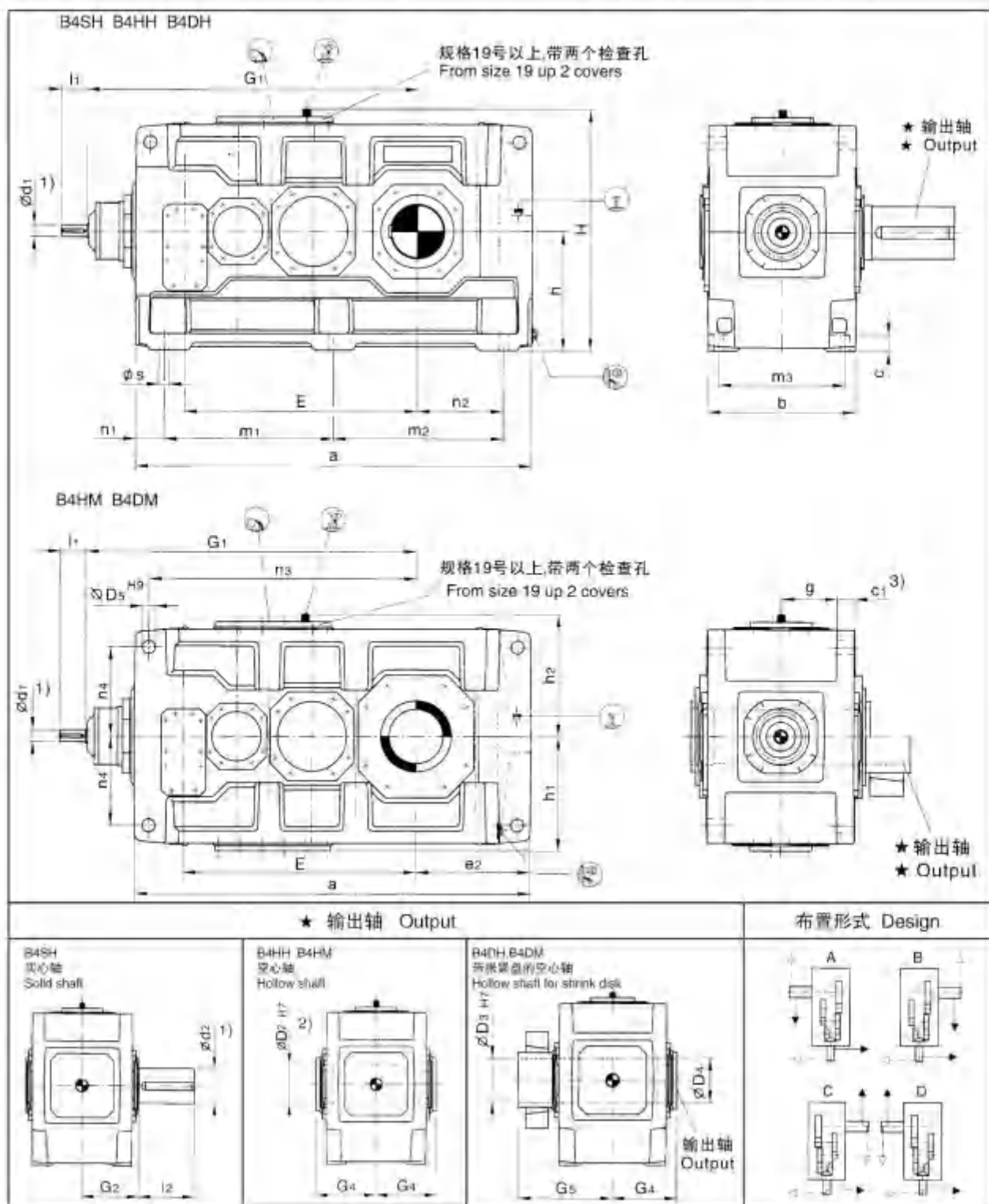
规格 Size	尺寸 mm Dimensions in mm								
	输入轴 Input								
	iN=80-180		iN=100-224		iN=200-315		iN=250-400		G1
	d1 ¹⁾	l1	d1 ¹⁾	l1	d1 ¹⁾	l1	d1 ¹⁾	l1	
5	28	55			20	50			615
6			28	55			20	50	650
7	30	70			25	60			725
8			30	70			25	60	770
9	35	80			28	60			840
10			35	80			28	60	890
11	45	100			35	80			1010
12			45	100			35	80	1080

规格 Size	尺寸 mm Dimensions in mm																	
	齿轮箱 Gear box																	
	a	b	c	c1	D5	E	g	h	h5	H	m1	m3	n1	n2	n3	n4	s	
5	690	255	28	30±1	24	405	97.5	230	100	482	480	220	105	100	455	180	19	
6	770	255	28	30±1	24	440	97.5	230	100	482	560	220	105	145	490	180	19	
7	845	300	35	36±1	28	495	114	280	140	572	605	260	120	130	560	215	24	
8	950	300	35	36±1	28	540	114	280	130	582	710	260	120	190	605	215	24	
9	1000	370	40	45±1.5	36	580	140	320	135	662	710	320	145	155	660	245	28	
10	1100	370	40	45±1.5	36	630	140	320	135	662	810	320	145	205	710	245	28	
11	1200	430	50	54±1.5	40	705	161	380	170	782	870	370	165	180	805	300	35	
12	1355	430	50	54±1.5	40	775	161	380	160	790	1025	370	165	265	875	300	35	

规格 Size	尺寸 mm Dimensions in mm									润滑油 Lubrication (L)	重量 Weight (kg)
	输出轴 Output										
	B4SH			B4HH		B4DH					
	d2 ¹⁾	G2	I2	D2 ²⁾	G4	D3	D4	G4	G5		
5	100	165	210	95	165	100	100	165	240	16	335
6	110	165	210	105	165	110	110	165	240	18	385
7	120	195	210	115	195	120	120	195	280	30	555
8	130	195	250	125	195	130	130	195	285	33	655
9	140	235	250	135	235	140	145	235	330	48	890
10	160	235	300	150	235	150	155	235	350	50	1025
11	170	270	300	165	270	165	170	270	400	80	1485
12	180	270	300	180	270	180	185	270	405	90	1750

垂直轴齿轮箱 Bevel-helical Gear Box 四级传动 Four Stage 卧式安装 Horizontal
类型 B4.H B4.M Types B4.H B4.M 规格 13...22 Sizes 13...22

H/B



1) $k_0 \leq \Phi 50$ $m_0 > \Phi 50$

有关平键GB/T1095-1979型和中心孔, 参见第88-89页。For parallel key GB/T1095-1979 and for centre hole, see page 88-89.

2) 键槽GB/T1095-1979。Keyway GB/T1095-1979.

3) 扭力支撑位于工作机侧。Torque support on driven machine side.

H/B系列



垂直轴齿轮箱 Bevel-helical Gear Box 四级传动 Four Stage 卧式安装 Horizontal
类型 B4.H B4.M Types B4.H B4.M 规格 13...22 Sizes 13...22

H/B

规格 Size	尺寸 mm Dimensions in mm											
	输入轴 Input											
	IN=80-180		IN=90-300		IN=100-225		IN=200-315		IN=225-355		IN=250-400	
	d1 ¹⁾	H	d1 ¹⁾	H	d1 ¹⁾	H	d1 ¹⁾	H	d1 ¹⁾	H	d1 ¹⁾	H
13	55	110					40	100				
14					55	110					40	100
15	70	135					50	110				
16			70	135					50	110		
17	70	135					50	110				
18			70	135					50	110		
19	80	165					60	140				
20			80	165					60	140		
21	90	165					70	140				
22			90	165					70	140		

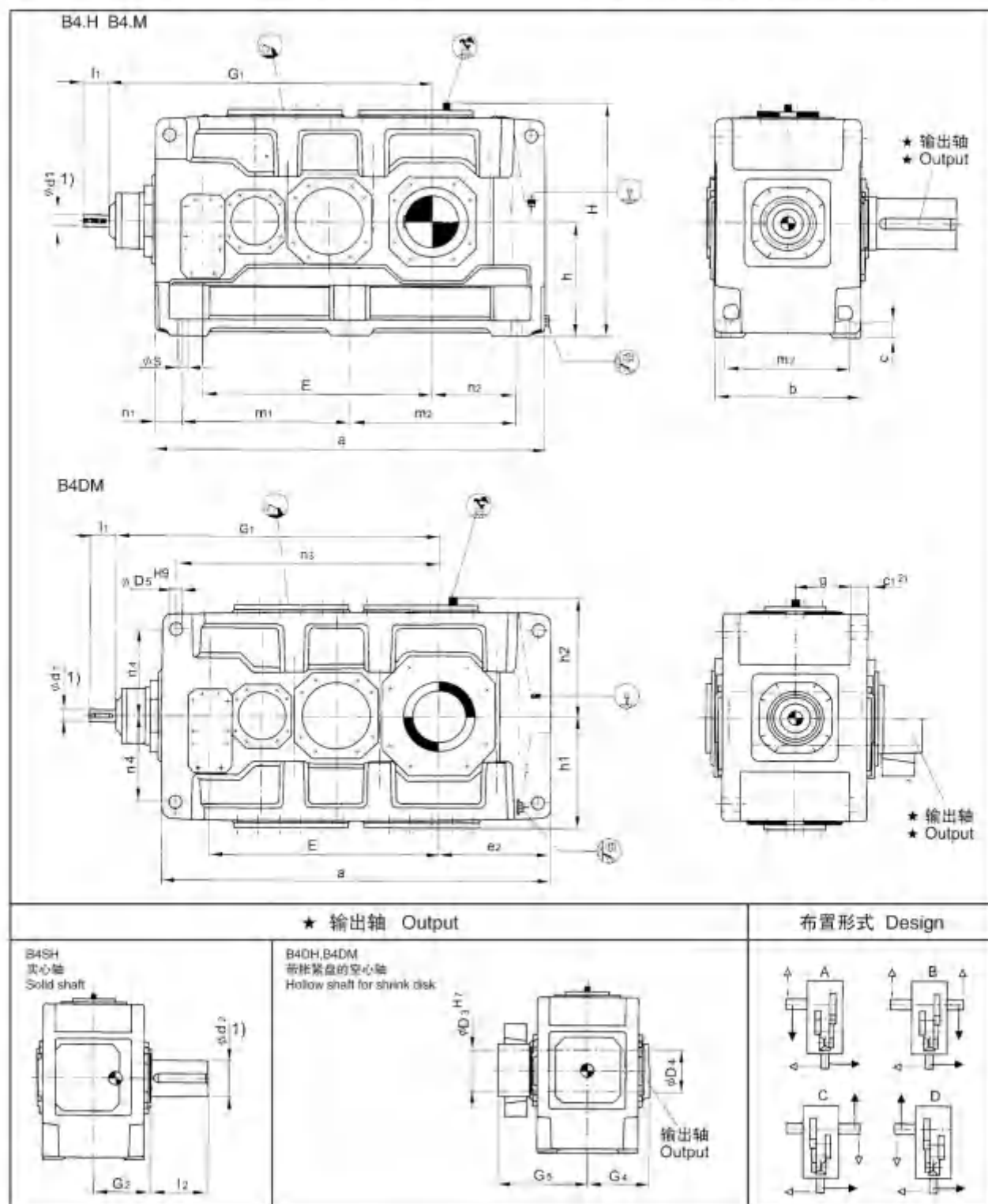
规格 Size	尺寸 mm Dimensions in mm									
	齿轮箱 Gearbox									
	a	b	c	d1	D5	e2	E	g	h	h1
13	1395	550	60	61 ± 2	46	405	820	211.5	440	450
14	1535	550	60	61 ± 2	46	475	890	211.5	440	450
15	1680	625	70	72 ± 2	55	485	987	238	500	490
16	1770	625	70	72 ± 2	55	530	1033	238	500	490
17	1770	690	80	81 ± 2	55	525	1035	259	560	555
18	1890	690	80	81 ± 2	55	585	1095	259	550	555
19	2030	790	90	91 ± 2	65	590	1190	299	620	615
20	2150	790	90	91 ± 2	65	650	1250	299	620	615
21	2340	830	100	100 ± 2	75	655	1367	310	700	685
22	2450	830	100	100 ± 2	75	710	1442	310	700	685

规格 Size	尺寸 mm Dimensions in mm									
	齿轮箱 Gear box									
	n3	H	m1	m2	m3	n1	n2	n3	n4	s
13	460	900	597.5	597.5	475	100	305	940	340	35
14	460	900	597.5	737.5	475	100	375	1010	340	35
15	500	1000	720	720	535	120	365	1135	375	42
16	500	1000	720	810	535	120	410	1180	375	42
17	560	1110	750	750	600	135	390	1175	425	42
18	560	1110	750	870	600	135	450	1235	425	42
19	620	1240	860	860	690	155	435	1365	475	46
20	620	1240	860	980	690	155	485	1425	475	46
21	690	1390	1000	1000	720	170	485	1615	520	56
22	690	1390	1000	1110	720	170	540	1670	520	56

规格 Size	尺寸 mm · Dimensions in mm									润滑油 Lubrication		重量 Weight	
	输出轴 Output												
	B4SH			B4HH B4HM		B4DH B4DM				B4.H	B4.M	B4.H	B4.M
	d2 ¹⁾	G2	I2	D2 ¹⁾	G4	D3	D4	G4	G5	(L)	(L)	(kg)	(kg)
13	200	335	350	190	335	190	195	335	480	145	120	2395	2280
14	210	335	350	210	335	210	215	335	480	150	125	2735	2605
15	230	380	410	230	380	230	235	380	550	230	170	3550	3435
16	240	380	410	240	380	240	245	380	550	235	175	3965	3765
17	250	415	410	250	415	250	260	415	600	295	230	4895	4460
18	270	415	470	275	415	280	285	415	600	305	235	5200	4930
19	290	465	470	—	—	285	295	465	670	480	440	6800	6300
20	300	465	500	—	—	310	315	465	670	550	510	8200	7700
21	320	490	500	—	—	330	335	490	715	540	590	9200	8600
22	340	490	500	—	—	340	345	490	725	620	680	9900	9400

垂直轴齿轮箱 Bevel-helical Gear Box 四级传动 Four Stage 卧式安装 Horizontal
类型 B4.H B4.M Types B4.H B4.M 规格 23...26 Sizes 23...26

H/B



1) $k_0 \leq \phi 50$ $m_0 > \phi 50$

有关平键GB/T1095-1979型和中心孔, 参见第88-89页。For parallel key GB/T1095-1979 and for centre hole, see page 88-89.

2) 键槽GB/T1095-1979。Keyway GB/T1095-1979.

3) 扭力支撑位于工作机侧。Torque support on driven machine side.

H/B系列



垂直轴齿轮箱 Bevel-helical Gear Box 四级传动 Four Stage 卧式安装 Horizontal
类型 B4.H B4.M Types B4.H B4.M 规格 23...26 Sizes 23...26

H/B

规格 Size	尺寸 mm Dimensions in mm								
	输入轴 Input								
	IN=80-180		IN=90-200		IN=100-224		IN=200-315		G1
	d1 ⁽¹⁾	l1	d1 ⁽¹⁾	l1	d1 ⁽¹⁾	l1	d1 ⁽¹⁾	l1	
23	90	165			70	140			2110
24			90	165			70	140	2175
25	110	205			80	170			2395
26			110	205			80	170	2485

规格 Size	尺寸 mm Dimensions in mm									
	齿轮箱 Gear box									
	a	b	c	c1	D5	e2	E	g	h	h1
23	2530	930	115	120±2	80	730	1505	342	780	770
24	2660	930	115	120±2	80	795	1570	342	780	770
25	2830	1045	130	120±2	90	790	1695	400	860	860
26	3010	1045	130	120±2	90	880	1785	400	860	860

规格 Size	尺寸 mm Dimensions in mm									
	齿轮箱 Gear box									
	h2	H	m1	m2	m3	n1	n2	n3	n4	s
23	790	1570	1085	1085	810	180	550	1725	580	56
24	790	1570	1085	1215	810	180	615	1790	580	56
25	860	1720	1215	1215	910	200	590	1965	660	66
26	860	1720	1215	1395	910	200	680	2055	680	66

规格 Size	尺寸 mm Dimensions in mm							润滑油 Lubrication		重量 Weight	
	输出轴 Output										
	B4SH			B4DH		B4DM		B4.H	B4.M	B4.H	B4.M
	d2 ⁽¹⁾	G2	l2	D3	D4	G4	G5	(L)	(L)	(kg)	(kg)
23	360	540	590	360	365	540	785	710	790	11600	10700
24	380	540	590	380	385	540	805	810	910	13500	12600
25	400	605	650	400	405	605	875	1000	1110	16100	15200
26	420	605	650	430	435	605	900	1100	1200	17600	16500

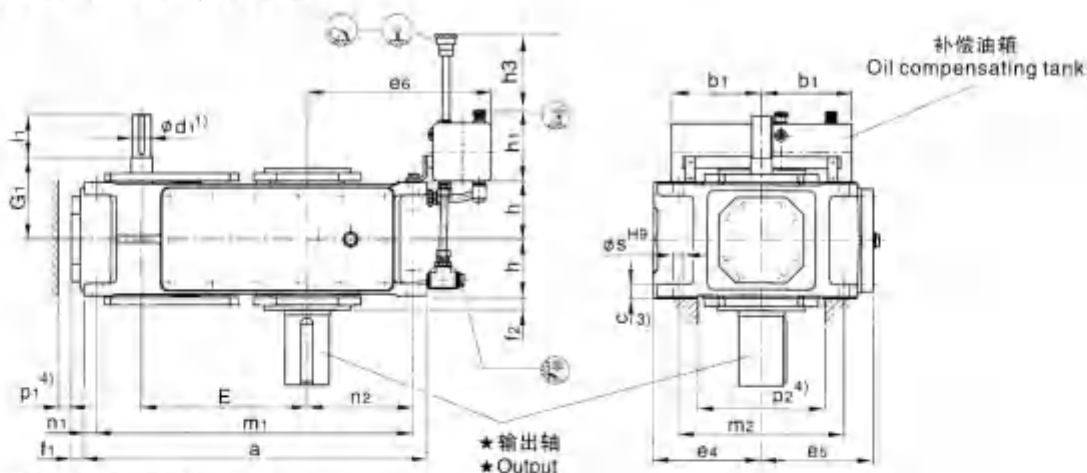
平行轴齿轮箱 Helical Gear Box
类型 H2.V Types H2.V

二级传动 Two Stage 立式安装 Vertical
规格 3..12 Sizes 3..12

H/B

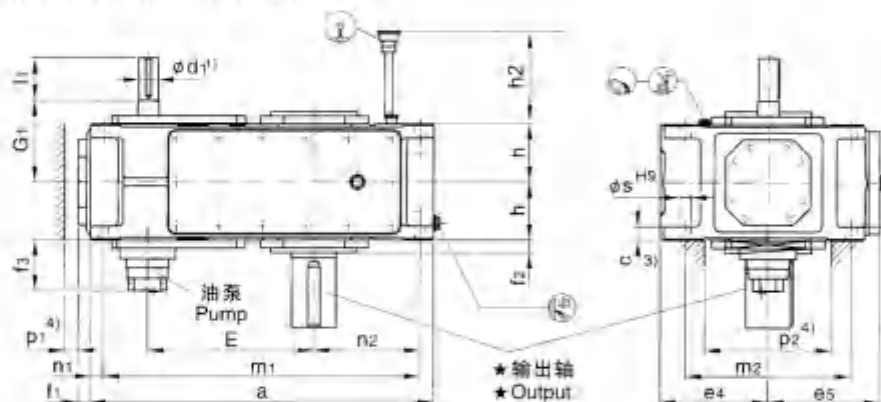
H2SV H2HV H2DV

采用浸油润滑 With dip lubrication



H2SV H2HV H2DV

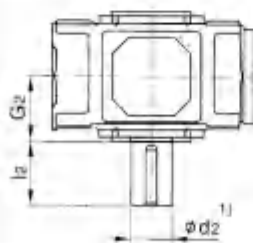
采用强制润滑 With forced lubrication



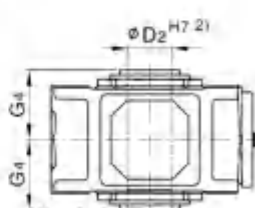
★ 输出轴 Output

布置形式 Design

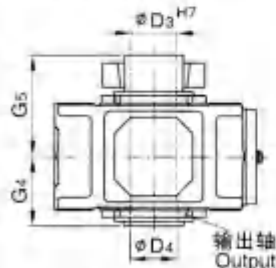
H2SV
实心轴
Solid shaft



H2HV
空心轴
Hollow shaft

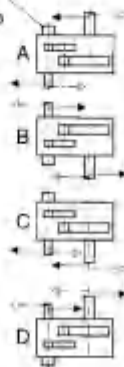


H2DV
带胀紧套的空心轴
Hollow shaft for shrink disk



布置形式 A+D 根据用户要求供货
Design A+D on request

油泵
Pump



1) $k_e \leq \phi 50$ $m_e > \phi 50$

有关平键GB/T1095-1979型和中心孔, 参见第88-89页。For parallel key GB/T1095-1979 and for centre hole, see page 88-89.

2) 键槽GB/T1095-1979。Keyway GB/T1095-1979.

3) 扭力支撑位于工作机侧。Torque support on driven machine side.

4) 有关油泵, 油管和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 dimension, please refer to us.

H/B系列



平行轴齿轮箱 Helical Gear Box 二级传动 Two Stage 立式安装 Vertical
 类型 H2.V Types H2.V 规格 3..12 Sizes 3..12

H/B

规格 Size	尺寸 mm Dimensions in mm							
	输入轴 Input							
	N=3, 11, 2		N=5-14		N=12.5-22.4		N=16-28	
	d1 ¹⁾	l1	d1 ¹⁾	l1	d1 ¹⁾	l1	d1 ¹⁾	l1
3	35	60			28	50		
4	45	100			32	80		
5	50	100			38	80		
6			50	100			38	80
7	60	135			50	110		
8			60	135			50	110
9	75	140			60	140		
10			75	140			60	140
11	90	165			70	140		
12			90	165			70	140

规格 Size	尺寸 mm Dimensions in mm									
	齿轮箱 Gear box									
	a	b1	c	a4	a5	a6	E	f1	f2	f3
3	450	150	24 ± 1	175	185	290	220	28	20	-
4	565	150	30 ± 1	200	215	320	270	28	22	-
5	640	240	30 ± 1	230	252	385	315	38	28	150
6	720	240	30 ± 1	230	252	425	350	38	28	150
7	785	240	36 ± 1	280	292	425	385	42	30	145
8	890	240	36 ± 1	280	302	485	430	42	32	145
9	925	330	45 ± 1.5	320	342	560	490	42	32	135
10	1025	330	45 ± 1.5	320	342	610	500	42	32	135
11	1105	330	54 ± 1.5	380	402	595	545	48	35	145
12	1260	330	54 ± 1.5	380	410	680	615	48	35	145

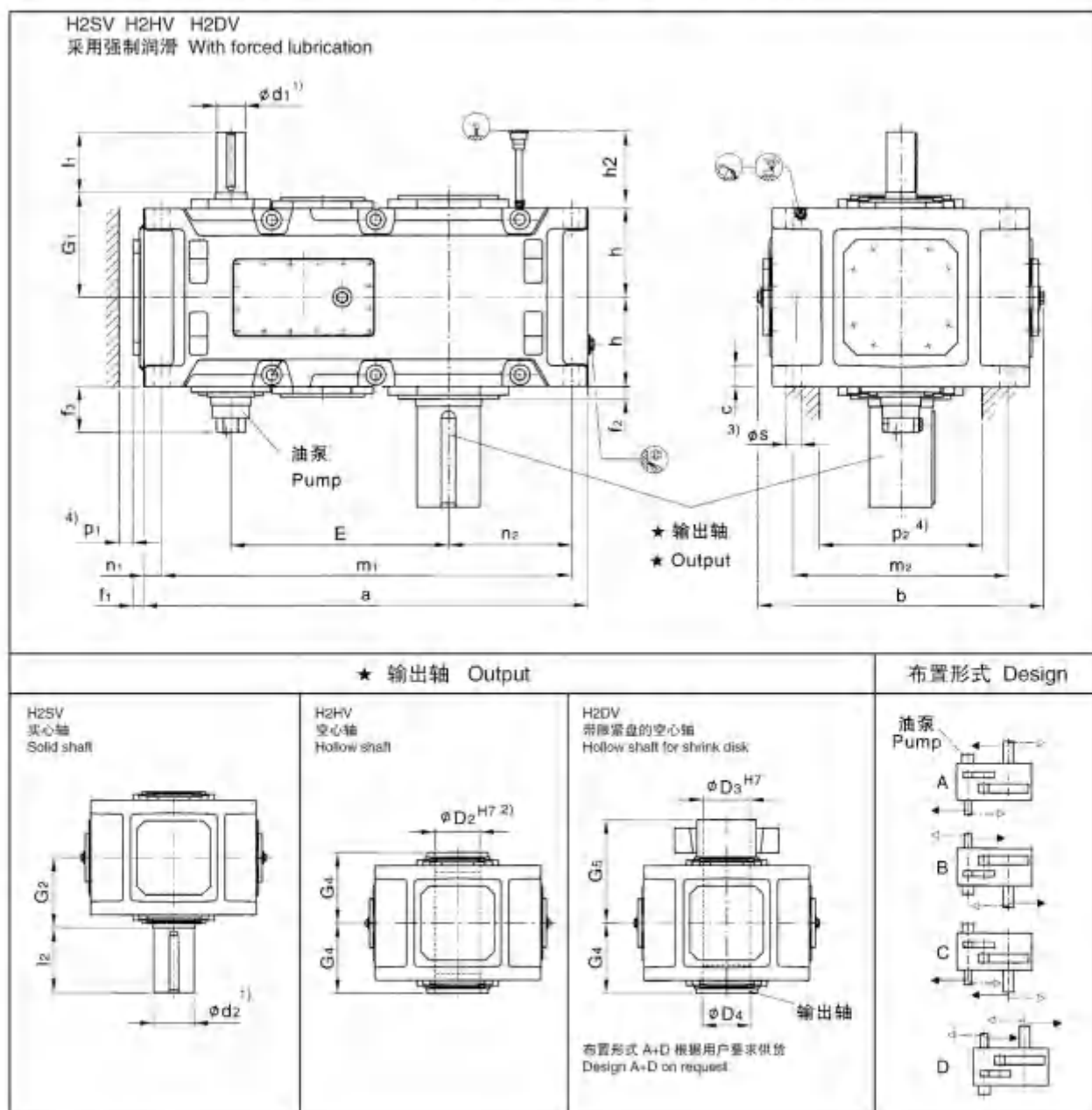
规格 Size	尺寸 mm Dimensions in mm										
	齿轮箱 Gear box										
	h	h1	h2	h3	m1	m2	n1	n2	p1 ¹⁾	p2 ¹⁾	±
3	95	165	-	180	410	255	20	125	35	210	18
4	107.5	165	-	180	505	300	30	160	35	220	24
5	127.5	205	190	240	580	360	30	175	35	270	24
6	127.5	205	190	240	580	360	30	220	35	270	24
7	150	205	165	250	715	430	35	215	35	330	28
8	150	205	165	250	820	430	35	275	35	330	28
9	185	275	205	330	845	490	40	280	40	370	36
10	185	275	205	330	945	490	40	310	40	370	36
11	215	275	240	340	1005	500	50	295	50	440	40
12	215	275	240	340	1160	500	50	380	50	440	40

规格 Size	尺寸 mm Dimensions in mm									润滑油 Lubrication		重量 Weight (kg)
	输出轴 Output									浸油润滑 Dip lubrication (L)	强制润滑 Forced lubrication (L)	
	H2SV			H2HV		H2OV						
	d2 ¹⁾	d2	f2	d2 ¹⁾	G4	D3	D4	G4	G5			
3	65	125	140	65	125	70	70	125	180	14	—	115
4	80	140	170	80	140	85	85	140	205	25	—	190
5	100	165	210	95	165	100	100	165	240	23	10	300
6	110	165	210	105	165	110	110	165	240	27	11	355
7	120	195	210	115	195	120	120	195	280	58	22	505
8	130	195	250	125	195	130	130	195	285	62	25	500
9	140	235	250	135	235	140	145	235	330	100	42	820
10	150	235	300	150	235	150	155	235	350	110	46	960
11	170	270	300	165	270	165	170	270	400	160	60	1335
12	180	270	300	180	270	180	185	270	405	180	70	1615

平行轴齿轮箱 Helical Gear Box
类型 H2.V Type H2.V

二级传动 Two Stage 立式安装 Vertical
规格 13...18 Sizes 13...18

H/B



1) $k_e \leq \phi 50$ $m_e > \phi 50$

有关平键GB/T1095-1979型和中心孔, 参见第88-89页。For parallel key GB/T1095-1979 and for centre hole, see page 88-89.

2) 键槽GB/T1095-1979, Keyway GB/T1095-1979.

3) 扭力支撑位于工作机侧。Torque support on driven machine side.

4) 有关油泵, 油管和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 dimension, please refer to us.

5) 规格13和15号速比只有 $iN=6.3-18$; 规格17号: $iN=6.3-16$ Size 13 and 15: only $iN=6.3-18$, Size 17: only $iN=6.3-16$

H/B系列



平行轴齿轮箱 Helical Gear Box
类型 H2.V Type H2.V

二级传动 Two Stage 立式安装 Vertical
规格 13...18 Sizes 13...18

H/B

规格 Size	尺寸 mm / Dimensions in mm												
	输入轴 Input												
	iN=6,3-11,2		iN=7,1-12,5		iN=8-14		iN=12,5-20		iN=14-22,4		iN=16-25		G1
d1 ⁽¹⁾	l1	d1 ⁽¹⁾	l1	d1 ⁽¹⁾	l1	d1 ⁽¹⁾	l1	d1 ⁽¹⁾	l1	d1 ⁽¹⁾	l1		
13	100	205					85	170					330
14					100	205					85	170	330
15	120	210					100	210					365
16			120	210					100	210			365
17	125	245					110	210					420
18			125	245					110	210			420
19							根据用户需求供货 On request						
20													
21													
22													

规格 Size	尺寸 mm Dimensions in mm																	
	齿轮箱 Gear box																	
	a	b	c	E	f1	f2	f3	h	h2	m1	m2	n1	n2	p1 ⁽⁴⁾	p2 ⁽⁴⁾	s		
13	1290	900	61±2	635	53	35	130	272.5	300	1195	680	50	360	50	500	48		
14	1430	900	61±2	705	53	35	130	272.5	300	1335	680	50	430	50	500	48		
15	1550	980	72±2	762	63	42	130	310	340	1435	750	60	430	50	570	55		
16	1640	980	72±2	808	63	42	130	310	340	1525	750	60	475	50	570	55		
17	1740	1110	81±2	860	60	42	170	340	374	1610	850	70	465	70	630	55		
18	1860	1110	81±2	920	60	42	170	340	374	1730	850	70	525	70	630	55		
19							根据用户要求供货 On request											
20																		
21																		
22																		

规格 Size	尺寸 mm Dimensions in mm									润滑油 Lubrication (L)	重量 Weight (kg)
	输出轴 Output										
	H2SV			H2HV ⁽¹⁾		H2DV ⁽²⁾					
	d2 ⁽¹⁾	G2	l2	D2 ⁽¹⁾	G4	D3	D4	G4	G5		
13	200	335	350	190	335	190	195	335	480	80	1880
14	210	335	350	210	335	210	215	335	480	90	2430
15	230	380	410	230	380	230	235	380	550	140	3240
16	240	380	410	240	380	240	245	380	550	150	3465
17	250	415	410	250	415	250	260	415	600	175	4420
18	270	415	470	275	415	280	285	415	600	185	4870
19					根据用户需求供货 On request						
20											
21											
22											

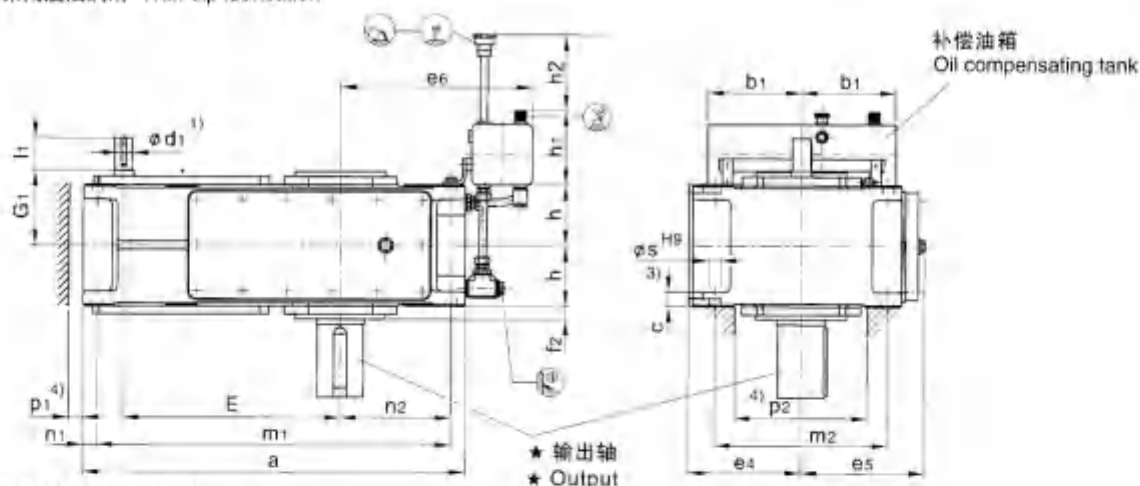
平行轴齿轮箱 Helical Gear Box
类型 H3.V Types H3.V

三级传动 Three Stage 立式安装 Vertical
规格 5...12 Sizes 5...12

H/B

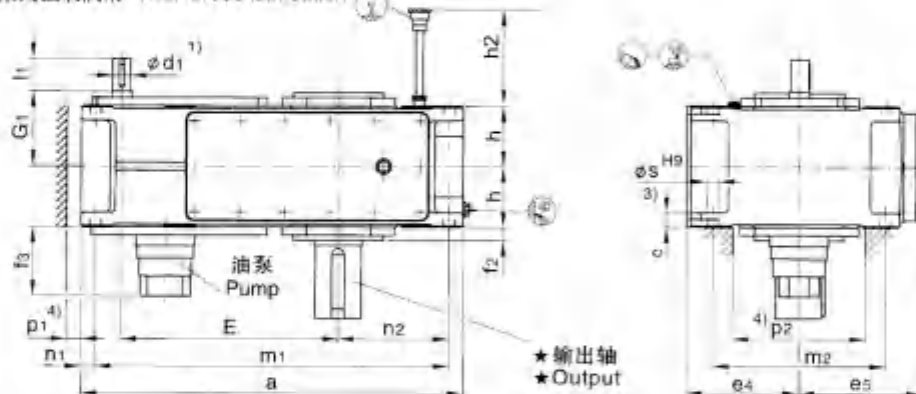
H3SV H3HV H3DV

采用浸油润滑 With dip lubrication



H3SV H3HV H3DV

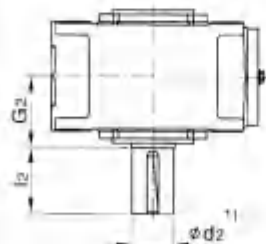
采用强制润滑 With forced lubrication



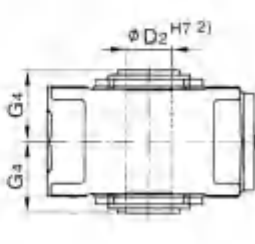
★ 输出轴 Output

布置形式 Design

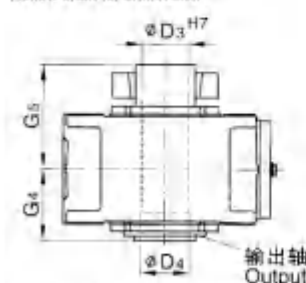
H3SV
实心轴
Solid shaft



H3HV
空心轴
Hollow shaft

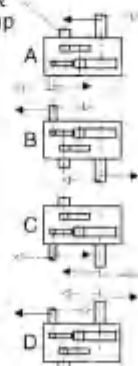


H3DV
带胀紧套的空心轴
Hollow shaft for shrink disk



布置形式 A+D 根据用户要求供货
Design A+D on request

油泵
Pump



1) $k_e \leq \phi 50$ $m_e > \phi 50$

有关平键GB/T1095-1979型和中心孔, 参见第88-89页。For parallel key GB/T1095-1979 and for centre hole, see page 88-89.

2) 键槽GB/T1095-1979。Keyway GB/T1095-1979.

3) 扭力支撑位于工作机侧。Torque support on driven machine side.

4) 有关油泵, 油管和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 dimension, please refer to us.

H/B系列



平行轴齿轮箱 Helical Gear Box
类型 H3.V Type H3.V

三级传动 Three Stage
规格 5...12 Sizes 5...12

立式安装 Vertical

H/B

规格 Size	尺寸 mm Dimensions in mm											
	输入轴 Input											
	IN=24-45		IN=31.5-56		IN=50-63		IN=63-80		IN=71-90		IN=90-112	
	d1 ¹⁾	l1	d1 ¹⁾	l1	d1 ¹⁾	l1	d1 ¹⁾	l1	d1 ¹⁾	l1	d1 ¹⁾	l1
5	40	70			30	50			24	40		
6			40	70			30	50			24	40
7	45	80			35	60			28	50		
8			45	80			35	60			28	50
9	60	125			45	100			32	80		
10			60	125			45	100			32	80
11	70	120			50	80			42	70		
12			70	120			50	80			42	70

规格 Size	尺寸 mm Dimensions in mm									
	齿轮箱 Gear box									
	a	b1	c	e4	e5	e6	E	l2	l3	h
5	690	240	30 ± 1	290	252	385	405	28	190	127.5
6	770	240	30 ± 1	290	252	425	440	28	190	127.5
7	845	240	35 ± 1	280	292	425	485	30	185	150
8	950	240	35 ± 1	280	312	485	540	32	185	150
9	1000	330	45 ± 1.5	320	342	560	580	32	170	185
10	1100	330	45 ± 1.5	320	342	610	630	32	170	185
11	1200	330	54 ± 1.5	380	402	595	705	35	170	215
12	1355	330	54 ± 1.5	380	410	680	775	35	170	215

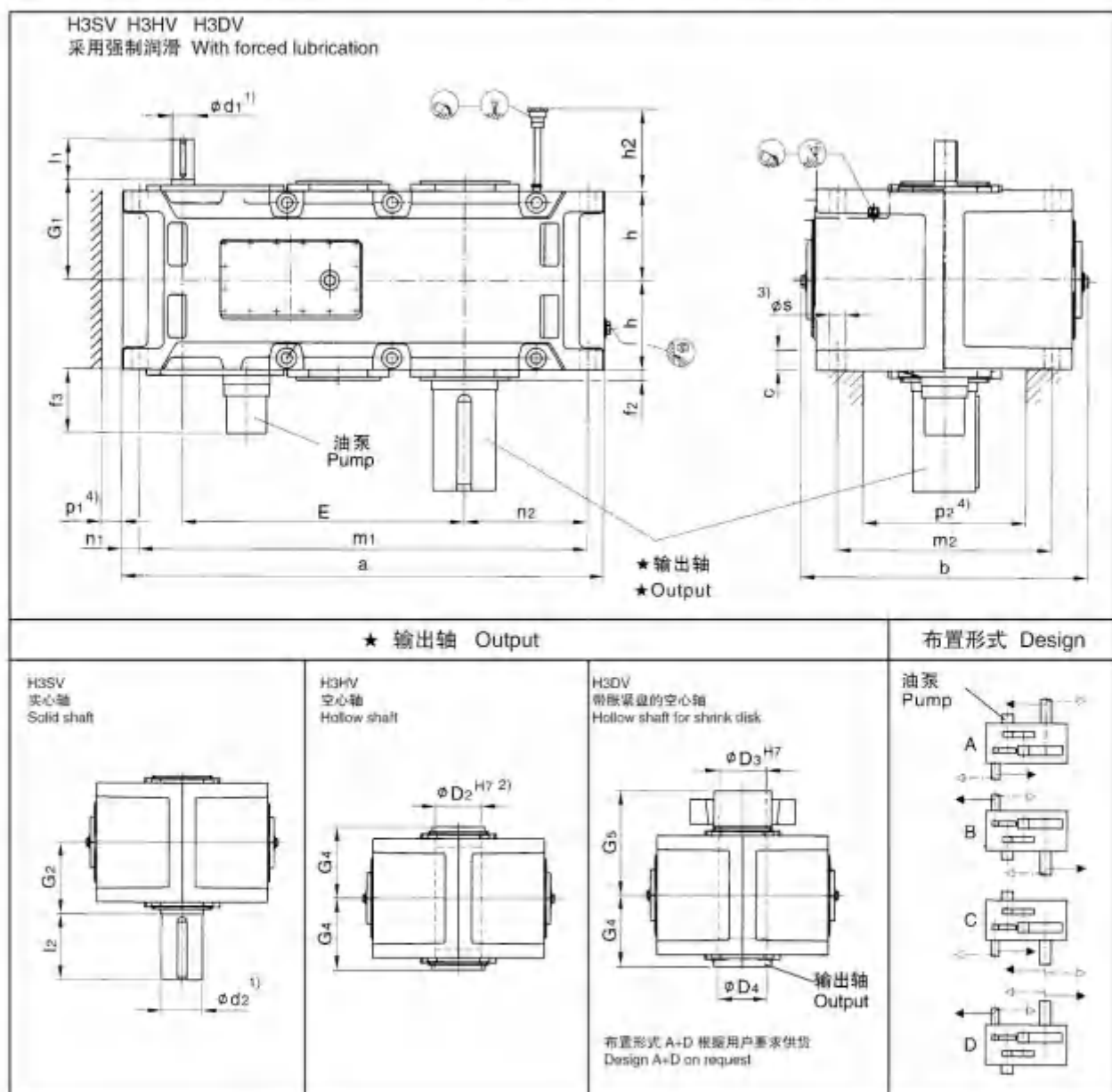
规格 Size	尺寸 mm Dimensions in mm									
	齿轮箱 Gear box									
	n1	h2	n3	m1	m2	n1	n2	p1 ¹⁾	p2 ¹⁾	s
5	205	190	240	630	360	30	175	35	270	24
6	205	190	240	710	360	30	220	35	270	24
7	205	165	250	775	430	35	215	35	330	28
8	205	165	250	880	430	35	275	35	330	28
9	275	205	330	920	490	40	260	40	370	36
10	275	205	330	1020	490	40	310	40	370	36
11	275	240	340	1100	600	50	295	50	440	40
12	275	240	340	1255	600	50	380	50	440	40

规格 Size	尺寸 mm Dimensions in mm									润滑油 Lubrication		重量 Weight (kg)
	输出轴 Output									浸油润滑 Dip lubrication (L)	强制润滑 Forced lubrication (L)	
	H3SV			H3HV		H3DV						
	d2 ¹⁾	G2	l2	D2 ¹⁾	G4	D3	D4	G4	G5			
5	100	165	210	95	165	100	100	165	240	35	13	320
6	110	165	210	105	165	110	110	165	240	37	15	385
7	120	195	210	115	195	120	120	195	280	60	25	540
8	130	195	250	125	195	130	130	195	285	72	30	625
9	140	235	250	135	235	140	145	235	330	100	40	875
10	160	235	300	150	235	150	155	235	350	110	45	1020
11	170	270	300	165	270	166	170	270	400	170	66	1400
12	180	270	300	180	270	180	185	270	405	190	75	1675

平行轴齿轮箱 Helical Gear Box
类型 H3.V Type H3.V

三级传动 Three Stage 立式安装 Vertical
规格 13...18 Sizes 13...18

H/B



1) $k_e \leq \phi 50$ $m_e > \phi 50$

有关平键GB/T1095-1979型和中心孔, 参见第88-89页。For parallel key GB/T1095-1979 and for centre hole, see page 88-89.

2) 键槽GB/T1095-1979, Keyway GB/T1095-1979.

3) 扭力支撑位于工作机侧。Torque support on driven machine side.

4) 有关油泵, 油管和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 dimension, please refer to us.

H/B系列



平行轴齿轮箱 Helical Gear Box
类型 H3.V Type H3.V

三级传动 Three Stage 立式安装 Vertical
规格 13...18 Sizes 13...18

H/B

规格 Size	尺寸 mm Dimensions in mm															
	输入轴 Input															
	IN=22.4-45		IN=25-50		IN=28-56		IN=50-63		IN=56-71		IN=63-80		IN=71-90		IN=80-100	
	d1 ¹⁾	l1	d1 ¹⁾	l1	d1 ¹⁾	l1	d1 ¹⁾	l1	d1 ¹⁾	l1	d1 ¹⁾	l1	d1 ¹⁾	l1	d1 ¹⁾	l1
13	85	160					60	135					50	110		
14					85	160					60	135			50	110
15	100	200					75	140					60	140		
16			100	200					75	140					60	140
17	100	200					75	140					60	140		
18			100	200					75	140					60	140
19																
20																
21																
22																

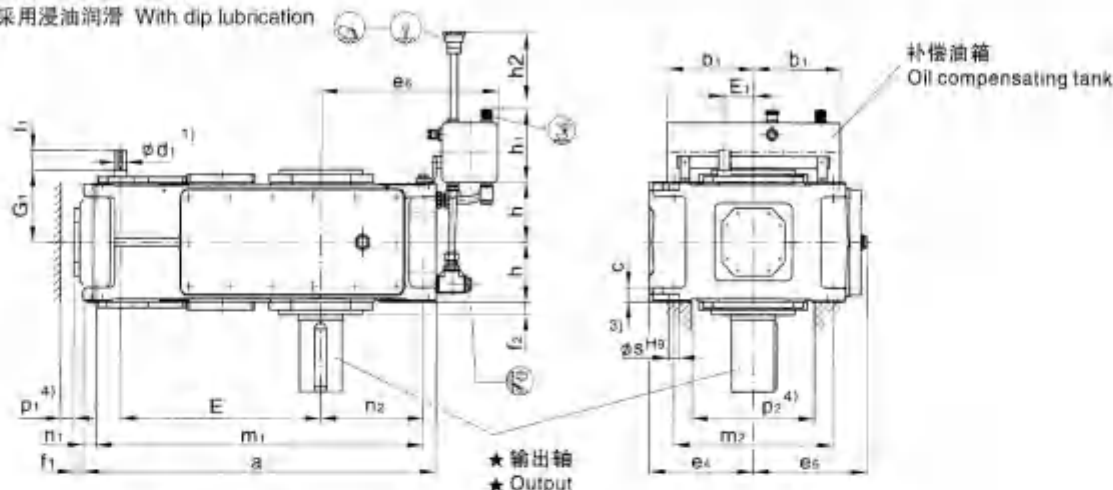
规格 Size	尺寸 mm Dimensions in mm													
	齿轮箱 Gear box													
	a	b	c	E	f2	f3	h	h2	m1	m2	n1	n2	p1 ¹⁾	p2 ¹⁾
13	1395	900	61±2	820	35	170	272.5	300	1300	680	50	360	50	500
14	1535	900	61±2	890	35	170	272.5	300	1440	680	50	430	50	500
15	1680	980	72±2	987	42	170	310	340	1565	750	60	430	50	570
16	1770	980	72±2	1035	42	170	310	340	1655	750	60	475	50	570
17	1770	1110	81±2	1035	42	210	340	374	1640	850	70	465	70	630
18	1890	1110	81±2	1095	42	210	340	374	1760	850	70	525	70	630
19														
20														
21														
22														

规格 Size	尺寸 mm Dimensions in mm									润滑油 Lubrication (L)	重量 Weight (kg)
	输出轴 Output										
	H3SV			H3HV		H3DV					
	d2 ¹⁾	G2	l2	D2 ²⁾	G4	D3	D4	G4	G5		
13	200	335	350	190	335	190	195	335	480	115	2155
14	210	335	350	210	335	210	215	335	480	126	2490
15	230	380	410	230	380	230	235	380	550	180	3260
16	240	380	410	240	380	240	245	380	550	190	3625
17	250	415	410	250	415	250	260	415	600	190	4250
18	270	415	470	275	415	280	285	415	600	200	4740
19					根据用户需求供货 On request						
20											
21											
22											

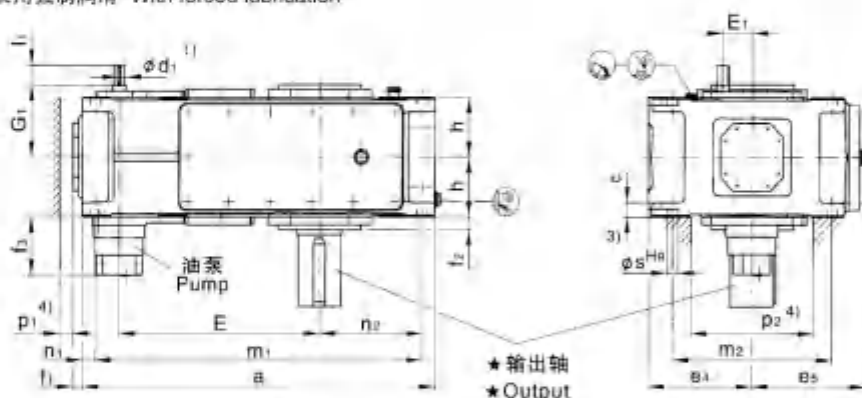
平行轴齿轮箱 Helical Gear Box
类型 H4.V Types H4.V

四级传动 Four Stage 立式安装 Vertical
规格 7...12 Sizes 7...12

H4SV H4HV H4DV
采用浸油润滑 With dip lubrication



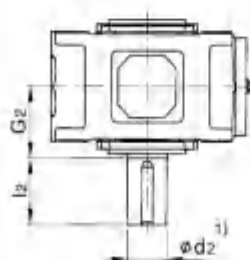
H4SV H4HV H4DV
采用强制润滑 With forced lubrication



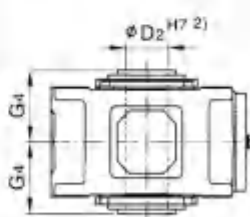
★ 输出轴 Output

布置形式 Design

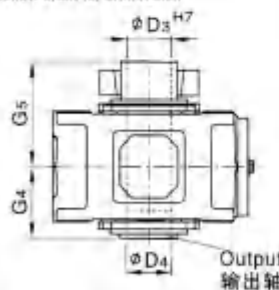
H45V
实心轴
Solid shaft



H4HV
空心轴
Hollow shaft

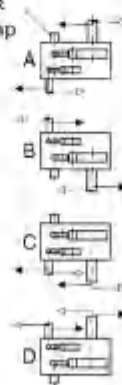


H4DV
帶壓緊盤的空心軸
Hollow shaft for shrink disk



有賣形式 A+D 根據用戶要求供貨
Design A+D on request

油泵
Pump

1.) $k_e \leq \Phi 50$ $m_e > \Phi 50$

有关平键GB/T1095-1979型和中心孔, 参见第88-89页。For parallel key GB/T1095-1979 and for centre hole, see page 88-89.

2) 键槽GB/T1095-1979。Keyway GB/T1095-1979.

3) 扭力支撐位于工作機側。Torque support on driven machine side.

4) 有关油泵、油管 and 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 dimension, please refer to us.

H/B系列



平行轴齿轮箱 Helical Gear Box
类型 H4.V Types H4.V

四级传动 Four Stage 立式安装 Vertical
规格 7...12 Sizes 7...12

H/B

规格 Size	尺寸 mm Dimensions in mm							
	输入轴 Input							
	iN=100-160		iN=125-224		iN=200-355		iN=250-450	
	d1 ¹⁾	l1	d1 ¹⁾	l1	d1 ¹⁾	l1	d1 ¹⁾	l1
7	30	50			24	40		
8			30	50			24	40
9	35	60			28	50		
10			35	60			28	50
11	45	100			32	80		
12			45	100			32	80

规格 Size	尺寸 mm Dimensions in mm										
	齿轮箱 Gear box										
	a	b1	c	e4	e5	e6	E	E1	l1	l2	l3
7	845	240	36 ± 1	280	292	425	495	80	37	30	160
8	950	240	36 ± 1	280	302	485	540	80	37	32	160
9	1000	330	45 ± 1.5	320	342	560	580	90	43	32	170
10	1100	330	45 ± 1.5	320	342	610	630	90	43	32	170
11	1200	330	54 ± 1.5	380	402	595	705	110	47	35	170
12	1355	330	54 ± 1.5	380	410	680	775	110	47	35	170

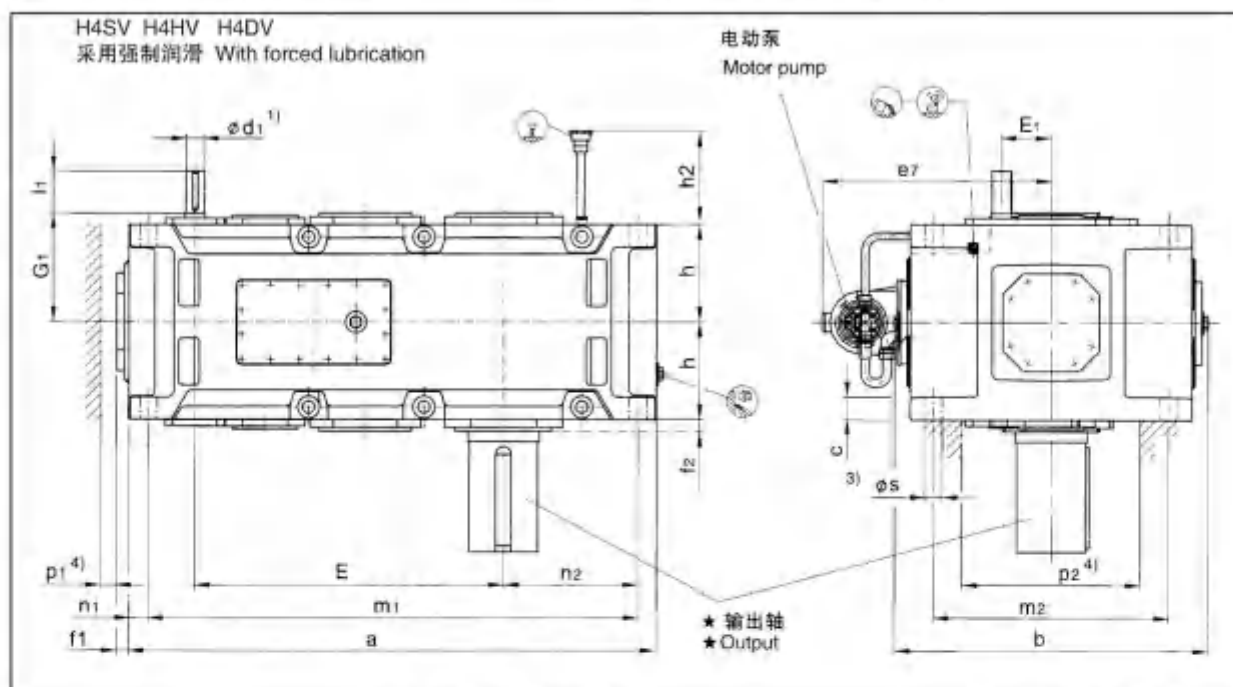
规格 Size	尺寸 mm Dimensions in mm										
	齿轮箱 Gear box										
	h	h1	h2	h3	m1	m2	n1	n2	p1 ¹⁾	p2 ¹⁾	s
7	150	205	165	250	775	430	35	215	35	330	28
8	150	205	165	250	880	430	35	275	35	330	28
9	185	275	205	330	920	490	40	260	40	370	36
10	185	275	205	330	1020	490	40	310	40	370	36
11	215	275	240	340	1100	600	50	295	50	440	40
12	215	275	240	340	1255	600	50	380	50	440	40

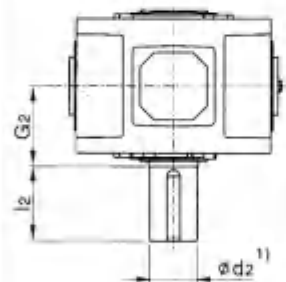
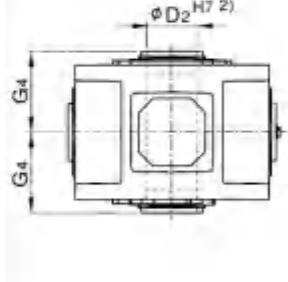
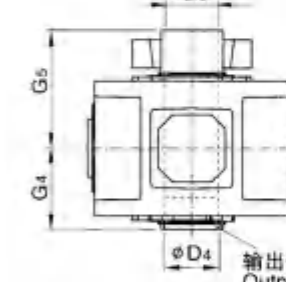
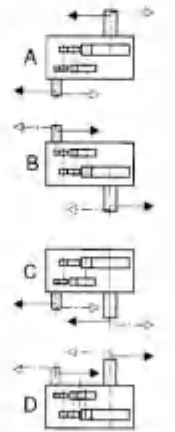
规格 Size	尺寸 mm Dimensions in mm									润滑油 Lubrication		重量 Weight (kg)
	输出轴 Output									浸油润滑 Dip lubrication (L)	强制润滑 Forced lubrication (L)	
	H4SV			H4HV		H4DV						
	d2 ¹⁾	G2	l2	D2 ²⁾	G4	D3	D4	G4	G5			
7	120	195	210	115	195	120	120	195	280	50	20	550
8	130	195	250	125	195	130	130	195	285	60	25	645
9	140	235	250	135	235	140	145	235	330	95	38	875
10	160	235	300	160	235	150	155	235	350	110	45	1010
11	170	270	300	165	270	165	170	270	400	165	65	1460
12	180	270	300	180	270	180	185	270	405	180	75	1725

平行轴齿轮箱 Helical Gear Box
类型 H4.V Types H4.V

四级传动 Four Stage 立式安装 Vertical
规格 13...18 Sizes 13...18

H/B



★ 输出轴 Output			布置形式 Design
H4SV 实心轴 Solid shaft 	H4HV 空心轴 Hollow shaft 	H4DV 带胀紧套的空心轴 Hollow shaft for shrink disk  输出轴 Output 布置形式 A-D 根据用户要求供货 Design A-D on request	

1) $k_e \leq \Phi 50$ $m_e > \Phi 50$

有关平键GB/T1095-1979型和中心孔, 参见第88-89页。For parallel key GB/T1095-1979 and for centre hole, see page 88-89.

2) 键槽GB/T1095-1979. Keyway GB/T1095-1979.

3) 扭力支撑位于工作机侧。Torque support on driven machine side.

4) 有关油泵, 油管和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 dimension, please refer to us.

H/B系列



平行轴齿轮箱 Helical Gear Box
类型 H4.V Types H4.V

四级传动 Four Stage 立式安装 Vertical
规格 13...18 Sizes 13...18

H/B

规格 Size	尺寸 mm Dimensions in mm												
	输入轴 Input												
	iN=100-180		iN=112-200		iN=125-224		iN=200-355		iN=224-400		iN=250-450		G1
	d1 ⁽¹⁾	l1	d1 ⁽¹⁾	l1	d1 ⁽¹⁾	l1	d1 ⁽¹⁾	l1	d1 ⁽¹⁾	l1	d1 ⁽¹⁾	l1	
13	50	100					38	80					305
14					50	100					38	80	305
15	60	135					50	110					345
16			60	135					50	110			345
17	60	105					50	80					380
18			60	105					50	80			380
19							根据用户要求供货 On request						
20													
21													
22													

规格 Size	尺寸 mm Dimensions in mm																			
	齿轮箱 Gear box																			
	a	b	c	e7	E	E1	f1	f2	h	h2	m1	m2	n1	n2	p1 ⁽¹⁾	p2 ⁽¹⁾	s			
13	1395	900	61 ± 2	695	820	130	47	35	272.5	300	1300	680	50	360	50	500	48			
14	1535	900	61 ± 2	695	890	130	47	35	272.5	300	1440	680	50	430	50	500	48			
15	1680	980	72 ± 2	735	987	160	56	42	310	340	1565	750	60	430	50	570	55			
16	1770	980	72 ± 2	735	1033	160	56	42	310	340	1655	750	60	475	50	570	55			
17	1770	1110	81 ± 2	795	1035	160	53	42	340	374	1640	850	70	465	70	630	55			
18	1890	1110	81 ± 2	795	1095	160	53	42	340	374	1760	850	70	525	70	630	55			
19								根据用户要求供货 On request												
20																				
21																				
22																				

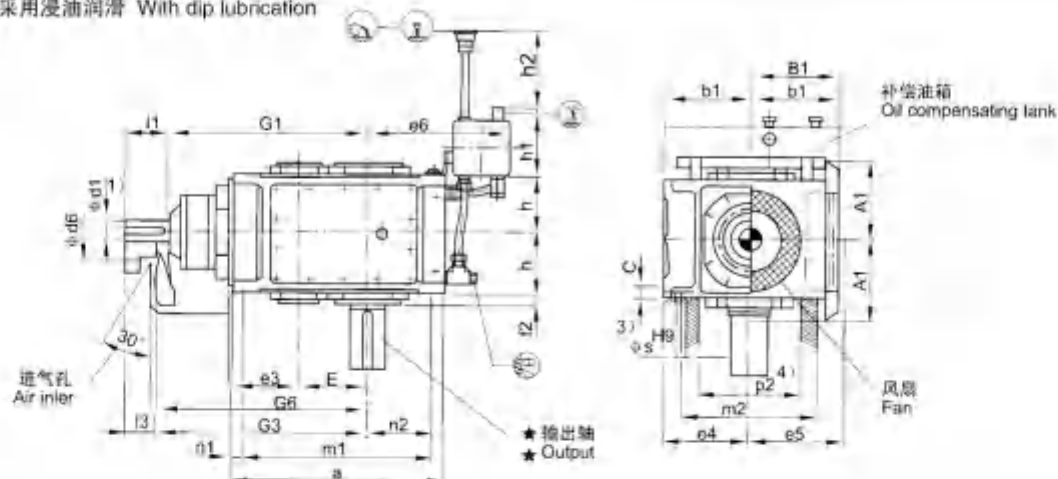
规格 Size	尺寸 mm Dimensions in mm									润滑油 Lubrication (L)	重量 Weight (kg)
	输出轴 Output										
	H4SV			H4HV		H4DV					
	d2 ⁽¹⁾	G2	l2	D2 ⁽¹⁾	G4	D3	D4	G4	G5		
13	200	335	350	190	335	190	195	335	480	95	2270
14	210	335	350	210	335	210	215	335	480	105	2600
15	230	380	410	230	380	230	235	380	550	150	3440
16	240	380	410	240	380	240	245	380	550	160	3740
17	250	415	410	250	415	250	260	415	600	190	4445
18	270	415	470	275	415	280	285	415	600	200	4915
19					根据用户需求供货 On request						
20											
21											
22											

垂直轴齿轮箱 Bevel-helical Gear Box
类型 B2.V Types B2.V

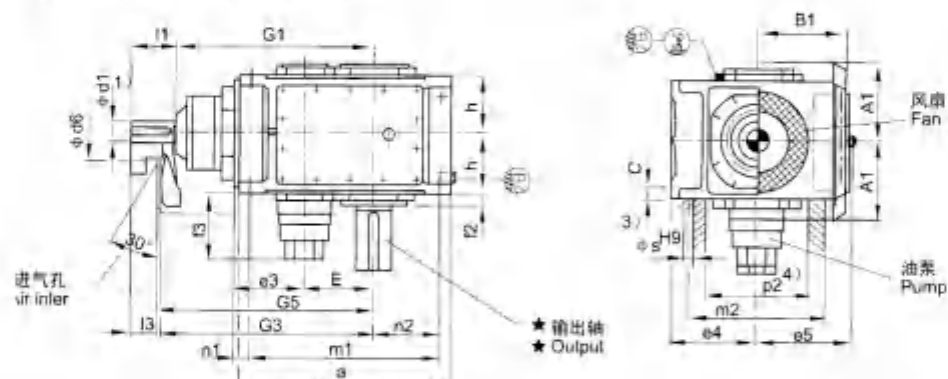
二级传动 Two Stage 立式安装 Vertical
规格 1...12 Sizes 1...12

H/B

B2SV B2HV B2DV
采用浸油润滑 With dip lubrication



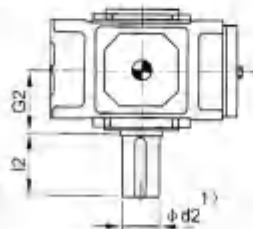
B2SV B2HV B2DV
采用强制润滑 With forced lubrication



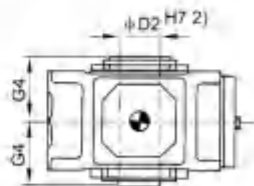
★ 输出轴 Output

布置形式 Design

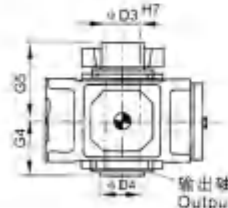
B2SV
实心轴
Solid shaft



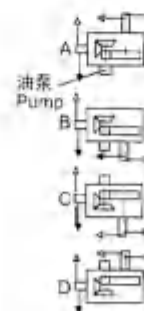
B2HV
空心轴
Hollow shaft



B2DV
带紧套的空心轴
Hollow shaft for shrink disk



布置形式 A+D 根据用户需求供货
Design A+D on request



1) $k_0 \leq \phi 50$ $m_0 > \phi 50$

有关平键GB/T1095-1979型和中心孔, 参见第88-89页。For parallel key GB/T1095-1979 and for centre hole, see page 88-89.

2) 键槽GB/T1095-1979。Keyway GB/T1095-1979.

3) 拉力支撑位于工作机侧。Torque support on driven machine side.

4) 有关油泵, 油管和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 dimension, please refer to us.

H/B系列



垂直轴齿轮箱 Bevel-helical Gear Box
类型 B2.V Type B2.V

二级传动 Two Stage 立式安装 Vertical
规格 1...12 Sizes 1...12

H/B

规格 Size	尺寸 mm Dimensions in mm										
	输入轴 Input										
	IN=5-11.2			IN=6.3-14			IN=12.5-18			G1	G3
d1 ¹⁾	f1	f3	d1 ¹⁾	f1	f3	d1 ¹⁾	f1	f3			
1	28	55	40				20	50	35	300	315
2	30	70	50				25	60	40	340	360
3	35	80	60				28	80	40	390	410
4	45	100	80							465	485
5	55	110	80							535	565
6				55	110	80				570	600
7	70	135	105							640	670
8				70	135	105				685	715
9	80	165	130							735	790
10				80	165	130				805	840
11	90	165	130							925	960
12				90	165	130				995	1030

规格 Size	尺寸 mm Dimensions in mm											
	齿轮箱 Gear box											
	a	A1	b1	B1	c	d6	d3	a4	a5	a6	L	l2
1	305	128	150	130	16±1	100	90	130	145	280	90	22
2	355	143	150	145	20±1	110	110	145	160	285	110	22
3	405	163	150	170	24±1	120	130	175	185	290	130	24
4	505	188	150	200	30±1	150	180	200	215	320	160	26
5	565	215	240	235	30±1	160	185	230	252	385	185	30
6	645	215	240	235	30±1	160	185	230	252	425	220	30
7	690	250	240	285	36±1	210	225	280	302	425	225	32
8	795	250	340	285	36±1	210	225	250	302	485	270	32
9	820	270	330	325	48±1.5	195	265	320	342	560	285	45
10	920	270	330	325	48±1.5	195	265	320	342	610	315	45
11	975	328	330	395	54±1.5	210	320	380	410	595	320	47
12	1130	328	330	395	54±1.5	210	320	380	410	680	390	47

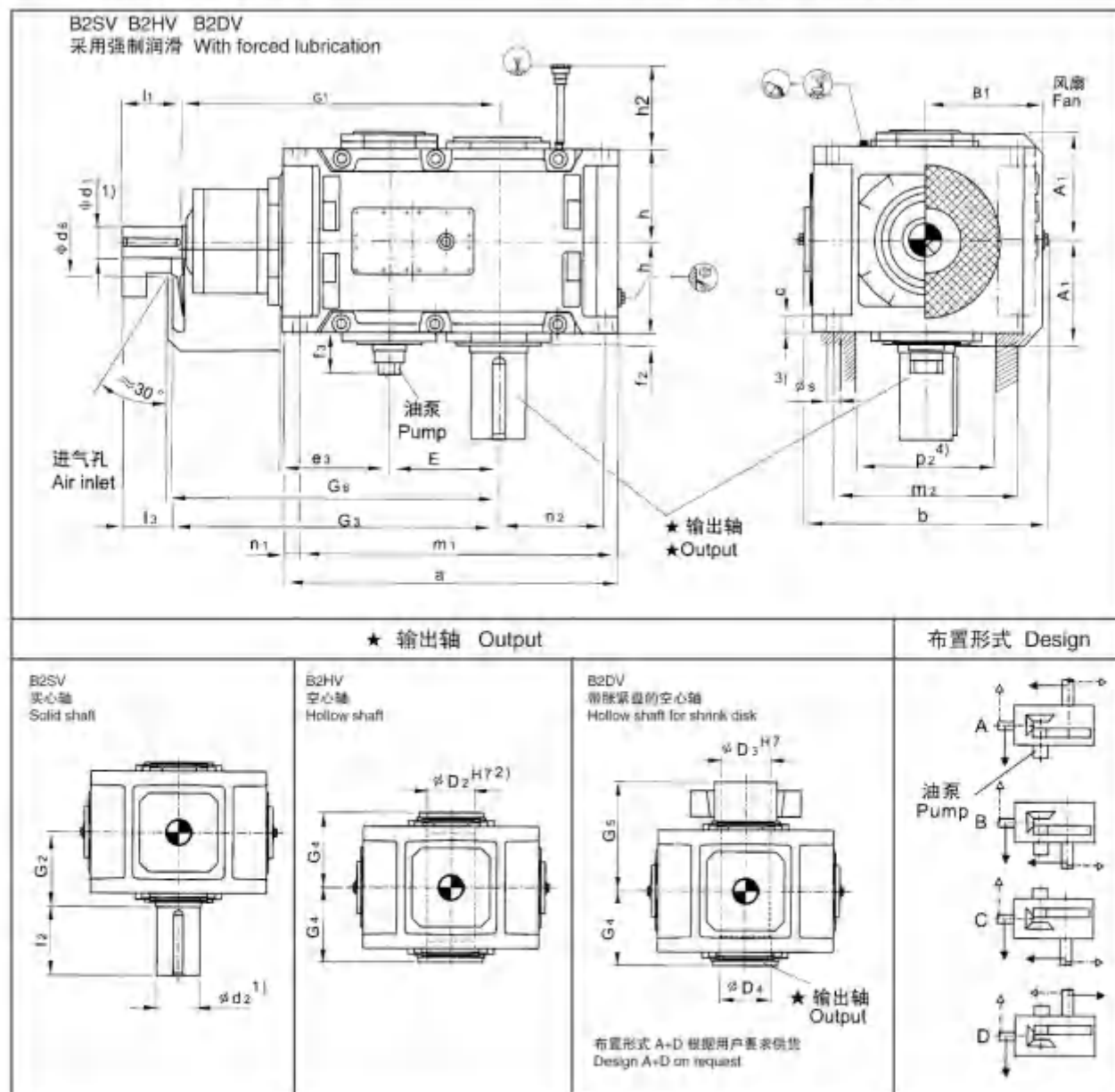
规格 Size	尺寸 mm Dimensions in mm											
	齿轮箱 Gear box											
	l3	G6	h	h1	h2	h3	m1	m2	n1	n2	p2 ²⁾	s
1	-	325	90	165	-	170	275	210	15	115	150	12
2	-	370	102.5	165	-	170	315	315	20	120	170	14
3	-	420	112.5	165	-	180	365	365	20	130	200	16
4	-	495	135	165	-	180	445	300	30	180	220	24
5	190	575	160	205	245	240	505	360	30	175	270	24
6	190	610	160	205	245	240	585	360	30	220	270	24
7	200	685	190	205	230	250	620	430	35	215	330	26
8	200	730	190	205	220	250	725	430	35	275	330	26
9	200	805	220	275	250	330	740	490	40	280	370	36
10	200	855	220	275	250	330	840	490	40	310	370	36
11	300	980	265	275	300	340	875	600	50	295	440	40
12	300	1050	265	275	300	340	1030	600	50	380	440	40

规格 Size	尺寸 mm Dimensions in mm									润滑油 Lubrication		重量 Weight (kg)
	输出轴 Output									浸油润滑 Dip lubrication (L)	强制润滑 Forced lubrication (L)	
	B2SV			B2HV		B20V						
	d2 ¹⁾	G2	G2	D2 ¹⁾	G4	D3	D4	G4	G5			
1	45	120	80	-	-	-	-	-	-	7	-	65
2	55	135	110	55	135	60	60	135	180	11	-	90
3	65	145	140	65	145	70	70	145	200	16	-	140
4	80	170	170	80	170	85	85	170	235	28	-	235
5	100	200	210	95	200	100	100	200	275	41	20	360
6	110	200	210	105	200	110	110	200	275	50	23	410
7	120	235	210	115	235	120	120	235	320	75	35	615
8	130	235	250	125	235	130	150	235	320	90	36	700
9	140	270	250	135	270	140	145	270	360	115	50	1000
10	160	270	300	150	270	150	155	270	385	135	60	1155
11	170	320	300	165	320	165	170	320	450	190	86	1640
12	190	320	300	180	320	180	185	320	455	215	95	1910

垂直轴齿轮箱 Bevel-helical Gear Box
类型 B2.V Types B2.V

二级传动 Two Stage 立式安装 Vertical
规格 13...18 Sizes 13...18

H/B



1) $k_e \leq \Phi 50$ $m_e > \Phi 50$

有关平键GB/T1095-1979型和中心孔, 参见第88-89页。For parallel key GB/T1095-1979 and for centre hole, see page 88-89.

2) 键槽GB/T1095-1979。Keyway GB/T1095-1979.

3) 扭力支撑位于工作机侧。Torque support on driven machine side.

4) 有关油泵, 油管和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 dimension, please refer to us.

H/B系列



垂直轴齿轮箱 Bevel-helical Gear Box
类型 B2.V Type B2.V

二级传动 Two Stage 立式安装 Vertical
规格 13...18 Sizes 13...18

H/B

规格 Size	尺寸 mm Dimensions in mm														
	输入轴 Input														
	iN=5-11.2			iN=5.6-11.2			iN=5.6-12.5			iN=6.3-14			iN=7.1-12.5		
	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3
13	110	205	165												
14										110	205	165			
15	130	245	200												
16							130	245	200						
17				150	245	200									
18													150	245	200

规格 Size	尺寸 mm Dimensions in mm									
	齿轮箱 Gear box									
	a	A1	b	B1	c	d6	e3	E	f2	l3
13	1130	375	900	450	61 ± 2	245	380	370	38	200
14	1270	375	900	450	61 ± 2	245	380	440	45	200
15	1350	435	980	495	72 ± 2	280	450	442	75	200
16	1440	435	980	495	72 ± 2	280	450	488	75	200
17	1490	505	1110	555	81 ± 2	380	510	490	98	200
18	1610	505	1110	555	81 ± 2	380	510	550	98	200

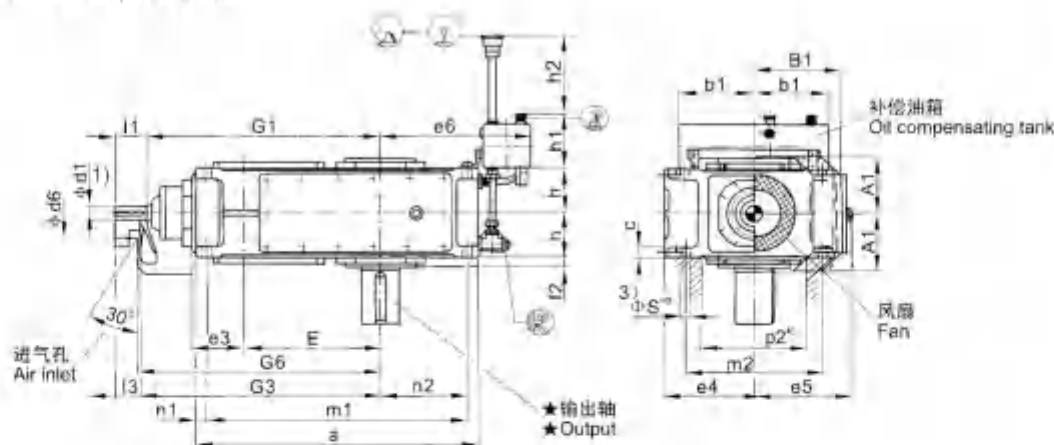
规格 Size	尺寸 mm Dimensions in mm							
	齿轮箱 Gear box							
	G6	h	h2	m1	m2	n1	n2	p2 ²⁾
13	1130	325	350	1035	680	50	360	500
14	1200	325	350	1175	680	50	430	500
15	1340	380	430	1235	750	60	430	570
16	1385	380	430	1325	750	60	475	570
17	1500	437.5	480	1360	840	70	465	630
18	1560	437.5	480	1480	840	70	525	630

规格 Size	尺寸 mm Dimensions in mm									
	输出轴 Output									
	B2SV			B2HV		B2DV				
	d2 ¹⁾	G2	l2	D2 ²⁾	G4	D3	D4	G4	G5	
13	200	390	350	—	—	—	—	—	—	100
14	210	390	350	210	390	210	215	390	535	110
15	230	460	410	—	—	—	—	—	—	145
16	240	460	410	240	450	240	245	450	620	160
17	250	540	410	—	—	—	—	—	—	210
18	270	540	470	275	510	280	285	510	700	220

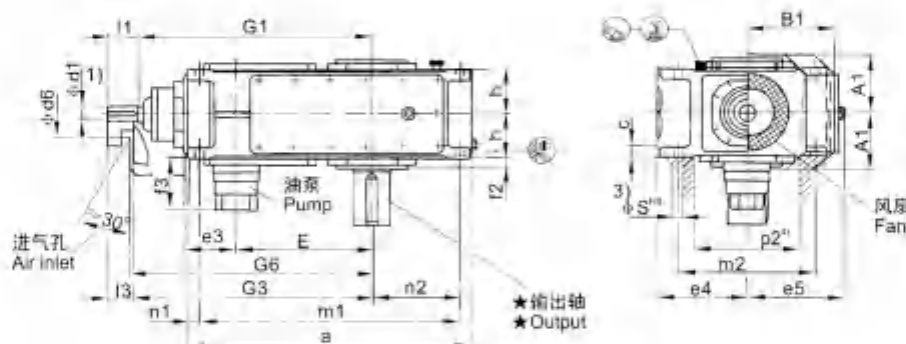
垂直轴齿轮箱 Bevel-helical Gear Box
类型 B3.V Type B3.V

三级传动 Three Stage 立式安装 Vertical
规格 3...12 Sizes 3...12

B3SV B3HV B3DV
采用浸油润滑 With dip lubrication



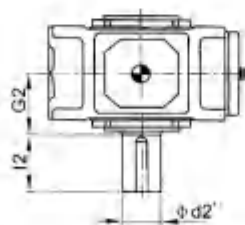
B3SV B3HV B3DV
采用强制润滑 With forced lubrication



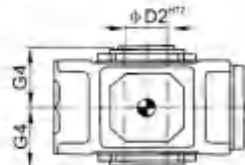
★ 输出轴 Output

布置形式 Design

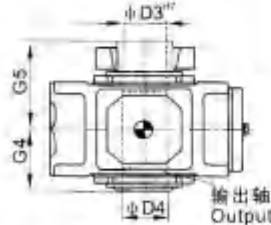
B3SV
实心轴
Solid shaft



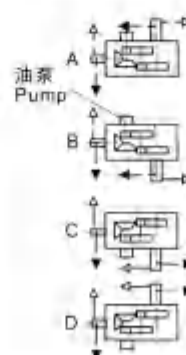
B3HV
空心轴
Hollow shaft



B3DV
带紧套的空心轴
Hollow shaft for shrink disk



布置形式 A+D 根据用户需求供货
Design A+D on request



1) $k_b \leq \phi 50$ $m_b > \phi 50$

有关平键GB/T1095-1979型和中心孔, 参见第88-89页。For parallel key GB/T1095-1979 and for centre hole, see page 88-89.

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3) 扭力支撑位于工作机侧。Torque support on driven machine side.

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H/B系列



垂直轴齿轮箱 Bevel-helical Gear Box
类型 B3.V Type B3.V

三级传动 Three Stage 立式安装 Vertical
规格 3..12 Sizes 3..12

H/B

规格 Size	尺寸 mm Dimensions in mm														
	输入轴 Input														
	IN=12-45			IN=16-55			IN=20-65			IN=50-71			IN=83-90		
	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3	d1 ¹⁾	l1	l3
3							28	55	40	20	50	35		430	445
4	30	70	50							25	60	40		500	520
5	35	80	60							28	60	40		575	595
6				35	80	60							28	60	40
7	45	100	80							35	80	60		690	710
8				45	100	80							35	80	60
9	55	110	80							40	100	70		800	830
10				55	110	80							40	100	70
11	70	135	105							50	110	90		980	990
12				70	135	105							50	110	90

规格 Size	尺寸 mm Dimensions in mm											
	齿轮箱 Gear box											
	a	a1	D1	B1	C	d5	d2	e4	e5	e6	E	Q
3	450	128	150	170	24±1	90	90	175	185	290	220	20
4	565	143	150	200	30±1	110	110	200	215	320	270	22
5	640	168	240	295	30±1	130	130	230	252	385	315	26
6	720	168	340	285	30±1	130	130	230	262	425	350	28
7	785	193	240	275	36±1	165	160	280	292	425	365	30
8	890	193	240	275	36±1	165	160	280	302	485	430	32
9	925	231	330	325	45±1.5	175	185	320	342	560	450	32
10	1025	231	330	325	45±1.5	175	185	320	342	610	500	32
11	1105	263	330	385	54±1.5	190	225	380	402	595	545	35
12	1260	263	330	385	54±1.5	190	225	380	410	680	615	35

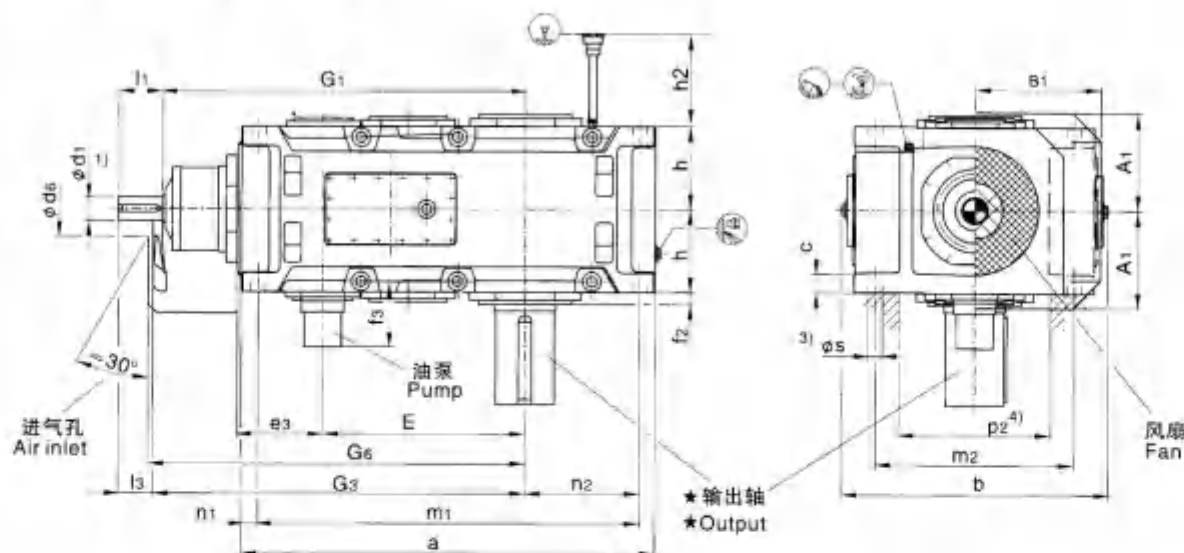
规格 Size	尺寸 mm Dimensions in mm											
	齿轮箱 Gear box											
	B3	G6	h	h1	h2	l3	m1	m2	n1	n2	p2 ¹⁾	s
3	-	455	95	165	-	180	410	265	20	125	210	18
4	-	530	107.5	165	-	180	505	300	30	160	220	24
5	190	605	127.5	205	160	240	580	360	30	175	270	24
6	190	640	127.5	205	180	240	680	360	30	270	270	24
7	190	720	150	205	165	250	715	430	35	215	330	28
8	190	765	150	205	165	250	820	430	35	275	330	28
9	180	845	185	275	295	330	845	480	40	260	370	36
10	180	895	185	275	295	330	945	480	40	310	370	36
11	180	1010	215	275	240	340	1065	600	50	295	440	40
12	180	1080	215	275	240	340	1160	600	50	380	440	40

规格 Size	尺寸 mm Dimensions in mm									润滑油 Lubrication		重量 Weight (kg)
	输出轴 Output									浸油润滑 Dip lubrication (L)	强制润滑 Forced lubrication (L)	
	B3SV			B3HV		B3DV						
	d2 ¹⁾	G2	l2	D2 ¹⁾	G4	D3	G4	G4	G5			
3	65	125	140	65	125	70	70	125	180	15	—	130
4	80	140	170	80	140	85	85	140	205	28	—	210
5	103	165	210	95	165	100	100	165	240	32	12	325
6	110	185	210	105	165	110	110	165	240	35	13	380
7	120	195	210	115	195	120	120	195	280	52	22	550
8	130	195	250	125	195	130	130	195	285	67	28	635
9	140	235	250	135	235	140	145	235	330	115	48	890
10	160	235	300	150	235	150	155	235	350	125	52	1020
11	170	270	300	165	270	165	170	270	400	180	75	1455
12	180	270	300	180	270	190	185	270	405	200	85	1730

垂直轴齿轮箱 Bevel-helical Gear Box
类型 B3.V Type B3.V

三级传动 Three Stage 立式安装 Vertical
规格 13...18 Sizes 13...18

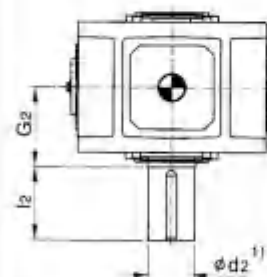
B3SV B3HV B3DV
采用强制润滑 With forced lubrication



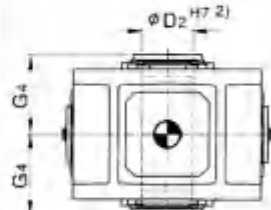
★ 输出轴 Output

布置形式 Design

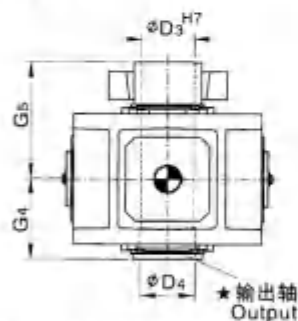
B3SV
实心轴
Solid shaft



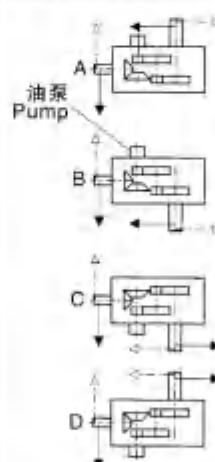
B3HV
空心轴
Hollow shaft



B3DV
带胀紧盘的空心轴
Hollow shaft for shrink disk



布置形式 A-D 根据用户要求供货
Design A-D on request.



1) $k_e \leq \phi 50$ $m_e > \phi 50$

有关平键GB/T1095-1979型和中心孔, 参见第88-89页。For parallel key GB/T1095-1979 and for centre hole, see page 88-89.

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3) 扭力支撑位于工作机侧。Torque support on driven machine side.

4) 有关油泵, 油管和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 dimension, please refer to us.

H/B系列



垂直轴齿轮箱 Bevel-helical Gear Box
类型 B3.V Types B3.V

三级传动 Three Stage 立式安装 Vertical
规格 13...18 Sizes 13...18

H/B

规格 Size	尺寸 mm Dimensions in mm																	
	输入轴 Input																	
	IN=12.5-45			IN=14-50			IN=15-56			IN=50-71			IN=56-80			IN=63-90		
	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	80	165	130							60	140	105						
14							60	165	130							60	140	105
15	90	165	130							70	140	105						
16				90	165	130							70	140	105			
17	110	205	165							80	170	130						
18				110	205	165							80	170	130			
19																		
20										根据用户需求供货 On request								
21																		
22																		

规格 Size	尺寸 mm Dimensions in mm									
	齿轮箱 Gear box									
	a	A1	b	B1	c	d6	e3	E	f2	l3
13	1290	325	900	475	61±2	210	265	635	35	170
14	1430	325	900	475	61±2	210	265	705	35	170
15	1550	365	980	520	72±2	210	320	762	42	170
16	1640	365	980	520	72±2	210	320	808	42	170
17	1740	385	1110	570	81±2	230	370	860	42	170
18	1860	395	1110	570	81±2	230	370	920	42	170
19										
20					根据用户需求供货 On request					
21										
22										

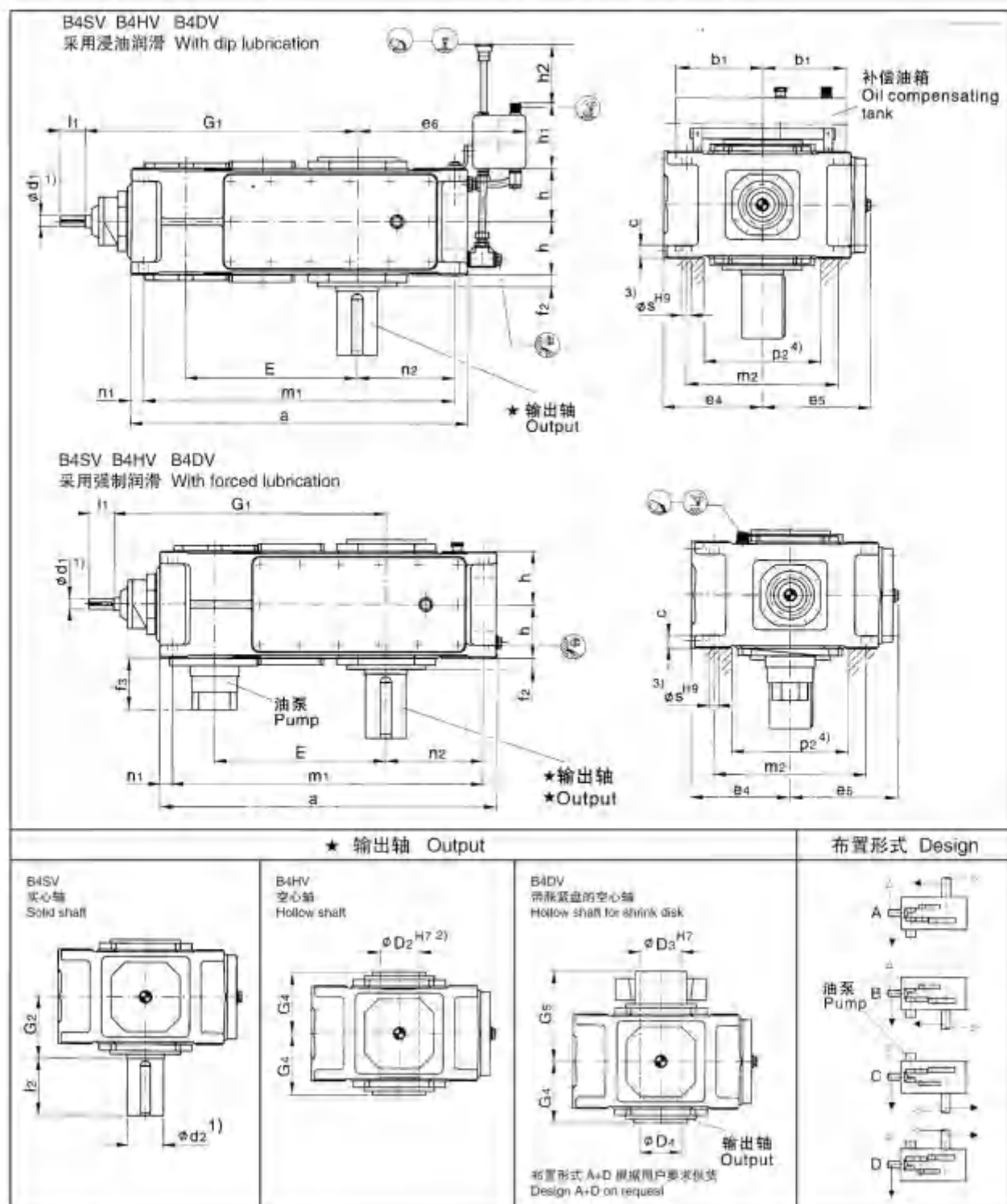
规格 Size	尺寸 mm Dimensions in mm									
	齿轮箱 Gear box									
	G6	h	h2	m1	m2	n1	n2	pe ¹⁾	s	
13	1180	272.5	300	1195	680	50	360	500	48	
14	1250	272.5	300	1235	680	50	430	500	48	
15	1420	310	340	1435	750	60	430	570	55	
16	1470	310	340	1525	750	60	475	570	55	
17	1620	340	380	1610	850	70	465	630	55	
18	1680	340	380	1730	850	70	525	630	55	
19										
20					根据用户需求供货 On request					
21										
22										

规格 Size	尺寸 mm Dimensions in mm									润滑油 Lubrication (L)	重量 Weight (kg)
	输出轴 Output										
	B3SV			B3HV		B3BV					
	d2 ¹⁾	G2	l2	D2 ¹⁾	G4	D3	D4	G4	G5		
13	200	335	350	190	335	190	195	335	480	95	2260
14	210	335	350	210	335	210	215	335	480	110	2615
15	230	380	410	230	380	230	235	380	560	165	3540
16	240	380	410	240	380	240	245	380	550	180	3765
17	250	415	410	250	415	250	260	415	600	210	4760
18	270	415	470	275	415	280	285	415	600	240	5240
19						根据用户需求供货 On request					
20											
21											
22											

垂直轴齿轮箱 Bevel-helical Gear Box
类型 B4.V Type B4.V

四级传动 Four Stage 立式安装 Vertical
规格 5...12 Sizes 5...12

H/B



1) $k_s \leq \phi 50$ $m_s > \phi 50$

有关平键GB/T1095-1979型和中心孔, 参见第88-89页。For parallel key GB/T1095-1979 and for centre hole, see page 88-89.

2) 键槽GB/T1095-1979。Keyway GB/T1095-1979.

3) 扭力支撑位于工作机侧。Torque support on driven machine side.

4) 有关油泵, 油管和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 dimension, please refer to us.

H/B系列



垂直轴齿轮箱 Bevel-helical Gear Box
类型 B4.V Type B4.V

四级传动 Four Stage 立式安装 Vertical
规格 5..12 Sizes 5..12

H/B

规格 Size	尺寸 mm Dimensions in mm							
	输入轴 Input							
	IN=80-180		IN=100-224		IN=200-315		IN=250-400	
	d1 ¹⁾	l1	d1 ¹⁾	l1	d1 ¹⁾	l1	d1 ¹⁾	l1
5	28	55			20	50		
6			28	55			20	50
7	30	70			25	60		
8			30	70			25	60
9	35	80			28	60		
10			35	80			28	60
11	45	100			35	80		
12			45	100			35	80

规格 Size	尺寸 mm Dimensions in mm								
	齿轮箱 Gear box								
	a	b1	c	a4	a5	a6	E	f2	f3
5	690	240	30 ± 1	230	252	385	405	28	200
6	770	240	30 ± 1	230	252	425	440	28	200
7	845	240	36 ± 1	280	292	425	495	30	120
8	950	240	36 ± 1	280	302	485	540	32	120
9	1000	330	45 ± 1.5	320	342	560	580	32	120
10	1100	330	45 ± 1.5	320	342	610	630	32	120
11	1200	330	54 ± 1.5	380	402	595	705	35	130
12	1355	330	54 ± 1.5	380	410	680	775	35	130

规格 Size	尺寸 mm Dimensions in mm									
	齿轮箱 Gear box									
	h	h1	h2	h3	m1	m2	n1	h2	d2	s
5	127.5	205	190	240	630	360	30	175	270	24
6	127.5	205	190	240	710	360	30	220	270	24
7	150	205	165	250	775	430	35	215	330	28
8	150	205	165	250	880	430	35	275	330	28
9	185	275	205	330	920	490	40	260	370	36
10	185	275	205	330	1020	490	40	310	370	36
11	215	275	240	340	1100	600	50	295	440	40
12	215	275	240	340	1255	600	50	380	440	40

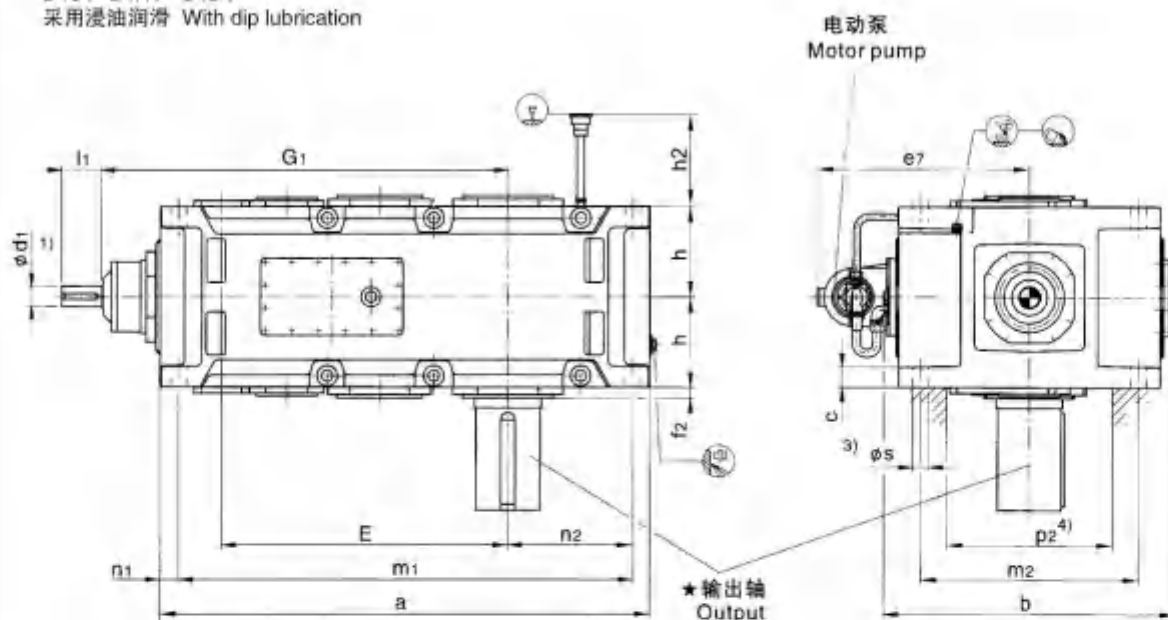
规格 Size	尺寸 mm Dimensions in mm									润滑油 Lubrication		重量 Weight (kg)
	输出轴 Output									油滴润滑 Dip lubrication (L)	强制润滑 Forced lubrication (L)	
	B4SY			B4HV		B4DV						
	d2 ¹⁾	G2	l2	D2 ¹⁾	G4	D3	D4	G4	G5			
5	100	165	210	95	165	100	100	165	240	36	15	335
6	110	165	210	105	165	110	110	165	240	40	16	385
7	120	195	210	115	195	120	120	195	280	60	30	555
8	130	195	250	125	195	130	130	195	285	70	35	555
9	140	235	250	135	235	140	145	235	330	110	60	890
10	160	235	300	150	235	150	155	235	350	130	67	1025
11	170	270	300	165	270	165	170	270	400	180	75	1485
12	180	270	300	180	270	180	185	270	405	195	85	1750

垂直轴齿轮箱 Bevel-helical Gear Box
类型 B4.V Types B4.V

四级传动 Four Stage 立式安装 Vertical
规格 13...18 Sizes 13...18

H/B

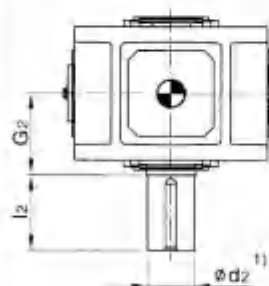
B4SV B4HV B4DV
采用浸油润滑 With dip lubrication



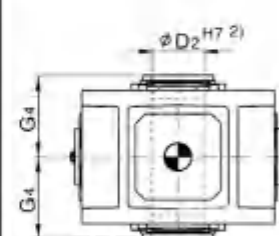
★ 输出轴 Output

布置形式 Design

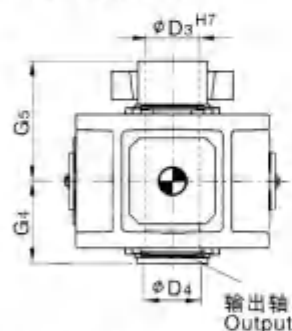
B4SV
实心轴
Solid shaft



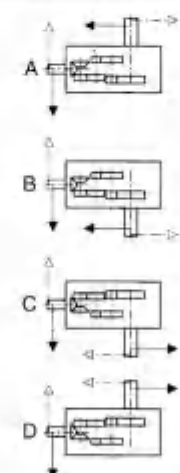
B4HV
空心轴
Hollow shaft



B4DV
带胀紧套的空心轴
Hollow shaft for shrink disk



布置形式 A~D 根据用户要求供货
Design A~D on request



1) $k_e \leq \Phi 50$ $m_e > \Phi 50$

有关平键GB/T1095-1979型和中心孔, 参见第88-89页。For parallel key GB/T1095-1979 and for centre hole, see page 88-89.

2) 键槽GB/T1095-1979。Keyway GB/T1095-1979.

3) 扭力支撑位于工作机侧。Torque support on driven machine side.

4) 有关油泵, 油管和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 dimension, please refer to us.

H/B系列



垂直轴齿轮箱 Bevel-helical Gear Box
类型 B4.V Type B4.V

四级传动 Four Stage 立式安装 Vertical
规格 13...18 Sizes 13...18

H/B

规格 Size	尺寸 mm Dimensions in mm											
	输入轴 Input											
	iN=80-180		iN=90-200		iN=100-224		iN=200-315		iN=224-355		iN=250-400	
	d1 ⁽¹⁾	l1	d1 ⁽¹⁾	l1	d1 ⁽¹⁾	l1	d1 ⁽¹⁾	l1	d1 ⁽¹⁾	l1	d1 ⁽¹⁾	l1
13	55	110					40	100				1170
14					55	110					40	100
15	70	135					50	110				1402
16			70	135					50	110		1448
17	70	135					50	110				1450
18			70	135					50	110		1510
19												
20												
21												
22												

规格 Size	尺寸 mm Dimensions in mm													
	齿轮箱 Gear box													
	a	b	c	a7	E	l2	h	h2	m1	m2	n1	n2	p2	s
13	1395	900	61 ± 2	695	820	35	272.5	300	1300	680	50	360	500	48
14	1535	900	61 ± 2	695	890	35	272.5	300	1440	680	50	430	500	48
15	1680	980	72 ± 2	735	987	42	310	340	1565	750	60	430	570	55
16	1770	980	72 ± 2	735	1033	42	310	340	1655	750	60	475	570	55
17	1770	1110	81 ± 2	795	1035	42	340	374	1640	850	70	465	630	55
18	1890	1110	81 ± 2	795	1095	42	340	374	1760	850	70	525	630	55
19														
20														
21														
22														

规格 Size	尺寸 mm Dimensions in mm									润滑油 Lubrication (L)	重量 Weight (kg)		
	输出轴 Output												
	B4SV			B4HV		B4DV							
	d2 ⁽¹⁾	G2	l2	D2 ⁽²⁾	G4	D3	D4	G4	G5				
13	200	335	350	190	335	190	195	335	480	130	2280		
14	210	335	350	210	335	210	215	335	480	150	2605		
15	230	380	410	230	380	230	235	380	550	200	3435		
16	240	380	410	240	380	240	245	380	550	235	3765		
17	250	415	410	250	415	250	260	415	600	215	4460		
18	270	415	470	275	415	280	285	415	600	250	4930		
19						根据用户要求供货 On request							
20													
21													
22													

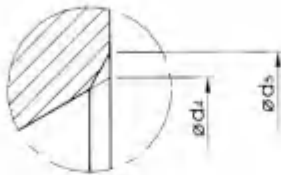
齿轮箱 Gear Box

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

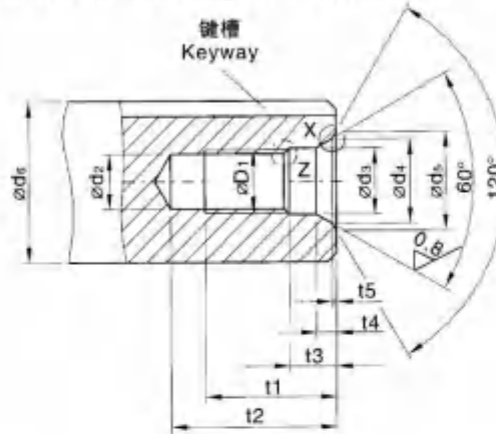
C型中心孔 Form C

锥孔, 带一段直孔和护锥沉孔 Tapped hole, with straight running face and counterbore

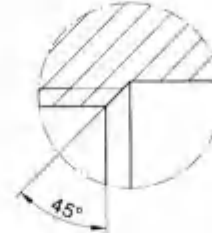
"X" 局部放大
Detail "X"



键槽
Keyway



"Z" 局部放大
Detail "Z"



推荐尺寸 Recommended diameters		C型 Form C											
d6 ¹⁾													
大于 above	至 to	C中心孔 C_ Centering	d1	d2	d3	d4	d5	t1 +2	t2		t3 +1	t4 —	t5 —
mm			mm										
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
220*	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 1) Diameter of the finished work piece

*) 不是根据GB145-1985确定的尺寸 *) Dimensions not acc. to GB145-1985

H/B系列

齿轮箱 Gear Box

选择ISO配合精度 Selection of ISO fits

平键和键槽 Parallel keys keyways

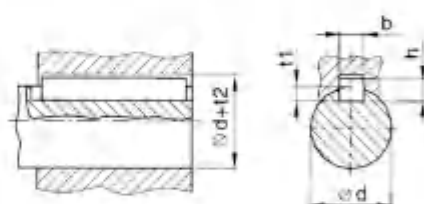
H/B

选择 ISO 配合精度 Selection of ISO fits				
选择 ISO 配合精度 Selection of ISO fits	轴 Shaft d		轴公差 Shaft tolerance	孔公差 Bore tolerance
	大于 Above mm	至 To mm		
轴公差根据OMITER标准确定 Shaft tolerance acc. To OMITER standard		50	k6	H7
	50		m6	

对于重载工件条件，如带载反向回转，建议采用比较紧密的配合，轮毂键槽宽度亦应选择ISO P9公差级别。

For heavy-duty operating conditions, e.g. reversing under load, it is recommended that a tighter fit and for the hub keyway width the ISO P9 tolerance is selected.

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 d		宽度1) Width1) b— 1) mm	高度 Height h mm	轴键槽深度 Depth of key- way in shaft t1 mm	轮毂槽深度 Depth of key- way 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 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 Box

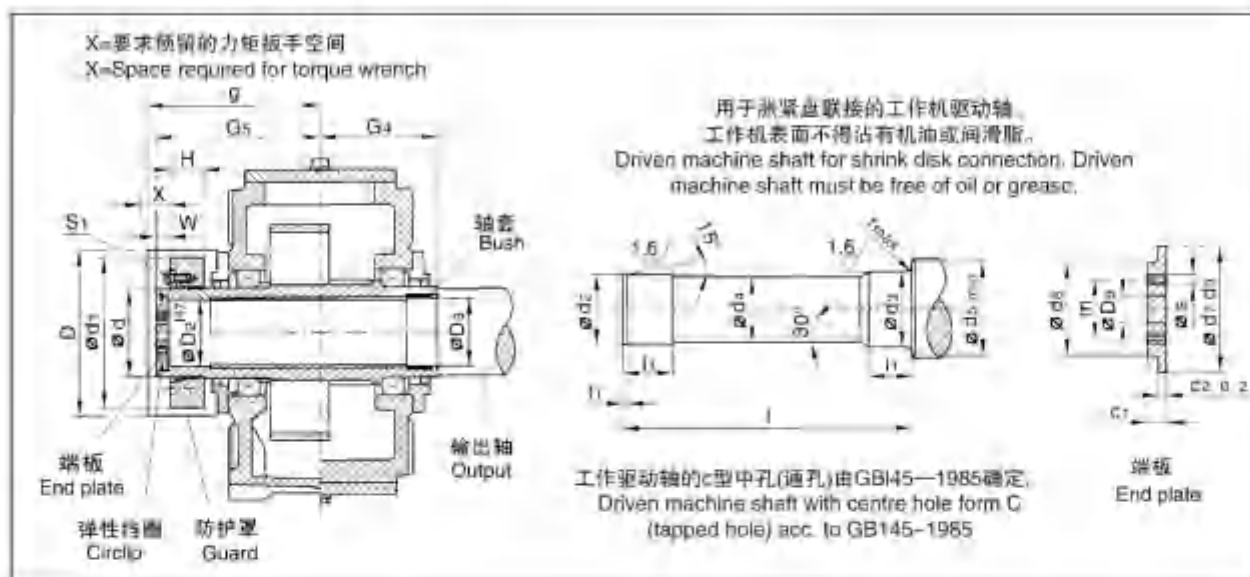
类型 H2, H3, H4, B3, B4

规格 3...26 Sizes 3...26

帶脹緊盤的空心軸 Hollow Shaft For Shrink Disk

Type H2, H3, H4, B3, B4

H/B



主要 H2, H3, H4, B3, B4 Type H2, H3, H4, B3, B4																													
齒輪 和 齒 輪 箱 殼 型 號 (Gear box size)	工作機驅動端 ⁽¹⁾ Driven machine shaft								齒輪 End plate								彈性的環 Ring Clamp				空心軸 Hollow shaft				無傾盆 ⁽¹⁾ Shrink disk				總長 Screw
	d ₁	d ₂	d ₃	d ₄	d ₅	d ₆	d ₇	r	d ₈	d ₉	d ₁₀	d ₁₁	d ₁₂	m	s	數量 Qty.	GB994 3.2-86	D3	D3	G4	G5	齒型 Type	d	d1	H	W	φ		
	(mm)																(mm)												
2	70g	70g	69.5	80	8	286	36	2	17	7	75	55	28	40	M10	2	75±2.5	70	70	125	180	90-32	90	155	38	80	M10		
4	95g	95g	94.5	95	4	326	46	2	17	7	90	70	32	50	M10	2	90±3	85	85	140	205	110-32	110	165	49	100	M12		
5	109g	100h	99.5	114	4	343	55	2	20	8	105	80	26	55	M10	2	105±4	100	100	165	240	125-32	125	215	53	20	M12		
6	110g	110h	109.5	124	5	383	66	3	20	8	115	65	26	80	M10	2	115±4	110	110	165	240	140-32	140	230	58	20	M14		
7	120g	120h	119.5	134	5	453	66	3	20	8	125	90	26	65	M12	2	125±4	120	120	195	280	155-32	155	263	62	25	M14		
8	130g	130h	129.5	145	5	458	70	3	20	8	135	100	26	70	M12	2	135±4	130	130	195	285	165-32	165	290	68	25	M16		
9	140g	145m	139.5	160	5	539	82	4	23	10	150	110	35	80	M12	2	150±4	140	145	235	330	175-32	175	300	68	29	M16		
10	150g	155m	149.5	170	6	559	92	4	23	10	160	120	35	90	M12	2	160±4	150	155	235	350	200-32	200	340	65	29	M16		
11	165L	170m	164.5	185	7	644	112	4	23	10	175	130	38	90	M12	2	175±4	165	170	270	400	220-32	220	370	105	30	M20		
12	180L	185m	179.5	200	7	649	122	4	23	10	190	140	38	100	M16	2	190±4	180	185	270	405	240-32	240	405	107	30	M20		
13	190L	195m	189.5	213	7	789	137	5	23	10	200	150	33	110	M16	2	200±4	190	195	335	480	260-32	260	430	119	30	M20		
14	210L	215m	209.5	230	8	784	147	5	28	14	220	170	33	130	M16	2	220±5	210	215	335	480	280-32	280	460	132	30	M20		
15	230L	235m	229.5	250	8	899	157	5	28	14	240	180	39	140	M16	2	240±5	230	235	380	550	300-32	300	485	140	35	M24		
16	240L	245m	239.5	260	8	899	167	5	28	14	250	190	39	150	M20	2	250±5	240	245	380	550	320-32	320	520	140	35	M24		
17	250L	260m	249.5	278	8	982	177	5	30	14	265	200	39	160	M20	2	265±5	250	260	415	600	340-32	340	570	135	35	M24		
18	280L	285m	279.5	306	9	982	177	5	30	14	290	210	39	180	M20	2	290±5	280	285	415	600	360-32	360	590	162	35	M24		
19	295L	295m	284.5	316	9	1100	187	5	32	15	300	220	39	170	M24	2	300±5	295	295	465	670	390-32	390	640	186	40	M27		
20	310L	315m	309.5	336	9	1100	187	5	32	15	320	230	39	180	M24	2	320±6	310	315	465	670	390-32	390	650	186	40	M27		
21	330L	335m	329	358	9	1160	205	5	40	20	340	250	45	190	M24	2	340±6	330	335	490	715	420-32	420	670	186	45	M27		
22	340L	345m	339	368	9	1170	215	5	40	20	350	260	45	200	M24	2	350±6	340	345	490	725	440-32	440	720	194	45	M27		
23																													
24	推薦用戶參考附件 Dr. recouant																												
25																													
26																													

1) 麻絮盘不在我们的供货范围之内。如有需要的话, 请另行订做。

Shrink disk does not belong to our scope of supply. Please order separately, if required.

2) 工作机驱动轴材质: 60或强度更高的钢。根据用户要求, 旋紧盘可布置在工作机侧。工作机驱动轴尺寸需要测量。

Material of driver machine shall 60 or higher strength Shrink disk on machine side on request. Shrink disk is supplied as loose item. Dimensions of machine shall on request.

H/B系列

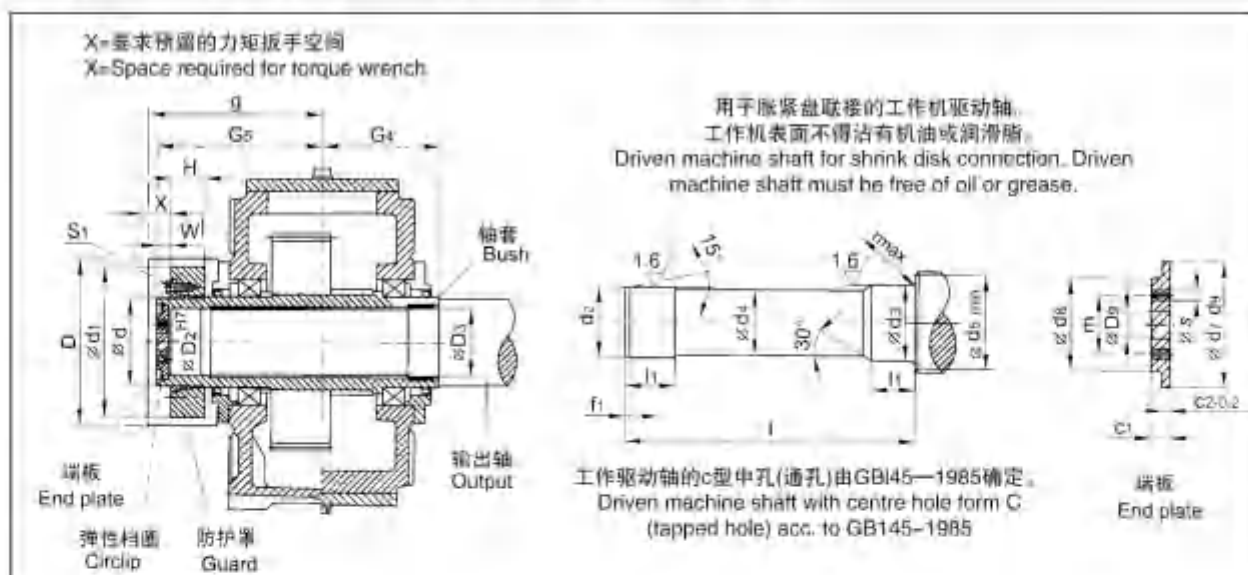


齿轮箱 Gear Box

类型 B2D Type B2D

带胀紧盘联接的空心轴 Hollow Shaft For Shrink Disk

规格 2...18 Sizes 2...18



类型 B2D Type B2D																																						
齿轮箱规格 Gear box size	工作机驱动轴 ¹⁾ Driven machine shaft										端板 End plate						弹性挡圈 Ring Clip		空心轴 Hollow shaft					胀紧盘 ¹⁾ Shrink disk					螺钉 Screw		防护罩 Guard							
	d ₁	d ₂	d ₃	d ₄	d ₅	d ₆	d ₇	d ₈	d ₉	d ₁₀	d ₁₁	d ₁₂	d ₁₃	d ₁₄	d ₁₅	d ₁₆	d ₁₇	d ₁₈	d ₁₉	d ₂₀	d ₂₁	d ₂₂	d ₂₃	d ₂₄	d ₂₅	d ₂₆	d ₂₇	d ₂₈	d ₂₉	d ₃₀	d ₃₁	d ₃₂	d ₃₃	d ₃₄	d ₃₅	d ₃₆	d ₃₇	d ₃₈
	mm										mm										mm					mm												
2	60g5	60g5	60.5	70	3	300	36	2	13	5	85	47	22	35	M6	2	65±2.5	60	60	135	180	80-32	80	141	31	16	M10	180	200									
3	70g5	70g5	69.5	80	4	385	38	2	17	7	75	55	25	40	M8	2	75±2.5	70	70	145	200	90-32	90	155	38	20	M10	200	220									
4	85g5	85g5	84.5	95	4	385	48	2	17	7	90	70	22	50	M8	2	90±3	85	85	170	235	110-32	110	185	49	30	M12	235	250									
5	100g6	100g6	99.5	114	5	453	50	2	20	8	105	80	26	55	M10	2	105±4	100	100	200	275	125-32	125	215	63	30	M12	275	295									
6	110g6	110g6	109.5	124	5	453	58	3	20	8	115	85	26	60	M10	2	115±4	110	110	200	275	140-32	140	230	68	30	M14	285	295									
7	130g6	130g6	129.5	134	5	533	68	3	20	8	125	90	26	65	M12	2	125±4	120	120	235	320	155-32	155	260	82	33	M14	330	335									
8	130g6	130g6	129.5	145	6	538	75	3	20	8	135	100	26	70	M12	2	135±4	130	130	235	325	165-32	165	290	68	23	M16	340	340									
9	140g6	140g6	139.5	160	6	609	82	4	23	10	150	110	33	80	M12	2	150±4	140	145	270	365	175-32	175	300	68	28	M16	360	380									
10	150g6	150g6	149.5	170	6	629	92	4	23	10	160	120	33	90	M12	2	160±4	150	155	270	385	200-32	200	340	85	35	M16	385	400									
11	165g6	165g6	164.5	185	7	744	112	4	25	10	175	130	35	90	M12	2	175±4	165	170	320	460	220-32	220	370	103	30	M20	435	470									
12	180g6	180g6	179.5	200	7	748	123	4	23	10	190	140	35	100	M16	2	190±4	180	185	320	485	240-32	240	405	107	30	M20	460	470									
14	210g6	210g6	209.5	233	8	864	147	5	28	14	220	170	33	130	M16	2	220±5	210	215	360	535	280-32	280	460	132	30	M20	525	555									
16	240g6	240g6	239.5	263	8	1008	157	5	28	14	250	190	35	150	M20	2	250±5	240	245	450	620	320-32	320	520	140	35	M24	595	645									
18	280g6	280g6	279.5	305	9	1177	177	5	30	14	290	210	35	160	M20	2	290±5	280	285	510	700	360-32	360	580	162	35	M24	695	725									

1) 胀紧盘不在我们的供货范围之内。如有需要的话，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：B2或强度更高的钢。根据用户要求，胀紧盘可布置在工作机侧。工作机驱动轴尺寸需要重复。

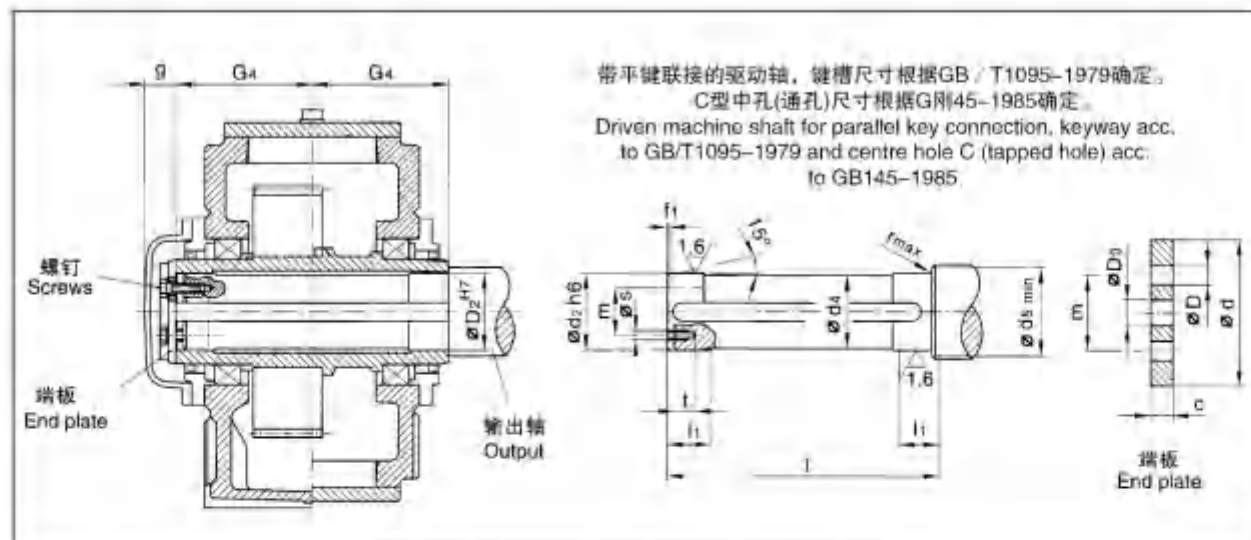
Material of driver machine shaft: B2 or higher strength steel. Shrink disk on machine side on request. Shrink disk is supplied as loose item. Dimensions of machine shaft on request.

齿轮箱 Gear Box 带平键联接的空心轴 Hollow Shafts for Parallel Key Connections

类型 H2, H3, H4, B3, B4 Type H2, H3, H4, B3, B4

规格 2...18 Sizes 2...18

H/B



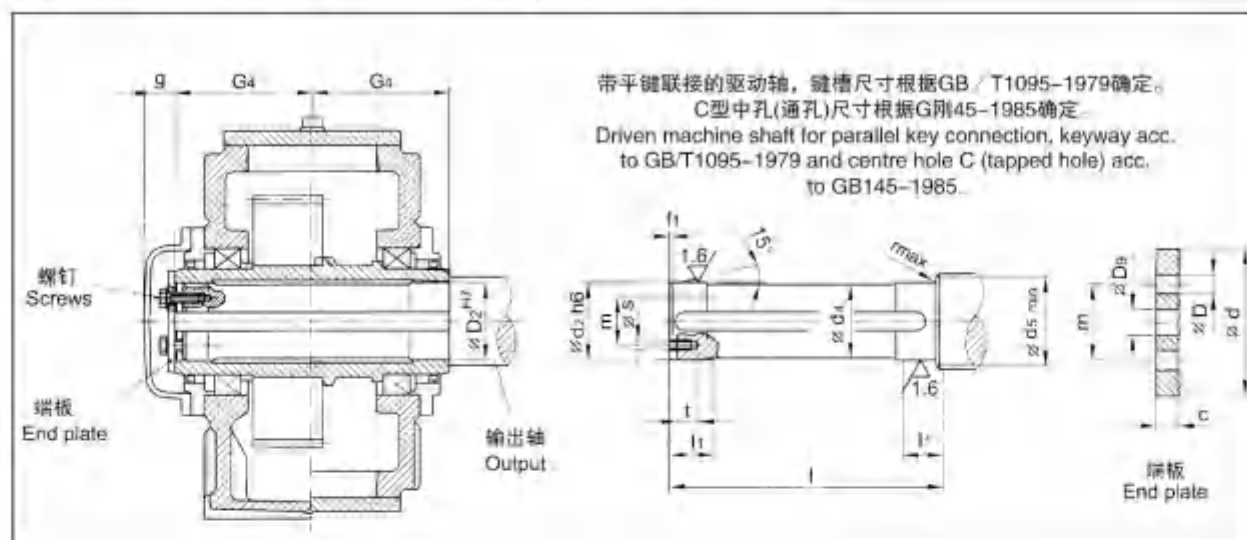
类型 H2, H3, H4, B3, B4 Type H2, H3, H4, B3, B4																			
齿轮箱规格 Gear box size	工作机驱动轴 1) Driven machine shaft									端板 End plate					螺钉 Screw		空心轴 Hollow shaft		
	d ₂	d ₁	d ₀	f ₁	l	l ₀	f	s	i	c	D	D ₀	d	m	规格 Size	数量 Qty	D2	G4	g
	mm									mm									
	3	65	64.5	73	4	248	30	1.2	M10	18	8	11	18	78	45	M10×25	2	65	125
4	80	79.5	88	4	276	35	1.2	M10	18	10	11	22	100	60	M10×25	2	80	140	35
5	95	94.5	105	5	328	40	1.6	M10	18	10	11	26	120	70	M10×25	2	95	165	40
6	105	104.5	116	5	328	45	1.6	M10	18	10	11	26	120	70	M10×25	2	105	165	40
7	115	114.5	126	5	388	50	1.6	M12	20	12	13.5	26	140	80	M12×30	2	115	195	40
8	125	124.5	136	6	368	55	2.5	M12	20	12	13.5	26	150	85	M12×30	2	125	195	40
9	135	134.5	147	6	467	60	2.5	M12	20	12	13.5	33	160	90	M12×30	2	135	235	45
10	150	149.5	162	6	467	65	2.5	M12	20	12	13.5	33	185	110	M12×30	2	150	235	45
11	165	164.5	177	7	537	70	2.5	M16	28	15	17.5	33	195	120	M16×40	2	165	270	45
12	180	179.5	192	7	537	75	2.5	M16	28	15	17.5	33	220	130	M16×40	2	180	270	45
13	190	189.5	206	7	667	80	3	M16	28	18	17.5	33	230	140	M16×40	2	190	335	45
14	210	209.5	226	8	667	85	3	M16	28	18	17.5	33	250	160	M16×40	2	210	335	45
15	230	229.5	248	8	756	100	3	M20	38	25	22	39	270	180	M20×55	4	230	380	60
16	240	239.5	258	8	756	100	3	M20	38	25	22	39	280	180	M20×55	4	240	380	60
17	250	249.5	270	8	826	110	4	M20	38	25	22	39	300	190	M20×55	4	250	415	60
18	275	274.5	295	9	826	120	4	M20	38	25	22	39	330	210	M20×55	4	275	415	60

1) 工作机驱动轴材质: 60或强度更高的钢。平键不在我们的供货范围之内。如果需要的话, 请另行订货。
Material of driven machine shaft: 60 or higher strength. Parallel key does not belong to our scope of supply.
Please order separately, if required.

H/B系列



齿轮箱 Gear Box 带胀平键联接的空心轴 Hollow Shafts for Parallel Key Connections
类型 B2H Type B2H 规格 2...18 Sizes 2...18



齿轮箱规格 Gear box size	类型 B2H Type B2H																			
	工作机驱动轴 1) Driven machine shaft									端板 End plate						螺钉 Screw		空心轴 Hollow shaft		
	d ₁	d ₂	d ₃	f ₁	l	l ₁	t	s	l	c	D	D ₁	u	m	规格 Size	数量 Qty.	D ₂	G4	g	
	mm																mm			
2	55	54.5	63	3	268	30	1.2	M8	15	8	9	18	70	40	M8×20	2	55	135	35	
3	65	64.5	73	4	288	30	1.2	M10	18	8	11	18	78	45	M10×25	2	65	145	35	
4	80	79.5	88	4	338	35	1.2	M10	18	10	11	22	100	60	M10×25	2	80	170	35	
5	95	94.5	105	5	398	40	1.6	M10	18	10	11	26	120	70	M10×25	2	95	200	40	
6	105	104.5	116	5	398	45	1.6	M10	18	10	11	26	120	70	M10×25	2	105	200	40	
7	115	114.5	128	5	468	50	1.6	M12	20	12	13.5	26	140	80	M12×30	2	115	235	40	
8	125	124.5	136	6	468	55	2.5	M12	20	12	13.5	26	150	85	M12×30	2	125	235	40	
9	135	134.5	147	6	537	60	2.5	M12	20	12	13.5	33	160	90	M12×30	2	135	270	45	
10	150	149.5	162	6	537	65	2.5	M12	20	12	13.5	33	185	110	M12×30	2	150	270	45	
11	165	164.5	177	7	637	70	2.5	M16	28	15	17.5	33	195	120	M16×40	2	165	320	45	
12	180	179.5	192	7	637	75	2.5	M16	28	15	17.5	33	220	130	M16×40	2	180	320	45	
14	210	209.5	226	8	777	85	3	M16	28	18	17.5	33	250	160	M16×40	2	210	390	45	
16	240	239.5	258	8	896	100	3	M20	38	25	22	39	280	180	M20×55	4	240	450	60	
18	275	274.5	295	9	1016	120	4	M20	38	25	22	39	330	210	M20×55	4	275	510	60	

1) 工作机驱动轴材质：60或强度更高的钢。平键不在我们的供货范围之内。如果需要的话，请另行订货。
Material of driven machine shaft: 60 or higher strength. Parallel key does not belong to our scope of supply.
Please order separately, if required.

平行轴齿轮箱 Helical Gear Box

实际速比 Actual Ratios

类型 H1...H2...H3...H4...

Type H1...H2...H3...H4...

规格 1...13 Sizes 1...13

H/B

W	实际速比 Actual Ratios												
	齿轮箱规格 Gear box size												
	1	2	3	4	5	6	7	8	9	10	11	12	13
1.25	1.250		1.263		1.256		1.263		1.270				
1.4	1.415		1.371		1.375		1.389		1.400				
1.6	1.605		1.594		1.556		1.605		1.625		1.636		1.526
1.8	1.829		1.829		1.859		1.774		1.800		1.806		1.839
2.0	2.000		2.000		2.034		1.996		2.000		2.000		2.034
2.24	2.194		2.194		2.259		2.306		2.251		2.222		2.259
2.5	2.538		2.536		2.520		2.582		2.500		2.480		2.520
2.8	2.808		2.806		2.826		2.800		2.741		2.783		2.826
3.15	3.125		3.125		3.190		3.150		3.208		3.080		3.208
3.56	3.500		3.500		3.591		3.524		3.591		3.478		3.591
4.0	3.950		3.950		4.050		4.000		4.050		3.905		4.050
4.5	4.478		4.425		4.519		4.400		4.381		4.421		4.519
5.0	5.053		4.952		4.900		4.905		4.947		5.150		4.900
5.6	5.571		5.579		5.556		5.536		5.604		5.474		5.556
6.3			6.232	6.319	6.288		6.088		6.260		6.248		6.410
7.1			7.099	6.857	7.215		7.048		7.247		6.900		7.100
8.0			7.765	7.776	7.869	7.792	7.709	7.676	8.016	7.848	7.644	7.941	7.889
9.0			8.616	8.485	8.682	8.340	8.660	8.887	8.904	9.085	8.974	8.772	8.796
10			9.645	9.722	10.002	9.778	9.680	9.833	9.932	10.083	10.046	9.718	9.861
11.2			10.800	10.894	11.075	10.794	10.648	10.920	11.138	11.163	10.889	11.410	10.811
12.5			12.142	12.444	12.326	12.897	11.807	12.180	12.374	12.452	12.174	12.773	12.655
14			13.508	13.865	13.906	14.706	13.939	13.400	14.152	13.954	13.704	13.844	14.164
16			15.006	15.586	15.581	15.278	15.717	14.887	15.962	15.765	15.556	15.478	15.975
18			17.378	17.802	17.493	17.111	17.596	17.578	18.204	17.743	17.111	17.425	17.280
20			19.616	19.444	19.534	19.811	19.742	19.617	19.312	20.012	19.074	19.778	19.515
22.4			21.800	22.037	22.006	21.681	20.982	22.188	21.895	22.824	21.481	21.756	22.020
25					25.011	24.212	25.540	24.682	25.439	24.212	24.706	24.251	25.372
28					28.490	27.275	27.711	26.456	29.187	27.451	28.602	27.325	29.373
31.5					31.181	30.899	31.433	32.202	31.924	31.894	31.648	31.412	32.501
35.5					34.177	35.312	34.291	34.940	35.013	36.593	35.144	36.366	36.092
40					38.508	38.022	39.292	38.613	40.474	40.024	39.200	40.208	40.257
45					43.745	42.360	43.321	43.216	44.316	43.897	43.210	44.683	45.147
50					48.839	48.067	50.293	49.542	49.681	50.744	47.911	49.840	50.958
56					54.532	54.220	56.033	54.486	55.866	56.187	56.588	54.338	57.385
63					61.543	60.347	62.867	63.113	63.049	62.537	63.778	60.916	64.869
71					69.742	67.569	71.139	70.651	70.787	70.041	71.414	71.819	73.789
80					78.723	76.279	78.583	78.267	78.048	79.646	80.111	81.088	78.278
90					88.006	86.440	89.061	89.005	89.050	88.748	89.146	90.728	88.750
100						97.572	101.554	99.083	101.210	99.106	103.609	101.856	103.114
112						107.590	115.255	112.284	115.290	111.645	112.450	108.257	118.308
125							125.733	128.046	128.098	128.890	127.556	131.769	129.398
140							143.985	145.322	138.301	144.542	139.152	142.973	141.920
160							158.251	156.533	159.574	158.093	159.444	162.178	164.058
180							174.630	181.546	177.022	175.392	175.389	176.921	181.654
200							193.823	199.568	197.028	200.436	194.088	202.723	202.184
224							225.806	220.165	220.671	221.936	227.382	222.994	226.448
250							257.753	244.141	249.043	247.020	255.111	259.484	255.560
280							286.815	286.242	282.219	278.683	288.676	289.100	286.925
315							305.352	304.983	314.563	310.294	318.829	324.356	320.410
355							344.112	353.906	351.273	359.827	361.407	367.034	360.961
400								385.010		399.395		405.344	
450								433.881		440.402		459.904	

H/B系列



平行轴齿轮箱 Helical Gear Box

实际速比 Actual Ratios

类型 H1...H2...H3...H4... Type H1...H2...H3...H4...

规格 14...26 Sizes 14...26

实际速比 i Actual Ratios i													
齿轮箱规格 Gear box size													i/i
14	15	16	17	18	19	20	21	22	23	24	25	26	
													1.25
													1.4
													1.6
													1.8
	2.000		2.000		1.967								2.0
	2.231		2.250		2.255								2.24
	2.481		2.481		2.553								2.5
	2.780		2.760		2.870								2.8
	3.087		3.087		3.238								3.15
	3.476		3.476		3.450								3.55
	3.947		3.947		3.944								4.0
	4.579		4.526		4.400								4.5
	5.100		4.900		4.850								5.0
	5.778		4.556		5.700								5.5
	6.449		6.164		6.410		6.500		6.300		6.500		6.3
	7.120	7.316	7.126	7.147	7.100	7.312	7.200	7.265	7.038	7.059	6.816	7.252	7.1
7.944	7.882	8.076	7.894	8.274	7.892	8.100	8.000	8.047	7.892	7.878	7.635	7.953	8.0
8.800	8.788	8.941	8.755	9.155	8.790	9.00	8.923	8.941	8.859	8.834	8.615	8.790	9.0
9.776	9.774	9.935	9.765	10.167	9.788	10.036	9.926	9.928	9.850	9.926	9.699	10.266	10
10.906	10.967	11.087	10.961	11.340	10.987	11.107	11.040	11.034	10.878	10.948	10.741	11.445	11.5
12.222	12.319	12.440	12.432	12.713	12.715	12.830	12.848	12.839	12.656	12.776	12.571	12.829	12.5
13.399	13.709	13.769	12.910	14.430	13.782	13.891	13.905	13.860	13.670	13.619	13.394	14.470	14
15.696	15.389	16.550	16.694	16.169	15.570	15.643	16.789	15.841	15.657	15.586	15.314	16.494	16
17.556	17.424	17.457	17.899	18.225	18.061	17.762	18.318	17.647	17.839	17.415	17.082	17.634	18
19.800	20.297	19.765	18.488	20.786	20.117	20.036	20.400	20.471	19.312	19.560	19.218	19.671	20
21.418	21.974	22.024	20.930	22.051	21.782	22.650	22.366	22.400	22.039	21.618	21.108	22.120	22.4
24.187	24.716	24.645	24.202	24.306	25.283	24.650	25.837	25.000	25.457	24.821	24.482	24.106	25
27.292	27.364	28.056	26.736	28.106	28.006	28.844	28.523	28.677	28.103	28.497	28.157	28.607	28
31.447	30.298	30.971	29.819	31.048	31.117	31.880	31.578	31.879	31.115	31.458	31.156	31.404	31.5
36.406	36.514	34.111	34.776	34.597	34.708	36.500	35.088	36.294	34.572	34.830	34.696	35.670	36.5
40.993	38.752	40.894	38.909	40.385	39.897	39.596	39.158	38.216	38.682	38.700	38.591	38.940	40
44.733	43.090	45.086	42.184	45.808	43.842	44.375	43.938	43.765	43.290	43.188	42.278	44.433	45
49.896	48.175	48.678	47.174	49.000	48.017	48.648	48.632	49.105	47.916	48.459	48.132	48.635	50
55.957	54.229	54.643	53.102	54.781	53.378	54.948	54.920	54.381	54.112	53.638	54.890	55.376	55
63.171	61.557	61.514	60.278	61.667	60.215	63.753	61.654	61.381	60.747	60.573	60.021	63.382	60
71.100	67.719	69.826	66.306	70.000	68.162	71.888	69.806	69.909	68.780	69.001	70.735	71.418	71
80.190	75.481	76.809	73.812	77.000	74.874	77.762	81.316	78.719	80.120	75.992	75.037	81.482	80
91.457	86.046	88.620	83.279	85.835	83.439	87.895	86.427	90.882	85.156	89.687	85.076	86.407	90
97.020	97.768	96.471	95.735	96.711	100.079	100.885	98.020	96.594	97.564	95.323	100.783	97.967	100
110.00	113.166	110.901	110.833	111.175	115.862	114.174	109.386	110.670	107.778	109.814	111.637	116.094	112
127.809	126.236	128.390	128.634	128.710	128.198	132.180	121.182	122.255	119.400	120.647	124.041	128.552	125
146.633	139.074	142.060	136.182	142.414	142.982	146.254	142.279	135.459	140.198	133.657	138.254	142.835	140
166.390	155.425	157.758	151.900	158.148	156.732	162.413	152.273	159.017	156.931	156.925	155.061	159.516	160
175.901	170.933	175.962	167.438	176.400	178.078	181.150	172.632	178.011	170.093	175.688	169.982	178.544	180
200.338	189.587	193.963	185.655	194.444	201.040	203.160	193.004	192.311	190.166	190.482	198.088	195.737	200
225.149	223.845	216.065	219.192	216.600	226.272	229.355	217.357	216.711	214.002	212.673	222.710	229.132	224
250.594	252.965	253.914	247.159	254.545	255.201	258.141	246.617	242.817	242.390	239.622	251.183	256.454	250
280.865	282.605	286.238	278.730	278.000	291.058	291.144	271.278	276.689	267.388	272.084	271.709	289.241	280
316.751	317.021	320.566	310.431	321.364	306.761	332.067	302.399	303.193	297.952	292.204	306.839	312.677	315
355.825	336.946	339.606	328.942	360.500	350.069	352.249	340.720	337.875	335.710	333.528	350.538	353.229	355
397.131		362.207		383.156		399.375		360.605		375.794		406.953	400
447.876													450

H/B

垂直轴齿轮箱 Bevel-helical Gear Box

实际速比 Actual Ratios

类型 B2..,B3..,B4... Type B2..,B3..,B4...

规格 1...13 Size 1...13

H/B

W	实际速比 Actual Ratios												
	齿轮箱规格 Gear box size												
	1	2	3	4	5	6	7	8	9	10	11	12	13
5.0	4.980	5.043	4.895	4.926	5.006		4.865		5.002		4.887		4.967
5.6	5.560	5.630	5.471	5.490	5.566		5.393		5.463		5.534		5.613
6.3	6.455	6.526	6.334	6.296	6.386	6.205	6.206	6.136	6.381	6.271	6.296	6.226	6.386
7.1	7.068	7.150	6.947	6.959	7.058	6.802	6.860	6.725	7.053	6.875	7.037	7.006	7.136
8.0	7.668	7.865	7.538	7.549	7.657	7.316	7.380	7.225	7.601	7.400	7.584	7.505	7.608
9.0	8.329	8.641	8.276	8.283	8.417	8.049	8.129	7.949	8.310	8.042	8.293	8.247	8.417
10	10.027	10.154	9.855	9.872	10.108	9.690	9.823	9.635	10.099	10.157	9.965	10.164	10.108
11.2	10.838	11.077	10.751	10.769	10.923	10.428	10.616	10.404	10.914	11.045	10.769	11.052	10.923
12.5	12.450	12.615	12.244	12.254	12.503	11.920	12.133	11.905	12.554	12.692	12.334	12.670	12.482
14	14.005	14.182	13.765	13.784	14.044	13.338	13.519	13.308	14.137	14.283	13.821	14.192	13.921
16	16.441	16.636	16.176	16.191	16.465	15.626	15.825	15.623	16.592	16.743	16.226	16.588	16.354
18	17.535	17.816	17.294	17.307	17.607	16.645	16.852	16.641	17.963	18.124	17.593	17.970	17.678
20			19.306	19.314	19.645	18.729	18.948	18.748	20.069	20.239	19.640	19.996	20.275
22.4			21.609	21.619	21.954	20.975	21.146	20.936	22.208	22.379	21.643	21.999	22.286
25			25.021	25.030	25.421	24.349	24.546	24.332	25.643	25.800	25.085	25.403	25.684
28			27.442	27.456	27.891	26.721	26.925	26.723	28.063	28.216	27.496	27.857	28.137
31.5			29.789	30.196	30.745	29.508	30.009	29.784	31.085	31.240	30.475	30.821	31.138
35.5			34.279	34.771	35.427	34.057	34.611	34.281	35.679	35.811	34.971	35.392	35.709
40			38.928	39.467	40.251	38.685	39.306	38.948	40.902	41.046	39.661	40.254	40.935
45			42.467	43.077	43.946	42.156	42.823	42.456	44.202	44.332	43.077	43.699	44.238
50			46.986	47.660	48.639	46.521	47.246	46.841	48.604	48.724	47.660	48.281	48.963
56			54.671	55.452	56.540	54.177	54.923	54.577	56.592	56.712	55.452	56.069	56.799
63			59.947	60.808	62.006	60.004	60.829	60.499	62.396	62.516	60.808	61.429	62.149
71			68.312	69.295	70.604	68.467	69.411	69.059	71.102	71.222	69.293	70.121	70.861
80					77.598	75.489	76.267	77.465	79.497	79.628	77.598	78.429	79.169
90					86.720	83.022	84.536	86.274	88.842	89.043	86.720	87.599	88.339
100					100.413	95.379	102.572	104.946	107.969	108.259	100.413	101.299	102.039
112					110.130	104.484	112.488	114.604	117.624	117.934	110.130	111.019	111.759
125					119.486	113.455	122.035	123.830	126.880	127.189	119.486	120.379	121.119
140					137.567	130.499	140.525	141.846	144.933	145.242	137.567	138.459	139.199
160					156.225	148.071	159.505	160.871	163.947	164.256	156.225	157.119	157.859
180					170.427	170.506	174.092	177.184	179.277	179.586	170.427	171.319	172.059
200					194.098	193.631	198.272	201.215	203.347	203.656	194.098	194.989	195.729
224					216.189	211.204	222.891	219.506	223.527	223.836	216.189	217.079	217.819
250					240.576	240.572	245.752	249.995	249.464	249.800	240.576	241.469	242.209
280					274.147	270.443	280.042	281.036	280.855	280.256	274.147	275.039	275.779
315					302.121	296.181	308.618	309.861	309.513	309.000	315.091	315.984	316.724
355							339.786	353.097		352.115		361.214	
400							374.480	389.127		388.046		398.073	
450													

H/B系列



垂直轴齿轮箱 Bevel-helical Gear Box

实际速比 Actual Ratios

类型 B2...B3...B4... Type B2...B3...B4...

规格 14...26 Size 14...26

实际速比 i Actual Ratios i													
齿轮箱规格 Gear box size													iH
14	15	16	17	18	19	20	21	22	23	24	25	26	
	4.393												5.0
	5.609	5.609	5.514										6.6
6.156	6.340	6.362	6.234										6.3
6.957	7.132	7.192	7.012	7.239									7.1
7.915	8.101	8.162	7.965	8.143									8.0
8.647	8.810	8.890	8.662	8.850									9.0
10.049	10.099	9.993	9.930	10.059									10
10.928	10.914	11.055	10.731	11.531									11.5
12.529	12.172	12.360	12.770	12.462	12.062		12.256						12.5
13.538	13.810	13.882	13.790	14.654	13.709	13.698	13.902	13.719					14
15.552	15.215	15.665	15.526	16.014	15.192	15.640	15.436	15.538					16
17.007	17.262	17.290	17.522	18.620	17.267	17.252	17.510	17.279					18
20.376	19.379	19.581	19.762	20.348	19.607	19.698	19.883	19.570	19.591		19.284		20
22.262	21.900	21.982	22.333	22.950	22.156	22.368	22.470	22.228	22.139	21.900	21.793	22.006	22.4
25.131	24.918	24.842	25.409	25.428	25.048	25.278	25.400	25.113	25.027	24.783	24.835	25.095	25
27.548	27.847	28.263	28.294	29.507	28.175	28.576	28.571	28.389	28.151	28.015	27.711	28.368	28
32.057	31.634	31.568	32.259	32.979	32.005	32.143	32.458	31.983	31.979	31.513	31.478	31.909	31.5
35.432	34.400	35.883	35.080	37.462	34.804	35.513	35.294	36.275	34.775	35.797	34.231	36.248	35.5
40.700	39.435	39.021	40.215	40.739	39.809	39.705	40.461	39.445	39.666	38.927	38.241	39.417	40
44.259	42.617	44.752	43.460	46.702	43.117	45.518	43.725	45.221	43.082	44.626	42.407	45.187	45
50.737	48.536	48.341	49.496	50.489	48.106	49.190	48.798	48.069	49.065	48.226	48.297	48.833	50
54.891	54.582	55.055	55.841	57.479	55.203	56.022	55.981	55.658	55.158	54.824	54.294	55.815	55
62.446	60.158	61.892	61.348	64.616	60.885	62.978	61.722	62.567	60.815	61.744	59.863	62.520	63
70.200	68.553	68.239	69.909	71.543	68.355	69.438	70.335	68.984	69.301	68.076	68.216	68.833	71
77.400	76.121	77.761	76.506	81.184	79.977	79.127	77.639	78.610	76.497	77.575	76.100	78.551	80
88.200	85.645	86.826	83.865	88.645	87.670	91.242	87.739	86.772	86.445	85.631	86.260	89.993	90
101.790	99.684	97.150	97.593	97.391	102.020	100.617	99.921	98.051	98.263	96.770	100.414	101.039	100
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
129.631	126.535	124.952	123.904	125.263	129.526	126.641	126.733	124.690	124.870	123.049	127.487	129.232	125
143.498	137.599	143.532	134.739	143.889	140.951	147.769	137.815	141.643	135.788	139.789	138.634	146.807	140
155.683	157.741	156.062	154.462	158.471	161.470	160.090	157.939	154.029	155.605	152.012	156.928	159.639	160
179.284	170.467	178.930	168.902	179.375	174.496	184.212	170.735	176.576	169.324	174.250	171.748	183.009	180
205.487	194.143	193.365	190.107	193.846	198.732	199.075	194.448	190.821	191.386	186.310	195.605	197.772	200
222.086	218.248	220.222	215.712	220.769	223.408	226.722	218.992	217.324	215.377	214.464	219.991	225.240	224
252.907	240.034	247.566	235.631	248.182	246.322	254.874	241.012	244.369	237.407	243.094	242.444	253.208	250
264.910	274.210	272.957	266.510	273.636	280.592	281.815	274.641	269.366	270.802	265.822	275.274	279.178	280
313.470	302.191	311.045	295.909	311.818	309.534	320.226	302.666	306.852	298.215	302.913	304.455	318.130	315
357.210		342.784		343.636		352.902		338.273		333.823		350.596	355
393.680													400
													450

H/B

平行轴齿轮箱 Helical Gear Box

转动惯量 J1 Mass Moments of Inertia J1

类型 H1...H2...H3...H4... Types H1...H2...H3...H4...

规格 1...13 Sizes 1...13

转动惯量 J_2 (单位 kgm^2) 是指相对于齿轮箱输出轴d2的转动惯量, 可按下式计算: $J_2 = i^2 \times J_1$

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 J_2 in kgm^2 refers to the output shaft d2 of a gear box and is calculated with the following formula: $J_2 = i^2 \times J_1$

The mass moment of inertia J_1 in kgm^2 refers to the input shaft d1 of a gear box without fan. For shaft d1 with fan, J_L has to be added.

转动惯量J1 (单位 kgm^2) 是指相对于齿轮箱输入轴d1的转动惯量 Mass moment of inertia J1 in kgm^2 referring to shaft d1													
IN	齿轮箱规格 Gear box size												
	1	2	3	4	5	6	7	8	9	10	11	12	13
1.25	0.0048		0.0285		0.1570		0.4228		0.9271				
1.4	0.0042		0.0289		0.1452		0.2848		0.8418				
1.6	0.0037		0.0244		0.1249		0.2345		0.7272		1.7511		2.7188
1.8	0.0032		0.0197		0.1089		0.2045		0.6290		1.5899		2.2180
2.0	0.0030		0.0182		0.0991		0.2729		0.5969		1.4892		2.2044
2.24	0.0028		0.0167		0.0901		0.2390		0.6376		1.3975		2.5113
2.5	0.0023		0.0148		0.0816		0.2159		0.4820		1.1052		2.0270
2.8	0.0021		0.0134		0.0738		0.2010		0.4432		1.0406		2.0794
3.15	0.0018		0.0092		0.0590		0.1402		0.2165		0.6422		1.5719
3.55	0.0015		0.0081		0.0427		0.1225		0.2728		0.7597		1.4732
4.0	0.0012		0.0070		0.0361		0.1058		0.2373		0.6498		1.2885
4.5	0.0008		0.0052		0.0297		0.0981		0.1396		0.4696		0.8852
5.0	0.00074		0.0045		0.0275		0.0748		0.1707		0.4056		0.8902
5.6	0.0005		0.0030		0.0283		0.0540		0.1410		0.3747		0.7567
6			0.003		0.045		0.100		0.100		0.290		0.290
6.3			0.0055	0.0149	0.0329		0.0907		0.1995		0.5118		1.0873
7.1			0.0046	0.0134	0.0275		0.0748		0.1840		0.4472		0.9480
8.0			0.0041	0.0114	0.0245	0.0395	0.0665	0.1092	0.1446	0.2364	0.4906	0.8261	0.8255
9.0			0.0037	0.0102	0.0218	0.0323	0.0524	0.0884	0.1260	0.1916	0.3178	0.5491	0.7172
10			0.0030	0.0088	0.0182	0.0285	0.0550	0.0797	0.1007	0.1664	0.2740	0.4735	0.6211
11.2			0.0026	0.0076	0.0153	0.0252	0.0441	0.0685	0.0860	0.1443	0.2486	0.3750	0.5540
12.5			0.0020	0.0052	0.0116	0.0207	0.0334	0.0574	0.0742	0.1244	0.1899	0.3241	0.4817
14			0.0017	0.0045	0.0100	0.0179	0.0296	0.0520	0.0684	0.1052	0.1615	0.2895	0.3962
15			0.0014	0.0036	0.0084	0.0145	0.0234	0.0344	0.0509	0.0804	0.1348	0.2226	0.3317
18			0.0012	0.0032	0.0071	0.0115	0.0189	0.0308	0.0416	0.0676	0.1152	0.1972	0.2767
20			0.00094	0.0026	0.0060	0.0094	0.0140	0.0222	0.0342	0.0565	0.0892	0.1549	0.2320
22.4			0.00085	0.0023	0.0050	0.0079	0.0147	0.0211	0.0320	0.0460	0.0633	0.1328	
25						0.0067		0.0175		0.0421		0.1125	
28						0.0058		0.0143		0.0351		0.0928	
3				0.006	0.010	0.019	0.045	0.045	0.045	0.045	0.100	0.100	0.290
22.4													0.2807
25					0.0095		0.0152		0.0391		0.1028		0.2287
28					0.0084		0.0146		0.0325		0.0833		0.1886
31.5					0.0049	0.0069	0.0121	0.027	0.0289	0.0414	0.0724	0.1105	0.1629
35.5					0.0040	0.0057	0.0107	0.0154	0.0255	0.0342	0.0629	0.0892	0.1421
40					0.003	0.0050	0.0089	0.0129	0.0216	0.0303	0.0548	0.0773	0.1207
45					0.0022	0.0044	0.0076	0.0113	0.0189	0.0266	0.0461	0.0668	0.1075
50					0.0021	0.0038	0.0057	0.0085	0.0136	0.0223	0.0359	0.0577	0.0752
56					0.0019	0.0031	0.0049	0.0082	0.0117	0.0195	0.0283	0.0507	0.0644
63					0.0016	0.0024	0.0041	0.0060	0.0099	0.0142	0.0238	0.0360	0.0544
71					0.0012	0.0020	0.0032	0.0051	0.0074	0.0121	0.0190	0.0298	0.0420
80					0.0010	0.0017	0.0028	0.0040	0.0062	0.0102	0.0160	0.0250	0.0382
90					0.00087	0.0015	0.0023	0.0034	0.0052	0.0077	0.0145	0.0199	0.0316
100						0.0011		0.0029		0.0065		0.0167	
112						0.00090		0.0024		0.0054		0.0152	
3				0.006	0.009	0.010	0.010	0.020	0.020	0.045	0.045	0.045	
100							0.0033		0.0067		0.0175		0.0396
112							0.0027		0.0055		0.0136		0.0325
125							0.0024	0.0022	0.0049	0.0069	0.0137	0.0179	0.0287
140							0.0020	0.0028	0.0043	0.0059	0.0116	0.0160	0.0252
160							0.0018	0.0025	0.0035	0.0050	0.0097	0.0134	0.0208
180							0.0015	0.0021	0.0030	0.0044	0.0085	0.0119	0.0180
200							0.0012	0.0019	0.0025	0.0035	0.0059	0.0099	0.0134
224							0.00097	0.0018	0.0019	0.0031	0.0051	0.0086	0.0113
250							0.00081	0.0013	0.0016	0.0023	0.0043	0.0061	0.0095
280							0.00065	0.00095	0.0013	0.0020	0.0035	0.0052	0.0079
315							0.00050	0.00082	0.0011	0.0016	0.0030	0.0043	0.0067
355							0.00030	0.00050	0.00060	0.0014	0.0025	0.0036	0.0056
400								0.00030		0.0011		0.0021	
450								0.00050		0.00097		0.0025	

H/B系列

平行轴齿轮箱 Helical Gear Box

转动惯量 J1 Mass Moments of Inertia J1

类型 H1...H2...H3...H4... Type H1...H2...H3...H4...

规格 14...26 Sizes 14...26

转动惯量 J_2 (单位 kgm^2) 是指相对于齿轮箱输出轴d2的转动惯量, 可按下式计算: $J_2 = J_1 \times i^2$

转动惯量 J_1 (单位 kgm^2) 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 J_2 in kgm^2 refers to the output shaft d₂ of a gear box and is calculated with the following formula: $J_2 = J_1 \times i^2$

The mass moment of inertia J_1 in kgm^2 refers to the input shaft d₁ of a gear box without fan. For shaft d₁ with fan, J_L has to be added.

转动惯量J1 (单位kgm²) 是指相对于主减速机输出轴d1的转动惯量 Mass moment of inertia J ₁ in kgm² refers to shaft d ₁													
齿轮箱规格 Gear box size													
14	15	16	17	18	19	20	21	22	23	24	25	26	IM
													1.25
													1.4
													1.6
													1.8
	6.8055		11.6542		21.8584								2.0
	5.1491		10.3549		18.6429								2.25
	5.5216		9.3851		16.6673								2.5
	4.9573		9.4273		14.7985								2.6
	4.9040		8.7089		11.9859								3.15
	4.4057		8.8642		11.1568								3.55
	2.9306		5.0470		9.6179								4.0
	2.3019		4.0029		7.9907								4.5
	1.8681		3.5545		6.8571								5.0
	1.6508		3.0825		5.5019								5.6
	0.880		0.580		0.680								6.3
	2.6790		5.2045		10.5289								7.1
	2.3538	2.6931	4.3879	5.7591	9.3492	11.3721	12.2959						8.0
1.2838	2.0651	2.8207	3.9807	4.7520	6.1117	8.0564	10.7021	12.2160					9.0
1.1052	1.8889	2.2077	3.3688	4.1399	7.0345	8.8583	10.6061	11.4516					10
0.0653	1.5782	1.9235	2.9408	2.6018	6.3359	7.5421	8.1440	9.9064	13.89				11.2
0.0216	1.3719	1.6710	2.5560	2.1385	5.4956	6.5975	7.4416	8.685F	12.15	14.70			12.5
0.7014	1.1198	1.4455	2.0404	2.7059	4.4209	5.7819	6.6207	7.9585	9.45	12.87			14
0.0241	0.9970	1.1790	1.7645	2.1557	3.7959	4.6544	4.8939	5.9939	8.09	10.03	15.00		16
0.4721	0.8285	1.0050	1.6114	1.8573	3.2228	3.9795	4.1258	5.1024	6.85	8.54	12.83	16.31	18
0.4044	0.6700	0.8639	1.2153	1.5613	2.5900	3.3655	3.2191	4.3129	5.49	7.20	10.74	13.62	20
0.3434	0.5438	0.7022	1.0227	1.2714	2.1185	2.6865	2.7632	3.3678	4.96	5.75	8.99	11.37	22.4
0.3032		0.6655	1.1726		2.3021			2.8777		5.12		8.48	25
0.2542													28
													31.5
0.230	0.290	0.280	0.880	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690	35.5
	0.7409		0.8157		1.6434		3.7138		5.010		10.05		40
	0.6011	0.7863	0.6552	0.8548	1.3216	1.7165	3.0172	4.0904	3.987	5.163	8.05	10.46	45
0.2974	0.6202	0.6156	0.6869	0.6557	1.1429	1.3759	2.6285	3.0856	3.436	4.121	6.43	8.35	50
0.2413	0.4553	0.5351	0.4909	0.5090	0.9874	1.1671	2.2855	2.6841	2.937	3.533	5.53	8.06	56
0.1960	0.3689	0.4650	0.3943	0.5115	0.6515	0.822	1.6780	2.0986	2.511	3.024	4.74	6.72	63
0.1705	0.3198	0.3758	0.3088	0.4071	0.7352	0.8803	1.0081	2.0187	2.161	2.581	4.04	4.39	71
0.1483	0.2896	0.3254	0.3064	0.3616	0.5591	0.7552	1.4096	1.7402	1.819	2.195	3.44	4.17	80
0.1287	0.2106	0.2944	0.2241	0.3165	0.4647	0.6592	1.1308	1.4943	1.177	1.858	2.72	3.59	90
0.1114	0.1782	0.2146	0.1896	0.2325	0.3911	0.4786	1.0146	1.2159	1.234	1.514	2.32	3.00	100
0.0793	0.1491	0.1812	0.1652	0.1940	0.3344	0.4072	0.8665	1.0004	1.042	1.263	1.95	2.38	112
0.0669	0.1216	0.1515	0.1289	0.1518	0.2812	0.3431	0.6700	0.8788	0.882	1.065	1.48	2.00	125
0.0564	0.1004	0.1236	0.1093	0.1330	0.2352	0.2893	0.5346	0.6790	0.633	0.921	1.35	1.61	140
0.0435	0.0865	0.1050	0.0911	0.1126	0.1993	0.2410	0.4863	0.5412	0.575	0.848	1.11	1.38	160
0.0393		0.0777	0.0937		0.1943		0.4846			0.587		1.13	180
0.0329													200
0.045	0.100	0.100	0.100	0.100									224
	0.0990		0.1132		0.2401		0.6098		0.679		1.244		250
	0.0875	0.1089	0.0916	0.1149	0.1936	0.2436	0.5276	0.6147	0.642	0.688	1.150	1.363	280
0.0400	0.0769	0.0881	0.0796	0.0980	0.1681	0.1962	0.4561	0.5916	0.507	0.590	0.905	1.172	315
0.0331	0.0660	0.0766	0.0691	0.0880	0.1457	0.1702	0.3855	0.4594	0.340	0.507	0.894	1.007	355
0.0292	0.0578	0.0664	0.0589	0.0793	0.1254	0.1474	0.3140	0.3677	0.340	0.403	0.730	0.865	400
0.0256	0.0490	0.0573	0.0524	0.0680	0.1065	0.1280	0.2609	0.3156	0.333	0.344	0.644	0.737	450
0.0211	0.0386	0.0501	0.0393	0.0530	0.0811	0.1076	0.2157	0.2485	0.298	0.305	0.488	0.551	500
0.0183	0.0390	0.0382	0.0310	0.0396	0.0681	0.0830	0.1800	0.2076	0.196	0.226	0.417	0.442	560
0.0159	0.0250	0.0301	0.0252	0.0314	0.0583	0.0680	0.1506	0.1822	0.182	0.193	0.380	0.421	630
0.0115	0.0210	0.0251	0.0218	0.0282	0.0463	0.0574	0.1287	0.1514	0.136	0.163	0.211	0.256	710
0.0086	0.0177	0.0211	0.0164	0.0225	0.0404	0.0467	0.1007	0.1239	0.117	0.139	0.201	0.214	800
0.0080	0.0162	0.0177	0.0163	0.0198	0.0350	0.0427	0.0946	0.1103	0.073	0.118	0.212	0.263	900
0.0066		0.0162		0.0170		0.0386		0.0820		0.096		0.213	1000
0.0056													1120

垂直轴齿轮箱 Bevel-helical Gear Box

转动惯量 J1 Mass Moments of Inertia J1

类型 B2..,B3..,B4... Type B2..,B3..,B4...

规格 1...13 Sizes 1...13

转动惯量 J_2 (单位 kgm^2) 是指相对于齿轮箱输出轴 d2 的转动惯量, 可按下列公式: $J_2 = i^2 \times J_1$

转动惯量 J_1 (单位 kgm^2) 是指相对于齿轮箱输入轴 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 J_2 in kgm^2 refers to the output shaft d2 of a gear box and is calculated with the following formula: $J_2 = i^2 \times J_1$

The mass moment of inertia J_1 in kgm^2 refers to the input shaft d1 of a gear box without fan. For shaft d1 with fan, J_L has to be added.

转动惯量 J1 (单位 kgm^2) 是指相对于齿轮箱输入轴 d1 的转动惯量 Mass moment of inertia J1 in kgm^2 referring to shaft d1													
规格 Size	齿轮箱规格 Gearbox size												
	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		0.1986		0.4403		1.2743		2.7700
5.6	0.0019	0.0043	0.0096	0.0262	0.0804		0.1691		0.3744		1.0697		2.3418
6.3	0.0016	0.0035	0.0076	0.0228	0.0496	0.0905	0.1365	0.2576	0.2968	0.4980	0.8428	1.4755	1.8526
7.1	0.0014	0.0033	0.0071	0.0197	0.0430	0.0687	0.1267	0.1691	0.2343	0.4223	0.7257	1.2573	1.6220
8.0	0.0012	0.0027	0.0057	0.0150	0.0321	0.0555	0.0875	0.1542	0.1674	0.3346	0.5250	0.9645	1.1744
9.0	0.0010	0.0023	0.0052	0.0128	0.0295	0.0470	0.0736	0.1352	0.1709	0.2637	0.4784	0.8231	1.0617
10	0.00084	0.0018	0.0043	0.0104	0.0250	0.0363	0.0581	0.0945	0.1456	0.2037	0.4072	0.6005	0.8214
11.3	0.00076	0.0017	0.0037	0.0089	0.0214	0.0327	0.0580	0.0879	0.1241	0.1897	0.3493	0.5302	0.7859
12.5	0.00054	0.0012	0.0028			0.0274		0.0732		0.1599		0.4557	
14	0.00043	0.00098	0.0023			0.0235		0.0650		0.1563		0.3909	
15	0.00040	0.00092	0.0019										
16	0.00031	0.00083	0.0015										
J_L	0.005	0.006	0.010	0.020	0.045	0.045	0.100	0.100	0.100	0.100	0.290	0.290	0.680
12.5				0.0073	0.0159		0.0445		0.0905		0.2740		0.6130
14				0.0071	0.0156		0.0436		0.0867		0.2671		0.6028
16				0.0060	0.0136	0.0174	0.0369	0.0407	0.0642	0.1084	0.2344	0.3029	0.5141
18				0.0059	0.0133	0.0168	0.0365	0.0474	0.0825	0.1040	0.2500	0.2925	0.5068
20			0.0023	0.0055	0.0124	0.0145	0.0308	0.0393	0.0770	0.0897	0.2146	0.2527	0.4742
22.4			0.0021	0.0047	0.0105	0.0141	0.0282	0.0365	0.0657	0.0870	0.1622	0.2461	0.4026
25			0.0017	0.0038	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	0.0293	0.0452	0.0667	0.1286	0.1906	0.2714
31.5			0.0013	0.0029	0.0062	0.0097	0.0142	0.0203	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			0.00099	0.0021	0.0041	0.0065	0.0110	0.0163	0.0266	0.0351	0.0720	0.0983	0.1539
45			0.00083	0.0018	0.0039	0.0057	0.0098	0.0142	0.0227	0.0326	0.0626	0.0977	0.1912
50			0.00057	0.0013	0.0030	0.0043	0.0081	0.0114	0.0175	0.0274	0.0489	0.0751	0.1028
56			0.00046	0.0011	0.0025	0.0040	0.0068	0.0102	0.0146	0.0225	0.0364	0.0549	0.0893
63			0.00042	0.00037	0.0021	0.0031	0.0059	0.0084	0.0124	0.0184	0.0326	0.0488	0.0725
71			0.00033	0.00067	0.0014	0.0026	0.0047	0.0070	0.0100	0.0150	0.0262	0.0400	0.0585
80						0.0021		0.0067		0.0128		0.0339	
90						0.0016		0.0048		0.0102		0.0272	
J_L		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	0.0066	0.0131	0.0250	0.0366	0.0549
112					0.0016	0.0022	0.0037	0.0049	0.0079	0.0111	0.0215	0.0297	0.0485
125					0.0014	0.0019	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	0.0028	0.0040	0.0058	0.0101	0.0143	0.0233
200					0.00058	0.00092	0.0013	0.0020	0.0031	0.0043	0.0063	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	0.0094	0.0127
260					0.00033	0.00047	0.00069	0.0011	0.0016	0.0026	0.0046	0.0071	0.0102
315					0.00026	0.00043	0.00058	0.00091	0.0014	0.0021	0.0040	0.0061	0.0081
355						0.00034		0.00069		0.0016		0.0046	
400						0.00028		0.00058		0.0014		0.0041	

H/B系列



垂直轴齿轮箱 Bevel-helical Gear Box

转动惯量 J1 Mass Moments of Inertia J1

类型 B2...B3...B4... Type B2...B3...B4...

规格 14...26 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: $J_2 = I_{d_2} \times J_1$

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 box and is calculated with the following formula: $J_2 = I_{d_2} \times J_1$

The mass moment of inertia J_1 in kgm^2 refers to the input shaft d_1 of a gear box without fan. For shaft d_1 with fan, J_L has to be added.

转动惯量J1 (单位kgm ²) 是指相对于垂直轴输出轴d1的转动惯量 Mass moment of inertia J1 in kgm ² relating to shaft d1													
齿轮箱规格 Gear box size													H/B
14	15	16	17	18	19	20	21	22	23	24	25	26	
	6.1753												6.0
	5.2415	5.6007	10.0549										5.6
3.0902	4.4466	5.6746	8.5734										6.3
2.5972	3.7298	4.7079	7.1324	9.0369									7.1
2.0500	2.7508	3.9356	5.0109	7.4979									8.0
1.7802	2.5048	2.9185	4.6185	5.2942									9.0
1.2968	2.1468	2.6998	2.8518	6.7581									10
1.1655	1.7964	2.2485	3.3184	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									3L
	1.6952		3.4843		7.6806		8.3877						12.5
	1.6558	1.7505	3.4451	5.6858	7.7305	8.0659	8.2166	8.6052					14
0.6606	1.4797	1.7023	3.0661	3.5997	6.2989	7.8400	7.4408	8.9643					16
0.6456	1.4546	1.6152	3.0418	3.1370	6.8396	6.9560	7.2717	7.4142					18
0.5424	1.3716	1.4848	2.8006	3.1004	6.3626	6.8593	6.7649	7.8972	12.93				20
0.5318	1.1459	1.3950	2.4284	2.9267	5.4882	6.4527	5.4027	6.8942	10.60	13.15	13.51		20.4
0.4998	0.9016	1.1844	1.8198	2.4645	4.2514	5.5587	4.8075	5.8965	8.89	11.03	11.00		25
0.4180	0.7728	0.9153	1.6758	1.9474	3.4203	4.6166	4.0148	4.8800	7.45	9.12	9.06	11.34	28
0.3317	0.5615	0.7842	1.2169	1.6981	3.0612	3.8639	2.9719	4.0729	5.24	7.55	6.48	9.30	31.8
0.2812	0.5082	0.5703	1.0960	1.2332	2.5642	2.8550	2.6917	3.0169	4.70	5.32	5.76	6.68	35.5
0.2079	0.4388	0.5137	0.8481	1.1114	2.1520	2.3953	2.3860	2.7287	3.98	4.77	4.76	5.82	40
0.1882	0.3694	0.4363	0.8188	0.9592	1.8351	2.2129	1.9182	2.0180	3.42	4.00	4.11	4.90	45
0.1687	0.2765	0.3743	0.5713	0.8263	1.4000	1.6537	1.4641	1.9429	2.58	3.16	3.11	4.21	50
0.1353	0.2294	0.2902	0.4892	0.5767	1.1439	1.4144	1.1946	1.4830	2.16	2.61	2.58	3.19	55
0.1060	0.1956	0.2314	0.4054	0.4750	1.0429	1.1653	1.0845	1.2097	1.98	2.19	2.33	2.65	63
0.0878	0.1587	0.1981	0.3233	0.4101	0.8730	1.0582	0.9051	1.0970	1.62	2.01	1.88	2.48	71
0.0746		0.1605		0.3369		0.8802		0.9147		1.64		1.93	80
0.6601													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	3L
	0.2219		0.2276		0.4955		1.41.20		1.519		3.156		80
	0.1883	0.2294	0.1931	0.2807	0.4203	0.5009	1.1776	1.4199	1.261	1.593	2.645	3.188	90
0.0807	0.1507	0.1898	0.1542	0.1955	0.3327	0.4248	0.9261	1.1638	0.081	1.272	2.087	2.669	100
0.0698	0.1323	0.1516	0.1352	0.1581	0.2821	0.3980	0.7924	0.9309	0.844	0.999	1.810	2.106	112
0.0566	0.0964	0.1130	0.0945	0.1367	0.2025	0.2848	0.5767	0.7962	0.617	0.851	1.320	1.625	125
0.0471	0.0861	0.0969	0.0879	0.0957	0.1887	0.2108	0.5190	0.5796	0.583	0.622	1.195	1.331	140
0.0394	0.0738	0.0866	0.0752	0.0889	0.1691	0.1905	0.4404	0.5215	0.466	0.557	1.015	1.194	160
0.0327	0.0638	0.0742	0.0630	0.0768	0.1357	0.1605	0.3778	0.4428	0.400	0.470	0.878	1.022	180
0.0274	0.0481	0.0641	0.0490	0.0657	0.1003	0.1368	0.3089	0.3734	0.300	0.403	0.598	0.882	200
0.0235	0.0398	0.0453	0.0400	0.0495	0.0880	0.1071	0.2335	0.2842	0.247	0.302	0.504	0.620	224
0.0164	0.0333	0.0399	0.0339	0.0404	0.0747	0.0887	0.1998	0.2345	0.211	0.249	0.438	0.508	250
0.0151	0.0267	0.0335	0.0272	0.0343	0.0603	0.0753	0.1819	0.2007	0.170	0.212	0.355	0.441	280
0.0128	0.0217	0.0269	0.0221	0.0275	0.0493	0.0607	0.1289	0.1625	0.136	0.172	0.306	0.358	315
0.0103		0.0218		0.0223		0.0497		0.1294		0.137		0.268	355
0.0082													400

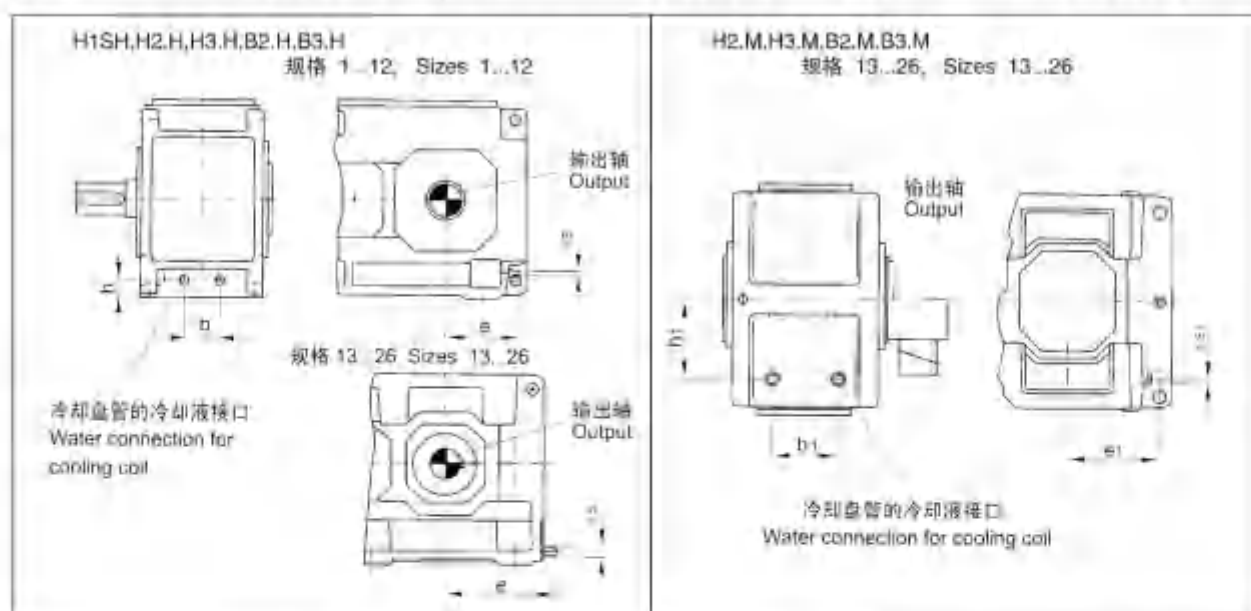
H/B

齿轮箱 Gear Box

冷却盘管 Cooling Coils 卧式安装 Horizontal

类型 H..H,H..M,B..H,B..M Types H..H,H..M,B..H,B..M 规格 1...26 Sizes 1...26

H/B



规格 Size	类型 H1SH Type H1SH					类型 H2H,B3H Type H2H,B3H					类型 H3H Type H3H					类型 B2H Type B2H				
	D mm	d mm	h mm	f	t	D mm	d mm	h mm	f	t	D mm	d mm	h mm	f	t	D mm	d mm	h mm	f	t
1	30	150	45	G1/4	4	—	—	—	—	—	—	—	—	—	—	64	125	40	G1/4	4
2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	78	130	40	G1/4	4
3	46	205	74	G1/2	4	64	130	55	G1/2	4	—	—	—	—	—	58	140	52	G1/4	4
4	—	—	—	—	—	94	155	80	G1/2	4	—	—	—	—	—	74	160	64	G1/2	4
5	68	270	90	G1/2	4	68	170	64	G1/2	4	70	175	60	G1/2	4	130	175	62	G1/2	8
6	—	—	—	—	—	70	215	68	G1/2	4	70	220	69	G1/2	4	120	220	68	G1/2	4
7	124	310	135	G1/2	4	100	210	83	G1/2	4	80	210	83	G1/2	4	140	210	80	G1/2	8
8	—	—	—	—	—	100	270	83	G1/2	4	80	270	83	G1/2	4	140	270	80	G1/2	4
9	116	365	110	G1/2	8	140	245	110	G1/2	8	150	245	107	G1/2	4	232	245	110	G1/2	8
10	—	—	—	—	—	100	295	95	G1/2	8	90	295	95	G1/2	4	150	295	90	G1/2	8
11	146	425	130	G1/2	8	110	275	95	G1/2	8	200	275	115	G1/2	8	312	275	115	G1/2	8
12	—	—	—	—	—	200	360	109	G1/2	8	200	360	115	G1/2	8	300	360	115	G1/2	8
13	152	480	150	G1/2	8	252	455	116	G1/2	8	252	460	116	G1/2	8	324	460	116	G1/2	8
14	—	—	—	—	—	252	525	116	G1/2	8	252	530	116	G1/2	8	324	530	116	G1/2	8
15	172	550	130	G1/2	8	290	535	119	G1/2	8	290	540	119	G1/2	8	396	540	119	G1/2	8
16	—	—	—	—	—	290	580	119	G1/2	8	290	585	119	G1/2	8	396	585	119	G1/2	8
17	202	600	145	G1/2	8	340	575	134	G1/2	8	300	580	134	G1/2	8	468	580	134	G1/2	8
18	—	—	—	—	—	340	635	134	G1/2	8	300	640	134	G1/2	8	468	640	134	G1/2	8
19	根据用户要求供货 On request					根据用户要求供货 On request					根据用户要求供货 On request					—				
20-26	—					—					—					—				

规格 Size	类型 H2M/B3 Type H2M/B3					类型 H3M Type H3M					类型 B2M Type B2M				
	b1 mm	e1 mm	f1 mm	s1	t1	D1 mm	d1 mm	h1 mm	b1	t1	b1 mm	e1 mm	f1 mm	s1	t1
13	252	335	300	G1/2	8	252	335	300	G1/2	8	324	335	300	G1/2	8
14	252	405	300	G1/2	8	252	405	300	G1/2	8	324	405	300	G1/2	8
15	290	395	335	G1/2	8	290	395	340	G1/2	8	396	390	345	G1/2	8
16	290	440	335	G1/2	8	290	440	340	G1/2	8	396	435	345	G1/2	8
17	340	425	380	G1/2	8	300	425	380	G1/2	8	324	425	395	G1/2	8
18	340	485	380	G1/2	8	300	485	380	G1/2	8	324	485	395	G1/2	8
19-26	根据用户要求供货 On request					根据用户要求供货 On request					—				

1) 冷却液需要量(L/min)

Required cooling water quantity (L/min)

冷却盘管适用于淡水、海水和半咸水。

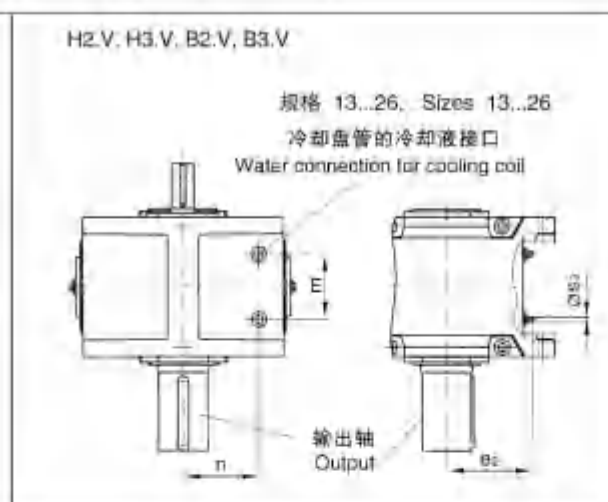
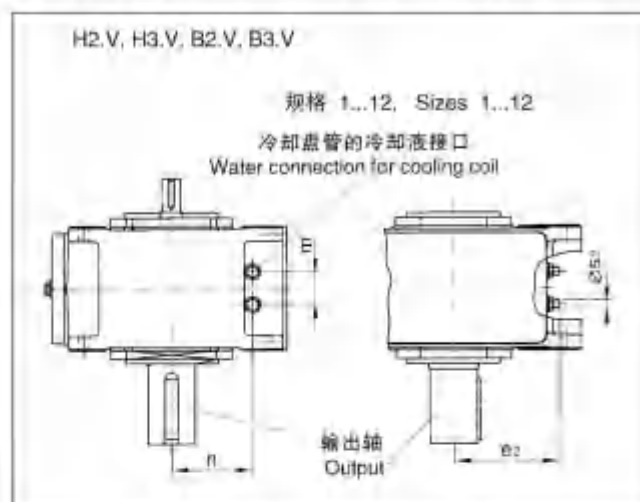
Cooling coil suitable for fresh, sea and brackish.

H/B系列



齿轮箱 Gear Box
类型 H..V,B..V

冷却盘管 Cooling Coils 立式安装 Vertical
Type H..V,B..V 规格 1...26 Sizes 1...26



H/B

规格 Size	类型 H2.V/B..V Type H2.V/B3.V					类型 H3.V Type H3.V					类型 B2.V Type B2.V				
	m mm	n mm	a2 mm	q2	t)	m mm	n mm	a2 mm	q2	t)	m mm	n mm	a2 mm	q2	t)
1	-	-	-	-	-	-	-	-	-	-	64	90	125	G1/4	4
2	-	-	-	-	-	-	-	-	-	-	78	105	130	G1/4	4
3	34	120	130	G1/2	4	-	-	-	-	-	58	123	140	G1/2	4
4	34	140	155	G1/2	4	-	-	-	-	-	74	146	160	G1/2	4
5	58	158	170	G1/2	4	70	170	175	G1/2	4	130	168	175	G1/2	8
6	70	182	215	G1/2	4	70	161	220	G1/2	4	120	162	220	G1/2	4
7	100	197	210	G1/2	4	80	197	210	G1/2	4	140	200	210	G1/2	8
8	100	197	270	G1/2	4	80	197	270	G1/2	4	140	200	270	G1/2	4
9	140	210	245	G1/2	8	150	213	245	G1/2	4	232	210	245	G1/2	8
10	100	225	295	G1/2	8	90	225	295	G1/2	8	150	230	295	G1/2	8
11	110	285	275	G1/2	8	200	285	275	G1/2	8	312	285	275	G1/2	8
12	200	271	360	G1/2	8	200	265	360	G1/2	8	300	285	360	G1/2	8
13	252	300	335	G1/2	8	252	300	335	G1/2	8	324	300	335	G1/2	8
14	252	300	405	G1/2	8	252	300	405	G1/2	8	324	300	405	G1/2	8
15	290	335	395	G1/2	8	290	340	395	G1/2	8	396	345	390	G1/2	8
16	290	335	440	G1/2	8	290	340	440	G1/2	8	396	345	435	G1/2	8
17	340	360	425	G1/2	8	300	380	425	G1/2	8	324	395	425	G1/2	8
18	340	380	485	G1/2	8	300	380	485	G1/2	8	324	395	485	G1/2	8
19-26	根据用户要求供货 On request					根据用户要求供货 On request					-				

冷却盘管适用于 Cooling coil for													
类型 Types	规格 Size	浸油润滑 Dip lubrication				法兰泵强制润滑 Forced lubrication with flanged on pump				电动机强制润滑 Forced lubrication with motor pump			
		适用布置形式 For design				适用布置形式 For design				适用布置形式 For design			
		A	B	C	D	A	B	C	D	A	B	C	D
H2 V	4	×	×	×	×	—	—	—	—				
	5-12	×	×	×	×	—	×	—	×				
	13-18	—	—	—	—	—	×	—	×				
H3,V	5-12	×	×	×	×	—	×	—	×		根据用户需求供货 On request		
	13-18	—	—	—	—	—	×	—	×				
B2 V	4	×	×	×	×	—	—	—	—				
	5-12	×	×	×	×	—	×	—	×				
	13-18	—	—	—	—	×	×	—	—				
B3,V	4	×	×	×	×	—	—	—	—				
	5-12	×	×	×	×	—	—	×	×				
	13-18	—	—	—	—	—	—	×	×				

X=可供 X = Possible variants

1) 冷却液需要量(L/min) Required cooling water quantity (L/min)

冷却盘管适用于淡水、海水和半咸水。Cooling coil suitable for fresh, sea and brackish.

齿轮箱 Gear Box 润滑油供给方式可选方案 Oil Supply for
 类型 H2...H4, B2...B4 Types H2... H4, B2...B4
 规格 1...18立式安装 Sizes 1...18 Vertical

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 box can be derived from table 1.

表1 Table 1				
类型 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
H2.V	4 5...12 13...18	× × —	— × ×	— — —
H3.V	5...12 13...18	× —	× ×	× ×
H4.V	5...12 13...18	× —	× —	× ×
B2.V	4 5...12 13...18	× × —	— × ×	— × ×
B3.V	4 5...12 13...18	× × —	— × ×	— × ×
B4.V	5...12 13...18	× —	× —	× ×

X=可供货 X = Possible variants

1) 采用实心轴、带储油管的齿轮箱所用的各种润滑油供给方式见111页表14。

1) For possible variants for gear box with solid shaft and oil retaining tube, see page111, table 14.

推荐供油方式 Prefer redorder:

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

当用浸油润滑时, 所用需要润滑的零部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。

选择依据参见105页。

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.

criteria for selection, see page 105

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油泵或单独的电动油泵进行飞溅润滑。

选择依据参见106-110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 pages 106-110

H/B系列



齿轮箱 Gear Box 浸油润滑方式 Dip Lubrication for

类型 H2...H4, B2...B4 Type H2... H4, B2...B4

规格 1...12立式安装 Sizes 1...12 Vertical

当选用浸油润滑方式时,应满足下列要求: a)最大输入转速N1, 参见表2; b)允许油温参见表3。

For the design with dip lubrication the following criteria have to be observed:

a)Maximum input speed n1, See table 2. b)Permissible oil temperatures, see table 3.

H/B

表2 Table 2												
规格 Size	类型 Type											
	H2.V		H3.V		H4.V		B2.V		B3.V		B4.V	
	iN	n1 max	iN	n1 max	iN	n1 max	iN	n1 max	iN	n1 max	iN	n1 max
1	—	—	—	—	—	—	5-6.3 7.1-8 9-18	1200 1500 1800	—	—	—	—
2	—	—	—	—	—	—	5-5.6 6.3-8 9-10 11.2-18	1000 1200 1500 1800	—	—	—	—
3	6.3-7.1 8-10 11.2-22.4	1200 1500 1800	—	—	—	—	5-7.1 8-9 10-12.5 14-18	1000 1200 1500 1800	20-71	1800	—	—
4	6.3-10 11.2-12.5 14-22.4	1200 1500 1800	—	—	—	—	5-5.6 6.3-7.1 8-9 10-11.2	750 900 1000 1200	12.5-71	1800	—	—
5	6.3-9 10-12.5 14-16 18-22.4	1000 1200 1500 1800	25-90	1800	—	—	6.3-7.1 8-9 10-11.2	750 900 1000	12.5-71	1800	80-315	1800
6	8-11.2 12.5-16 18-20 22.4-28	1000 1200 1500 1800	31.5-112	1800	—	—	9 10-11.2 12.5-14	750 900 1000	16-90	1800	100-400	1800
7	6.3-7.1 8-9 10-11.2 12.5-16 18-22.4	750 900 1000 1200 1500	25-90	1800	100-355	1800	9-10 11.2	750 900	12.5-25 28-71	1500 1800	80-315	1800
8	8-9 10-11.2 12.5-14 16-20 22.4-28	750 900 1000 1200 1500	31.5-112	1800	125-450	1800	11.2-12.5 14	750 900	16-31.5 35.5-90	1500 1800	100-400	1800
9	6.3-7.1 8-10 11.2-22.4	1200 1500 1800	25-90	1800	100-355	1800	5-5.6 6.3-7.1 8-10 11.2	900 1000 1200 1500	12.5-71	1800	80-315	1800
10	8-9 10-12.5 14-28	1200 1500 1800	31.5-112	1800	125-450	1800	6.3-7.1 8-9 10-12.5 14	900 1000 1200 1500	16-90	1800	100-400	1800
11	6.3-7.1 8-10 11.2-12.5 14-22.4	1000 1200 1500 1800	25-90	1800	100-355	1800	5.6-6.3 7.1-8 9-10 11.2	750 900 1000 1200	12.5-22.4 25-71	1500 1800	80-315	1800
12	8-9 10-12.5 14-16 18-28	1000 1200 1500 1800	31.5-112	1800	125-450	1800	7.1-8 9-10 11.2-12.5 14	750 900 1000 1200	16-28 31.5-90	1500 1800	100-400	1800

n1和iN值不在表2所列范围内的齿轮箱必须采用强制润滑方式。

Gear box with n1 and iN which are not listed in table 2 must be designed for forced lubrication

表3 Table 3		
40℃以下的ISO—VG粘度 mm ² /s (cst) Viscosity ISO - VG at 40 °C in mm ² /s (cst)	浸油允许极限温度, °C Permissible temperature limit in-°C for dip lubrication	
	矿物油 Mineral oil	合成油 Synthetic oil
	VG 220 -15 VG 320 -12 VG 460 -9	-25 -25 -25

若油温低于表中列数值,则必须对润滑油进行加热。

If the temperatures are below the values as listed in the table, the oil must be heated.

当采用浸油润滑时,油温不得低于所用润滑油的倾点。

In case of dip lubrication, the oil temperature must not blow the pour point of the selected oil.

平行轴齿轮箱 Helical Gear Box
类型 H2...H4 Types H2...H4

强制润滑方式 Forced Lubrication for
规格 5...18立式安装 Sizes 5...18 Vertical

表4 Table4

40℃以下的ISO—VG粘度 mm ² /s (cst) Viscosity ISO – VG at 40 °C in mm ² /s(cst)	强制润滑允许极限温度℃ Permissible temperature limit in °C forced feed lubrication			
	矿物油 Mineral oil		合成油 Synthetic oil	
	最低 min	最高 max	最低 min	最高 max
VG 220	10	80	0	90
VG 320	15	90	5	100
VG 460	20	95	10	105

强制润滑:

当使用强制润滑时,工作粘度不得超过1800 cst。最低工作粘度不得小于25 cst。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 1800 cst 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 table4,dip Lubrication has to be provided or the oil must Beheated.

表5 Table 5

立式安装平行轴齿轮箱采用法兰泵 Assignment of flanged-on pumps to vertical helical gear box								
类型 Types	n1 1/min	齿轮箱规格 Gear box size		法兰泵规格 Flanged-on pumps size	齿轮箱规格 Gear box size			法兰泵规格 Flanged-on pumps size
		5,7,9,11	6,8,10,12		13,15,17	14	16,18	
		速比 Ratio iN			速比 Ratio iN			
H2.V ¹⁾	750-1800	6.3-22.4	8-28	KSW1	6.3-22.4	8-28	7.1-25	KSW2
H3.V ¹⁾	1201-1800	25-35.5	31.5-45	KSW2	22.4-35.5	28-45	25-40	KSW3
		40-71	50-90	KSW3	40-71	50-90	45-80	KSW4
		80-90	100-112	*	80-90	100-112	90-100	*
	901-1200	25-50	31.5-63	KSW3	22.4-25	28-31.5	25-28	KSW3
		56-90	71-112	*	28-45	35.5-56	31.5-50	KSW4
					50-90	63-112	56-100	*
	750-900	25-35.5	31.5-45	KSW3	22.4-35.5	28-45	25-40	KSW4
		40-90	50-112	*	40-90	50-112	45-100	*
H4.V ¹⁾	1201-1800	100-180	125-224	KSW3	100-355	125-450	112-400	*
		200-335	250-450	*				
	901-1200	100-125	125-160	KSW3				
		140-335	180-450	*				
	750-900							
		100-335	125-450	*				
1) 所需电动机, 参见表7 1) = Motor pump require, see table 7.								

¹⁾ 所需电动机, 参见表7

²⁾ Motor pump require,see table 7.

1) 布置形式B.D
Design: B.D

H/B系列

平行轴齿轮箱 Helical Gear Box
类型 H2...H4 Types H2...H4

强制润滑方式 Forced Lubrication for
规格 5...18立式安装 Sizes 5...18 Vertical

H/B

表6 Table 6								
立式安装平行轴齿轮箱采用法兰泵 Assignment of flanged-on pumps to vertical helical gear box								
类型 Types	n1 r/min	齿轮箱规格 Gear box size		法兰泵规格 Flanged-on pumps size	齿轮箱规格 Gear box size			法兰泵规格 Flanged-on pumps size
		5,7,9,11	6,8,10,12		13,15,17	14	16,18	
		速比 Ratio iN			速比 Ratio iN			
H2.V ¹⁾	750-1800	6.3-22.4	8-28	KSW1	6.3-22.4	8-28	7.1-25	KSW2
H3.V ¹⁾	1201-1800	25-40	31.5-50	KSW2	22.4-50	28-63	25-56	KSW3
		45-90	56-112	KSW3	56-90	71-112	63-90	KSW4
							100	*
	901-1200	25-56	31.5-71	KSW3	22.4-31.5	28-40	25-35.5	KSW3
		63-90	80-112	*	35.5-56	45-71	40-63	KSW4
					63-90	80-112	71-100	*
	750-900	25-45	31.5-56	KSW3	22.4-25	28-31.5	25-28	KSW3
		50-90	63-112	*	28-45	35.5-56	31.5-50	KSW4
					50-90	63-112	56-100	*
H4.V ¹⁾	1201-1800	100-224	125-280	KSW3	100-355	125-450	112-400	*
		250-355	315-450	*				
	901-1200	100-140	125-180	KSW3				
		160-355	200-450	*				
	750-900	100-112	125-140	KSW3				
		125-335	160-450	*				
* = 所需电动机, 参见表7 * = Motor pump requires, see table 7.								

1) 布置形式A,C Design A,C

表7 Table 7			
立式安装平行轴齿轮箱采用法兰泵 Assignment of flanged-on pumps to vertical helical gear box			
类型 Types	规格 Sizes	布置方式 Design	油泵 Pump
H2.V	5...18	A/B/C/D	1)
H3.V	5...18	A/C	SF 2/8
	5...12	B/D	SF 2/8
	13...18		SF 2/13
H4.V	7...12	A/C	SF 2/8
	13...18		SF 2/13
	7...18	B/D	SF 2/13

1) 只提供法兰泵 Flanged-on pump only

垂直轴齿轮箱 Bevel-helical Gear Box

强制润滑方式 Forced Lubrication for

类型 B2...B4 Type B2...B4

规格 5...18 Sizes 5 ... 18 立式安装 Vertical

表8 Table8

40℃以下的ISOVG-粘度 mm ² /s (cSt) Viscosity ISO - Vgat 40 °C in mm ² /s(cSt)	强制润滑允许极限温度℃ Permissible temperature limit in °C forced feed lubrication			
	矿物油 Mineral oil		合成油 Synthetic oil	
	最低 min	最高 max	最低 min	最高 max
VG 220	10	80	0	90
VG 320	15	90	5	100
VG 460	20	95	10	105

强制润滑 Forced lubrication :

当使用强制润滑时, 工作粘度不得超过1800 cSt.

最低工作粘度不得小于25 cSt.

当油温低于表8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。

In case of forced lubrication, the operating Viscosity 1800 cst 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 table8, dip Lubrication has to be provided or the oil must be heated.

表9 Table- 9

图9 Table 9								
立式安装平行轴齿轮箱采用法兰泵 Assignment of flanged-on pumps to vertical helical gear box								
类型 Types	n1 1/min	齿轮箱规格 Gear box size		法兰泵规格 Flanged-on pump size	齿轮箱规格 Gear box size			法兰泵规格 Flanged-on pumps size
		5,7,9,11	6,8,10,12		13,15,17	14	16,18	
		速比 Ratio iN			速比 Ratio iN			
B2.V ¹⁾	1201-1800	5-6,3	6,3-8	KSW1	5-8	6,3-10	5,6-9	KSW2
		7,1-11,2	9-14	KSW2	9-11,2	11,2-14	10-12,5	KSW3
	901-1200	5-8	6,3-10	KSW2	5	6,3	5,6	KSW2
		9-11,2	11,2-14	KSW3	5,6-11,2	7,1-14	6,3-12,5	KSW3
	750-900	5-6,3	6,3-8	KSW2	5-10	6,3-12,5	5,6-11,2	KSW3
		7,1-10	9-12,5	KSW3	11,2	14	12,5	*
B3.V ¹⁾	1201-1800	12,5-35,5	16-45	KSW2	12,5-35,5	16-45	14-40	KSW3
		40-71	50-90	KSW3	40-71	50-90	45-80	KSW4
	901-1200	12,5-25	16-31,5	KSW2	12,5-25	16-31,5	14-28	KSW3
		28-50	35,5-63	KSW3	28-50	35,5-63	31,5-56	KSW4
	750-900	5,6-71	71-90	*	5,6-71	71-90	63-80	*
		12,5-35,5	16-45	KSW3	12,5-35,5	16-45	14-40	KSW4
B4.V ¹⁾	1201-1800	80-125	100-150	KSW2	60-315	100-400	90-355	*
		140-250	180-315	KSW3				
		280-315	355-400	*				
	901-1200	80-180	100-224	KSW3				
		200-315	250-400	*				
	750-900	80-125	100-150	KSW3				
140-315		180-400	*					
*) 新泵箱就泵, 参见表11								

¹⁾ 所需电动机, 参见表11

²⁾ Motor pump requie, see table 11.

1) 布置形式A,B Design A,B
2) 布置形式C,D Design C,D

H/B系列



垂直轴齿轮箱 Bevel-helical Gear Box

强制润滑方式 Forced Lubrication for

类型 B2...B4 Type B2...B4

规格 5...18 Sizes 5 ... 18 立式安装 Vertical

表10 Table 10								
立式安装直交齿轮箱机采用法兰泵 Assignment of flanged-on pumps to vertical bevel-helical gear box								
类型 Types	n1 r/min	齿轮箱规格 Gear box size		法兰泵规格 Flanged-on pump size	齿轮箱规格 Gear box size			法兰泵规格 Flanged-on pumps size
		5,7,9,11	6,8,10,12		13,15,17	14	16,18	
		速比 Ratio			速比 Ratio			
		iN			iN			
B2.V ¹⁾	1201-1800	5.6-6.3	6.3-8	KSW1	5-6.3	6.3-8	5.6-7.1	KSW2
		7.1-11.2	9-14	KSW2	7.1-11.2	9-14	8-12.5	KSW3
	901-1200	5-8	6.3-10	KSW2	5-10	6.3-12.5	5.6-11.2	KSW3
		9-11.2	11.2-14	KSW3	11.2	14	12.5	*
	750-900	5-6.3	6.3-8	KSW2	5-7.1	6.3-9	5.6-8	KSW3
		7.1-10	9-12.5	KSW3	8-11.2	10-14	9-12.5	*
B3.V ²⁾	1201-1800	12.5-35.5	16-45	KSW2	12.5-22.4	16-28	14-25	KSW2
		40-71	50-90	KSW3	25-40	31.5-63	28-56	KSW3
					56-71	71-90	63-80	KSW4
	901-1200	12.5-25	16-31.5	KSW2	12.5-35.5	16-45	14-40	KSW3
		28-50	35.5-63	KSW3	40-56	50-71	45-63	KSW4
		56-71	71-90	*	63-71	80-90	71-80	*
	750-900	12.5-35.5	16-45	KSW3	12.5-25	16-31.5	14-28	KSW3
		40-71	50-90	*	28-40	35.5-50	31.5-45	KSW4
					45-71	56-90	50-80	*
B4.V ²⁾	1201-1800	80-100	100-224	KSW3	80-315	100-400	90-355	*
		200-315	250-400					
	901-1200	80-125	100-160	KSW3				
		140-315	180-400	*				
	750-900	80-90	100-112	KSW3				
100-315		125-400	*					
1) 所需电动泵, 参见表11 2) Motor pump require, see table 11								

¹⁾ = 所需电动泵, 参见表11

²⁾ = Motor pump require, see table 11.

1) 布置形式C,D Design C,D

2) 布置形式A,B Design A,B

表11 Table 11			
立式安装直交齿轮箱机采用法兰泵 Assignment of flanged-on pumps to vertical bevel-helical gear box			
类型 Types	规格 Size	布置方式 Design	油泵 Pump
B2.V	5...12	A/B	SF 2/5
	13...18		SF 2/6
	5...18	C/D	SF 2/6
B3.V	5...12	A/B	SF 2/8
	13...18		SF 2/13
	5...12	C/D	SF 2/8
	13...18		SF 2/13
	5...18		SF 2/13
B4.V	5...12	A/B	SF 2/8
	13...18		SF 2/13
	5...12	C/D	SF 2/8
	13...18		SF 2/13

齿轮箱 Gear Box 电动泵强制润滑方式 Mounted Motor Pumps

类型 H3,H4,B2,B3,B4 Type H3,H4,B2,B3,B4

立式安装 Vertical 规格 5...18 Sizes 5...18

H/B

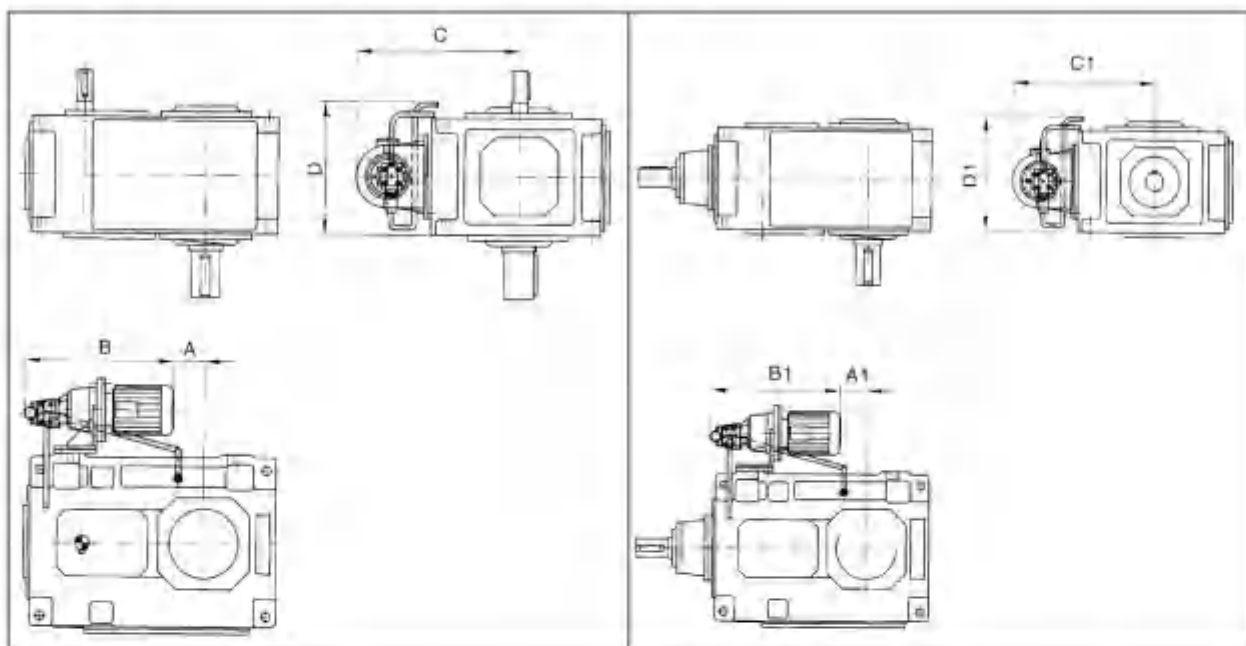


表 12 Table 12

安装尺寸 mounting dimensions on mm

类型 Types	规格 Size	布置形式 Design	A	B	C	D
H3.V	5/6	A/B/C/D	-30/5	560	480	385
	7/8	A/B/C/D	55/100	585	550	430
	9/10	A/B/C/D	140/190	610	565	500
	11/12	A/B/C/D	375/445	530	625	560
	13/14	A/C	155/225	880	670	700
	13/14	B/D	100/170	935	670	700
	15/16	A/C	275/320	965	710	770
	15/16	B/D	220/265	1020	710	770
H4.V	17/18	A/C	250/310	1040	770	835
	17/18	B/D	195/255	1095	770	835
	7/8	A/C	55/100	600	550	430
	7/8	B/D	0/45	680	550	430
	9/10	A/C	140/190	625	565	500
	9/10	B/D	85/135	705	565	500
	11/12	A/C	375/445	550	625	560
	11/12	B/D	320/390	635	625	560
B2.V	13/14	A/B/C/D	135/205	910	670	700
	15/16	A/B/C/D	255/300	1000	710	775
	17/18	A/B/C/D	230/290	1070	775	835
	5/6	A/B/C/D	-160/-125	480	470	415
	7/8	A/B/C/D	5/50	480	525	510
	9/10	A/B/C/D	60/110	480	565	570
	11/12	A/B/C/D	150/220	480	625	660
	13/14	A/B/C/D	-70/0	755	670	805
B3.V	15/16	A/B/C/D	15/60	780	710	910
	17/18	A/B/C/D	-5/55	890	775	1025
	5/6	A/B/C/D	-85/-50	480	480	365
	7/8	A/B/C/D	-5/40	480	550	430
	9/10	A/B/C/D	65/115	480	565	500
	11/12	A/B/C/D	280/350	480	625	560
	13/14	A/B/C/D	35/105	810	670	700
	15/16	A/B/C/D	120/165	875	710	775
B4.V	17/18	A/B/C/D	165/225	870	775	835
	5/6	A/B/C/D	-35/0	480	480	365
	7/8	A/B/C/D	55/100	480	550	430
	9/10	A/B/C/D	140/190	615	565	500
	11/12	A/B/C/D	375/445	530	625	560
	13/14	A/B/C/D	135/205	905	670	700
	15/16	A/B/C/D	255/300	990	710	775
	17/18	A/B/C/D	230/290	1065	775	835

表 13 Table 13

安装尺寸 mounting dimensions on mm

类型 Types	规格 Size	布置形式 Design	A1	B1	C1	D1
B2.V	5/6	A/B/C/D	-160/-125	480	470	415
	7/8	A/B/C/D	5/50	480	525	510
	9/10	A/B/C/D	60/110	480	565	570
	11/12	A/B/C/D	150/220	480	625	660
	13/14	A/B/C/D	-70/0	755	670	805
	15/16	A/B/C/D	15/60	780	710	910
	17/18	A/B/C/D	-5/55	890	775	1025
	5/6	A/B/C/D	-85/-50	480	480	365
B3.V	7/8	A/B/C/D	-5/40	480	550	430
	9/10	A/B/C/D	65/115	480	565	500
	11/12	A/B/C/D	280/350	480	625	560
	13/14	A/B/C/D	35/105	810	670	700
	15/16	A/B/C/D	120/165	875	710	775
	17/18	A/B/C/D	165/225	870	775	835
	5/6	A/B/C/D	-35/0	480	480	365
	7/8	A/B/C/D	55/100	480	550	430
B4.V	9/10	A/B/C/D	140/190	615	565	500
	11/12	A/B/C/D	375/445	530	625	560
	13/14	A/B/C/D	135/205	905	670	700
	15/16	A/B/C/D	255/300	990	710	775
	17/18	A/B/C/D	230/290	1065	775	835

H/B系列

齿轮箱 Gear Box

采用实心轴、带有储油管的齿轮箱的润滑油供给方式

Oil Supply for Gear Box With Solid Shaft and Oil Retaining

类型 H2...H4,B2...B4 Type H2...H4,B2...B4

立式安装 Vertical 规格 5...18 Sizes 5...18

H/B

表 14 Table 14			
可选润滑油供给方式 possible oil supply variants			
类型 Types	规格 Size	布置形式 Design	
		B	C
H2SV	5-6	O ¹⁾	-
	7-12	O ²⁾	-
	13-18	O ³⁾	-
H3SV	5-7	O	-
	7-12	O	-
	13-18	O	-
B2SV	5-6	-	O
	7-12	-	O
	13-18	-	O
B3SV	5-6	-	O
	7-12	-	O
	13-18	-	O
B4SV	5-6	-	O
	7-12	-	O
	13-18	-	O

- = 布置形式不允许 Design not possible

O = 可选强制润滑 Forced lubrication possible

1) 对于规格5号齿轮箱, 仅适用于速比 $i \leq 16$ For size 5 only possible up to $i \leq 16$

2) 对于规格7号齿轮箱, 仅适用于速比 $i \leq 16$ For size 7 only possible up to $i \leq 16$

对于规格11号齿轮箱, 仅适用于速比 $i \leq 18$ For size 11 only possible up to $i \leq 18$

3) 对于规格13号齿轮箱, 仅适用于速比 $i \leq 18$ For size 13 only possible up to $i \leq 18$

对于规格17号齿轮箱, 仅适用于速比 $i \leq 16$ For size 17 only possible up to $i \leq 16$

减速器

电机法兰联接

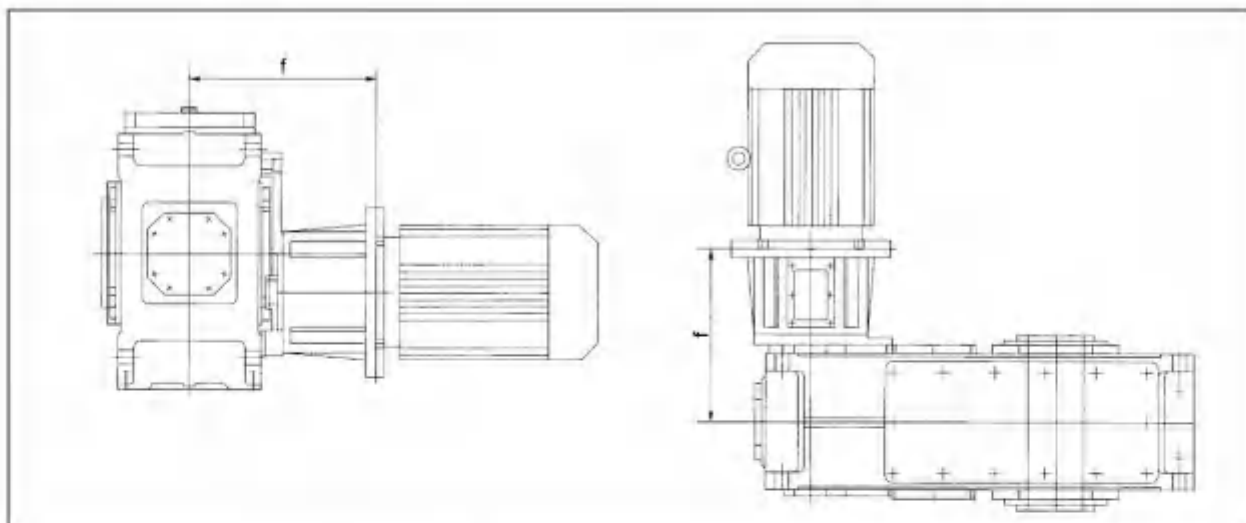
类型 H2, H3, H4

Gear Box

Motor mounting with flanges

Type H2, H3, H4

H/B



H2...		
电机功率 Motor Power	规格Size	
	4	5/6
	f	mm
11~15kW	403	
18.5~22kW	403	428
30kW	405	430
37~45kW	442	467
55kW		467

H4...						
电机功率 Motor Power	规格Size					
	7/8	9		10		11/12
	f mm					
	齿轮轴 1: 传动比 iN/Ratio iN					
		≥3.15	≤2.8	≥3.15	≤2.8	
2.2-4kW	318					
5.5-7.5kW	341	379		384		
11-15kW	383	421	430	426	435	493
18.5-22kW		421	430	426	435	493
30kW			432		437	495
37-45kW			469		474	532
55kW						532

H3									
电机功率 Motor Power	规格 / Size								
	7/8		9		10		11/12		
	f mm								
	齿轮轴 1: 传动比 iN/Ratio iN								
	≥3.15	≤2.8	≤3.15-4 ≥4.5	≤2.8	≤3.15-4 ≥4.5	≤2.8	≥4.5	≤3.15-4	≤2.8
11-15kW	388		463	506	468	513			
18.5-22kW	388	413	463	508	468	513			
30kW	390	415	465	510	470	515			
37-45kW	427	452	502	547	507	552	507	532	577
55kW	427	452	502	547	507	552	507	532	577
75-90kW			502	547	507	552	507	532	577

*标准电机安装尺寸参见第115页。 Fitting dimensions for standard motors see page 115.

H/B系列

减速器

钟形罩法兰联接

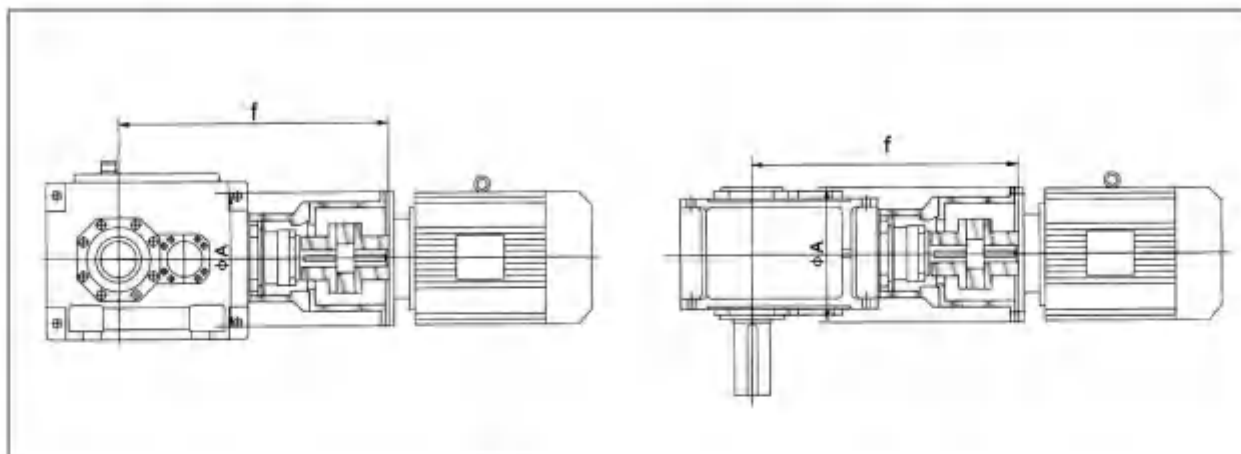
类型 B2, B3, B4

Gear Box

Motor mounting with bell housing flanges

Type B2, B3, B4

H/B



电机功率 Motor Power	B2..							
	规格 / size							
	4	5	6	7	8			
	f	A	f	A	f	f	A	f
	mm							
11-15kW	708	350						
18.5-22kW	708	350						
30kW	710	400	790	400	825			
37-45kW			827	450	862	957	450	1002
55kW						957	550	1002
75-90kW						957	550	1002

电机功率 Motor Power	B3..											
	规格 / size											
	4	5	6	7	8	9	10	11	12			
	f	A	f	A	f	f	A	f	f	A	f	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
37-45kW			827	450	862	972	450	1017	1092	450	1142	1277
55kW						972	550	1017	1092	550	1142	1277
75-90kW						972	550	1017	1092	550	1142	1277

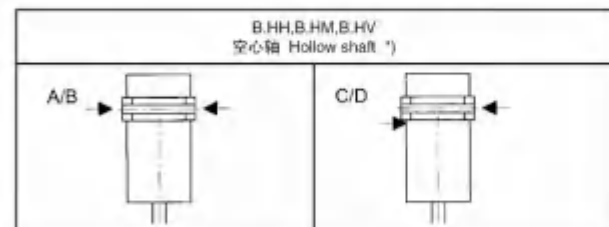
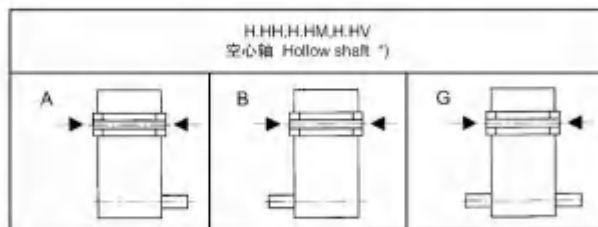
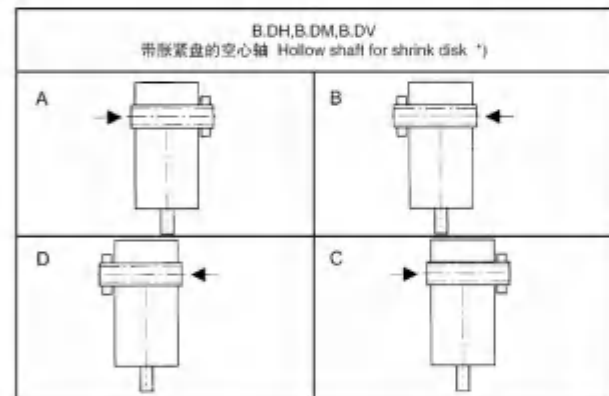
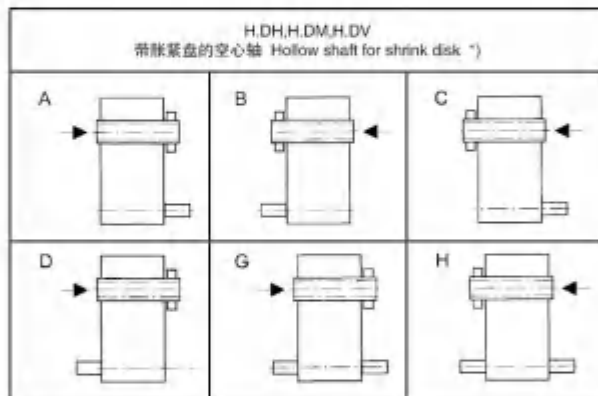
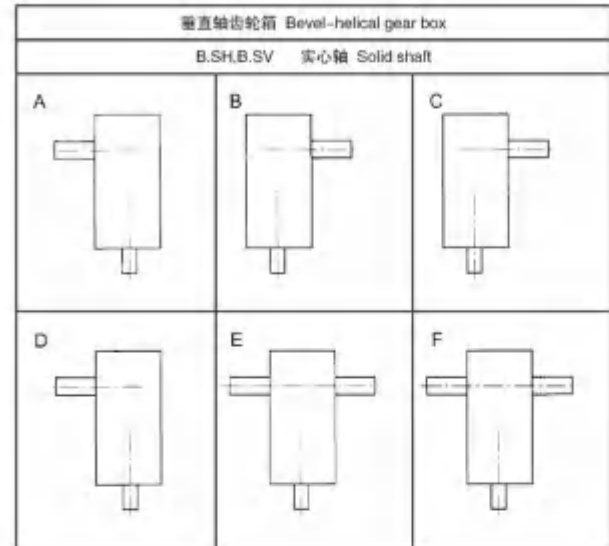
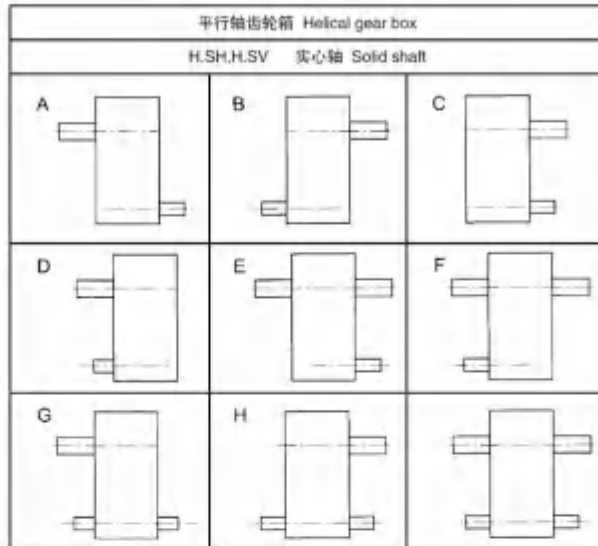
电机功率 Motor Power	B4..																	
	规格 / size																	
	5	6	7	8	9	10	11	12	13	14	15	16	17	18				
	f	A	f	f	A	f	f	A	f	A	f	f	A	f	f	A	f	f
	mm																	
2.2-4kW	753	250	780	873	250	918		350										
5.5-7.5kW	776	330	811	896	300	941	1021	350	1071									
11-15kW	818	350	853	938	350	983	1053	350	1003	1253	400	1323						
18.5-22kW	818	350	853	938	350	983	1053	400	1103	1253	400	1323	1423	420	1493			
30kW				940	400	985	1055	450	1105	1255	400	1325	1423	420	1493	1682	400	1728
37-45kW							1092		1142	1292	450	1362	1462	450	1532	1719	450	1765
55kW										1292	550	1362	1462	550	1532	1719	550	1765
75-90kW										1292	550	1362	1462	550	1532	1719	550	1765

*标准电机安装尺寸参见第115页。 Fitting dimensions for standard motors see page 115.

齿轮箱 Gear Box 布置形式 Design

类型 H2...H4 B2...B4 Type H2...H4.,B2...B4 规格 1...26 Size 1...26

H/B

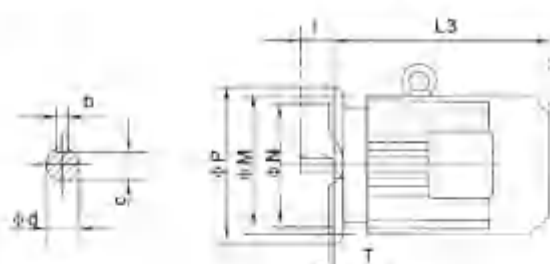


*) 箭头表示工作机驱动轴插入方向
The arrow indicates the direction of insertion of the driven machine shaft.

H/B系列

标准普通电机的参数及安装尺寸

Standard and ordinary motor parameter and mounting dimension



电机机座号63-200
Motor size 63-200



电机机座号225-315
Motor size 225-315



H/B

电机 机座号 Motor size	4级 Class 4		2级 Class 2		0级 Class 0		L3				安装尺寸 Mounting dimensions										Mkgs				
	P1 (kW)	n1 (r/min)	P1 (kW)	n1 (r/min)	P1 (kW)	n1 (r/min)	Y2	B	E	V	M	N	P	n	T	R	L	n	n	n	Y (mm)	Y2	B	E	V
63	0.12	1390						202	270	326		115	95B	140	4 × Ø10	3	116	23	4	6.5	5.5	15			11
	0.18	1390																			6	13.5	15		12
71	0.25	1390	0.18	1500				225	285	345		130	110B	160	4 × Ø10	3.5	140	30	5	11	6.5	14	16	12	14
	0.37	1390	0.25	1500																	7.5	14.5	15	13	15
80	0.55	1390	0.37	1585	0.18	1645		255	290	350	310	165	130B	200	4 × Ø12	3.5	190	40	6	15.5	10	15	31	20	16
	0.75	1390	0.55	1585	0.25	1645															11	16	32	21	17
90S	1.1	1400	0.75	1610	0.37	1670		270	310	370	320	165	130B	200	4 × Ø12	3.5	245	50	8	20	16	23	35	27	23
90L	1.5	1400	1.1	1610	0.55	1670		295	325	395	345	165	130B	200	4 × Ø12	3.5	245	50	8	20	25	29	39	31	28
100	2.2	1420			0.75	1680		325	370	420	370	215	180B	250	4 × Ø15	4	265	60	8	24		33	43	41	36
	3	1420	1.5	1620	1.1	1680															35	51	44	38	
112M	4	1440	2.2	1640	1.5	1690		340	400	450	390	215	180B	250	4 × Ø15	4	265	60	8	24	41	67	60	48	
132S	5.5	1440	3	1660	2.2	1710		390	430	505	450	265	230B	300	4 × Ø15	4	360	80	10	30	65	93	85	63	
132M	7.5	1460																							
			5.5	1660	3	1710		430	470	545	490	265	230B	300	4 × Ø15	4	360	80	10	30	76	105	98	75	
160M	11	1460	7.5	1660				505	545	610	550	300	250B	350	4 × Ø19	5	420	110	12	37		118	150	143	116
			5.5	1720																					
160L	15	1460			7.5			560	585	655	595	300	250B	350	4 × Ø19	5	420	110	12	37		132	169	165	136
180M	18.5	1470				720		590	620	715	740	300	250B	350	4 × Ø19	5	480	110	14	42.5		164	205	203	169
180L	22	1470	15	1670	11	730		630	640	765	790	300	250B	350	4 × Ø19	5	480	110	14	42.5		182	222	216	183
200			18.5	1670																					
	30	1470			15	730		660	685	790	830	350	300B	400	4 × Ø19	5	550	110	16	49		245	300	296	236
			22	1770																					
225S	37	1480			18.5	730		675	705	800	810	400	350B	450	8 × Ø19	5	600	140	18	53		266	360	370	291
225M	45	1480	30	1680	22	730		705	730	820	840	400	350B	450	8 × Ø19	5	600	140	18	53		290	390	405	327
250	55	1480	37	1680	30	730		770	795		1080	500	450B	550	8 × Ø19	5	650	140	18	58		388	530	498	390
280S	75	1480	45	1680	50	730		845	870		1160	500	450B	550	8 × Ø19	5	750	140	20	67.5		510	660	633	520
280M	90	1485	55	1680	45	740		895	920		1260	500	450B	550	8 × Ø19	5	750	140	20	67.5		606	735	723	610
315S	110	1485	75	1680	55	740		1100	1100		1330	600	550B	650	8 × Ø19	6	800	170	22	71		910	1000	1150	850
315M	132	1485	90	1685	75	740		1180	1180		1380	600	550B	650	8 × Ø19	6	800	170	22	71		1000	1100	1230	1030
315L	160	1485	110	1685	90	740																			
	200	1485	132	1685	110	740		1270	1270		1480	600	650B	650	8 × Ø24	6	810	170	22	71		1055	1100	1320	1100
																						1125	1160	1420	1260

注：由于结构需要及生产厂家不同，有时参数会有所变化，此表仅供参考，准确尺寸请来电查询。

Note: Sometimes the parameters may be changed with the different structures and manufacturers, this table is only for reference, please refer to us for the exact dimensions.



T系列螺旋锥齿轮转向箱

T Series Spiral Bevel Steering Gear Box

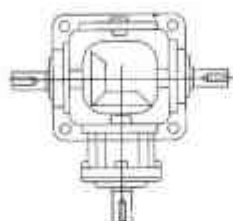


T系列

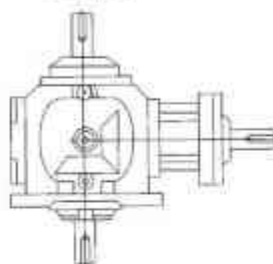
T系列转向箱有以下设计方案

T series gear box reductor are available
in the following designs:

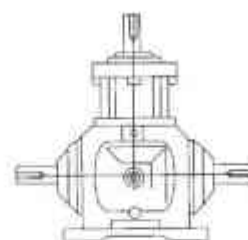
1-LR(O)



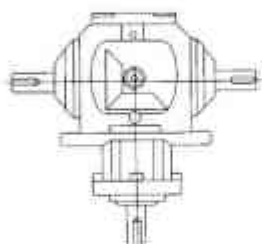
1-UD(O)



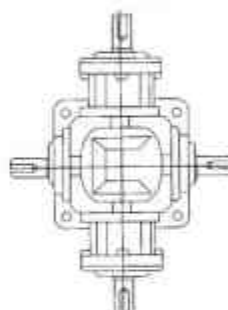
U-LR(O)



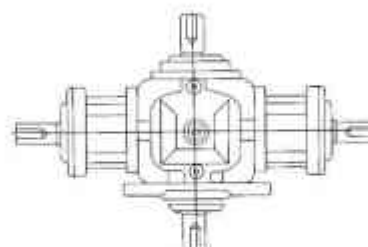
D-LR(O)



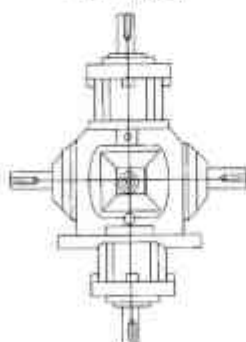
1-1-LR(O)



1-1-UD(O)



U-D-LR(O)



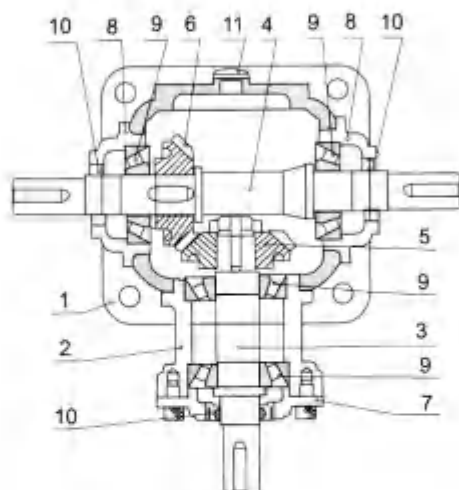
T

1、T系列螺旋锥齿轮传动箱概述：

- 1) T系列一级螺旋锥齿轮传动箱，标准化，多品种，速比1:1、1.5:1、2:1、2.5:1、3:1、4:1、5:1全部为实际传动比。平均效率98%。
- 2) 有单横轴、双横轴、单纵轴、双纵轴可选。
- 3) 螺旋锥齿轮可以正反运转，低速或高速传动平稳，而且噪声低，振动小，承受力大。
- 4) 当速比不为1:1时，横轴输入、纵轴输出为减速，纵轴输入、横轴输出为增速。

1、T series spiral bevel gear box overview:

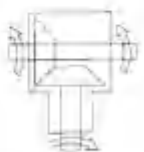
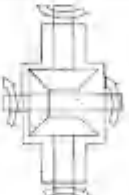
- 1) T series spiral bevel gear box with various types are standardized, all ratios of 1:1, 1.5:1, 2:1, 2.5:1, 3:1, 4:1, and 5:1 are actual ones Average efficiency is 98%.
- 2) There are on input shaft, two input shafts, unilateral output shaft and double side output shaft.
- 3) Spiral bevel gear can rotate in both directions and transmit smoothly, low noise, light vibration, high performance.
- 4) If ratio is not 1:1, if input speed on single-extendable shaft, output speed will be reduced; if input speed on double-extendable shaft, output speed will be reduced.



2、T series structure drawing:

- 1、机座 Housing
- 2、横轴座 Single-extendable shaft bearing seat
- 3、横轴 Single-extendable shaft
- 4、纵轴 Double-extendable shaft
- 5、横轴锥齿轮 Spiral bevel gear
- 6、纵轴锥齿轮 Spiral bevel gear
- 7、端盖 Bearing seat
- 8、端盖 Bearing seat
- 9、轴承 Bearing
- 10、油封 Seal
- 11、油镜 Oil gauge

3、转向功能

1 横轴 One Single-extendable shaft		2 横轴 2extendable shafts	
2轴 2-extendable shaft	3轴 3-extendable shaft	3轴 3-extendable shaft	4轴 4-extendable shafts
			

说明：当输入旋转方向改变，输出轴相应改变。

Specification: Direction of rotation of output shaft varies with that of input shaft.

T系列

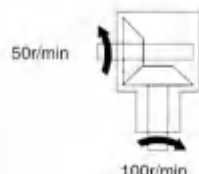
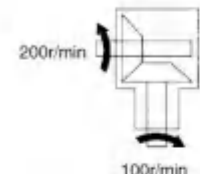


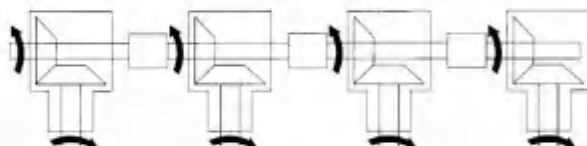
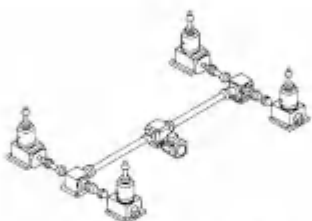
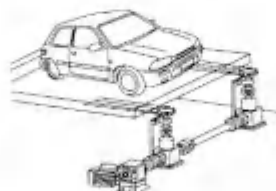
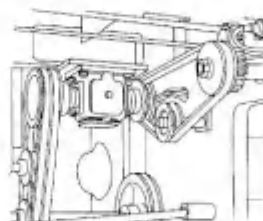
4、选定输入轴时应注意转速关系：(1:1传动比时无关系)

Please pay attention to speed relationship when selecting input shaft(there si nothing in case of ratio of 1:1)

例：速比为2:1时

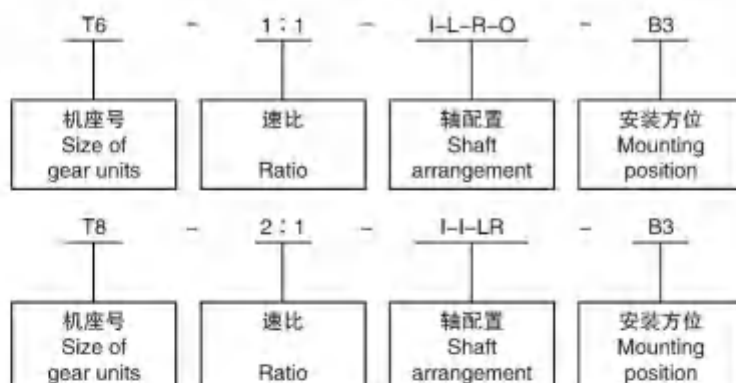
Example: when ratio is 2:1

[减速 Reducing]	[增速 Increasing]
 当横轴输入100r/min时 纵轴输出50r/min Output speed is 50rpm, when input speed in 100rpm.	 当横轴输入100r/min时 纵轴输出200r/min Output speed is 200rpm, when input speed in 100rpm.

井排转送 Transmission in line  立体车库 Tridimensional carban	 1台减速机左右输出，通过转向后，同时升降 One reducer output left and right, after rotational ascend and descend simultaneously	
给纵轴连续送力，使横轴同步运转  1台减速机驱动左右链轮同步运转 One reducer drive rightand left chain wheel and rotate at the same speed.	游戏机 Play machine  纵横输入，2横轴相反转 Vertical and horizontal Input, 2 horizontal axes reverse operation	包装机 Packing machine 

6、型号表示方法

6、T series model illustration:



7、选型:

1) 选型时先根据需要的输出扭矩, 即要传递的扭矩M2(Nm), 计算出输入功率P1(kW):

$$P1 = \frac{M_2 \times N_1}{9500 \times i \times \eta}$$

N1..... 输入转速(r/min)

η 传动效率(一般为0.98)

2) 确定合适服务系数fs(见第6页)使:

$$PN \geq f_s \times P1$$

按实际输入功率PN根据“性能参数表”选择合适的规格。

Type selection::

1) According the required output torque, namely the torque M2(Nm), to check out the output power rating P1(kW):

$$P1 = \frac{M_2 \times N_1}{9500 \times i \times \eta}$$

N1 Input speed(r/min)

η Transmission efficiency(0.98 as usual)

2) Determine the proper driven machine factor f_s (see page 6) making:

$$PN \geq f_s \times P1$$

According the actual input power rating PN to select the proper size from the “performance value table”.

8、T系列重量表:

8、T Series weight table:

Type	T2	T4	T6	T7	T8	T10	T12	T16	T20	T25
m(kg)	4	10	21	32	49	78	124	188	297	488

所注重量为平均值, 仅供参考。

The weight are mean values, only for reference.

9、T系列被驱动设备系数fs:

9、T series service factor fs:

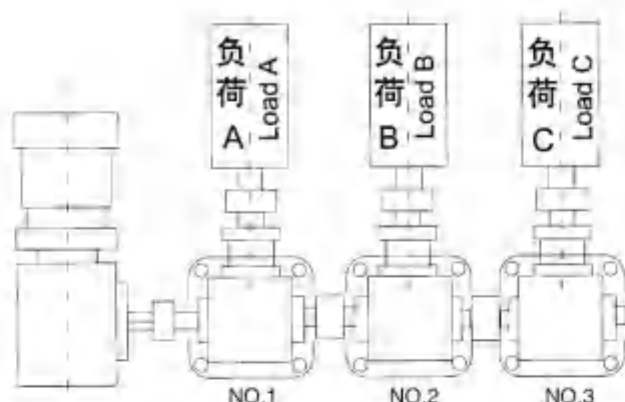
负荷性质 Load characteristic	每天使用时间(小时) Operating time/day(hour)		
	≤2	2~10	10~24
均匀负载 Uniform	1.00 (1.00)	1.00 (1.25)	1.25 (1.50)
一般冲击 Moderate	1.00 (1.25)	1.25 (1.50)	1.50 (1.75)
强烈冲击 Heavy	1.25 (1.50)	1.50 (1.75)	1.75 (2.00)

注: 当每小时启动、停止次数在10次以上, 请使用括号内数值。

Note: please use these data inside the bracket when number of starts and stops/hour is greater than ten times.

10. T系列举例

10. T Series selection sample:



3台负载全部为 $196\text{N} \cdot \text{m}$ ，一般冲击，每天连续工作8小时，即使用系数 $f_1=1.25$ ，斜齿轮卷入轴转速以 $300\text{r}/\text{min}$ ，速比全部为 $1:1$ 。

根据公式：

每台齿轮箱本身所需的负载 $T_{N2} \geq T_2 \times f_1 = 196 \times 1.25 = 245\text{N} \cdot \text{m}$

- 1) NO.1齿轮箱 因1号齿轮箱本身的负载为 $245\text{N} \cdot \text{m}$ ，而2号、3号齿轮箱需通过1号齿轮箱体速扭矩。
所以1号齿轮箱应承担的负载为： $245\text{N} \cdot \text{m} + 245\text{N} \cdot \text{m} + 245\text{N} \cdot \text{m} = 735\text{N} \cdot \text{m}$ ，依据传动能力表，应选T12。
- 2) NO.2齿轮箱 除本身负载为 $245\text{N} \cdot \text{m}$ ，还需传递3号齿轮箱的扭矩。所以总负载应为：
 $245\text{N} \cdot \text{m} + 245\text{N} \cdot \text{m} = 490\text{N} \cdot \text{m}$ ，依据传动能力表，应选T10。
- 3) NO.3齿轮箱 由于仅一个负载C进行运转，即所需负载在 $245\text{N} \cdot \text{m}$ 以上即可，依据传动能力表可选T8。

注意事项：

a、本速比不为 $1:1$ 时，请确定或告知输入轴；选横轴输入为减速，选纵轴输入为增速，安装方位和尺寸确定了以后，就不能更改两轴的位置。

b、多台连动输出校对换向箱的承载能力。

Torque loaded on each gearbox is 196Nm , uniform shock, duration of operation is 8hour per day, service factor $f_1=1.25$, input speed is 300rpm , ratio is $1:1$.

Calculate according to formula:

Required torque of each gear box $T_{N2} \geq T_2 \times f_1 = 196 \times 1.25 = 245\text{N} \cdot \text{m}$

- 1) NO.1 Gear box No.1 gear box carry torque 245Nm , but No.2 and No.3 gear box need transfer torque through No.1, Consequently No.1 gear box should carry torque $735\text{Nm}(245\text{Nm}+245\text{Nm}+245\text{Nm})$, select T12 according to transmission capacity table.
- 2) NO.2 Gear box No.3 gear box still transfers torque of No.3 gear box besides torque of 245Nm , so, the total torque is $490\text{Nm}(245\text{Nm}+245\text{Nm})$, select T10 according to transmission capacity table.
- 3) NO.3 Gear box Required torque is more than 245Nm because of only load C according to transmission capacity table..

Notes:

a、 If ratio is not $1:1$, if input speed on single-extendable shaft, output speed will be reduced; if input speed on double-extendable shaft, output speed

b、 Will be reduced. When mounting position and dimension are determined, the position of shafts can not be changed.

Several T boxes are linked, please verify the load capacity of these boxes.

T

i	n1(r/min)	T2		T4		T6		T7		T8	
		M ₂ (N.m)	P ₂ (KW)	M ₄ (N.m)	P ₄ (KW)	M ₆ (N.m)	P ₆ (KW)	M ₇ (N.m)	P ₇ (KW)	M ₈ (N.m)	P ₈ (KW)
1:1	1450	11.6	1.79	31.9	4.94	96.0	14.9	142	22.0	294	45.6
	1150	11.7	1.43	34.1	4.19	103	12.7	150	18.4	305	37.5
	870	12.1	1.12	37.2	3.46	113	10.5	164	15.2	312	29.0
	580	12.1	0.747	38.5	2.45	119	7.35	184	11.4	319	19.6
	400	12.3	0.524	40.2	1.72	122	5.20	195	8.34	326	14.0
	300	12.3	0.396	40.5	1.30	123	3.93	198	6.25	331	10.6
	200	12.4	0.226	41.2	0.88	124	2.66	201	4.30	338	7.23
	100	12.7	0.136	41.9	0.448	127	1.36	206	2.20	346	3.70
1.5:1	1450					132	0.141	214	0.228	361	0.366
	1150					117	12.1	145	15.0	185	1.91
	870					122	9.96	147	12.0	155	15.4
	580					123	7.66	150	9.30	191	11.8
	400					126	5.23	153	6.32	197	8.14
	300					128	3.66	156	4.41	200	5.70
	200					129	2.77	157	3.35	203	4.34
	100					131	1.87	160	2.28	204	2.91
2:1	1450					134	0.957	163	1.18	210	1.48
	1150					139	0.099	169	0.12	218	0.155
	870	12.1	0.94	42.8	3.32	102	7.90	137	10.6	180	14.0
	580	12	0.74	43.4	2.67	104	6.39	139	8.55	183	11.3
	400	12	0.56	43.8	2.04	105	4.88	141	6.56	187	8.70
	300	11.9	0.37	44.4	1.38	106	3.34	144	4.47	191	5.92
	200	12.2	0.26	45.1	0.96	109	2.33	146	3.12	194	4.15
	100	11.9	0.19	45.5	0.73	110	1.76	148	2.37	196	3.14
2.5:1	1450					111	1.18	149	1.59	198	2.12
	1150					114	0.608	152	0.812	202	1.08
	870	12.2	0.13	46.1	0.49	115	0.062	157	0.064	209	0.112
	580	11.2	0.06	46.6	0.25	116	0.062	157	0.064	209	0.112
	400					96.2	5.97	119	6.99	184	11.4
	300					97.2	4.78	115	5.64	185	9.11
	200					99.0	3.68	116	4.30	188	7.00
	100					100.0	2.46	118	2.92	192	4.76
3:1	1450					100.0	1.73	120	2.05	195	3.34
	1150					102.9	1.32	121	1.55	197	2.53
	870					103.9	0.888	123	1.05	200	1.71
	580					104.9	0.448	123	0.528	203	0.867
	400					107.8	0.046	126	0.054	208	0.089
	300					93.6	4.84	105	5.42	159	8.20
	200					94.8	3.68	106	4.34	160	6.55
	100					95.9	2.97	108	3.34	163	5.04
4:1	1450					97.6	2.02	109	2.25	166	3.42
	1150					99.0	1.41	111	1.58	168	2.39
	870					100	1.07	111	1.18	169	1.80
	580					100	0.712	112	0.803	171	1.22
	400					102	0.363	115	0.409	173	0.618
	300					104	0.037	118	0.042	179	0.064
	200					80.6	3.12	93.4	3.62	124	4.80
	100					81.5	2.50	94.3	2.90	125	3.93
5:1	1450					82.4	1.92	95.9	2.23	127	2.95
	1150					84.1	1.30	96.9	1.50	129	2.00
	870					85.1	0.81	98.7	1.05	131	1.40
	580					86.1	0.69	99.3	0.79	131	1.06
	400					86.0	0.46	101	0.54	134	0.71
	300					87.7	0.23	101	0.27	135	0.36
	200					88.3	0.02	101	0.03	140	0.04
	100					52.0	1.61	57.4	1.78	68.7	2.13
6:1	1450					52.5	1.29	58.0	1.43	68.2	1.70
	1150					53.2	0.99	59.0	1.10	70.4	1.31
	870					54.2	0.67	59.6	0.74	71.7	0.89
	580					54.9	0.47	60.7	0.52	72.6	0.62
	400					55.5	0.36	60.4	0.39	72.9	0.47
	300					55.4	0.24	61.7	0.26	74.1	0.32
	200					56.5	0.12	62.6	0.13	75.1	0.16
	100					57.6	0.01	64.5	0.01	77.6	0.02

- 1、横轴转速未达到10r/min时，请使用10r/min的数据。
- 2、横轴输入转速超过1450r/min时，向本公司咨询。

T系列



i	n(r/min)	110		112		116		120		125	
		M ₂ (Nm)	P ₂ (KW)	M ₂ (Nm)	P ₂ (KW)	M ₂ (Nm)	P ₂ (KW)	M ₂ (Nm)	P ₂ (KW)	M ₂ (Nm)	P ₂ (KW)
1:1	1450	421	65.3	619	96.0	1019	163				
	1150	453	55.7	665	81.1	1098	139	1942	294		
	870	479	44.6	726	67.5	1166	114	2009	193	3489	335
	580	493	30.6	802	49.7	1343	85.9	2274	145	3940	252
	400	504	21.5	821	35.1	1499	66.1	2538	112	4410	195
	300	513	16.4	835	26.8	1637	54.1	2744	90.8	4792	159
	200	521	11.1	852	18.2	1784	39.3	3125	69.0	5890	119
	100	535	5.71	875	9.36	1842	20.3	3205	35.3	5439	60.0
1.5:1	10	561	0.599	919	0.983	1940	2.14	3205	3.53	5713	6.30
	1450	274	38.7	564	58.3						
	1150	380	31.2	601	49.2						
	870	389	24.1	656	40.7						
	580	396	16.4	689	28.9						
	400	406	11.6	711	20.3						
	300	411	8.78	724	15.5						
	200	417	5.95	736	10.5						
2:1	100	426	3.04	754	5.37						
	10	443	0.318	785	0.56						
	1450	305	23.6	516	40.0	921	73.7	1578	126		
	1150	309	19.0	516	31.7	938	59.5	1607	102	3145	199
	870	315	14.8	516	24.0	958	46.0	1646	79.0	3224	155
	580	322	10.0	524	16.3	960	31.3	1695	54.2	3332	107
	400	328	7.02	538	11.5	1000	22.0	1725	38.0	3420	75.4
	300	332	5.33	543	8.71	1009	16.7	1754	29.0	3479	57.5
2.5:1	200	338	3.61	551	5.89	1029	11.2	1784	19.7	3567	39.2
	100	344	1.84	563	3.01	1058	5.84	1838	10.1	3646	20.1
	10	357	0.191	566	0.313	1098	0.605	1921	1.06	3622	2.11
	1450	293	18.2	507	31.4						
	1150	298	14.7	514	25.3						
	870	302	11.2	523	19.6						
	580	310	7.88	535	13.3						
	400	315	5.39	545	9.32						
3:1	300	317	4.06	552	7.08						
	200	321	2.75	560	4.79						
	100	326	1.40	568	2.45						
	10	336	0.144	588	0.254						
	1450	270	14.0	458	25.6	904	48.2	1529	82.9	2935	158
	1150	275	11.3	464	19.0	920	38.9	1561	66.6	3045	130
	870	279	8.66	469	14.6	940	30.1	1598	51.6	3135	101
	580	285	5.89	480	9.92	960	20.4	1644	35.4	3246	69.9
4:1	400	288	4.11	490	6.86	978	14.4	1672	24.8	3317	49.3
	300	291	3.11	495	5.29	990	10.9	1701	18.9	3372	37.6
	200	294	2.10	501	3.57	1005	7.98	1739	12.9	3449	25.6
	100	300	1.07	510	1.82	1038	3.82	1777	6.60	3537	13.1
	10	308	0.110	527	0.189	1076	0.40	1865	0.69	3713	1.4
	1450	241	9.35	434	16.8	850	34.3	1452	59.7	2978	113
	1150	246	7.54	441	13.5	865	27.7	1483	47.5	2992	92.6
	870	249	5.78	446	10.4	884	21.4	1518	36.8	2978	72.2
5:1	580	254	3.95	456	7.07	902	14.5	1562	25.2	3084	49.8
	400	257	2.74	465	4.97	919	10.2	1588	17.7	3151	35.1
	300	259	2.08	470	3.77	930	7.9	1619	13.5	3204	26.8
	200	262	1.40	476	2.84	944	5.8	1646	9.17	3276	18.2
	100	267	0.71	485	1.30	978	2.7	1668	4.70	3360	9.36
	10	275	0.07	501	0.15	1011	0.8	1772	0.49	3527	0.98
	1450	136	4.21	296	9.16	614	26.3	1391	44.9	2651	85.0
	1150	138	3.39	301	7.39	628	21.2	1420	36.4	2771	71.0
6:1	870	140	2.60	305	5.68	647	16.4	1454	28.2	2853	65.9
	580	143	1.77	311	3.86	664	11.2	1496	19.3	2954	46.2
	400	144	1.23	318	2.72	681	7.85	1521	13.6	3019	30.9
	300	146	0.93	321	2.06	691	5.96	1548	10.3	3069	20.5
	200	148	0.63	326	1.39	705	4.02	1577	7.03	3138	14.0
	100	150	0.32	331	0.71	735	2.08	1617	3.60	3216	7.17
	10	155	0.03	342	0.07	965	0.22	1697	0.36	3378	0.75

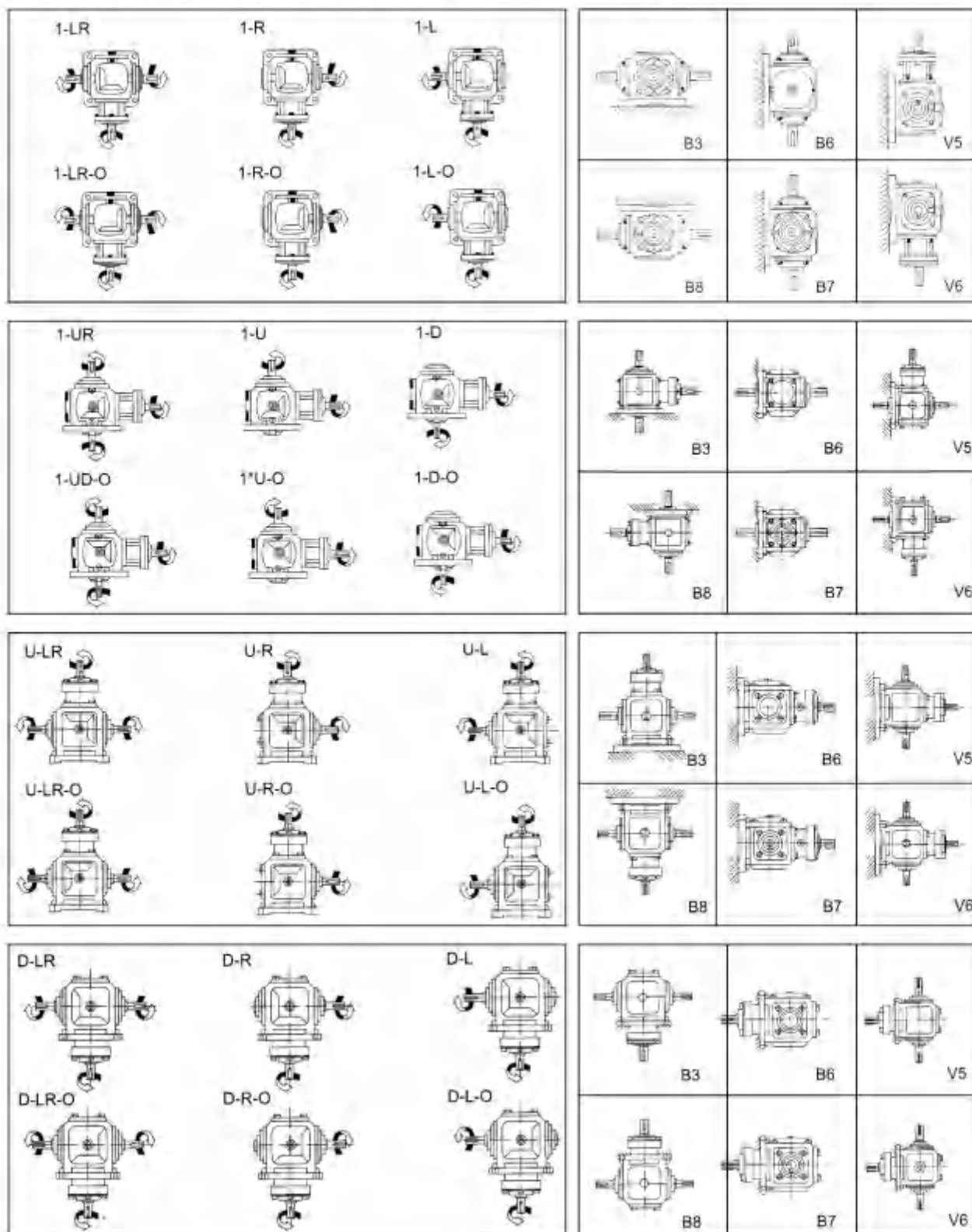
If speed is less than 10r/min, please choose 10r/min.
Contact us, when the input speed of horizontal shaft is more than 1450 r/min.

12、T系列轴配及轴旋转方向的关系，安装方位及尺寸图表
轴配置轴旋转方向关系

12、T series the relation between shaft arrangements and direction of shaft rotation, mounting position and dimension sheet.

安 装 形 式
mounting position

T

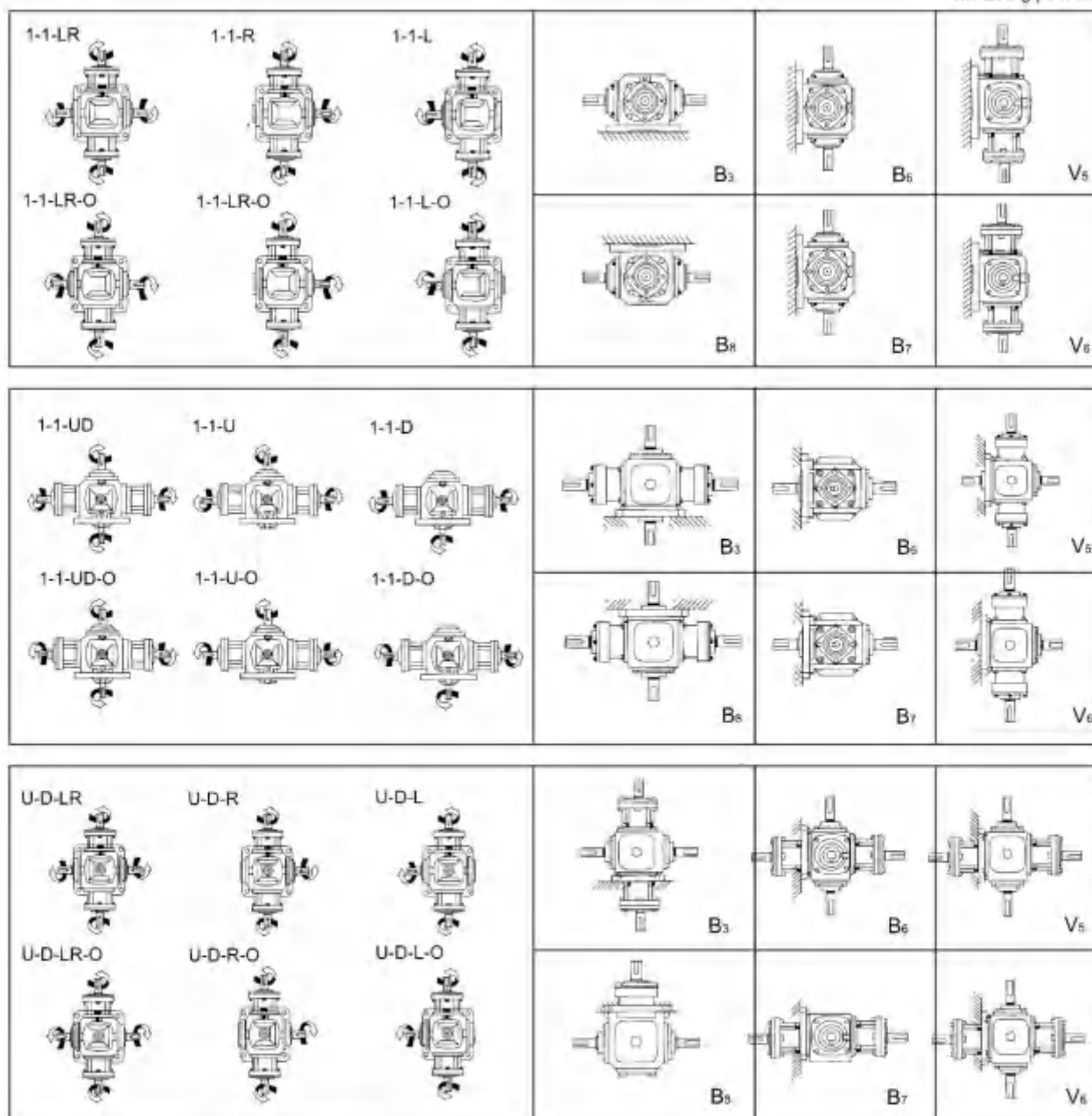


T系列

轴配置轴旋转方向关系

The relationship between shaft arrangement and direction of shaft rotation:

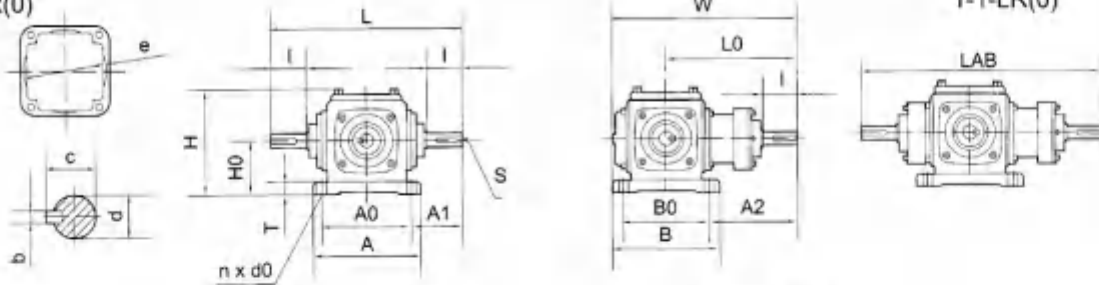
安装形式
mounting position



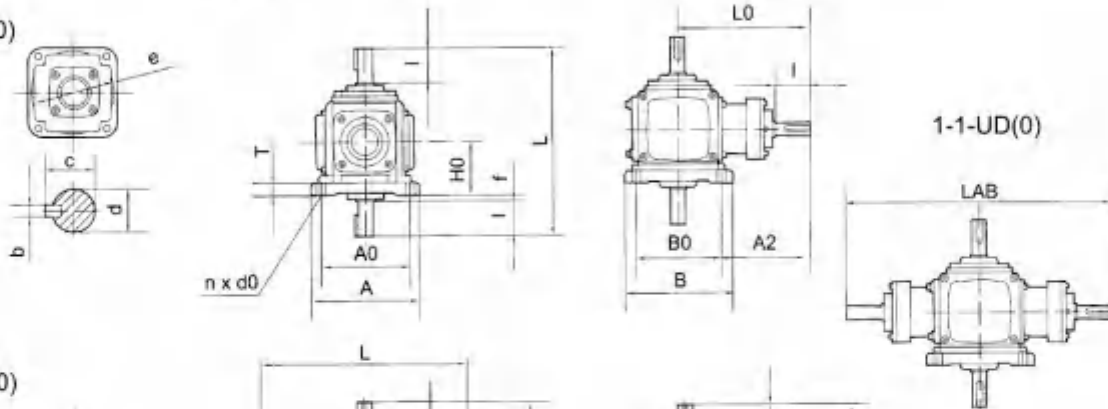
T

T2~T16

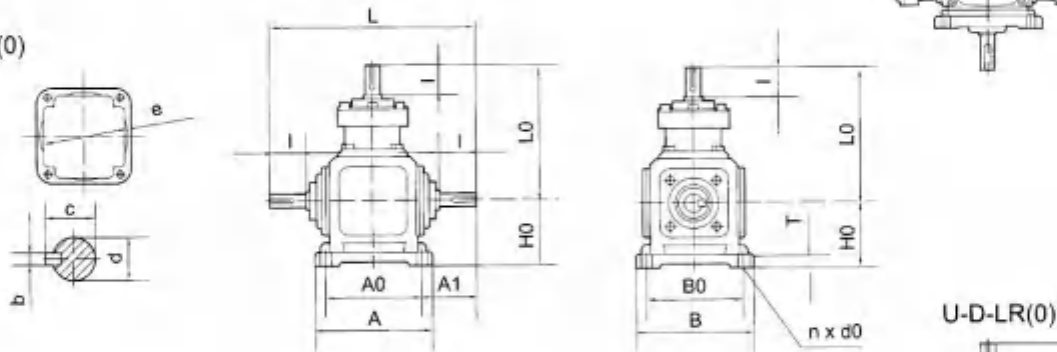
1-LR(0)



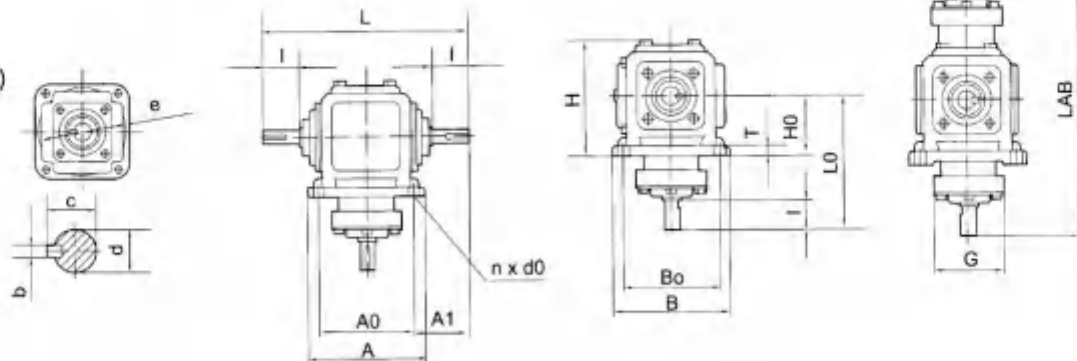
1-UD(0)



U-LR(0)



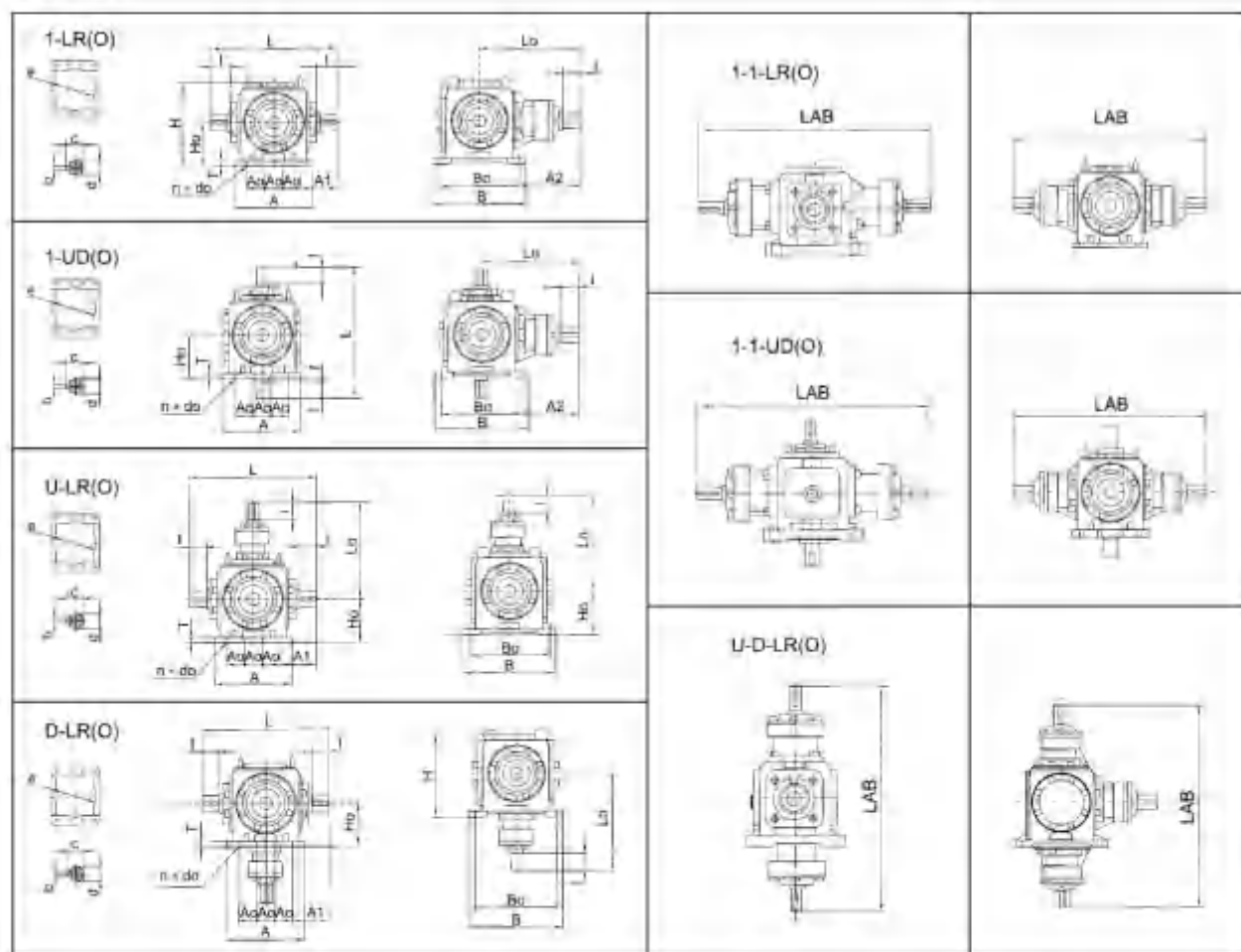
D-LR(0)



T系列



T20-T25



型号	安装尺寸 Mounting dimensions									外形尺寸 Overall dimensions						轴伸尺寸 Shaft Dimensions					
	a1	B	B0	A	A0	T	d(H7)	i	e±0.03	f	H0	L0	A2	H	L	LAB	a	C	d0	d	
T2	48	100	84	100	84	10	15	33	94±0.3	5	52	124	82	104	180	7	4	5	9	17	
T4	53.5	155	125	155	125	17	19	38	155±0.5	2	76	180	117.5	152	232	360	4	8	10.5	21.5	
T6	81	190	152	190	152	17	25	50	190±0.5	17	90	222	186	177	314	444	4	8	14	28	
T7	88	210	174	210	174	20	32	52	220±0.5	13	100	265	175	199	350	530	4	10	14	32	
T8	110.5	235	195	235	195	23	40	75	250±0.5	18	115	308	210.5	229	416	616	4	12	14	43	
T10	120	265	240	265	240	25	45	90	305±0.5	10	140	360	240	273	480	720	4	14	16	48.5	
T12	130	340	290	340	290	32	50	100	370±0.5	0	175	415	270	335	550	830	4	14	21	53.5	
T16	150	390	330	390	330	40	60	105	420±0.7	10	200	455	290	386	630	1	4	18	25	64	
T20	195	490	430	410	110	32	72	105	360±0.10	10	245	525	300	462	720	1	8	20	21	70.5	
T25	235	580	520	480	130	35	85	130	430±0.10	10	290	660	400	545	860	1	8	22	24	90	

注意: 当速度是4:1和5:1时, 纵轴尺寸不变, 横轴尺寸更改如下

Note: When ratio is 4:1 and 5:1, dimension of output shaft is changeless, but that of input is charge as follows.

型号	4:1							5:1						
	d(H7)	i	L0	A0	LAB	C	b	d(H7)	i	L0	A2	LAB	C	b
T6	19	38	210	134	420	6	21.5	19	38	210	134	420	6	21.5
T7	22	50	265	176	530	6	24.5	22	50	265	178	530	6	24.5
T8	28	62	310	212.5	620	8	31	28	62	310	212.5	620	8	31
T10	32	62	362	242	724	10	35	32	62	362	242	724	10	35
T12	38	75	415	270	830	10	39	38	75	415	270	830	10	39
T16	50	100	465	300	1	14	53.5	42	90	465	300	1	12	45
T20	55	105	560	345	1	15	59	50	100	555	340	1	14	53.5
T25	70	105	660	400	1	20	74.5	60	105	670	410	1	18	64

标准颜色
Standard Color



Colour NO:PB06



Colour NO:B02

印刷颜色仅供参考，颜色以实物为准。
Printing color is only for reference, the actual color would
subject to factual products.