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中国名牌产品 CHINA TOP BRAND



国家大型企业 NATIONAL LARGE ENTERPRISE



中国驰名商标
CHINA WELL-KNOWN
TRADEMARK



TLH/TLB 系列齿轮箱



TAILONG MACHINERY



中国驰名商标
CHINA WELL-KNOWN
TRADEMARK

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JIANGSU TAILONG MACHINERY GROUP COMPANY

江苏泰隆减速机股份有限公司

JIANGSU TAILONG DECELERATOR MACHINERY CO.,LTD.

中国供应链联盟

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公司简介

江苏泰隆减速机股份有限公司创办于1982年，坚守改革创新之初心，砥砺前行40年，现为中国减速机行业排头兵企业、全国守合同重信用企业、国家知识产权示范企业、江苏省高新技术企业、江苏省民营企业纳税大户、标准化良好行为AAAA级企业、全国实施卓越绩效模式先进企业、AAA级资信企业。现为全国减速机行业协会理事单位、全国减速机标准化技术委员会秘书处单位。

公司拥有总资产32亿元，占地面积近80万平方米，员工2000余人。以齿轮传动装备为主业，主营标准工业齿轮箱、高端定制齿轮箱及精密传动减速器，泰隆致力于“做中国减速机行业的领跑者”，拥有国家级博士后科研工作站、江苏省企业技术中心、江苏省传动机械控制技术研究分中心、江苏省工业设计中心。坚持以技术创新为支撑，获得授权专利300余件，其中发明专利58件，主持、参与制定国家、行业标准20件，承担国家、省部级项目课题4项，多次荣获省和国家级科技进步一等奖、二等奖。江苏省百台套RIG摆压磨轮齿、核电循环水泵驱动变速箱填补国内空白。拥有各类通用、专用生产、检测设备1900余台（套），从美国、德国、日本、俄罗斯等国家购进的高精度生产设备和检测仪器占23%，建立了全国同行业中检测功能全、功率大、仪器先进的2000kW减速机性能测试中心。公司建立了泰隆特色的“六轮相传，一荣为心”质量管理体系，通过了ISO9001质量管理体系认证、ISO14001环境体系认证、OHSAS18001职业健康安全认证，获得了江苏省省长质量奖提名奖。产品通过矿用产品安全标志认证，起重行业型式试验认可认证、CCS产品检验认证、CCC认证、CE认证等。

泰隆以制造技术垂直发展钢丝绳机械、风机产品、电机产品。钢丝绳公司成为法国米其林公司指定的世界供应商，双叶、三叶罗茨风机及高湿风机批量出口东南亚及欧美地区。具有十几个系列，几十万种规格的主业产品减速机成功应用于三峡工程、嫦娥一号发射基地、杭州湾跨海大桥、北京奥体馆、上海世博会等国家重点工程。重点顾客有宝钢集团、首钢集团、建龙钢铁、上海振华港机、葛州坝集团、中国铝业、伊拉克泵站、卫华集团、成都利君、三一重工、福建宁德与辽宁红沿河核电站等。

泰隆人将遵循自己一贯的质量承诺、服务承诺和信誉承诺，把顾客满意当作我们的最高追求！

Company Brief

Since its founding in 1982, Jiangsu Tailong Decelerator Machinery Co., Ltd. (Jiangsu Tailong in short) has been forging ahead for 40 years while staying committed to the original intention of reform and enterprise revitalization. Currently grown into a leader in China's reducer industry, it has won honors of national contract-honoring and trustworthy enterprise, national intellectual property demonstration enterprise, Jiangsu Provincial high-tech enterprise, large private enterprise taxpayer of Jiangsu Province, AAAA-rating good standardizing practice of enterprise, advanced enterprise implementing excellent performance mode in China and AAA credit-rating enterprise, and become a chairman unit of the National Reducer Industry Association and the secretariat unit of the National Technical Committee on Reducer of Standardization Administration of China.

The company owns total assets of 3.2 billion yuan, covers an area of 800,000 square meters and owns more than 2,000 employees. With gear transmission equipment as the main business, Jiangsu Tailong is mainly engaged in standard industrial gearbox, high-end customized gearbox and precision transmission reducer. Jiangsu Tailong is committed to "becoming the leader in China's reducer industry", and owns national postdoctoral scientific research workstation, Jiangsu Enterprise Technology Center, Jiangsu Transmission Machinery Control Technology Research Center and Jiangsu Industrial Design Center. Thanks to the support by technological innovation, it has obtained more than 300 authorized patents, including 58 invention patents, and presided over and participated in the formulation of 20 national and industrial standards. Jiangsu Tailong has undertaken 4 national, provincial and ministerial projects and won numerous first and second prizes of provincial and national scientific and technological progress awards. The first set of RIG roller mill gearbox and nuclear power circulating water pump speed-change actuating device in Jiangsu Province filled the domestic gap in this field. It has acquired more than 1,000 sets of general and special-purpose production and testing equipment, and purchased 23% of its high-precision production equipment and testing instruments from the United States, Germany, Japan, and Russia. A 2000kW reducer performance test center equipped with full testing function, high-power and advanced instruments among the same industry has been set up. The company has established the quality management mode of "six-gear transmission with planet carrier as the core" with Tailong characteristics, passed ISO9001 quality system certification, ISO14001 environmental system certification and OHSAS18001 occupational health and safety certification, and won the nomination award of Jiangsu Governor Quality Award. The products have passed the safety label certification of mining products, type-test approval certification of hoisting industry, CCS product inspection certification, CCC certification, and CE certification.

Jiangsu Tailong vertically develops steel cord machinery, fan products and motor products relying on its manufacturing technology. The Tailong Steel Cord Machinery Company has become the world supplier designated by French-based Michelin. Double-leaf and three-leaf roots fans and high-temperature fans are exported in batches to Southeast Asia, Europe and US. Boasted with more than dozen of series and hundreds of thousands of specifications, the main product of reducer has been successfully applied to national key projects e.g. the Three Gorges Dam, the Chang'e-1 Launch Base, the Hangzhou Bay Sea-Crossing Bridge, the Beijing Olympic Stadium, and the Shanghai World Expo Park. Key customers include Baosteel Group, Shougang Group, Jianlong Steel Plant, Shanghai Zhenhua Heavy Industries Co., Ltd. (ZPMC), Gezhouba Group, Chinacon, Iraq Pump Station, Weihua Group, Chengdu Lee Jun, Sany Heavy Industry, Fujian Ningde Nuclear Power Station and Liaoning Hongyanhe Nuclear Power Station.

Tailong people will follow their persistent quality guarantee, service guarantee and credit standing guarantee and take customer satisfaction as our tip-top pursuit!

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齿轮箱 Gear Units

基本类型概述 Summary Of Basic Types

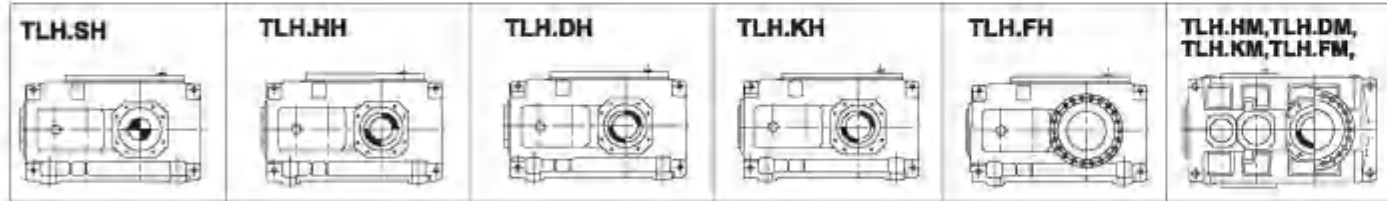
卧式安装 Horizontal mounting position

平行轴齿轮箱

类型TLH1..., TLH2..., TLH3..., TLH4...
1~...4-级, $i_n=1.25-450$

Helical gear units

Types TLH1..., TLH2..., TLH3..., TLH4...
1~...4-stage, $i_n=1.25-450$

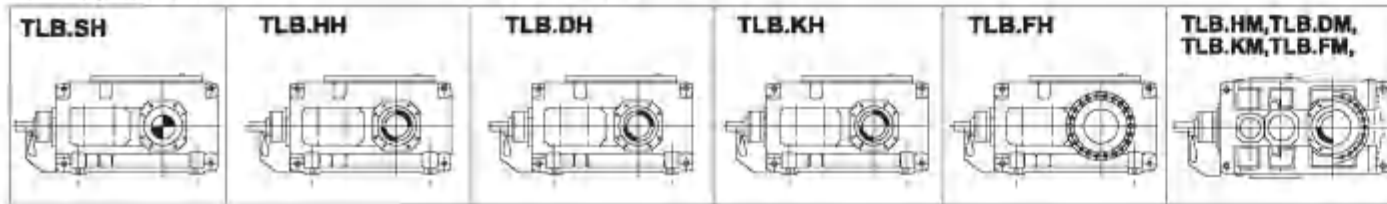


直交轴齿轮箱

类型TLB2..., TLB3..., TLB4...
2~...4-级, $i_n=5-400$

Bevel-helical gear units

Types TLB2..., TLB3..., TLB4...
2~...4-stage, $i_n=5-400$



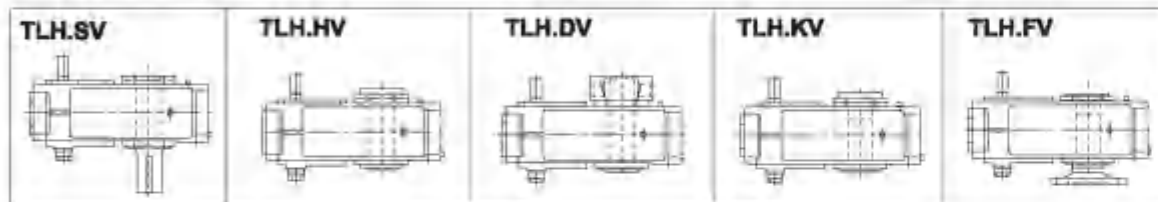
立式安装 Vertical mounting position

平行轴齿轮箱

类型TLH2.V, TLH3.V, TLH4.V
2~...4-级, $i_n=6.3-450$

Helical gear units

Types TLH2.V, TLH3.V, TLH4.V
2~...4-stage, $i_n=6.3-450$

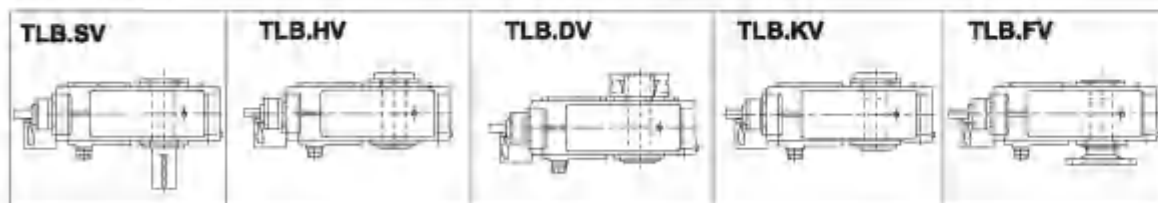


直交轴齿轮箱

类型TLB2.V, TLB3.V, TLB4.V
2~...4-级, $i_n=5-400$

Bevel-helical gear units

Types TLB2.V, TLB3.V, TLB4.V
2~...4-stage, $i_n=5-400$



齿轮箱 Gear Units

性能特点 Characteristic

设计

平行轴和直交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和带花键的空心轴, 使齿轮箱满足在狭小空间的安装要求根据(根据用户要求供货)。

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, 也可采用其他安装形式。

安装电机用法兰、扭力支撑装置均可根据客户要求。

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高设备运行可靠性, 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 units are a completely new design. Outstanding innovations are:

- More sizes with a reduced variety of parts;
- Higher operational reliability combined with increased power capacity;
- Flanged output shafts and hollow shaft with involute splines to facilitate assembly of gear units in confined spaces (on request).

Mounting position

- Gear units 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 units
- Designing noise-absorbing housings
- Achieving exceptionally large contact ratios.

Thermal conduction

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

Storing

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

齿轮箱 Gear Units

一般说明 General information

注意事项:

应严格遵守以下各项:

- 一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。齿轮箱供货时已作好运行准备,只是未加润滑油。
- 此处给出的加油量只作为参考值。实际油量应以油尺上的标记为准。
- 润滑油粘度须以齿轮箱铭牌上的数值为准。
- 齿轮箱供货时带径向轴封。用户如有特别要求,可提供其它形式的密封装置。
- 转动方向是指面向输出轴时输出轴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 gear units are delivered ready for operation but without oil filling.
- Oil quantities given are guide values only. The exact quantity of oil depends on the marks on the oil dipstick
- The oil viscosity has to correspond to the data given on the name plate.
- The gear units are supplied with radial shaft seals. Other sealing variants on request.
- Directions Of rotation referring to output shaft d2.

在标注尺寸的图纸上使用的符号说明如下

Explanation of symbols used in the dimensioned drawings:

- ① =油尺 Oil dipstick
- ② =通气孔 Breather
- ③ =放油孔 Oil drain
- ④ =加油孔 Oil filler

规格13号以上齿轮箱箱体地脚上可配有调整顶螺丝,箱盖上配有调整平面。

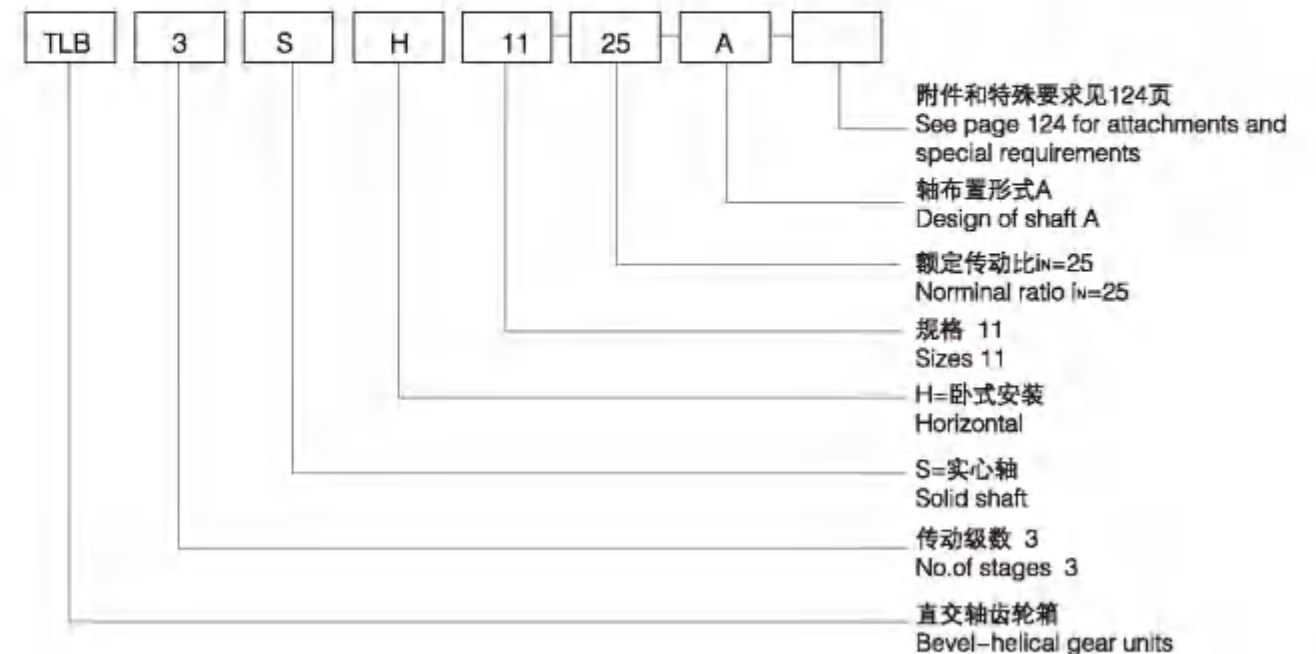
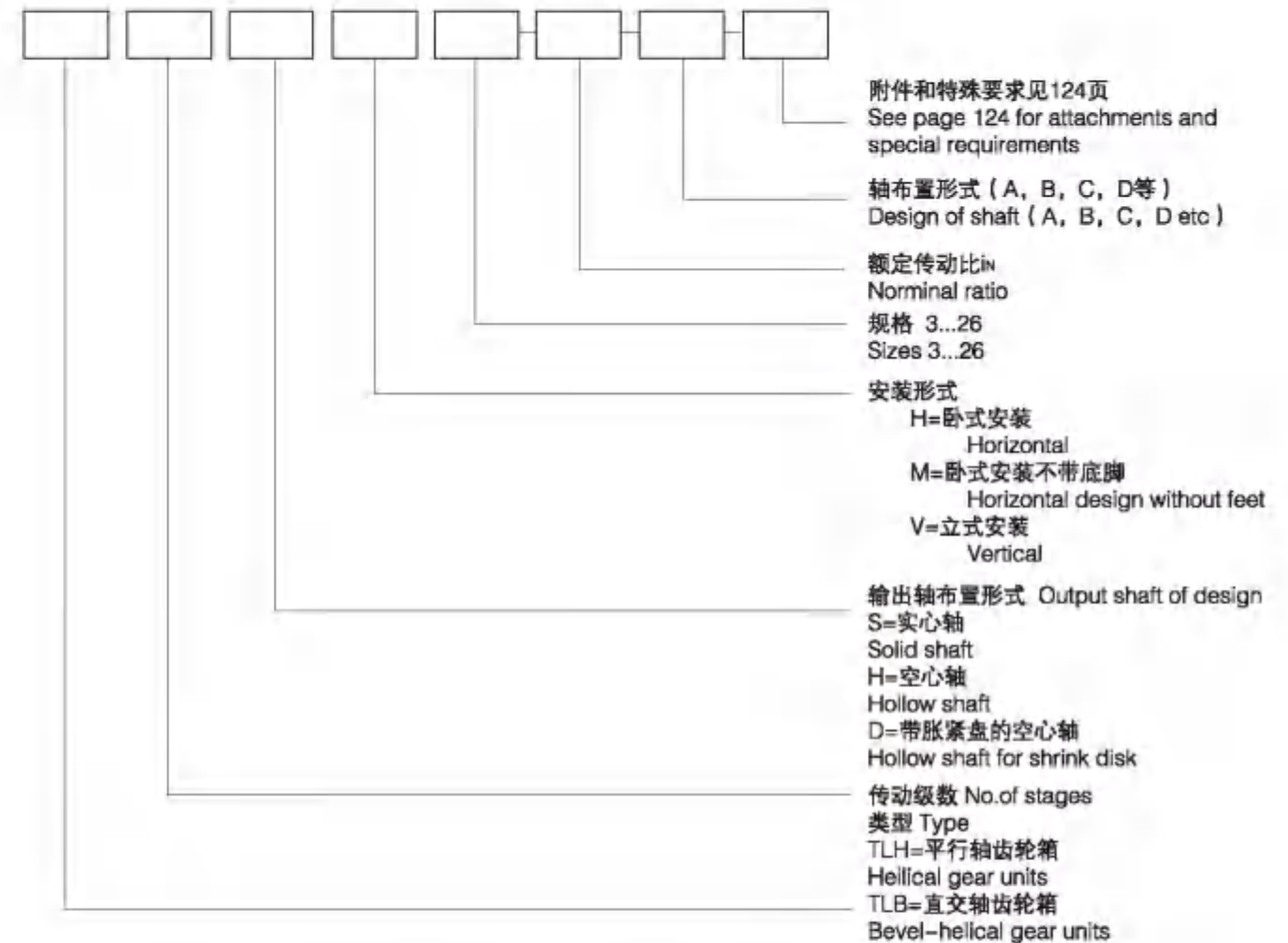
From size 13 up jack screws in the housing feet, and leveling pads on the upper housing part

基础螺栓的最低性能等级为8.8级。

Foundation bolts of min. property class 8.8

齿轮箱 Gear Units

型号表示方法 Designation of Types



齿轮箱 Gear Units

选型指南 Guidelines for the Selection

1.确定齿轮箱的类型及规格 1.Determination of gear unit type and size	1.1 计算传动比 Find the transmission ratio $i_a = \frac{n_1}{n_2}$ 1.2 确定齿轮箱的额定功率 Determine nominal power rating of the gear unit $P_N \geq P_2 \times f_1 \times f_2 \times S_A$ 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 $P_N \geq \frac{T_{axn1}}{9550} \times f_3$ 齿轮箱的规格和传动级数在额定功率选型表中, 可根据i_N和P_N确定。 Gear unit sizes and number of reduction stages are given in rating tables depending on i_N and P_N 1.4 检查输出轴上是否允许有附加载荷; 见24-25页。 1.4 Check whether additional forces on the output shaft are permissible; see pages 24-25				
2.确定供油方式 2.Determination of oil supply	安装方式 Mounting position <table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 50%;">卧式安装 Horizontal</th><th style="width: 50%;">立式安装 Vertical</th></tr> </thead> <tbody> <tr> <td>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 lubrication on request</td><td>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96-97页 Possible oil supply variations: -Dip lubrication -Forced lubrication by means of flanged-on pump or motor pump. For preferred variants and criteria for selection, page</td></tr> </tbody> </table>	卧式安装 Horizontal	立式安装 Vertical	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 lubrication 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96-97页 Possible oil supply variations: -Dip lubrication -Forced lubrication by means of flanged-on pump or motor pump. For preferred variants and criteria for selection, page
卧式安装 Horizontal	立式安装 Vertical				
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3.确定所需要的热容量P_G 3.Determination of required thermal capacity P_G	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 units without auxiliary cooling, if: $P_2 \leq P_G = P_{G0} \times f_9 \times f_{10} \times f_{11}$ 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 units with fan cooling, if: $P_2 \leq P_G = P_{G0} \times f_9 \times f_{10} \times f_{11} \times f_{12}$ 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 units with fitted cooling coil, if: $P_2 \leq P_G = P_{G0} \times f_9 \times f_{10} \times f_{11} \times f_{13}$ 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 units with cooling coil and fan, if: $P_2 \leq P_G = P_{G0} \times f_9 \times f_{10} \times f_{11} \times f_{13} \times f_{14}$ 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 cooler on request				

齿轮箱 Gear Units

符号说明 Key to symbols:

符号说明:

Key to symbols:

- E_D = 每小时工作周期, 以百分比表示, 如 $E_D=80\%/h$
Operating cycle per hour in %. e.g. $E_D=80\%/h$
- f_1 = 工作机最低工况系数(表1),
Factor for driven machine(table 1),
- f_2 = 原动机系数(表2),
Factor for prime mover(table 2),
- f_3 = 峰值扭矩系数(表3),
Peak torque factor(table 3),
- f_4, f_5 = 环境温度系数(表4+表5),
Thermal factors(tables 4+5),
- f_6, f_7 = 海拔高度系数(表6+表7),
Factors for altitude(tables 6+7),
- S_A = 减速机安全系数(表8),
Safety coefficient of speed reducer(tables 8)
- f_8 = 立式安装齿轮箱供油系数(表9),
Oil supply factor for vertical gear units(Table 9),
对于卧式安装齿轮箱: $f_8=1$
For horizontal gear units: $f_8=1$
- f_9, f_{10}
 f_{11}, f_{12} = 热容量系数(表10~13),
Thermal capacity factors(tables 10~13),
- i = 实际传动比 Actual ratio
- i_N = 公称传动比 Nominal ratio
- i_s = 要求传动比 Required ratio
- n_1 = 输入转速(1/min) Input speed(1/min)
- n_2 = 输出转速(1/min) Output speed(1/min)
- P_G = 要求的热容量 Required thermal capacity
- P_{G0} = 齿轮箱的热容量, 不带辅助冷却装置,
Thermal capacity for gear units without auxiliary cooling,
- P_{G0} = 齿轮箱的热容量, 带冷却风扇,
Thermal capacity for gear units with fan cooling,
- P_{G0} = 齿轮箱的热容量, 带内置冷却盘管,
Thermal capacity for gear units with built-in cooling coil,
- P_{G0} = 齿轮箱的热容量, 带内置冷却盘管和风扇,
Thermal capacity for gear units with built-in cooling coil and fan,
- P_N = 齿轮箱的额定功率(kw), 见选型表,
Nominal power rating of gear unit(kw), see tables,
- P_2 = 工作机的额定功率(kw) Power rating of driven machine(kw)
- t = 环境温度($^{\circ}C$) Ambient temperature($^{\circ}C$)
- 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
- T_{2N} = 额定输出扭矩(kN.m),
Nominal output torque(kN.m),

齿轮箱 Gear Units

选型指南 Guidelines for the selection

计算示例 Calculation example

已知参数:

原动机
电机功率: $P_1=75\text{kW}$
电机转速: $n_1=1500\text{rpm}$
最大启动扭矩: $T_A=720\text{N} \cdot \text{m}$

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
每小时启动次数: 7
每小时工作周期: $E_c=100\%$
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

直交轴齿轮箱
安装方式: 卧式安装
输出轴 d_2 : 位于齿轮箱右侧(面对输入轴), 即布置型式C
输出轴 d_2 转动方向: 逆时针

Known criteria:

Prime mover
Electric motor: $P_1=75\text{kW}$
Motor speed: $n_1=1500\text{rpm}$
Max.starting torque: $T_A=720\text{N} \cdot \text{m}$

Driven machine

Belt conveyor: $P_2=66\text{kW}$
Speed: $n_2=26\text{rpm}$
Duty: 12小时/天
Starts per hour: 7
Operating cycle per hour: $E_c=100\%$
Ambient temperature: 30°C
Outdoor installation: ($w \geq 4\text{m/s}$)
Altitude: sea level
Reliability: normal

Gear unit design

Bevel-helical gear unit
Mounting position: horizontal
Output shaft d_2 : on right hand side design c
Direction of rotation of output shaft
 d_2 : counterclockwise

要求: 齿轮箱的类型及规格 Required: type and size of gear unit

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

1.1 传动比计算: calculation of transmission ratio

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

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

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

从额定功率表中选择: 类型TLB3, 规格10, 对应的 $P_N=122\text{kW}$

Selected from power rating table: type TLB3, gear unit 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 检查启动扭矩 Checking the starting torque

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

2. 确定热容量 Determination of thermal capacity

2.1 根据表中给出的TLB3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 units without auxiliary cooling, acc.to table for type TLB3

$$P_G = P_G1 \times f_4 \times f_5 \times f_6 \times f_7 \quad P_G = 78.9\text{kW} \times 0.88 \times 1.1 \times (1.23 - 2.80 \times 0.095 \times 0.15) \quad P_G = 82.6\text{kW}$$

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

结论: 齿轮箱不带辅助冷却装置。可满足要求!

Conclusion: A gear unit without auxiliary cooling is sufficient!

齿箱 Gear Units

服务系数 Service Factor

表1				工作机系数 Driven machine factor				f1			
工作机 Driven machine		日带载运行时间(小时) Effective daily operating period under load in hours			工作机 Driven machine		日带载运行时间(小时) Effective daily operating period under load in hours				
		≤2	>2-10	>10			≤2	>2-10	>10		
污水处理 浓缩器(中心传动)		-	-	1.2	输送机械		-	-	-		
压滤机		1.0	1.3	1.5	斗式输送机		-	1.2	1.5		
蒸发器		0.8	1.0	1.3	绞车		1.4	1.6	1.6		
曝气机		-	1.8	2.0	卷扬机		-	1.5	1.8		
捞渣设备		1.0	1.2	1.3	皮带输送机≤150kW		1.0	1.2	1.3		
纵向回转组合式捞渣装置		1.0	1.2	1.3	皮带输送机≥150kW		1.1	1.3	1.4		
预浓缩器		1.0	1.3	1.5	货用电梯*		-	1.2	1.5		
螺杆泵		-	1.1	1.3	客用电梯*		-	1.5	1.8		
水轮机		-	1.3	1.5	刮板式输送机		-	1.2	1.5		
泵		-	-	2.0	自动扶梯		-	1.2	1.4		
离心泵		1.0	1.2	1.3	轨道行走机构		-	1.5	-		
容积式泵		1.3	1.4	1.8	变频装置		-	1.8	2.0		
1个活塞		1.2	1.4	1.5	往复式压缩机		-	1.8	1.9		
>1个活塞		-	-	-	起重机械**		1.0	1.4	1.8		
挖泥机		-	1.6	1.6	回转机构*		1.0	1.1	1.4		
斗式输送机		-	1.3	1.5	俯仰机构		1.1	1.6	2.0		
倾卸装置		1.2	1.6	1.8	行走机构		1.0	1.1	1.4		
履带式行走机构		-	1.7	1.7	起升机构		1.0	1.2	1.6		
斗轮式挖泥机		-	2.2	2.2	转臂式起重机		-	-	-		
用于拾拾		-	2.2	2.2	冷却塔		-	-	2.0		
用于粗料		-	1.4	1.8	冷却塔风扇		-	1.4	1.5		
切碎机		-	-	-	风机(轴流和离心式)		-	-	-		
行走机构*		-	-	-	食品工业		-	-	-		
弯板机*		-	1.0	1.0	蔗糖生产		-	-	1.7		
化学工业		-	-	1.6	甘蔗切碎机*		-	-	1.7		
挤出机		-	1.8	1.8	甘蔗碾磨		-	-	1.2		
调浆机		-	1.5	1.5	甜菜糖生产		-	-	1.4		
橡胶研光机		-	1.3	1.4	甜菜切碎机		-	-	1.5		
冷却器		1.0	1.3	1.4	榨取机,机械致冷机,煮糖机		-	-	-		
混料机,用于		1.4	1.6	1.7	甜菜清洗机		-	-	-		
均匀介质		1.0	1.3	1.5	甜菜切碎机		-	-	-		
非均匀介质		1.2	1.4	1.6	造纸机械		-	1.8	2.0		
搅拌机,用于		1.4	1.6	1.8	各种类型***		-	-	-		
密度均匀介质		1.0	1.3	1.5	碎浆机驱动装置		-	-	-		
不均匀介质		1.2	1.4	1.6	离心式压缩机		-	1.4	1.5		
不均匀气体吸收		1.4	1.6	1.8	索道车		-	1.3	1.4		
烘炉		1.0	1.3	1.5	运货索道		-	-	-		
离心机		1.0	1.2	1.3	往返系统空中索道		-	1.6	1.8		
金属加工设备		-	-	-	拖车式索道		-	1.3	1.4		
翻板机		1.0	1.0	1.2	循环式索道		-	1.4	1.6		
推钢机		1.0	1.2	1.2	水泥工业		-	-	-		
绕线机		-	1.6	1.6	混凝土搅拌机		-	1.5	1.5		
冷床横移架		-	1.5	1.5	破碎机*		-	1.2	1.4		
辊式矫直机		-	1.6	1.6	回转窑		-	-	2.0		
输送机		-	1.5	1.5	管式磨机		-	-	2.0		
连续式		-	2.0	2.0	选粉机		-	1.6	1.6		
间歇式		-	1.8	1.8	辊压机		-	-	2.0		
可逆式轧管机		-	1.5	1.5							
剪切机		-	1.5	1.5							
连续式*		1.0	1.0	1.0							
曲柄式*		-	1.4	1.4							
连续机驱动装置*		-	2.5	2.5							
轧机		-	2.5	2.5							
可逆式开坯机		-	1.8	1.8							
可逆式板坯轧机		-	2.0	2.0							
可逆式线材轧机		-	1.8	1.8							
可逆式薄板轧机		-	1.8	1.8							
可逆式中厚板轧机		0.9	1.0	-							
辊缝调节驱动装置		-	-	-							

工作机额定功率的确定

*1) 按最大扭矩确定额定功率; ***) 可带额定功率地分类;

***1) 按额定功率确定额定功率; ***) 可带额定功率地分类;

所有各项系数均为经验值, 使用这些系数的前提条件是所连接机械应符合通常的设计规范和操作条件, 如遇特殊情况, 请及时与我们联系。对于某些未列入此表的工作机械, 请及时与我们联系。

Determination of rated power of working machine

*) Determine the rated power according to the maximum torque; ***) Accurately classify the load. ***)

Checking of rated capacity is absolutely necessary.

All the coefficients are empirical values. The precondition for using these coefficients is that the connected mechanical equipment should conform to the conventional design specifications and load conditions. In case of special circumstances, please timely contact us. For those working machinery not listed in this form, please contact us.

齿轮箱 Gear Units
服务系数 Service Factor

表1 Table 1 工作机系数 Driven machine factor

工作机 Driven machine		日有效运行时间(小时) Effective daily operating period under load in hours			工作机 Driven machine		日有效运行时间(小时) Effective daily operating period under load in hours		
		≤2	>2-10	>10			≤2	>2-10	>10
木材工业 Wood industry					塑料工业 Plastic industry				
剥皮机 Bark peeler					碾磨机、复式磨 Grinding mill, compound mill				
进给传动 Feed drive	1.25	1.25	1.50	涂剂、涂膜 Coating and film coating paper	1.25	1.25	1.25		
主传动 Main drive	1.75	1.75	1.75	薄塑料、杆杆、薄膜 Thin rod, thin plastic manufacture					
输送机 Transporter				管型、板机机 Tube, plate driver accessories	1.25	1.25	1.50		
带锯、往复带 Belt saw, reciprocating	1.25	1.25	1.50	连续混合机、压片机 Continuous mixer, calendar					
带式、高速连续 Belt, high speed continuous	1.50	1.50	1.50	吹膜、吹塑 Film blower, plasticizer	1.50	1.50	1.50		
主要喂料、重载 mainly heavy load	1.75	1.75	2.00	分批混合机 Batch mixer	1.75	1.75	1.75		
主要喂料、轻载 mainly new log				橡胶工业 Rubber industry					
输送机 Conveyor chain	1.50	1.50	1.50	连续强力内式拌合机 Continuous powerful internal stirrer	1.50	1.50	1.50		
地磅 Perquet	1.50	1.50	1.75	混合料、分批下料板 Mixer, batch charger					
生料 Unprocessed materials				磨粉(双光辊式除外) Crusher(except double rolls)	1.75	1.75	1.75		
切割机 Cutting chain				精磨机、压片机 Refiner, calendar					
带传动、牵引 Saw drive and traction	1.50	1.50	1.75	双相式夹持进给及混合碾磨机 Double-roller clamp feeding Mixer grinder	1.25	1.25	1.25		
剥皮机 Barking drum	1.75	1.75	2.00	分批强力内式拌合机 Batch powerful internal stirrer					
进给传动 Feed drive				双光辊式单槽板机 Double roll single groove roller	1.75	1.75	1.75		
剥皮、卷木 Edge banding, wood sawing				碾磨机、破碎机 grinder, crusher heater, double rolls					
制床进给、分类台 Planer feeding, sorter	1.25	1.25	1.50	双光辊式分批下料碾磨机 Batch charging grinder					
自动倾斜升降 Automatic inclination and lift				波板式碾磨机 wave roll crusher	2.00	2.00	2.00		
多轴进给、原木 Multi-spindle feeding	1.75	1.75	1.75	发电机合轴碾磨机 Generator and axle	1.00	1.00	1.25		
进给和运输 Log transport and turning				锤式碾磨机 Hammer crusher	1.75	1.75	2.00		
料盘 Delivery plate				砂磨机 Sand roller	1.25	1.25	1.50		
胶合板车床传动 Plywood lathe drive	1.50	1.50	1.75						
输送机、起重式 Conveyor chain, crane type									

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

表4 Table4	环境温度系数 Thermal factor
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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(E _o)百分比% Operating cycle per hour(E _o)in %				
	100	80	50	40	20
10℃	1.11	1.31	1.80	2.14	3.64
20℃	1.00	1.18	1.44	1.93	3.28
30℃	0.88	1.04	1.27	1.70	2.89
40℃	0.75	0.89	1.08	1.45	2.48
50℃	0.63	0.74	0.91	1.22	2.07

表6 Table 6	海拔高度系數 Factor for altitude
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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 _a	1.0	0.95	0.90	0.85	0.80

表7 Table 7	海拔高度系数 Factor for altitude
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帶冷却盘管或帶冷却盘管和風扇 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_r	1.0	0.98	0.96	0.94	0.92

表5 Table5	环境温度系数 Thermal factor
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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(E _h)百分比 Operating cycle per hour(E _h) in %				
	100	80	60	40	20
10℃	1.05	1.23	1.50	2.03	3.41
20℃	1.00	1.17	1.43	1.93	3.25
30℃	0.93	1.09	1.33	1.79	3.02
40℃	0.87	1.02	1.24	1.68	2.83
50℃	0.81	0.95	1.18	1.56	2.63

齿轮箱 Gear Units
服务系数 Service Factor

表8 Table 8	減速機安全係數 Safety coefficient of speed reducer
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重要性与安全要求 Importance and safety requirements	一般设备, 减速器失效仅引起单机停产且易更换备件 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, 减速器失效仅引起机组、生产线或全厂停产 The failure of ordinary equipment and speed reducer can only result in production halts of machines, production lines or the whole factor;	高度安全要求, 减速器失效引起设备、人身事故 Higher safety requirements, the failure of speed reducer can cause the incident of equipment and human body.
Sa	$1 \leq SF \leq 1.3$	$1.3 \leq SF \leq 1.5$	$1.5 < SF$

注 立式安装齿轮箱供油系数。对于卧式安装齿轮箱取 1.0; 当采用强制润滑时, 取 1.05

齿轮箱类型	供油方式	规格 1~12				规格 13~18			
		不带辅助冷却装置	带冷却风扇	带冷却盘管	带风扇和冷却装置	不带辅助冷却装置	带冷却风扇	带冷却盘管	带风扇和冷却装置
TLH2.V TLH3.V TLH4.V	浸油润滑	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
	强制润滑	1.15	1.10	1.05	1.10	1.15	1.10	1.05	1.10
TLH2.V TLH3.V TLH4.V	浸油润滑	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
	强制润滑	1.15	1.10	1.10	1.10	1.15	1.10	1.10	1.10

表10 不带辅助冷却装置齿轮箱的热容量系数

齿轮箱类型	n 1/min	速比i	狭小空间安装*					室内大厅、大车间安装**					室外安装***				
			规格					规格					规格				
			1...6	7...12	13...18	19...22	23...26	1...6	7...12	13...18	19...22	23...26	1...6	7...12	13...18	19...22	23...26
TLH1SH	750	1.25...2 2.24...5.6	0.60 0.67	0.57 0.64	— 0.61	— 0.56		0.77 0.81	0.73 0.79	— 0.75	— 0.74		1.00 1.00	1.00 1.00	1.00 1.00	— 1.00	
	1000	1.25...2 2.24...5.6	0.55 0.69	— 0.59	— 0.53	— —		0.72 0.85	0.63 0.76	— 0.66	— 0.50		0.99 1.07	0.99 0.99	— 0.92	— 0.75	
	1500	1.25...2 2.24...3.65 4...5.6	0.49 0.56 0.74	— — 0.52	— — —	— — —		0.63 0.76 0.93	— 0.56 0.69	— — —	— — —		0.92 1.04 1.19	— 0.86 0.96	— — 0.76	— — —	
TLH2... TLB2...	750	5...9 10...28	0.66 0.71	0.58 0.68	0.60 0.67	0.60 0.68		0.81 0.83	0.76 0.82	0.74 0.81	0.76 0.81		1.00 1.00	1.00 1.00	1.00 1.00	1.00 1.00	
	1000	5...9 10...28	0.66 0.75	0.54 0.68	0.51 0.66	— 0.63		0.83 0.90	0.69 0.84	0.65 0.80	— 0.77		1.06 1.10	0.95 1.06	0.90 1.03	0.97 0.99	
	1500	5...6.4 7...9 10...18 18...28	0.56 0.64 0.75 0.81	— 0.47 0.56 0.69	— 0.41 0.54 0.63	— — 0.64 —		0.76 0.82 0.94 0.99	0.59 0.62 0.71 0.86	— — 0.67 0.78	— — — 0.88		1.05 1.10 1.20 1.24	0.88 0.87 0.98 1.14	— 0.81 0.93 1.05	— — 0.83 0.93	
TLH3... TLB3...	750	12.5...112	0.71	0.70	0.70	0.70		0.83	0.83	0.83	0.82		1.00	1.00	1.00	1.00	
	1000	12.5...112	0.76	0.74	0.71	0.70		0.90	0.89	0.86	0.84		1.09	1.09	1.07	1.06	
	1500	12.5...31.5 35.5...56 63...112	0.77 0.83 0.87	0.62 0.78 0.87	0.54 0.69 0.84	0.53 0.64 0.81		0.96 1.00 1.03	0.82 0.96 1.03	0.67 0.87 1.00	0.65 0.81 0.97		1.21 1.23 1.24	1.10 1.20 1.24	0.95 1.12 1.23	0.88 1.07 1.20	
TLH4... TLB4...	750	80...450	0.71	0.72	0.73	0.73		0.84	0.85	0.85	0.85		1.00	1.00	1.00	1.00	
	1000	80...450	0.76	0.77	0.78	0.78		0.90	0.91	0.91	0.91		1.09	1.09	1.09	1.09	
	1500	80...112 125...450	0.79 0.84	0.82 0.86	0.80 0.85	0.72 0.85		0.98 1.01	0.99 1.02	0.98 1.01	0.94 1.01		1.21 1.23	1.21 1.23	1.20 1.22	1.18 1.22	

齿轮箱 Gear Units
服务系数 Service Factor

表11 带冷却风扇齿轮箱的装置热容量系数

f10

齿轮箱类型	n 1/min	速比 i	狭小空间安装 *					室内大厅、大车间安装 **					室外安装 ***				
			规格					规格					规格				
			1...6	7...12	13...18	19...22	23...26	1...6	7...12	13...18	19...22	23...26	1...6	7...12	13...18	19...22	23...26
TLH1SH	750	1.25...112	0.89	0.93	0.98	0.98		0.93	0.95	0.99	0.99		1.00	1.00	1.00	1.00	
TLH2	1000		1.07	1.13	1.16	1.18		1.11	1.15	1.17	1.17		1.18	1.19	1.19	1.19	
TLB2... TLB3...	1500		1.41	1.46	1.45	1.44		1.43	1.47	1.45	1.44		1.49	1.51	1.47	1.46	

表12 带冷却盘管齿轮箱的热容量系数

f11

齿轮箱类型	n 1/min	速比 i	狭小空间安装 *					室内大厅、大车间安装 **					室外安装 ***				
			规格					规格					规格				
			1...6	7...12	13...18	19...22	23...26	1...6	7...12	13...18	19...22	23...26	1...6	7...12	13...18	19...22	23...26
TLH1SH	750	1.25...28	0.83	0.86	0.85	0.88		0.90	0.92	0.92	0.93		1.00	1.00	1.00	1.00	
TLH2...	1000		0.94	1.00	0.96	0.96		1.04	1.05	1.02	1.02		1.15	1.15	1.10	1.09	
TLB2...	1500		1.13	1.15	1.01	0.95		1.24	1.23	1.07	1.02		1.38	1.34	1.17	1.11	
TLH2... TLB3...	750	12.5...112	0.85					0.92					1.00				
	1000		0.98					1.06					1.15				
	1500		1.19					1.29					1.40				

表13 带冷却风扇和冷却盘管的齿轮箱热容量系数

f12

齿轮箱类型	n 1/min	速比 i	狭小空间安装 *					室内大厅、大车间安装 **					室外安装 ***				
			规格					规格					规格				
			1...6	7...12	13...18	19...22	23...26	1...6	7...12	13...18	19...22	23...26	1...6	7...12	13...18	19...22	23...26
TLH1SH	750	1.25...112	0.93	0.97	0.96			0.96	0.98	0.99			1.00	1.00	1.00		
TLH2	1000		1.14	1.19	1.19			1.16	1.20	1.20			1.20	1.22	1.21		
TLB2... TLB3...	1500		1.53	1.58	1.53			1.54	1.59	1.54			1.58	1.60	1.54		

*)风速≥1m/s ***)风速≥2m/s ***风速≥3m/s ****)根据用户要求供货
—需要辅助冷却装置

平行轴齿轮箱 Helical Gear Units
类型 TLH1 Type TLH1

额定功率 Nominal Power Ratings
规格 3...19 Sizes 3...19

额定功率 Nominal Power Ratings																												
齿轮箱规格 Gear unit sizes																												
in	n1	n2	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
	1/min		额定功率 P _n kW Nominal Power Ratings P _n in kW																									
1.25	1500	1200			327		690		1571		2702																	
	1000	800			218		586		1114		1801																	
	750	600			163		440		836		1351																	
1.4	1500	1071			303		607		1558		2501																	
	1000	714			202		536		1039		1667																	
	750	536			152		404		780		1252																	
1.6	1500	938			285		737		1395		2318		3929															
	1000	625			190		491		929		1545		2618		4123													
	750	468			142		368		697		1159		1964		3094													
1.8	1500	833			209		672		1326		2128		3611															
	1000	556			140		448		865		1421		2410		3860													
	750	417			105		336		664		1065		1806		2895													
2	1500	750			196		644		1217		1963		3353															
	1000	500			131		429		812		1309		2236		3571													
	750	375			98		322		609		982		1677		2678		4751											
2.24	1500	670			175		589		1087		1754		3067															
	1000	446			117		392		724		1188		2055		3283													
	750	335			88		295		544		877		1543		2486		4280											
2.5	1500	600			163		526		974		1571		2784															
	1000	400			109		352		649		1047		1843		3016		4607											
	750	300			82		264		487		785		1382		2262		3455											
2.8	1500	536			152		471		838		1390		2470															
	1000	357			101		314		557		886		1645		2692		4224											
	750	268			76		236		418		686		1235		2021		3171		4799									
3.15	1500	476			135		419		756		1221		2088		3409													
	1000	317			90		279		505		813		1391		2270		3850											
	750	238			67		209		379		611		1044		1705		2891		4311									
3.56	1500	423			124		368		667		1103		1936		3083													
	1000	282			83		245		458		735		1290		2056		3484											
	750	211			62		183		342		550		966		1538		2607		3822									
4	1500	375			110		330		609		982		1728		2780													
	1000	250			73		220		406		654		1152		1853		3196		4529									
	750	188			55		165		305		492		866		1394		2402		3406		4823							
4.5	1500	333			77		234		481		746		1385		2008		3557											
	1000	222			51		156		321		497		930		1339		2371		3394									
	750	167			38		117		241		374		698		1007		1784		2553		3777							
5	1500	300			66		198		377		644		1059		1712		2790											
	1000	200			44		132		251		429		706		1141		1860		2597		3644							
	750	150			33		99		189		322		529		856		1395		1948		2733							
5.6	1500	268			56		168		320		491		892		1454		2371											
	1000	179			37		112		214		328		596		971		1584		2212		2812							
	750	134			28		84		160		246		446		727		1186		1656		2105							

额定功率 Nominal Power Ratings
规格 4...26 Sizes 4...26

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

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

直交轴齿轮箱 Bevel-helical Gear Units
类型 TLB2 Type TLB2

额定功率 Nominal Power Ratings
规格 4...26 Sizes 4...26

额定功率 Nominal Power Ratings																													
n	n1	n2	齿轮箱规格 Gear unit sizes																										
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
			额定功率 P _N kW Nominal Power Ratings P _N in kW																										
5	1500	500				182	295		559	580		1951		3073															
	1000	200				121	197		373	586		901		1802	2505														
	750	150				91	148		280	441		675		1037	1918														
5.6	1500	288				183	284		530	739		1203		1900															
	1000	179				109	176		334	524		843		1206	2287														
	750	134				81	132		250	383		651		940	1712	2894	2735												
H2	1800	338				145	234	289	444	356	689	687	1171	1371	1783	2044													
	1000	159				97	157	200	296	371	466	593	769	918	1162	1285	2164	2949											
	750	119				72	117	150	222	276	349	444	586	685	885	1032	1822	1757	2430										
7.1	1500	211				126	208	265	393	493	614	787	1085	1366	1715	1888													
	1000	141				88	138	177	283	376	478	626	723	842	1078	1240	1943	2141	2879										
	750	106				64	104	138	198	248	311	395	544	620	810	922	1465	1609	2164	2353									
8	1500	188				114	186	236	360	439	551	701	904	1161	1518	1732	2598												
	1000	126				78	123	157	233	282	368	468	601	772	1008	1132	1729	1857	2502										
	750	94				57	93	116	175	219	279	350	487	581	758	866	1298	1457	1919	2054									
9	1500	167				101	164	210	311	390	490	625	863	1067	1364	1591	2308	2598											
	1000	111				67	109	139	207	258	325	414	567	708	907	1058	1534	1726	2266	2673									
	750	83				50	82	104	155	194	249	303	438	520	678	791	1147	1299	1885	1988									
10	1500	150				91	149	188	280	360	440	559	789	974	1235	1492	2079	2395											
	1000	100				61	98	126	186	234	292	372	529	640	817	935	1382	1550	2042	2438									
	750	75				46	74	94	140	175	220	280	397	487	613	746	1037	1162	1511	1806									
11.3	1500	134				81	132	168	250	313	393	510	709	970	1248	1548	1952	2377											
	1000	88				54	88	112	166	200	261	332	471	578	727	909	1250	1379	1817	2143									
	750	67				41	66	84	125	156	196	250	364	435	547	664	926	1038	1365	1614									
12.5	1500	120				69	113	151	214	260	332	437	606	779	988	1250	1608	1980	2450										
	1000	80				46	78	101	142	187	235	298	422	519	663	817	1108	1240	1624	1927	2084								
	750	60				35	59	75	107	140	176	224	317	390	490	613	829	930	1235	1445	1571								
14	1500	107				67	110	134	204	250	331	439	604	785	995	1285	1656	1956	2465										
	1000	71				45	73	99	136	166	219	288	394	481	595	735	1019	1103	1450	1710	1848								
	750	54				34	55	76	103	126	167	201	300	354	452	551	773	837	1103	1281	1481	1885	2036						
16	1500	84				61	100	118	186	212	306	400	551	670	817	990	1308	1518	1909	2264									
	1000	53				41	67	79	120	142	202	235	368	438	548	643	937	1018	1318	1517	1814	2039	2307	2784					
	750	47				31	50	59	94	106	152	175	276	305	406	480	699	758	984	1132	1362	1516	1870	2077					
18	1500	63				56	92	110	179	201	300	388	534	665	739	898	1286	1391	1798	2086									
	1000	46				38	62	74	116	135	201	230	340	381	496	586	863	936	1170	1407	1600	1876	2146	2588					
	750	42				28	47	55	87	102	143	165	256	288	373	445	651	704	896	1035	1267	1407	1758	1825					
20	1500	75				52	86	104	161	188	287	359	471	524	641	708	1029	1111	1574	1888									
	1000	50				35	58	69	107	125	179	206	314	366	461	528	801	874	1047	1267	1571	1738	2180	2382	2632				
	750	35				26	44	53	82	95	136	156	238	271	350	410	609	666	795	955	1184	1321	1671	1910	2228				
25.4	1500	67				48	77	97	144	174	239	286	421	505	617	744	1079	1214	1608	2166	2420								
	1000	45				31	52	65	97	117	160	193	282	339	415	499	731	815	982	1231	1416	1689	1970	2215	2639	3015			
	750	33				23	38	46	71	86	117	142	207	249	304	366	529	595	691	829	1037	1192	1451	1624	1935	2212	2664		
28	1500	80				41	69	91	128	160	214	270	377	471	583	695	961	1087	1387	1808	2188								
	1000	40				29	46	51	86	107	142	180	257	314	389	457	641	725	908	1025	1257	1445	1751	1988	2349	2831			
	750	30				21	35	45	69	80	107	135	198	250	276	342	481	542	629	754	942	1084	1319	1476	1759	2010	2513	2827	
38	1500	54				37	62	82	116	144	192	245	338	424	496	616	855	976	1131	1387	1696	1980	2375						
	1000	36				25	41	50	77	98	128	162	226	283	332	411	572	662	751	906	1121	1309	1582	1772	2111	2413	3014		
	750	27				19	31	41	58	72	95	122	170	212	249	308	423	489	565	679	843	975	1167	1329	1589	1824	2362	2545	

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

直交轴齿轮箱 Bevel-helical Gear Units
类型 TLB3, TLB4, Type TLB3, TLB4

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

额定功率 Nominal Power Ratings																												
n	n1	n2	齿轮箱规格 Gear unit sizes																									
			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 P _N kW Nominal Power Ratings P _N in kW																									
31.5	1500	46	35	55	73	103	128	171	216	262	377	442	548	769	970	1005	1208	1508	1734	2111	1515	1876	2145	2681	3071	3071		
	1000	32	32	37	49	69	88	114	144	201	251	295	365	513	580	670	804	1005	1135	1407	1515	1876	2145	2681	3071			
	750	24	17	28	36	52	64	85	108	151	185	221	271	365	435	503	603	754	867	1095	1181	1407	1808	2010	226			
	1500	42	29	48	64	90	112	150	189	264	330	397	479	673	781	880	1065	1319	1517	1847	2067	2483	2815					
35.5	1000	25	19	32	43	60	75	100	126	178	220	258	320	440	507	586	704	880	1012	1231	1378	1642	1970	2346	263			
	750	21	15	24	32	45	58	75	95	132	165	194	240	336	380	440	518	692	750	924	1074	1281	1467	1759	197			
	1500	38	26	44	58	82	101	133	171	239	290	350	434	608	688	780	935	1158	1319	1611	1876	2228	2657					
	1000	25	17	29	38	54	67	88	113	157	194	230	285	401	453	524	628	785	903	1089	1236	1488	1675	2094	227			
40	750	19.9	13	22	29	40	50	67	85	118	144	173	215	301	341	394	472	591	679	827	925	1103	1282	1576	177			
	1500	33	23	38	50	71	88	117	149	207	259	304	377	529	58	681	820	1027	1192	1451	1624	1935	2212	2764				
	1000	22	15	25	33	47	59	78	99	136	173	203	251	352	398	461	553	691	796	968	1063	1291	1474	1843	207			
	750	16.7	12	19	25	35	43	58	75	95	125	153	181	226	268	303	350	420	525	603	734	822	979	1113	1390	157		
45	1500	37	21	35	46	64	80	107	136	186	236	276	342	481	545	628	754	942	1093	1319	1476	1759	2010	2513	282			
	1000	27	14	27	30	43	53	71	90	126	157	184	225	300	340	392	419	502	585	705	880	981	1173	1340	1675	181		
	750	19	10.4	17	23	32	40	53	66	94	118	138	171	240	272	314	377	471	542	660	730	860	1005	1257	141			
	1500	27	19	31	41	58	72	96	122	170	212	248	308	433	489	564	679	848	975	1187	1339	1563	1809	2208	264			
50	1000	17.9	12	21	27	38	48	64	81	112	141	165	204	287	324	375	450	582	647	787	861	1020	1202	1490	1680			
	750	13.4	8.3	15	20	29	36	49	60	84	105	123	153	215	249	291	327	421	484	589	669	798	995	1193	129			
	1500	24	17	28	36	50	64	85	109	151	188	221	274	385	435	503	603	754	867	1065	1181	1407	1608	2010	226			
	1000	13.9	11	18	24	32	42	57	72	100	125	147	181	256	286	333	400	499	514	690	783	932	1067	1322	140			
56	750	11.9	8.2	14	19	26	32	42	54	75	93	110	146	191	216	249	298	374	430	523	586	696	797	957	1121			
	1500	21	14.5	24	32	44	58	75	95	132	165	194	240	336	380	440	518	692	750	924	1074	1281	1467	1759	197			
	1000	16.1	8.7	16	21	30	38	50	62	88	111	130	161	226	255	295	354	443	509	619	686	827	945	1181	129			
	750	10.8	7.3	12	16	22	28	36	46	67	83	98	121	170	192	222	266	338	383	466	522	622	710	881	977			
60	1500	18.8	22	25	40	50	67	85	116	140	175	215	301	341	394	472	591	679	827	925	1103	1282	1576	177				
	1000	12.5	14	18	27	33	45	53	78	98	115	143	200	228	262	314	383	452	530	615	733	865	1047	1171				
	750	8.4	11	14	20	26	33	42	58	74	87	107	151	170	197	236	285	346	413	483	551	680	787	988				
	1500	18.7	19	24	36	44	59	75	103	123	154	187	269	308	350	400	525	603	734	822	979	1113	1390	157				
90	1000	11.1	13	15	24	29	40	50	70	72	102	127	179	201	232	278	349	401	488	545	651	744	930	1070				
	750	8.3	9.6	12	18	22	30	37	52	65	78	95	133	150	174	208	261	301	385	438	487	585	695	780				
	1500	15	17.3	23	32	40	53	68	94	113	138	171	240	272	318	377	471	542	660	730	860	1005	1257	141				
	1000	10	12	15	21	27	36	45	63	79	92	114	160	181	209	251	316	361	440	482	586	670	835	942				
100	750	7.8	8.6	11.4	16	20	27	34	47	59	69	86	120	136	157	188	236	271	339	389	440	533	626	720				
	1500	13.4	15	20	29	36	48	60	84	105	125	153	215	249	291	327	421	484	589	669	798	995	1193	129				
	1000	8.5	10.3	13.5	19	24	32	40	56	70	82	102	143	161	188	224	280	327	391	438	522	606	746	838				
	750	6.7	7.7	10	14	18	24	30	43	53	62	76	107	121	140	168	210	242	295	330	393	449	561	613				
112	1500	12	14	18	26	32	43	54	75	94	111	137	192	217	251	303	377	434	484	589	669	798	995	1193				
	1000	8	9.2	12	17	21	28	36	50	63	74	91	128	145	168	201	251	289	352	394	468	538	670	754				
	750	6	6.9	9.1	13	16	21	27	38	47	55	68	96	109	128	151	189	217	264	295	362	402	500	568				
	1500	10.7	12	16.2	23	29	38	48	67	84	99	122	171	194	224	268	336	387	471	527	627	717	886	1000				
140	1000	7.1	8.2	11	15	19	25	32	45	56	68	81	114	123	149	178	223	266	312	349	416	476	596	688				
	750	6.4	6.2	8.2	12	14.4	19	24	34	42	50	62	87	91	113	136	170	195	237	268	317	382	482	508				
	1500	9.4	11	14.3	20	25	33	42	58	74	87	107	151	170	197	236	295	340	413	463	551	630	787	890				
	1000	6.3	7.3	9.6	14	17	22	28	40	49	58	72	101	114	132	158	198	228	277	310	369	422	520	584				
160	750	4.7	5.4	7.1	10	13	17	21	30	37	43	54	75	85	95	118	145	170	207	231	276	315	394	443				
	1500	8.3	9.6	13	18	22	30	37	52	65	78	95	133	150	174	208	261	301	385	438	487	585	695	780				
	1000	6.6	6.5	8.5	12	15	20	25	36	44	52	64	90	101	117	141	175	202	248	276	339	375	469	508				
	750	4.2	4.6	6.4	9.0	11.2	15	19	26	33	40	49	67	76	82	100	122	152	185	207	246	287	362	396				
200	1500	1.5	8.6	11.4	18	20	27	34	47	59	69	86	120	136	157	188	236	271	339	389	440	533	626	720				
	1000	5	5.6	7.8	11	13.4	18	23	31	38	46	57	80	91	105	128	157	181	220	246	293	335	413	471				
	750	3.8	4.4	6.0	8.2	10	14	17	24	30	36	43	61	69	80	96	119	137	167	187	223	258	318	358				
	1500	6.7	7.7	10	14.4	18	24	30	42	52	62	76	107	121	140	168	210	242	295	330	393	449	561	613				
224	1000	4.6	5.2	6.0	9.7	12	16	20	28	35	41	51	72	82	94	113	141	165	198	221	264	302	377	431				
	750	3.3	3.6	5.0	7.1	9	12	15	21	26	30	38	50	58	68	83	104	119	145	162	194	221	276	311				
	1500	8	6.9	9.1	13	16	21	27	36	47	55	68	96	108	123	151	185	217	264	295	352	402	503	568				
	1000	4	4.5	6.1	8.6	11	14	19	25	31	37	46	64	72	84	101	125	145	178	187	235	268	335	371				
250	750	2	3.5	4.8	6.4	9.0	11	14	19	24	28	34	48	54	63	75	94	109	132	149	175	201	251	283				
	1500	5.4	6.2	8.2	12	14.4	19	24	34	42	50	62	87	98	113	136	170	195	237	268	317	382	482	508				
	1000	3.6	4.1	5.6	7.7	9.8	13	16	23	28	33	41	55	65	75	90	113	130	166	177	211	247	302	331				
	750	2.7	3.1	4.1	5.8	7.2	10	12	17	21	25	31	43	49	57	68	85	95	116	133	158	181	226	251				
315	1500	4.8	5.6	7.0	10.3	13	17	22	30	36	44	58	77	87	101	121	151	173	211	226	281	320						

平行轴齿轮箱 Helical Gear Units 额定输出扭矩 Nominal Output Torques
 类型 TLH1.., TLH2.., TLH3.., TLH4.. Types TLH1.., TLH2.., TLH3.., TLH4.. 规格 1..26 size 1..26

传动比 <i>i</i> , 额定输出扭矩 <i>T</i> _{2n} Transmission ratios <i>i</i> , nominal output torques <i>T</i> _{2n} KN.m																											
iN	齿轮箱规格 Gear unit sizes																										
	1	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26		
	额定输出扭矩 <i>T</i> _{2n} nominal output torques <i>T</i> _{2n}																										
1.25		2.6		7		13.3		21.5																			
1.6		2.7		7.2		13.9		22.3																			
1.8		2.8		7.7		14.7		23.6		40		63															
1.8		2.4		7.7		15.2		24.4		41.4		66.3															
2		2.5		8.2		15.5		25		42.7		68.2		181													
2.24		2.6		8.4		15.6		25		44		70.3		122													
2.5		2.6		8.4		15.6		25		44		72		110													
2.8		2.7		8.4		14.9		23.7		44		72		113		171											
3.15		2.7		8.4		16.2		24.5		41.9		68.4		116		173											
3.55		2.8		8.8		15.5		24.8		43.7		69.6		118		173											
4		2.8		8.4		15.5		25		44		70.8		122		173		245									
4.5		2.2		6.7		13.8		21.4		40		57.6		102		146		216									
5		2.1		6.3		12		20.4		33.7		54.5		88.8		124		179									
5.6		2		6		11.4		17.5		31.8		51.8		84.5		118		150									
6.3		3.5	6.3	10.5		19		31.5		55.5		86		143		195		292									
7.1		3.5	6.3	10.5		19		31.5		55.5		86		143	180	195	230	282	335	410							
8		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	107	143	180	195	230	282	335	410	458						
9		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	107	143	180	195	230	282	335	410	458	540					
10		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	107	140	180	195	230	282	335	410	458	540	620				
11.2		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	107	143	180	195	230	282	335	410	458	540	620	760			
12.5		3	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	107	143	180	195	230	282	335	410	458	540	620	760	860		
14		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	107	143	180	195	230	282	335	410	458	540	620	760	860		
16		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	107	143	180	195	230	282	335	410	458	540	620	760	860		
16		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	107	140	180	195	230	282	335	410	458	540	620	760	860		
20		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	107	140	180	195	230	282	335	410	458	540	620	760	860		
22.4		3.5	6.3	10.2	13.5	16.8	24	31	39.8	54.3	69	86	107	153	180	200	230	300	335	420	458	560	620	800	860		
25				11	12.5	20.5	24	34	39.5	60	69	86	107	153	173	200	240	300	345	420	470	560	640	800	900		
28				11	13	20.5	29.5	34	35.5	60	67.8	86	109	153	173	200	240	300	345	420	470	560	640	800	900		
31.5				11	14.5	20.5	25.5	34	43	60	75	86	109	153	173	200	240	300	345	420	470	560	640	800	900		
35.5				11	14.5	20.5	25.5	34	43	60	75	86	109	153	173	200	240	300	345	420	470	560	640	800	900		
40				11	14.5	20.5	25.5	34	43	60	75	86	109	153	173	200	240	300	345	420	470	560	640	800	900		
45				11	14.5	20.5	25.5	34	43	60	75	86	109	153	173	200	240	300	345	420	470	560	640	800	900		
50				11	14.5	20.5	25.5	34	43	60	75	86	109	153	173	200	240	300	345	420	470	560	640	800	900		
56				11	14.5	20.5	25.5	34	43	60	75	86	109	153	173	200	240	300	345	420	470	560	640	800	900		
63				11	14.5	20.5	24.5	34	43	60	75	86	109	153	173	200	240	300	345	420	470	560	640	800	900		
71				11	14.5	20.5	25.5	34	43	60	75	86	109	153	173	200	240	300	345	420	470	560	640	800	900		
80				11	14.5	20.5	25.5	34	43	60	75	86	109	153	173	200	240	300	345	420	470	560	640	800	900		
90				11	14.5	20	25.5	33.5	43	60	75	86	109	153	173	200	240	280	345	410	470	560	640	800	900		
100					14.5	20.5	25.5	34	43	60	75	86	109	153	173	200	228	300	335	420	485	560	640	800	900		
112					14.1	20.5	25.2	34	42	60	75	86	109	153	173	200	240	300	345	420	470	560	640	800	900		
125						20.5	25.5	34	43	60	75	86	109	153	173	200	240	300	345	420	470	560	640	800	900		
140						20.5	25.5	34	42	60	75	86	109	153	173	200	240	300	345	420	470	560	640	800	900		
160						20.5	25.5	34	43	60	75	86	109	153	173	200	240	300	345	420	470	560	640	800	900		
180						20.5	25.5	34	43	60	75	86	109	153	173	200	240	300	345	420	470	560	640	800	900		
200						20.5	25.5	34	43	60	75	86	109	153	173	200	240	300	345	420	470	560	640	800	900		
224						20.5	25.5	34	43	60	75	86	109	153	173	200	240	300	345	420	470	560	640	800	900		
250						20.5	25.5	34	43	60	75	86	109	153	173	200	240	300	345	420	470	560	640	800	900		
280						20.5	25.5	34	43	60	75	86	109	153	173	200	240	300	345	420	470	560	640	800	900		
315						20.5	25.5	34	43	60	75	86	109	153	173	200	240	300	345	420	470	560	640	800	900		
355						19.8	25.5	32	45	59	75	86	109	140	173	192	240	290	345	410	470	560	640	800	900		
400							25.5		43		75		109		156		223		335		435		640		900		
450							24.8		41.6		74		108														

直交轴齿轮箱 Bevel-helical Gear Units 额定输出扭矩 Nominal Output Torques
 类型 TLB2.., TLB3.., TLB4.. Types TLB2.., TLB3.., TLB4.. 规格 1..26 size 1..26

传动比 <i>i</i> , 额定输出扭矩 <i>T</i> _{2n} Transmission ratios <i>i</i> , nominal output torques <i>T</i> _{2n} KN.m																											
IN	齿轮箱规格 Gear unit sizes																										
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
	额定输出扭矩 <i>T</i> _{2n} Nominal output torques <i>T</i> _{2n}																										
2				5.8	9.4		17.8		28		43		66		122												
2.8				5.8	9.4		17.8		28		45		67		122	135	195										
3.3				5.8	9.4	12	17.8	22.2	28	35.6	47	55	71	82	130	141	195										
4.1				5.8	9.4	12	17.8	22.3	28	35.6	48	57	73	84	132	145	195	230									
5				5.8	9.4	12	17.8	22.3	28	35.6	50.5	59	77	88	132	148	195	230									
6				5.8	9.4	12	17.8	22.3	28	35.6	50.5	61	78	91	132	148	195	230									
7.1				5.8	9.4	12	17.8	22.3	28	35.6	50.5	62	78	95	132	148	195	230									
8				5.8	9.4	12	17.8	22.3	28	35.6	50.5	62	78	95	132	148	195	230									
9				5.8	9.4	12	17.8	22.3	28	35.6	50.5	61	78	91	132	148	195	230									
10				5.8	9.4	12	17.8	22.3	28	35.6	50.5	62	78	95	132	148	195	230									
11.2				5.8	9.4	12	17.8	22.3	28	35.6	50.5	62	78	97.5	132	148	195	230									
12.5				5.8	9.4	12	17.8	22.3	28	35.6	50.5	62	78	97.5	132	148	195	230	280		340						
14				5	9.8	12	18.2	22.3	29.5	35.6	53	62	80	97.5	137	148	195	230	282	295	380	405					
16				6.2	10.2	12	19.1	21.5	31	39.6	56	62	83	97.5	142	154	200	230	275	308	380	422					
18				6.4	10.6	12.0	19.8	23.1	32.5	37.5	58	63	85	100	148	160	200	240	288	320	400	458					
20				6.6	11	13.2	20.5	23.9	34	39.3	60	68	88	102	153	167	200	240	300	332	420	465	560		800		
22.4				6.6	11	13.6	20.5	24.8	34	41	60	72	88	108	153	173	200	240	300	345	420	470	560	640	800	900	
25				6.8	11	14.5	20.5	25.6	34	43	60	75	88	108	153	173	200	240	300	345	420	470	560	640	800	900	
28				6.6	11	14.5	20.5	25.5	34	45	60	75	88	108	153	173	200	240	300	345	420	470	560	640	800	900	
31.5				6.6	11	14.5	20.5	25.5	34	45	60	75	88	108	153	173	200	240	300	345	420	470	560	640	800	900	
35.5				6.6	11	14.5	20.5	25.5	34	45	60	75	88	108	153	173	200	240	300	345	420	470	560	640	800	900	
40				6.6	11	14.5	20.5	25.5	34	45	60	75	88	108	153	173	200	240	300	345	420	470	560	640	800	900	
46				6.6	11	14.5	20.5	25.5	34	45	60	75	88	108	153	173	200	240	300	345	420	470	560	640	800	900	
50				6.6	11	14.5	20.5	25.5	34	45	60	75	88	108	153	173	200	240	300	345	420	470	560	640	800	900	
56				6.6	11	14.5	20.5	25.5	34	45	60	75	88	108	153	173	200	240	300	345	420	470	560	640	800	900	
63				6.6	11	14.5	20.5	25.5	34	45	60	75	88	108	153	173	200	240	300	345	420	470	560	640	800	900	
71				6.6	11	14.5	20.5	25.5	34	45	60	75	88	108	153	173	200	240	300	345	420	470	560	640	800	900	
80					11	14	20.5	25.2	34	45	60	75	88	108	153	173	200	240	300	345	420	470	560	640	800	900	
90					11	14	20.5	25.2	34	45	60	75	88	108	153	173	200	240	300	345	420	470	560	640	800	900	
100					11	14.5	20.5	25.5	34	45	60	75	88	108	153	173	200	240	300	345	420	470	560	640	800	900	
112					11	14.5	20.5	25.5	34	45	60	75	88	108	153	173	200	240	300	345	420	470	560	640	800	900	
125					11	14.5	20.5	25.5	34	45	60	75	88	108	153	173	200	240	300	345	420	470	560	640	800	900	
140					11	14.5	20.5	25.5	34	45	60	75	88	108	153	173	200	240	300	345	420	470	560	640	800	900	
160					11	14.5	20.5	25.5	34	45	60	75	88	108	153	173	200	240	300	345	420	470	560	640	800	900	
180					11	14.5	20.5	25.5	34	45	60	75	88	108	153	173	200	240	300	345	420	470	560	640	800	900	
200					11	14.5	20.5	25.5	34	45	60	75	88	108	153	173	200	240	300	345	420	470	560	640	800	900	
224					11	14.5	20.5	25.5	34	45	60	75	88	108	153	173	200	240	300	345	420	470	560	640	800	900	
250					11	14.5	20.5	25.5	34	45	60	75	88	108	153	173	200	240	300	345	420	470	560	640	800	900	
280					11	14.5	20.5	25.5	34	45	60	75	88	108	153	173	200	240	300	345	420	470	560	640	800	900	
315					11	14.5	20.5	25.5	34	45	60	75	88	108	153	173	200	240	300	345	420	470	560	640	800	900	
355						14.5		25.5		45		75		108		173		240		345		470		640		900	
400						14.5		25.5		45		75		108													

热容量表 Thermal Capacity

TLH1系列额定热容量 (kW) TLH1 Series Nominal thermal capacity (kW)

in		3			5			7			9			11		
		750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500
1.25	PGA	78	83		127			129			93					
	PGB	166	187	210	396	402	372	545	517	408	623	536				
	PGC	244	271	307	583	639	686	840	911	946	1203	1288	1276			
	PGD	316	377	472	803	934	1117	1153	1322	1537	1589	1783	1991			
1.4	PGA	78	85		134			145			127					
	PGB	164	186	212	397	409	392	550	534	447	650	578	375			
	PGC	237	264	299	572	629	680	820	892	937	1188	1277	1285			
	PGD	306	366	459	784	916	1104	1126	1298	1523	1557	1760	1992			
1.6	PGA	78	89		141			160			170			100		
	PGB	159	183	213	387	412	420	532	540	500	665	630	495	938	729	
	PGC	222	248	284	540	595	655	785	835	894	1134	1230	1276	1946	2057	1944
	PGD	289	347	438	739	870	1063	1043	1214	1452	1489	1706	1982	2579	2838	3039
1.8	PGA	88	80		145			176			192			158		
	PGB	176	205	241	375	410	435	535	561	554	662	665	575	970	821	
	PGC	240	289	309	507	581	625	744	819	894	1087	1187	1259	1895	2025	1990
	PGD	313	378	478	898	827	1019	1019	1198	1450	1425	1650	1953	2504	2802	3108
2	PGA	86	79		143	104		177			203			196		
	PGB	169	197	234	381	397	427	518	548	553	648	651	590	980	852	509
	PGC	228	256	295	479	531	593	705	778	852	1033	1130	1207	1824	1955	1947
	PGD	297	358	455	857	779	964	965	1135	1382	1354	1573	1873	2400	2700	3026
2.24	PGA	83	78		140	109		175			211			232		
	PGB	161	189	227	342	382	422	481	520	544	624	645	620	969	877	631
	PGC	215	241	278	446	496	558	636	704	779	967	1083	1151	1726	1864	1902
	PGD	280	338	431	815	733	913	870	1029	1284	1270	1485	1790	2276	2588	2964
2.5	PGA	77	73		135	108		170			210			250		
	PGB	148	175	211	322	362	406	452	484	525	593	621	614	942	844	676
	PGC	193	216	251	412	459	518	586	649	723	895	986	1075	1618	1753	1810
	PGD	252	304	388	679	679	848	802	950	1172	1172	1381	1674	2131	2437	2819
2.8	PGA	73	70		128	105		180	135		226			261		
	PGB	139	164	199	300	340	384	463	511	553	611	648	658	800	865	705
	PGC	177	199	231	376	419	475	561	655	733	901	994	1091	1495	1625	1698
	PGD	232	281	359	618	620	777	808	959	1189	1181	1390	1695	1970	2266	2647
3.15	PGA	73	73		137	127		213	189		263	217		344		
	PGB	134	161	200	286	348	415	519	601	702	844	731	828	947	1019	1055
	PGC	172	193	226	371	416	481	687	769	881	978	1091	1237	1522	1682	1858
	PGD	222	270	346	507	612	778	848	1140	1442	1294	1548	1941	1989	2349	2879
3.55	PGA	87	88		136	127		198	178		249	209		330		
	PGB	122	147	183	288	340	407	475	553	649	596	662	776	875	949	998
	PGC	155	174	204	355	398	460	615	689	791	885	988	1124	1372	1519	1685
	PGD	201	244	314	484	585	748	853	1027	1301	1174	1407	1769	1798	2129	2617
4	PGA	81	82		125	118		183	167		216	189		318	235	
	PGB	111	134	166	261	309	374	425	498	591	507	565	677	808	891	964
	PGC	137	155	181	315	353	410	539	604	696	733	820	937	1236	1372	1534
	PGD	178	217	280	430	521	665	748	902	1147	978	1175	1483	1622	1927	2387
4.5	PGA	68	70		131	129		181	183		257	238		318	257	
	PGB	118	144	180	264	316	389	424	504	611	567	667	795	765	872	994
	PGC	147	165	194	315	354	413	533	599	696	810	908	1049	1174	1310	1489
	PGD	189	230	298	429	521	669	734	889	1137	1071	1294	1646	1548	1855	2330
5	PGA	62	64		125	125		187	184		238	226		324	290	
	PGB	108	131	165	249	301	373	406	488	599	511	608	738	747	869	1020
	PGC	130	147	173	296	333	390	501	564	659	713	801	930	1110	1243	1427
	PGD	169	205	268	403	490	631	693	841	1080	945	1145	1464	1470	1770	2242
5.6	PGA	55	57		111	111		188	188		229	220		310	277	
	PGB	95	116	146	220	268	330	383	435	535	488	561	704	708	823	957
	PGC	114	128	151	256	286	337	440	494	577	663	745	866	1040	1184	1337
	PGD	147	179	232	360	425	546	609	739	849	884	1071	1370	1331	1663	2106

热容量表 Thermal Capacity

TLH1系列额定热容量 (kW) TLH1 Series Nominal thermal capacity (kW)

in		13			15			17			19		
		750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500
1.25	PGA												
	PGB												
	PGC												
	PGD												
1.4	PGA												
	PGB												
	PGC												
	PGD												
1.6	PGA												
	PGB	864	510										
	PGC	2394	2459	2060									
	PGD	3156	3313	3187									
1.8	PGA												
	PGB	981	674										
	PGC	2318	2417	2161									
	PGD	3033	3264	3328									
2	PGA	115											
	PGB	1052	757		770								
	PGC	2260	2368	2161	2047	2073	1626						
	PGD	2941	3190	3313	3037	3116	2626						
2.24	PGA	179											
	PGB	1086	851		881	523							
	PGC	2163	2290	2172	1993	2048	1719						
	PGD	2817	3104	3336	2924	3073	2963						
2.5	PGA	222											
	PGB	1087	888		971	621							
	PGC	2044	2174	2102	1947	2016	1746						
	PGD	2680	2955	3228	2818	2996	2972						
2.8	PGA	253											
	PGB	1082	902		1031	707		857	500				
	PGC	1903	2034	2202	1377	1857	1748	2147	2203	1836			
	PGD	2476	2770	3075	2689	2892	2947	3075	3223	3087			
3.15	PGA	378			248								
	PGB	1116	1128	1033	1252	1146	816	1215	1040				
	PGC	1895	2075	2221	2018	2179	2223	2352	2517	2487			
	PGD	2446	2844	3394	2790	3147	3534	3231	3624	4035			
3.55	PGA	377			280			212					
	PGB	1053	1078	1014	1221	1140	860	1249	1096	878			
	PGC	1728	1896	2042	1872	2027	2087	2223	2387	2387			
	PGD	2231	2603	3123	2575	2942	3397	3026	3412	3839			
4	PGA	372			318			277					
	PGB	976	1024	1012	1158	1124	938	1229	1132	821	1184	1032	623
	PGC	1066	1715	1870	1701	1851	1543	2047	3312	2263			
	PGD	2014	2364	2866	2336	2692	3159	2772	3158	3625			
4.5	PGA	415	304		418			395			192		
	PGB	1008	1107	1193	1235	1289	1261	1297	1307	1192	1310	1274	1069
	PGC	1807	1783	1992	1734	1906	2075	2055	2227	2382			
	PGD	2083	2474	3082	2355	2760	3338	2726	3170	3779			
5	PGA	415	340		435			508			229		
	PGB	959	1087	1277	1209	1317	1365	1450	1541	1560	1531	1566	1526
	PGC	1512	1686	1911	1643	1820	2022	2197	2424	2660			
	PGD	1963	2348	2942	2230	2642	3255	2928	3447	4202			
5.6	PGA	379	311		424			486			208		
	PGB	863	978	1104	1097	1195	1266	1333	1416	1433	1606	1666	1604
	PGC	1326	1478	1675	1451	1608	1797	1965	2157	2367			
	PGD	1726	2065	2666	1874	2338	2960	2607	3089	3741			

热容量表 Thermal Capacity

TLH2系列额定热容量 (kW) 4-12型 TLH2 Series Nominal thermal capacity (kW) Type 4-12

热功率Pa (kW) Thermal capacities Pa (kW)																
in		齿轮箱规格 Gear unit sizes (4-9)														
		4			5			6			7			8		
		m	750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500	750	1000
6.3	PGA	52.8	54.1	48.5	84.9	86.5	48.8				99	90.3	*			
	PGB	88.8	106	132	120	143	172				183	221	256			
	PGC	103.2	120	146	164	190	226				267	305	357			
	PGD	134	162	210	212	258	327				341	417	525			
7.1	PGA	54.7	55.1	51.8	87.3	89	53.9				99	89.8	*			
	PGB	91.3	109	137	122	146	177				177	214	252			
	PGC	105	121	148	164	189	226				237	287	338			
	PGD	137	166	214	212	266	327				322	394	496			
8	PGA	55.1	54.4	51.4	86.7	86.3	55.4	72.7	74.5	59.2	98	89.1	64.9	109	99	*
	PGB	87.1	104	132	119	142	175	132	157	191	172	208	249	194	235	276
	PGC	99.5	115	140	158	182	219	170	197	236	238	272	323	273	312	367
	PGD	128	165	202	203	245	316	220	265	341	307	376	479	350	428	542
9	PGA	52.1	53.4	52.4	86.3	87.9	60.5	76.2	78.1	87.8	98	89.3	73.2	110	100	77.2
	PGB	84.6	101	129	116	139	174	133	159	190	187	202	248	188	228	275
	PGC	84.3	109	135	151	174	211	170	197	238	227	269	311	258	294	352
	PGD	124	150	196	194	234	303	220	266	344	292	367	458	331	405	518
10	PGA	47.1	51.1	51.4	80.3	85.4	81.1	71.4	77.4	70.9	86	88.3	77.7	98	100	84.2
	PGB	80.2	85.7	123	110	134	165	134	156	190	189	195	241	183	222	273
	PGC	88.3	102	126	138	160	195	164	189	230	213	243	295	245	280	338
	PGD	115	139	182	180	217	282	211	255	331	275	337	436	315	386	498
11.2	PGA	45.5	49.3	50.4	58.5	63.4	81.2	70.1	76	72.2	89	90.7	83.4	97	99	88
	PGB	76.8	81.7	118	106	128	160	127	151	191	182	196	246	177	214	267
	PGC	83.9	97	120	131	151	185	158	180	221	211	241	294	231	264	321
	PGD	109	132	174	170	205	268	203	245	319	274	336	436	300	367	475
12.5	PGA	44.1	47.8	48.5	58.1	63	82.1	68.7	72.3	70.5	88	90.2	85.6	93	95.6	88.3
	PGB	73.4	87.6	113	103	123	157	119	142	181	158	181	242	169	205	258
	PGC	81.0	93.6	118	129	149	183	143	165	204	207	236	289	219	250	305
	PGD	104	128	166	166	201	263	187	226	295	267	327	425	283	346	450
14	PGA	42.0	45.5	47.6	55.3	60	80.4	64.4	69.8	69.5	82	83.8	81.7	95	97.7	93.2
	PGB	69.5	82.9	108	97.2	116	150	113	135	174	145	175	224	171	207	263
	PGC	75.7	87.5	108	119	138	171	135	156	193	185	211	259	217	248	304
	PGD	98	118	155	154	188	243	178	213	279	240	294	384	282	345	449
16	PGA	38.5	41.8	44.1	52.2	56.8	57.8	63.5	68.9	69.8	77	79	78.6	95	97	94.9
	PGB	53.4	75.7	86.9	80.5	108	140	110	131	169	135	163	210	166	201	257
	PGC	68.2	78.8	98.1	108	126	157	133	154	191	170	194	239	212	242	297
	PGD	89	107	141	142	171	225	172	208	273	220	269	352	274	336	438
18	PGA	37	40.1	42.7	50.2	54.4	56.4	60.6	65.7	67.6	74	76.1	77.3	88	89.7	89.8
	PGB	60.4	72.1	84.4	86.3	103	134	104	124	162	130	157	202	152	184	237
	PGC	64.1	74.1	92.4	103	119	148	123	142	177	162	185	229	190	217	268
	PGD	83	100	132	134	162	213	161	194	255	210	257	338	246	301	395
20	PGA	38.2	39.3	42	47.1	51.1	53.3	58.9	61.7	64	70	71.3	73.1	83	85.2	86.3
	PGB	58.8	70.2	82.1	81.1	96.8	126	96.4	115	150	120	145	188	142	172	222
	PGC	62	71.7	89.4	95.1	111	138	113	131	162	148	169	209	174	199	247
	PGA	61	87.1	128	124	150	198	148	179	235	193	236	310	225	276	363
22.4	PGA	33.6	38.4	38.9	43.8	47.5	54.4	56	61.3	67	88.7	70.7	79	81.1	82.4	
	PGB	54.4	64.9	85.2	74.9	89.4	116	83	111	144	115	139	181	136	165	213
	PGB	56.5	65.3	81.5	87.4	101	125	107	124	155	141	161	200	166	190	235
	PGA	74	88.9	117	113	137	181	140	169	223	183	224	295	215	263	348
25	PGA							61.0	65.3	67.6				74	75.8	77.2
	PGB							88.3	103	134				126	152	197
	PGB							98.7	114	142				152	174	216
	PGA							129	156	208				198	242	318
28	PGA							47.5	51.5	54.1				72	73.3	75.5
	PGB							60.3	65.6	125				121	146	190
	PGB							80	104	130				145	166	206
	PGA							118	142	187				188	230	302

说明:
PGA (kW) 齿轮箱不带辅助冷却
PGB (kW) 齿轮箱带风冷
PGC (kW) 齿轮箱带水冷
PGD (kW) 齿轮箱带风冷和水冷

* On request
PGA (kW) Gear unit without auxiliary cooling
PGB (kW) Gear units with fan
PGC (kW) Gear units with fan and cooling coil
PGD (kW) Gear units with fan and fan-cooling coil

热容量表 Thermal Capacity

TLH2系列额定热容量 (kW) 4-12型 TLH2 Series Nominal thermal capacity (kW) Type 4-12

热功率Pa(kW) Thermal capacities Pa(kW)													
in		齿轮箱规格 Gear unit sizes (4-9)											
		9			10			11			12		
		n1	750	1000	1500	750	1000	1500	750	1000	1500	750	1000
6.3	PGA	128	116	*				148	134	*			
	PGB	242	283	322				372	450	428			
	PGC	416	475	542				610	696	746			
	PGD	511	626	774				777	851	1124			
7.1	PGA	128	117	*				160	145	*			
	PGB	236	266	323				375	454	453			
	PGC	369	447	516				569	677	740			
	PGD	481	589	735				780	931	1117			
8	PGA	130	118	*	132	120	*	167	152	*	177	161	*
	PGB	230	279	322	240	290	328	371	448	469	420	509	501
	PGC	372	425	496	414	472	545	566	646	720	775	884	961
	PGD	459	562	707	505	618	772	731	895	1088	956	1170	1397
9	PGA	132	120	86.3	137	124	*	178	160	*	200	182	*
	PGB	225	272	324	234	283	333	361	437	484	430	520	553
	PGC	353	403	477	387	442	521	525	588	686	754	861	998
	PGD	438	536	682	475	582	738	680	833	1033	938	1149	1405
10	PGA	110	119	88	122	125	95.3	160	164	*	188	193	*
	PGB	216	262	320	230	278	335	350	424	489	425	516	577
	PGC	331	378	453	370	422	503	494	564	657	719	821	943
	PGD	412	505	648	454	558	710	642	786	987	903	1106	1375
11.2	PGA	113	116	99.8	124	124	103	169	173	119	190	195	*
	PGB	206	249	309	233	270	331	365	430	509	408	495	572
	PGC	309	353	427	349	398	479	491	560	662	662	756	882
	PGD	388	473	610	431	528	675	640	764	996	833	1020	1283
12.5	PGA	113	116	104	119	122	105	174	178	135	189	194	*
	PGB	202	244	305	214	269	322	351	425	512	392	475	562
	PGC	300	342	415	328	375	454	481	549	656	622	710	837
	PGD	372	455	589	407	498	644	626	768	978	784	960	1216
14	PGA	111	114	105	115	119	106	189	173	142	197	202	133
	PGB	195	236	298	204	247	310	333	403	494	399	483	583
	PGC	282	322	393	306	349	425	446	509	611	618	705	841
	PGD	353	432	562	380	465	603	581	711	914	782	958	1223
16	PGA	105	108	104	114	117	110	162	168	144	201	206	169
	PGB	183	221	281	198	240	303	311	377	469	393	476	583
	PGC	258	296	362	287	339	414	407	464	581	603	688	827
	PGD	324	397	518	367	448	584	631	680	839	781	932	1192
18	PGA	101	103	101	111	114	111	152	158	143	185	200	175
	PGB	172	208	266	191	231	296	291	352	443	372	450	560
	PGC	242	276	339	280	319	392	379	432	527	566	635	769
	PGD	303	371	486	347	425	565	497	609	790	706	864	1115
20	PGA	98	100	100	106	109	107	145	152	142	185	189	170
	PGA	165	200	257	179	217	278	280	338	429	348	419	525
	PGA	231	264	325	257	293	362	357	408	499	506	577	702
	PGA	290	355	466	320	382	512	470	575	747	642	785	1019
22.4	PGA	90	92.3	92.8	100	102	101	139	142	133	171	175	159
	PGA	153	18.5	239	168	203	261	256	314	397	322	390	489
	PGA	209	238	293	239	273	337	325	371	454	478	540	657
	PGA	261	320	420	299	368	478	428	524	682	601	736	954
25	PGA				97	99.4	96.9				166	170	156
	PGA				162	196	252				309	374	470
	PGA				230	282	323				443	506	617
	PGA				286	350	458				565	692	898
28	PGA				90	92.5	93.4				156	160	150
	PGA				150	182	235				287	347	439
	PGA				207	236	292				402	459	562
	PGA				260	318	417				515	630	819

热容量表 Thermal Capacity

TLH2系列额定热容量 (kW) 13-26型 TLH2 Series Nominal thermal capacity (kW) Type 13-26

in		13			14			15			16			17		
		750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500
6.3	PGA	239						224						154		
	PGB	583	579	442				626	563					744	625	
	PGC	1059	1201	1197				1279	1434	1267				1559	1736	1410
	PGD	1386	1553	1739				1820	1782	1824				2080	2240	2151
7.1	PGA	247						245			237			215		
	PGB	577	588	493				633	591	338	645	589		775	683	
	PGC	1022	1183	1193				1236	1392	1289	1289	1448	1305	1509	1689	1458
	PGD	1317	1510	1728				1587	1746	1851	1637	1810	1880	1998	2186	2198
8	PGA	250			272			262			259			254		
	PGB	586	591	537	635	656	580	632	613	422	652	620	390	793	733	
	PGC	973	1110	1171	1108	1263	1319	1192	1348	1306	1247	1407	1332	1486	1649	1507
	PGD	1258	1455	1700	1439	1658	1923	1504	1696	1860	1582	1772	1910	1940	2154	2261
9	PGA	252	195		281	212		273			277			286		
	PGB	550	594	600	626	672	666	621	635	541	649	655	530	796	786	584
	PGC	921	1055	1159	1089	1224	1335	1135	1292	1332	1202	1366	1386	1421	1611	1593
	PGD	1192	1395	1679	1379	1611	1927	1432	1644	1889	1519	1736	1970	1869	2120	2360
10	PGA	250	209		284	234		277	200		287	198		305		
	PGB	530	587	631	612	673	715	604	640	612	637	668	617	787	812	710
	PGC	869	999	1128	1016	1167	1309	1071	1224	1316	1141	1303	1383	1359	1548	1611
	PGD	1123	1326	1628	1316	1551	1896	1351	1571	1861	1446	1674	1964	1783	2053	2374
11.2	PGA	256	226		283	247		277	218		291	222		315	229	
	PGB	534	601	674	593	665	738	582	632	648	621	689	689	787	815	784
	PGC	856	986	1135	966	1113	1274	1001	1148	1269	1080	1237	1354	1284	1488	1582
	PGD	1110	1319	1642	1250	1482	1838	1266	1485	1796	1363	1594	1913	1683	1958	2323
12.5	PGA	247	228		278	252		281	235		289	235		332	260	
	PGB	502	572	660	571	648	742	576	637	685	597	656	691	767	833	851
	PGC	785	906	1056	807	1046	1215	981	1128	1272	1014	1184	1302	1247	1430	1578
	PGD	1015	1212	1523	1175	1401	1755	1236	1459	1790	1279	1506	1836	1632	1914	2311
14	PGA	238	225		283	266		273	240		292	252		327	274	
	PGB	475	547	647	574	659	774	546	614	686	590	659	726	735	814	875
	PGC	727	840	991	898	1037	1220	911	1049	1205	989	1138	1298	1165	1339	1511
	PGD	944	1131	1434	1163	1392	1761	1150	1365	1697	1250	1482	1832	1528	1802	2211
16	PGA	218	212	160	273	263	193	276	252		283	254		319	280	
	PGB	431	501	603	540	626	751	542	617	710	560	634	721	696	782	873
	PGC	643	744	887	819	947	1125	890	1027	1196	918	1059	1226	1081	1245	1429
	PGD	838	1007	1286	1062	1276	1626	1124	1341	1684	1159	1381	1726	1415	1680	2088
18	PGA	221	219	181	282	259	209	261	248	170	286	268		318	292	
	PGB	432	506	621	512	598	731	506	538	690	556	638	748	674	768	888
	PGC	645	747	899	761	881	1057	820	947	1119	898	1037	1218	1030	1189	1387
	PGD	837	1009	1297	987	1189	1526	1038	1244	1578	1136	1359	1718	1346	1606	2020
20	PGA	207	208	179	239	239	202	251	242	179	270	258	182	312	293	
	PGB	402	473	586	463	543	670	478	554	665	518	599	712	654	751	882
	PGC	588	681	823	673	780	941	753	871	1036	828	957	1133	987	1140	1342
	PGD	784	923	1191	875	1056	1360	951	1142	1455	1048	1257	1597	1292	1546	1956
22.4	PGA				241	241	206				259	248	179			
	PGB				463	544	673				490	566	676			
	PGC				673	780	942				759	877	1041			
	PGD				875	1057	1362				960	1153	1467			
25	PGA				225	227	195									
	PGB				430	506	627									
	PGC				615	703	862									
	PGD				799	965	1245									

热容量表 Thermal Capacity

TLH2系列额定热容量 (kW) 13-26型 TLH2 Series Nominal thermal capacity (kW) Type 13-26

in		18			19			20			21			22			23-28		
		750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500
5.3	PGA				188														
	PGB																		
	PGC																		
	PGD																		
7.1	PGA	175			250			212			228								
	PGB	770	659																
	PGC	1558	1737	1443															
	PGD	2086	2260	2209															
8	PGA	234			294			271			290			243					
	PGB	798	719																
	PGC	1509	1693	1500															
	PGD	2001	2203	2260															
9	PGA	276			330			320			344			311					
	PGB	814	789	542															
	PGC	1470	1662	1808															
	PGD	1943	2191	2400															
10	PGA	304			366			353			395			362					
	PGB	816	830	691															
	PGC	1416	1811	1849															
	PGD	1870	2143	2447															
11.2	PGA	322	223		388			387			430			409					
	PGB	806	847	787															
	PGC	1360	1553	1651															
	PGD	1786	2070	2431															
12.5	PGA	330	250		411	301		406	289		461			440					
	PGB	784	844	840															
	PGC	1283	1470	1605															
	PGD	1682	1965	2355															
14	PGA	345	281		413	328		429	333		470			472					
	PGB	783	860	908															
	PGC	1246	1431	1600															
	PGD	1632	1921	2342															
16	PGA	339	292		401	341		428	354		464	336		478					
	PGB	750	837	919															
	PGC	1168	1341	1528															
	PGD	1528	1810	2236															
18	PGA	330	299		403	362		419	368		462	367		473	352				
	PGB	709	805	919															
	PGC	1078	1243	1442															
	PGD	1417	1689	2114															
20	PGA	329	304		395	361		418	378		450	373		474	372				
	PGB	688	767	915															
	PGC	1023	1181	1382															
	PGD	1341	1602	2019															
22.4	PGA	322	300											455	362				
	PGB	667	764	893															
	PGC	981	1133	1329															
	PGD	1285	1537	1939															
25	PGA																		
	PGB																		
	PGC																		
	PGD																		

热容量表 Thermal Capacity

TLH3系列额定热容量 (kW) 5-12型 TLH3 Series Nominal thermal capacity (kW) Type 5-12

i _n	n1	热功率Pa (kW) Thermal capacities Pa (kW)											
		齿轮箱规格 Gear unit sizes (5-10)											
		5			6			7			8		
		750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500
22.4	PGA												
	PGB												
	PGC												
	PGD												
25	PGA	48.0	49.4	52.5				68.5	73.5	76.1			
	PGB	62.1	73.4	82.4				90.9	110	134			
	PGC	91.1	105	130				147	169	209			
	PGD	103	125	163				164	201	261			
28	PGA	44.3	48	50.9				69.2	74.2	77.5			
	PGB	59.8	70.7	89.4				92.5	112	140			
	PGC	86.5	96.7	123				145	167	207			
	PGD	97.7	118	155				163	200	261			
31.5	PGA	43.1	46.7	49.9	49.8	54	57.4	86.6	71.4	75.3	73.8	79.1	82.8
	PGB	57.9	68.5	86.9	66.5	76.6	99.6	88.4	107	136	97.5	118	148
	PGC	83.0	95.6	118	94.6	109	135	137	158	196	150	173	214
	PGD	94.3	114	149	108	130	170	155	190	248	166	206	268
35.5	PGA	41.7	45.2	48.6	47.9	51.9	55.7	84.7	69.4	73.9	74.3	79.7	84.4
	PGB	56.0	66.2	84.3	63.9	75.6	96.2	85.9	104	132	88.3	119	150
	PGC	79.2	91.3	113	89.4	103	127	131	151	188	148	171	211
	PGD	90.2	109	143	102	123	161	149	183	239	167	205	268
40	PGA	39.4	42.7	46.1	46.5	50.4	54.3	81.8	66	70.8	71.4	76.6	81.4
	PGB	52.7	62.3	79.5	62.0	73.3	93.4	81.7	98.9	125	98.1	113	144
	PGC	73.6	84.3	105	85.8	98.8	122	122	141	175	140	161	200
	PGD	83.6	101	133	96.8	117	154	139	170	223	158	194	254
45	PGA	37.6	40.8	44.2	44.9	48.7	52.5	79.3	63.6	68.2	69.3	74.3	79.2
	PGB	50.4	59.6	76.1	68.8	70.7	90.2	78.5	95	120	90.9	110	140
	PGC	69.5	80.1	98.7	81.9	94.4	117	116	134	167	135	155	192
	PGD	79.4	96	126	83.5	113	148	132	162	212	152	186	243
50	PGA	36.5	39.6	43.2	42.6	46.1	50.1	76.0	60.1	65.2	66.1	70.9	76.6
	PGB	49.6	57.5	73.8	66.4	66.7	85.5	74.0	89.6	114	85.9	104	133
	PGC	67.1	77.3	99.4	76.1	87.7	109	109	126	157	126	146	181
	PGD	76.6	82.8	122	86.9	105	138	124	152	200	142	174	228
56	PGA	34.7	37.6	41.2	40.9	44.3	48.5	73.6	57.5	62.7	63.8	68.4	74.4
	PGB	46.1	54.5	70.1	64.0	63.9	82.2	70.4	85.2	109	82.6	100	129
	PGC	63.0	72.6	90.8	72.0	83	103	102	118	148	120	138	172
	PGD	71.8	86.7	114	82.5	99.7	131	117	143	188	130	166	218
63	PGA	32.7	35.5	39.1	39.4	42.7	47	70.1	53.7	59	60.3	64.7	71
	PGB	43.3	51.2	66.1	61.9	61.4	79.2	65.6	79.4	102	78.6	95.1	122
	PGC	58.4	67.3	84.1	69.5	80.1	100	94.6	109	136	112	129	161
	PGD	66.7	80.6	106	79.6	96.2	126	106	130	172	127	156	205
71	PGA	32.4	35.1	38.7	37.4	40.5	44.6	68.6	52.1	57.3	57.4	61.6	67.7
	PGB	42.8	50.6	65.3	61.1	60.1	75	83.4	76.7	98.9	74.7	90.4	118
	PGC	57.7	66.6	83.1	68.2	75.1	93.8	90.3	104	130	104	120	151
	PGD	65.0	79.7	106	74.4	89.9	118	103	126	166	118	145	192
80	PGA	30.7	33.3	36.8	35.2	38.2	42.1	67.5	50.9	56	53.7	57.6	63.3
	PGB	40.5	47.9	61.9	56.1	54.5	70.9	61.9	74.9	96.6	69.5	84.1	108
	PGC	53.6	61.6	77.3	60.5	69.7	87.2	68.8	100	125	96.3	111	139
	PGD	61.4	74.2	97.9	69.2	83.6	110	98.8	121	160	109	134	177
90	PGA	30.3	32.9	36.3	34.9	37.8	41.6	66.4	49.1	53.1	51.9	55.7	61.4
	PGB	40.0	47.3	61.1	55.7	54.1	69.8	58.4	70.7	91.3	67.0	81.1	104
	PGC	52.2	60.1	75.1	60.0	68.1	86.4	80.8	93.1	116	92.9	107	133
	PGD	59.8	72.3	95.5	68.5	82.8	109	91.5	112	148	105	129	171
100	PGA				33.1	35.9	39.7				50.9	54.6	60.4
	PGB				43.3	51.2	66.2				65.7	79.5	102
	PGC				55.7	64.2	80.3				89.4	103	129
	PGD				63.9	77.2	101				102	111	145
112	PGA				32.7	35.5	39.3				48.2	51.7	57.2
	PGB				42.9	50.7	65.6				62.1	75.2	97.3
	PGC				54.2	62.5	78.3				83.1	95.8	119
	PGD				62.2	75.2	99.4				94.7	116	153

备注: PGA (kW) 齿轮箱不带冷却和润滑
PGB (kW) 齿轮箱带冷却和润滑
PGC (kW) 齿轮箱带冷却和润滑
PGD (kW) 齿轮箱带冷却和润滑

* On request
PGA (kW) Gear units without auxiliary cooling
PGB (kW) Gear units with fan
PGC (kW) Gear units with built-in cooling coil
PGD (kW) Gear units with fan and built-in cooling coil

热容量表 Thermal Capacity

TLH3系列额定热容量 (kW) 5-12型 TLH3 Series Nominal thermal capacity (kW) Type 5-12

热功率Pa (kW) Thermal capacities Pa (kW)													
i _n		齿轮箱规格 Gear unit sizes (5-10)											
		9			10			11			12		
		n1	750	1000	1500	750	1000	1500	750	1000	1500	750	1000
22.4	PGA												
	PGB												
	PGC												
	PGD												
25	PGA	92.6	99.3	100				135	145	138			
	PGB	126	152	187				190	230	275			
	PGC	214	247	302				384	419	507			
	PGD	239	293	378				402	492	626			
28	PGA	92.3	99	101				132	142	137			
	PGB	124	150	186				183	222	268			
	PGC	207	239	294				340	392	477			
	PGD	232	284	368				379	464	593			
31.5	PGA	90.4	96.9	100	93.3	100	102	129	138	137	153	164	159
	PGB	121	145	183	125	151	188	178	215	263	211	255	308
	PGC	200	230	283	246	286	352	325	374	457	374	431	523
	PGD	223	273	355	272	333	432	362	443	570	416	508	650
35.5	PGA	87.6	93.9	98.7	93.1	99.8	104	125	134	135	148	159	158
	PGB	117	142	178	123	149	185	172	208	257	203	246	300
	PGC	190	219	271	241	278	343	307	354	434	350	403	492
	PGD	214	262	342	264.6	324	421	345	422	544	392	480	617
40	PGA	82.8	88.9	93.8	90	96.5	101	120	129	132	145	156	156
	PGB	111	134	170	120	145	182	164	199	248	197	238	293
	PGC	177	204	252	230	266	327	299	333	410	333	384	470
	PGD	199	244	319	253	310	404	324	397	514	373	457	589
45	PGA	79.8	85.6	90.8	87.7	94	99.1	119	128	132	139	149	151
	PGB	106	128	162	116	141	177	184	199	247	189	228	283
	PGC	168	193	239	220	254	314	283	326	401	316	364	447
	PGD	189	232	303	243	298	388	318	388	505	354	434	561
50	PGA	76.5	84.2	90.6	83.4	89.4	95.9	118	127	134	135	145	151
	PGB	104	126	160	110	133	169	161	195	246	183	222	276
	PGC	164	189	235	206	236	293	277	319	395	299	344	425
	PGD	184	225	295	226	277	362	311	381	497	335	411	534
56	PGA	75.0	80.4	87.3	80.4	86.2	93.4	110	118	127	135	145	154
	PGB	98.1	120	153	106	126	164	150	181	230	183	221	280
	PGC	153	176	219	194	223	278	251	289	369	292	337	417
	PGD	173	212	278	214	262	344	282	345	452	329	403	527
63	PGA	71.1	76.2	83.5	78.9	84.8	92.5	106	113	122	133	143	154
	PGB	92.5	112	145	102	124	160	141	171	219	178	216	276
	PGC	141	163	204	189	216	272	233	268	334	286	330	411
	PGD	161	197	259	210	257	338	282	321	421	323	395	518
71	PGA	69.6	74.5	81.8	75.1	80.5	88.2	103	110	120	124	133	144
	PGB	90.9	110	142	98.3	119	158	137	166	213	165	200	258
	PGA	139	160	200	177	204	255	224	268	322	259	298	371
	PGB	156	191	252	195	239	315	252	309	407	292	357	469
80	PGA	65.8	70.8	77.8	71.0	76.1	83.5	97	104	113	117	125	136
	PGB	85.9	104	134	91.7	111	143	129	156	201	155	188	241
	PGA	128	148	185	164	189	236	207	238	297	240	277	345
	PGB	146	179	238	181	222	293	234	288	377	271	332	437
90	PGA	82.8	87.1	93.8	89.3	94.3	101.8	93	100	110	115	123	134
	PGB	81.6	98.8	127	89.2	108	140	126	151	194	151	183	235
	PGA	120	138	172	161	185	231	198	228	285	232	267	333
	PGB	136	166	219	177	217	288	225	275	362	262	321	422
100	PGA				85.9	90.7	98				108	116	128
	PGB				85.1	103	133				143	173	223
	PGA				149	172	215				214	247	308
	PGB				165	202	260				243	297	392
112	PGA				82.7	87.2	94.3				104	112	124
	PGB				81.2	96.3	127				139	168	216
	PGA				138	159	199				206	237	296
	PGB				154	188	248				234	286	377

热容量表 Thermal Capacity

TLH3系列额定热容量 (kW) 13-26型 TLH3 Series Nominal thermal capacity (kW) Type 13-26

in		13			14			15			18			17		
		750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500
22.4	PGA	194	196	189				266	258	193				285	270	180
	PGB	289	303	346				394	432	463				407	440	450
	PGC	478	561	668				768	903	1050				768	903	1035
	PGD	551	650	811				894	1043	1267				887	1029	1228
25	PGA	189	191	167				259	253	192	274	265	193	277	263	180
	PGB	261	294	338				381	420	453	405	443	470	394	427	442
	PGC	454	533	636				724	850	992	777	913	1059	724	851	979
	PGD	523	617	771				844	986	1201	905	1055	1277	837	972	1164
28	PGA	182	186	169	209	214	191	256	254	206	268	264	207	273	265	198
	PGB	252	286	334	290	327	380	375	417	463	393	434	475	397	425	455
	PGC	426	500	600	499	586	701	698	820	966	732	860	1008	697	819	953
	PGD	492	583	734	575	680	854	815	957	1179	853	990	1224	808	942	1145
31.5	PGA	177	184	173	203	211	196	250	252	217	264	265	222	265	263	212
	PGB	245	279	332	280	319	377	386	411	468	387	432	487	376	418	463
	PGC	409	480	580	473	556	670	666	783	930	705	829	981	668	785	924
	PGD	471	560	710	545	647	819	778	917	1143	824	969	1202	772	906	1115
35.5	PGA	171	180	175	196	206	198	238	244	222	258	264	235	252	256	221
	PGB	236	271	328	271	311	374	348	395	461	376	425	493	357	401	458
	PGC	439	456	555	445	523	634	617	725	870	674	792	945	617	725	863
	PGD	490	534	683	514	612	781	721	854	1075	790	934	1171	715	844	1052
40	PGA	186	174	172	191	201	197	229	237	221	245	253	232	242	247	221
	PGB	226	261	318	262	302	366	333	380	449	357	406	476	342	387	449
	PGC	367	431	525	425	499	608	582	683	823	624	734	882	583	685	820
	PGD	424	506	649	491	586	750	661	809	1024	732	867	1094	676	799	1003
45	PGA	158	167	166	183	194	192	228	237	223	237	245	227	240	246	224
	PGB	217	250	306	253	291	355	331	378	450	342	390	460	338	383	448
	PGC	345	405	495	404	476	579	570	669	809	639	750	895	571	670	804
	PGD	398	475	611	467	557	714	607	793	1008	689	817	1034	660	782	985
50	PGA	155	166	171	177	190	195	227	241	240	235	249	246	236	248	242
	PGB	211	245	306	243	283	352	327	378	462	341	393	479	332	381	462
	PGC	336	394	485	381	448	551	583	662	809	577	678	827	558	655	797
	PGD	388	465	603	442	529	686	657	785	1009	675	805	1033	647	771	987
56	PGA	149	161	170	169	183	192	218	232	239	234	250	256	225	240	243
	PGB	204	238	300	232	271	341	310	361	449	336	390	484	316	367	453
	PGC	318	373	461	359	421	521	525	617	759	570	669	822	522	614	752
	PGD	387	441	574	415	490	650	613	735	952	655	795	1029	604	723	934
63	PGA	141	154	166	165	180	194	204	222	235	223	242	255	212	230	241
	PGB	192	226	288	226	260	338	303	343	434	320	375	473	298	349	439
	PGC	296	347	432	349	410	510	485	570	706	530	622	770	462	567	700
	PGD	341	411	538	404	486	637	580	681	889	620	746	973	580	672	876
71	PGA	137	150	162	160	174	166	188	216	230	210	229	243	204	221	234
	PGB	186	219	279	217	255	325	284	333	422	301	353	447	286	334	422
	PGC	282	331	412	331	389	484	467	548	680	491	577	715	461	542	671
	PGD	328	393	515	383	461	605	544	655	857	574	690	902	536	644	841
80	PGA	133	145	158	151	165	176	191	208	223	204	222	237	196	213	227
	PGB	181	213	272	205	241	308	272	320	406	291	342	434	274	321	406
	PGC	272	319	398	308	361	449	440	517	642	472	555	688	436	512	635
	PGD	314	378	496	356	429	546	515	620	812	551	663	888	505	608	795
90	PGA	124	136	148	146	160	173	180	196	211	197	215	231	185	201	215
	PGB	169	199	255	198	233	298	256	301	383	280	328	418	258	302	364
	PGC	249	293	365	294	345	430	408	479	595	446	524	651	403	474	588
	PGD	289	348	458	339	409	537	476	573	752	522	628	823	468	564	738
100	PGA				142	156	171				185	203	221			
	PGB				193	227	293				263	310	397			
	PGC				283	332	415				412	464	604			
	PGD				327	394	520				461	581	764			
112	PGA				133	146	161									
	PGB				180	213	274									
	PGC				260	308	382									
	PGD				301	364	479									

热容量表 Thermal Capacity

TLH3系列额定热容量 (kW) 13-26型 TLH3 Series Nominal thermal capacity (kW) Type 13-26

in		18			19			20			21			22			23	24	25	26
		750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500	750
22.4	PGA				353	325		406	369		419.1	350								
	PGB																			
	PGC																			
	PGD																			
25	PGA	295	276		349	323		364	333		430	363		427	343					
	PGB	419	451	455																
	PGC	771	906	1035																
	PGD	893	1033	1227																
28	PGA	286	274	196	343	326	222	359	338		433	380		439	370					
	PGB	404	441	464																
	PGC	727	854	988																
	PGD	843	981	1182																
31.5	PGA	261	276	216	336	327	246	353	341	249	431	394		440	389					
	PGB	398	440	480																
	PGC	703	826	967																
	PGD	813	952	1185																
35.5	PGA	273	274	232	326	325	268	346	342	276	426	404	273	438	404					
	PGB	387	433	489																
	PGC	672	789	935																
	PGD	778	916	1137																
40	PGA	260	264	231	314	317	272	335	336	283	416	401	293	432	407	269				
	PGB	366	412	474																
	PGC	622	730	871																
	PGD	722	853	1056																
45	PGA	248	254	227	311	316	276	323	326	280	403	393	297	421	402	278				
	PGB	351	397	460																
	PGC	566	689	823																
	PGD	680	804	1009																
50	PGA	247	259	250	306	320	304	319	332	313	403	410	360	409	410	344				
	PGB	346	399	480																
	PGC	572	671	815																
	PGD	666	793	1012																
55	PGA	243	258	260	293	311	310	314	332	329	385	401	379	408	421	387				
	PGB	341	394	485																
	PGC	562	660	808																
	PGD	650	777	1001																
63	PGA	231	250	262	273	295	307	300	324	336	369	393	397	390	413	411				
	PGB	323	378	474																
	PGC	524	616	760																
	PGD	606	730	950																
71	PGA	218	237	249	269	292	306	280	303	316	349	373	381	373	397	400				
	PGB	305	357	450																
	PGC	486	571	706																
	PGD	562	676	881																
80	PGA	210	228	241	255	277	292	278	299	315	332	358	369	352	377	384				
	PGB	293	343	433																
	PGC	465	546	676																
	PGD	539	648	846																

热容量表 Thermal Capacity

TLH4系列额定热容量 (kW) 7-12型 TLH4 Series Nominal thermal capacity (kW) Type 7-12

in	热功率P ₀ (kW) Thermal capacities P ₀ (kW)								
	齿轮箱规格 Gear unit sizes (5-10)								
	7			8			9		
	750	1000	1500	750	1000	1500	750	1000	1500
100	41	43.6	48.7				56.8	60.8	67.8
112	39	42	47.1				54.4	58.2	65.1
125	38	40.8	45.8	43.7	46.8	52.5	52.7	56.4	63.1
140	36	38.7	43.6	41.9	44.9	50.5	51	54.6	61.3
160	35	37.2	41.9	40.7	43.6	49.1	48.2	51.6	58
180	33	35.8	40.4	38.7	41.4	46.7	46.1	49.4	55.8
200	32	34.4	38.91	37.3	39.8	45.1	44.6	47.8	54
224	30	32.4	36.7	35.7	38.2	43.2	42.9	45.9	52
250	29	31	35.1	34.6	37	41.9	40.9	43.8	49.6
280	28	30.1	34.0	32.4	34.7	39.3	39.7	42.5	48.2
315	28	29.4	33.3	31.1	33.3	37.6	37.8	40.5	45.9
355	26	28.1	31.8	30.2	32.3	36.5	37.2	39.8	45.1
400				29.5	31.6	35.8			
450				28.1	30.1	34			

本表均为PGA(kW)齿轮箱不带辅助冷却措施。

热容量表 Thermal Capacity

TLH4系列额定热容量 (kW) 7-12型 TLH4 Series Nominal thermal capacity (kW) Type 7-12

in	热功率P ₀ (kW) Thermal capacities P ₀ (kW)								
	齿轮箱规格 Gear unit sizes (5-10)								
	10			11			12		
	750	1000	1500	750	1000	1500	750	1000	1500
100				84.2	90.1	99.1	93	99.7	110
112				83.5	89.4	99.1	92	98.9	110
125	57.1	61.1	68.3	80.1	85.8	95.5	89	95.3	106
140	54.8	58.5	65.6	77.5	83	92.8	86	91.8	103
160	53	56.7	63.7	73.8	79	88.5	82	87.6	98.9
180	51.3	54.9	61.9	71.2	76.2	85.8	79	84.4	95.5
200	48.4	51.8	58.5	67.3	72	81.3	74	79.7	90.2
224	46.3	49.6	56.2	64.5	69	78	72	76.7	86.8
250	45	48.2	54.5	61.3	65.6	74.2	68	72.7	82.2
280	43.2	46.2	52.3	58.9	63	71.4	65	69.9	79.2
315	41.2	44.1	49.9	57.5	61.6	69.7	64	68.3	77.3
355	40	42.8	48.5	54.7	58.6	66.3	61	64.9	73.5
400	38.1	40.8	46.2						
450	37.5	40.1	45.4						

本表均为PGA(kW)齿轮箱不带辅助冷却措施。

热容量表 Thermal Capacity

TLH4系列额定热容量 (kW) 13-26型 TLH4 Series Nominal thermal capacity (kW) Type13-26

in		13			14			15			16			17		
		750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500
80	PGA															
	PGB															
	PGC															
	PGD															
90	PGA															
	PGB															
	PGC															
	PGD															
100	PGA	110	120	130				149	161	172				167	180	190
	PGB															
	PGC															
	PGD															
112	PGA	108	117	129				142	154	167	153	166	179	159	173	186
	PGB															
	PGC															
	PGD															
125	PGA	105	114	126	118	128	142	137	149	163	147	160	174	154	167	181
140	PGA	101	110	123	115	125	130	132	144	158	141	153	169	148	161	176
160	PGA	95.5	104	116	111	121	135	127	138	153	136	148	164	142	154	171
180	PGA	92.1	100	113	108	118	132	125	136	152	130	142	159	139	151	169
200	PGA	89.8	98.2	110	102	111	126	121	132	149	128	139	157	134	146	164
224	PGA	85.5	93.7	106	97.9	107	121	113	123	140	125	136	154	125	136	154
250	PGA	81.3	89.1	100	95.5	104	118	107	117	132	115	126	143	119	130	147
280	PGA	78.8	86.3	97.7	90.5	99.1	112	104	113	128	110	120	135	115	126	143
315	PGA	75.5	82.8	93.7	87.2	95.5	108	98.8	108	122	106	116	131	110	121	136
355	PGA	72	78.9	89.4	83.8	91.9	104	97.1	106	120	102	111	126	108	118	133
400	PGA				80.6	88.3	100				99.6	109	123			
450	PGA				76.9	84.2	95.3									

热容量表 Thermal Capacity

TLH4系列额定热容量 (kW) 13-26型 TLH4 Series Nominal thermal capacity (kW) Type13-26

in		18			19			20			21			22			23	24	25	26
		750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500	750
80	PGA				255	277	292				332	358	389							
	PGB																			
	PGC																			
	PGD																			
90	PGA	201	219	233	242	263	280	261	283	300	323	349	363	336	361	372				
	PGB	280	329	417																
	PGC	440	516	640																
	PGD	510	614	803																
100	PGA	189	208	226	234	253	264	248	272	294	322	346	348	326	356	379	423		507	
	PGB	263	310	397																
	PGC	407	478	595																
	PGD	472	569	748																
112	PGA	171	185	198	224	243	259	240	260	276	315	340	325	350	358	413	430	495	515	
	PGB																			
	PGC																			
	PGD																			
125	PGA	164	177	192	217	235	254	229	249	268	305	330	348	318	344	359	405	422	485	504
140	PGA	158	171	188	208	227	248	222	241	263	288	313	336	308	334	356	394	410	471	491
160	PGA	152	165	182	200	218	240	213	232	255	276	301	327	291	317	342	378	393	452	470
180	PGA	145	158	177	191	208	232	205	224	249	272	294	329	279	304	335	364	379	436	453
200	PGA	143	156	175	184	201	226	196	214	240	257	280	314	275	300	335	359	373	428	446
224	PGA	138	151	170	177	193	219	188	206	233	245	268	303	259	283	321	355	369	425	442
250	PGA	129	141	159	168	183	208	181	198	224	232	253	287	247	270	305	340	353	406	423
280	PGA	122	133	151	161	176	199	172	188	213	222	243	278	233	255	289	322	335	388	403
315	PGA	119	130	147	158	172	195	165	181	204	213	233	264	224	245	278	310	323	371	386
355	PGA	114	124	141	150	164	186	162	177	200	203	222	252	216	236	267	301	314	361	375
400	PGA	111	121	138				154	168	190				206	225	255		298		356
450	PGA																			

热容量表 Thermal Capacity

TLB2系列额定热容量 (kW) 4-12型 TLB2 Series Nominal thermal capacity (kW) Type 4-12

热功率 P_{th} (kW) Thermal capacities P_{th} (kW)																
in	n1	齿轮箱规格 Gear unit sizes (4-9)														
		4			5			6			7			8		
		750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500
5	PGA	47.1	48.3	35.3	57.2	58.6	*				85.3	77.4	*			
	PGB	94.7	113	139	130	155	184				203	246	283			
	PGC	119	137	159	178	206	238				280	319	368			
	PGD	191	194	249	241	291	368				382	468	581			
5.6	PGA	46.6	47.7	38.6	58.4	59.8	*				86.2	78.3	*			
	PGB	91.3	109	135	128	153	185				192	232	274			
	PGC	114	132	154	172	199	231				257	293	340			
	PGD	185	187	241	233	282	359				353	432	543			
6.3	PGA	45.9	47	40	57.3	58.7	*	86.7	88.3	*	83.5	75.8	*	99.0	89.9	*
	PGB	88.0	105	132	121	145	178	142	170	206	178	216	259	216	261	308
	PGC	109	128	147	160	185	215	228	264	306	233	266	308	340	388	449
	PGD	148	179	231	218	263	336	297	359	456	321	393	497	448	548	690
7.1	PGA	43.9	45	40.6	55.8	57.2	44	87.3	89	50.6	81.8	74.3	*	97.9	88.9	*
	PGB	82.9	99	125	115	137	169	139	166	204	168	203	248	203	246	298
	PGC	100	116	135	148	171	199	222	257	298	214	244	284	313	357	414
	PGD	136	164	213	201	243	313	289	349	447	296	362	462	413	508	642
8	PGA	41.8	42.8	39.9	53.5	54.8	45.1	85.6	87.2	53.4	79.4	72.1	53	94.8	86.1	*
	PGB	77.8	92.9	117	107	128	160	132	157	195	159	192	236	189	229	280
	PGC	93	107	124	136	157	182	205	237	276	198	226	263	283	323	375
	PGD	126	152	198	186	225	290	268	324	417	274	336	430	375	459	586
9	PGA	40.0	41	39.3	51.4	52.7	45.7	82.9	84.5	54.4	77.3	70.2	65.8	91.1	82.7	61.6
	PGB	73	87.8	111	101	121	153	124	148	186	150	182	226	178	215	266
	PGC	86	98.8	115	125	144	168	189	218	253	186	212	246	260	297	346
	PGD	117	141	183	170	206	267	247	299	386	258	316	407	346	424	543
10	PGA	31.9	34.6	33.7	45.5	46.3	44	56.3	61.1	53.3	64.8	66.4	55.1	77.3	79.2	62.3
	PGB	61.0	72.8	92.8	93	111	140	116	138	174	140	169	211	167	202	251
	PGC	68	78.9	91.9	112	129	150	173	200	233	168	192	224	240	274	318
	PGD	93	112	147	153	185	240	228	276	356	235	288	372	320	392	505
11.2	PGA	30.9	33.5	33	40.9	44.4	40.4	53.9	58.4	52.1	58.4	59.8	51	74.3	76.1	61.9
	PGB	58.9	70.3	89.8	83	99.5	126	110	131	165	124	150	188	158	192	240
	PGC	65	76.4	87.9	98	113	131	158	183	213	147	168	195	225	257	298
	PGD	89	107	140	134	162	210	209	252	327	206	252	326	301	368	474
12.5	PGA							50.3	54.5	50.1				70.5	72.2	61.7
	PGB							100	119	151				148	178	224
	PGC							141	163	189				205	234	272
	PGD							186	225	292				275	337	435
14	PGA							45.2	49	46				63.6	65.2	57.4
	PGB							89	106	135				131	159	200
	PGC							123	142	166				180	205	238
	PGD							162	196	255				239	293	380

说明: 1. 热容量表
PGA (kW) 齿轮箱不带辅助冷却
PGB (kW) 齿轮箱带辅助冷却
PGC (kW) 齿轮箱带内置冷却盘
PGD (kW) 齿轮箱带内置冷却盘和内置冷却盘

* On request
PGA (kW) Gear units without auxiliary cooling
PGB (kW) Gear units with fan
PGC (kW) Gear units with built-in cooling coil
PGD (kW) Gear units with fan and built-in cooling coil

热容量表 Thermal Capacity

TLB2系列额定热容量 (kW) 4-12型 TLB2 Series Nominal thermal capacity (kW) Type 4-12

热功率 P_{th} (kW) Thermal capacities P_{th} (kW)																
in	n1	齿轮箱规格 Gear unit sizes (4-9)														
		9			10			11			12					
		750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500			
5	PGA	95.9	87.1	*				*	*	*						
	PGB	245	297	328				402	487	478						
	PGC	349	398	459				593	677	774						
	PGD	472	578	705				904	984	1144						
5.6	PGA	99.4	90.2	*				132	120	*						
	PGB	233	282	322				397	481	504						
	PGC	322	367	424				583	643	738						
	PGD	437	535	682				770	943	1128						
6.3	PGA	98.5	89.4	*	108	98.3	*	134	122	*	156	142	*			
	PGB	219	265	310	248	300	345	364	441	479	459	556	581			
	PGC	292	333	385	403	460	531	498	566	651	855	976	1120			
	PGD	399	489	612	525	643	799	681	834	1010	1094	1340	1596			
7.1	PGA	98.1	89.1	*	109	99.3	*	145	132	*	174	158	*			
	PGB	207	250	299	235	284	336	360	436	493	451	546	601			
	PGC	268	306	354	370	422	488	478	545	629	816	931	1072			
	PGD	368	451	570	485	594	747	660	808	996	1044	1278	1556			
8	PGA	96.3	87.4	*	108	97.7	*	142	129	*	171	155	*			
	PGB	196	237	287	221	267	321	330	400	463	411	498	564			
	PGC	248	283	328	336	383	444	422	482	557	716	817	942			
	PGD	342	419	533	442	541	686	587	719	896	922	1129	1382			
9	PGA	94.5	85.8	59.6	105	95.3	*	142	129	*	178	162	*			
	PGB	187	226	277	207	251	306	316	383	452	405	490	568			
	PGC	234	267	310	308	352	409	398	454	526	693	791	916			
	PGD	323	398	507	408	500	637	556	679	853	883	1084	1363			
10	PGA	80.0	81.9	60.8	89.5	91.7	63.9	122	125	*	149	153	*			
	PGB	175	212	261	196	237	291	297	359	429	368	447	525			
	PGC	214	244	284	285	325	377	366	417	483	613	700	810			
	PGD	298	363	465	377	462	591	511	626	791	794	972	1218			
11.2	PGA	72.7	74.5	57.7	86.9	89	65.2	111	114	*	146	150	*			
	PGB	154	187	232	187	226	279	263	318	382	352	426	506			
	PGC	186	212	246	269	307	356	316	361	418	577	659	784			
	PGD	258	316	406	358	438	561	443	543	688	750	918	1158			
12.5	PGA				83.1	85.1	68.9				142	145	*			
	PGB				175	212	264				330	400	481			
	PGC				245	280	326				529	604	701			
	PGD				327	401	515				690	845	1070			
14	PGA				75.2	77	63.1				128	131	*			
	PGB				156	189	236				282	353	428			
	PGC				213	243	283				457	522	605			
	PGD				284	348	449				599	733	931			

热容量表 Thermal Capacity

TLB2系列额定热容量 (kW) 13-26型 TLB2 Series Nominal thermal capacity (kW) Type 13-26

In		13			14			15			16			17		
		750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500
5	PGA	194						210								
	PGB	636	684	574				765	788	486						
	PGC	1188	1344	1524				1807	1821	2040						
	PGD	1599	1838	2019				2115	1383	2386						
5.6	PGA	205						232						211		
	PGB	627	688	646				757	804	618				828	859	565
	PGC	1138	1289	1470				1556	1763	1992				1814	2055	2307
	PGD	1542	1789	2044				2042	2333	2489				2379	2689	2739
6.3	PGA	198			237			238			252			234		
	PGB	573	637	633	897	771	753	722	779	664	782	838	684	803	850	646
	PGC	999	1132	1295	1246	1411	1613	1436	1627	1847	1573	1782	2019	1685	1909	2155
	PGD	1350	1574	1839	1678	1954	2267	1884	2168	2383	2063	2366	2574	2217	2530	2689
7.1	PGA	204	151		244	176		242			258			249		
	PGB	565	637	676	884	786	804	686	756	720	744	815	754	772	838	740
	PGC	986	1097	1281	1193	1352	1552	1331	1508	1722	1452	1645	1875	1577	1787	2031
	PGD	1312	1541	1848	1616	1895	2261	1745	2028	2331	1902	2204	2505	2067	2386	2666
8	PGA	195	154		234	181		234			257			249		
	PGB	517	588	648	622	705	768	633	705	713	707	784	775	720	793	756
	PGC	863	978	1126	1046	1185	1364	1197	1356	1553	1351	1531	1751	1431	1621	1851
	PGD	1166	1375	1674	1412	1663	2016	1566	1830	2152	1766	2059	2400	1871	2174	2499
9	PGA	191	159		236	193		231	169		248	176		249		
	PGB	494	565	640	613	699	785	608	684	724	651	730	759	694	774	782
	PGC	807	914	1055	1017	1152	1329	1132	1283	1474	1208	1368	1570	1361	1542	1766
	PGD	1096	1296	1598	1375	1652	1996	1483	1741	2085	1582	1853	2204	1779	2078	2444
10	PGA	184	157		222	188		223	172		243	182		245	175	
	PGB	486	535	616	580	642	734	567	643	698	524	704	753	657	737	770
	PGC	747	846	978	899	1018	1176	1033	1170	1347	1144	1296	1490	1263	1431	1642
	PGD	1012	1200	1490	1219	1444	1787	1355	1596	1933	1497	1760	2118	1650	1935	2304
11.2	PGA	166	145		214	185		204	162		234	181		227	169	
	PGB	414	476	555	533	613	709	511	581	641	584	662	721	593	669	714
	PGC	648	734	849	841	952	1101	909	1030	1186	1043	1182	1360	1119	1267	1457
	PGD	882	1046	1306	1144	1356	1688	1197	1411	1722	1372	1616	1960	1464	1720	2068
12.5	PGA	188	172					263	221					296	235	
	PGB	364	419	468				512	583	602				657	742	728
	PGC	613	714	831				959	1117	1261				1150	1339	1484
	PGD	771	923	1126				1185	1410	1652				1473	1745	1991
14	PGA	190	177	127				254	220							
	PGB	367	424	482				492	562	598						
	PGC	618	719	843				916	1066	1217						
	PGD	777	932	1147				1131	1349	1603						

热容量表 Thermal Capacity

TLB2系列额定热容量 (kW) 13-26型 TLB2 Series Nominal thermal capacity (kW) Type 13-26

In		18			19			20			21			22			23-26		
		750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500
5	PGA																		
	PGB																		
	PGC																		
	PGD																		
5.6	PGA																		
	PGB																		
	PGC																		
	PGD																		
6.3	PGA																		
	PGB																		
	PGC																		
	PGD																		
7.1	PGA	263																	
	PGB	832	897	760															
	PGC	1694	1919	2177															
	PGD	2220	2558	2817															
8	PGA	272																	
	PGB	799	874	808															
	PGC	1582	1793	2043															
	PGD	2073	2402	2729															
9	PGA	269																	
	PGB	742	823	812															
	PGC	1434	1624	1858															
	PGD	1877	2188	2549															
10	PGA	266																	
	PGB	715	799	818															
	PGC	1364	1546	1772															
	PGD	1782	2085	2464															
11.2	PGA	260	187																
	PGB	677	760	797															
	PGC	1270	1439	1652															
	PGD	1654	1940	2315															
12.5	PGA	242	186																
	PGB	611	691	749															
	PGC	1126	1276	1468															
	PGD	1470	1730	2093															
14	PGA	323	259																
	PGB	705	789	792															
	PGC	1211	1410	1569															
	PGD	1550	1838	2110															

热容量表 Thermal Capacity

TLB3系列额定热容量 (kW) 4-12型 TLB3 Series Nominal thermal capacity (kW) Type 4-12

热功率 P_H (kW) Thermal capacities P_H (kW)																
i _H	n1	齿轮箱规格 Gear unit sizes (4-9)														
		4			5			6			7			8		
		750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500
12.5	PGA	36.1	36.1	38.4	42.9	60.9	60.4				74.3	79.7	79.7			
	PGB	55.5	68.3	84.8	78.7	93.3	118				124	150	136			
	PGC	66.7	76.8	94.7	108	124	151				189	216	205			
	PGD	82.9	100	131	133	191	208				229	260	242			
14	PGA	34.2	37.1	38.9	45.5	49.4	49.3				72.2	77.4	75.7			
	PGB	64	64.4	82.6	78.2	80.75	114				119	144	180			
	PGC	64.7	74.5	91.9	103	119	146				182	210	257			
	PGD	80.4	97.2	127	128	156	202				221	270	350			
16	PGA	325	38.2	36.8	44.2	47.8	48.3	55.7	55.4	55.4	69	74	72.9	80.4	86.2	83.3
	PGB	61.4	61.3	78.8	73.3	87.5	110	63.8	100	126	113	137	172	131	158	196
	PGC	61.4	70.8	87.4	90.8	115	141	111	129	157	174	200	244	194	223	272
	PGD	75.3	92.2	121	123	149	185	137	185	216	210	257	334	233	285	389
18	PGA	31.8	34.3	35.9	43.9	48.5	47.2	49.5	53.7	541	66.9	71.7	71.1	77.6	83.2	81.1
	PGB	49.9	59.2	75.1	71	81.8	107	81.4	97.1	122	110	133	167	126	153	191
	PGC	58.5	685	84.7	88.3	11	138	106	122	150	167	192	236	188	217	265
	PGD	74.1	89.5	117	119	144	189	132	159	208	202	247	322	226	277	399
20	PGA	29.9	32.4	34	41.1	44.6	45.6	47.9	51.9	52.6	64.3	63.9	63.8	74	79.4	78
	PGB	47	55.1	72.1	68.1	81.3	103	74.3	93.5	119	105	127	161	120	145	182
	PGC	56.2	64.5	83.1	80.3	107	131	102	118	145	160	184	225	177	204	248
	PGD	69.6	84.3	111	114	138	181	127	154	201	193	236	307	213	261	340
22.4	PGA	29.1	31.8	33.3	40.6	44	45.1	48.5	52.4	51.6	62.3	66.9	67.2	72.2	77.6	76.7
	PGB	45.7	54.8	70.3	67	80	101	78	96.7	115	102	123	155	118	141	177
	PGC	54.7	63	77.9	81.1	105	130	100	115	142	154	176	218	172	196	242
	PGD	68	82.2	108	113	137	180	123	148	195	185	226	296	207	253	330
25	PGA	27.9	30.1	31.9	39.5	43.3	44.3	48.9	50.1	60.6	65	68.2	69.7	74.7	79.7	75.2
	PGB	43.3	51.7	66.7	63.1	75.5	96.6	72.8	86.4	110	98.3	112	151	111	134	170
	PGC	51.8	60.4	73.8	80.3	99.4	122	85.5	110	135	147	180	208	184	189	252
	PGD	64.1	77.4	102	108	128	188	119	142	196	177	217	284	198	243	317
28	PGA	26.7	29	30.9	37.4	40.8	42.5	44.3	44	60	57.9	62.1	64.1	67.8	72.7	74.4
	PGB	41.4	49.4	63.9	60.9	72.7	90.3	71.8	85.5	100	92.5	112	143	107	130	165
	PGC	48.6	58	69.4	81.6	98	118	94.6	109	134	135	156	193	159	183	225
	PGD	60.5	76.1	96.7	100	121	159	113	141	185	164	201	264	191	234	306
31.5	PGA	25.4	27.5	29.4	35.6	38.6	40.7	42	45.5	47.3	55.2	59.2	61.7	65.6	70.3	72.7
	PGB	39.2	46.8	60.7	57.6	68.7	88.5	67.5	82.4	102	87.6	106	130	102	125	160
	PGC	45.8	52.5	69.2	78	97.8	108	98.5	102	126	127	148	180	151	174	215
	PGD	58.8	66.5	90.8	93.5	113	149	110	133	175	154	188	247	181	222	292
35.5	PGA	23.9	25.9	27.8	33.6	36.4	38.6	40.6	44	48.4	52.6	56.4	59.1	62.5	67	69.9
	PGB	38.7	43.8	55.8	53.9	64.3	83	64.9	77.5	98.8	82.6	100	129	98.3	119	152
	PGC	41.3	48.3	63.8	68.6	80.2	98.3	84	96.8	119	117	135	167	141	162	200
	PGD	52.2	63.1	83.7	86.1	104	135	104	126	166	142	174	229	160	207	272
40	PGA	20.6	22.6	24.3	29.2	31.7	33.7	38.5	41.8	44.3	48.1	49.4	52	55.9	64.1	67.1
	PGB	31.3	38.1	45.4	45.5	55.5	71.8	61.8	73.3	91.5	72	87.1	112	92.5	112	144
	PGC	36.3	40.7	50.5	57.3	66.7	82.7	78.5	90.4	111	97.2	112	138	131	151	187
	PGD	44	51.2	70.6	72	87	115	96.9	117	155	119	144	191	152	183	254
45	PGA	20.4	21	23.8	28.5	30.9	32.9	36.2	39.3	41.8	44.8	48	50.8	55.6	60.9	64
	PGB	31.2	37.2	48.3	45.2	54	69.8	67.4	78.5	98.5	84.1	109	127.5	109	133	169
	PGC	34.3	38.5	48	55.9	64.3	79.7	72	82.9	102	93.7	108	133	121	139	172
	PGD	42.9	51.8	68.7	68.5	84	111	88.8	107	142	114	136	183	146	175	236
50	PGA	20.7	22.4	24.2	28.4	30.8	33	31.7	34.4	36.6	44.4	47.6	50.7	50	53.6	50.9
	PGB	31.3	37.4	48.7	44.7	53.3	69.2	69.9	79.8	98.9	82.5	106	126	106	130.5	169
	PGC	34.3	38.5	48.1	54.3	63.8	77.7	69.1	80.2	98.3	104	125	151	118	144	184
	PGD	42.7	51.6	68.5	67.8	81.8	108	74.7	90.3	119	109	134	177	122	140	197
56	PGA	19.1	20.7	22.4	26.3	28.5	30.7	31	33.8	36.2	41.3	44.3	47.5	49.8	57.1	55.7
	PGB	28.8	34.4	44.8	41.3	48.3	64	49.1	57.8	75.1	63.9	76.7	99.5	71	88.6	118
	PGC	30.8	36.6	44.2	49	58.4	73.1	67.9	76.7	93.9	82.3	94.7	117	96.3	111	138
	PGD	38.7	48.8	62.1	61.3	74.1	98.3	72.2	87.2	115	100	122	162	117	143	190
63	PGA	18.4	19.9	21.5	25.3	27.4	29.5	30.3	33.4	36	39.3	42.3	45.1	48	51.5	55.2
	PGB	27.7	33.7	43.2	38.9	47.3	61.8	47.8	57.1	74.2	61.2	74.1	96.2	72.8	88.1	118
	PGC	29.2	33.7	41.9	48.3	51.3	66.2	56.7	65	80.8	77.9	88.8	111	93.7	108	134
	PGD	36.7	44.3	59.9	58	70.1	93	70.4	84.1	112	95	118	154	114	140	185
71	PGA	17	18.4	20	24.1	26.1	28.2	28.4	31.8	34.8	38	40.8	43.9	46.8	47.8	51.4
	PGB	25.7	30.7	40	37.5	44.3	58.5	44.1	52.6	68.4	58.2	70.5	91.7	67.5	81.7	106
	PGC	26.6	30.6	38	43.8	45.3	61.3	51	59.4	72	72.1	83.1	103	85.3	99.3	122
	PGD	33.4	40.4	53.7	54	66.2	88.5	63.8	77.1	102	88	106	143	104	127	168
80	PGA															
	PGB															
	PGC															
	PGD															
90	PGA															
	PGB															
	PGC															
	PGD															

备注说明:
PGA (kW) 齿轮箱不带冷却片可连续
PGB (kW) 齿轮箱带冷却片可连续
PGC (kW) 齿轮箱带冷却片可连续
PGD (kW) 齿轮箱带冷却片可连续

* On request
PGA (kW) Gear units without auxiliary cooling
PGB (kW) Gear units with fan
PGC (kW) Gear units with built-in cooling coil
PGD (kW) Gear units with fan and built-in cooling coil

热容量表 Thermal Capacity

TLB3系列额定热容量 (kW) 4-12型 TLB3 Series Nominal thermal capacity (kW) Type 4-12

热功率 P_H (kW) Thermal capacities P_H (kW)													
i _H	n1	齿轮箱规格 Gear unit sizes (4-9)											
		5			10			11			12		
		750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500
12.5	PGA	96.1	103	98.4				131	140	112			
	PGB	189	204	250				285	321	377			
	PGC	290	323	390				396	456	542			
	PGD	337	413	529				501	613	768			
14	PGA	94.2	101	95.2				130	138	117			
	PGB	184	198	244				280	316	374			
	PGC	272	313	380				388	447	533			
	PGD	326	389	474				490	600	758			
16	PGA	92.7	99.4	94.3	133	110	103	124	133	114	145	155	125
	PGB	159	193	209	177	214	262	248	300	358	287	347	407
	PGC	264	304	369	298	343	415	399	425	508	483	557	692
	PGD	317	388	500	354	434	558	485	589	718	591	724	907
18	PGA	90	96.5	90.5	102	102	888	123	132	115	145	156	129
	PGB	154	187	202	183	197	243	242	293	352	287	347	411
	PGC	254	289	387	273	319	383	381	418	499	484	568	585
	PGD	306	379	485	320	368	514	458	555	707	603	729	913
20	PGA	88.5	92.6	89.8	97.9	105	100	118	126	112	137	147	124
	PGB	149	179	223	188	203	251	231	280	339	287	323	365
	PGC	243	280	342	280	323	362	344	386	475	445	516	618
	PGD	294	380	488	335	410	529	434	531	676	549	672	848
22.5	PGA	84.6	90.7	86.8	90.8	97.5	93.9	114	122	110	138	148	128
	PGB	145	175	218	184	201	220	266	324	388	324	388	388
	PGC	236	272	332	285	295	360	319	387	443	447	515	617
	PGD	284	348	432	336	375	439	404	495	632	548	671	830
25	PGA	81.4	87.8	85.5	87.8	94.3	92.9	108	117	108	134	144	130
	PGB	137	168	209	147	178	202	207	250	307	335	398	375
	PGC	220	253	313	246	264	347	292	337	408	424	488	580
	PGD	265	324	422	283	359	438	371	454	584	523	640	817
28	PGA	78.2	83.9	80	86.9	92.7	93.1	108	113	109	131	140	131
	PGB	130	157	189	144	174	220	197	236	296	244	295	285
	PGC	204	235	298	238	274	335	272	313	382	336	406	504
	PGD	247	302	385	285	343	455	346	424	546	487	596	767
31.5	PGA	75.2	80.6	82.7	83.1	89.1	90.7	101	108	105	124	133	129
	PGB	123	149	180	126	165	210	188	225	282	228	276	344
	PGC	181	220	271	220	254	312	252	291	356	282	417	508
	PGD	223	282	370	285	324	424	323	395	514	446	548	703
35.5	PGA	71.7	76.8	78.8	78.5	85.3	87.7	97.9	105	105	119	128	125
	PGB	115	141	181	129	156	199	178	215	271	216	282	328
	PGC	174	201	243	206	23.7	292	240	276	338	338	389	475
	PGD	212	280	341	247	302	395	305	373	487	415	508	651
40	PGA	67.2	72.1	75	76.1	81.6	84.4	92.9	99.8	100	114	122	121
	PGB	109	131	169	123	149	191	166	201	255	203	245	310
	PGC	158	182	224	183	222	274	220	263	310	312	360	440
	PGD	182	225	309	231	293	372	251	344	449	386	473	618
45	PGA	61.9	66.4	69.4	73.5	777	80.8	85.4	91.8	93.2	109	117	118
	PGB	99.1	120	154	116	140	180	152	194	234	185	238	298
	PGC	142	164	202	176	203	251	197	227	280	285	340	417
	PGD	172	211	279	212	280	342	254	311	407	367	448	565
50	PGA	61.1	65.5	68.3	69.2	73.1	77	86.2	92.4	95.8	104	112	115
	PGB	96.7	117	151	108	131	169	150	191	232	183	221	281
	PGC	135	158	194	160	184	228	193	222	274	271	312	384
	PGD	166	203	269	183	238	312	245	301	395	335	411	509
55	PGA	58.6	60.7	64.8	63.1	67.7	72	78.8	84.5	88.9	96.1	103	104
	PGB	89.2	109	140	98.1	120	155	135	164	211	168	203	260
	PGC	122	140	174	144	168	208	171	197	245	242	278	345
	PGD	149	182	231	174	213	281	219	268	354	302	370	468
63	PGA	54.7	58.7	62.8	62	66.5	71	76.2	81.7	86.3	98.1	103	108
	PGB	85.9	104	135	96.7	117	151	131	156	203	164	198	255
	PGC	115	132	164	138	159	197	161	185	229	235	271	336
	PGD	141	173	229	188	233	286	207	253	334	292	358	471
71	PGA	51.3	55	59	57.5	61	65.9	70.6	75.7	80.2	84.4	91.8	99.9
	PGB	80.6	97.6	128	89.2	108	140	121	146	189	149	180	232
	PGC	103	119	148	124	142	177	144	166	206	208	240	297
	PGD	128	157	209	148	183	243	186	228	301	251	316	421
80	PGA				55.8	60.5	65.8				84.8	90.7	95.8
	PGB				95.7	105	136				143	173	224
	PGC				116	134	167				194	224	279
	PGD				142	174	231				246	300	386
90	PGA				52.1	56.9	60				78.8	84.5	89.8
	PGB				81.3	98.4	127				131	161	206
	PGC				105	121	151				174	201	248
	PGD				130	159	210				221	271	357

TLR3系列額定熱容量 (kW) 13-26型 TLR3 Series Nominal thermal capacity (kW) Type 13-26

In		13			14			15			16			17		
		750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500
12.5	PGA				206	183					214	175				
	PGB				501	579	651				524	596	660			
	PGC				779	852	1021				917	1039	1198			
	PGD				1056	1255	1574				1210	1430	1754			
14	PGA				185	168						233		266	285	
	PGB				444	514	611				230	604	631	631	716	728
	PGC				674	763	884				970	1129	1280	1105	1266	1443
	PGD				918	1092	1377				1204	1433	1686	1411	1577	1947
16	PGA	175	185	122	205	191	138	251	221		263	227		287	241	
	PGB	335	388	445	388	448	511	483	553	597	507	579	615	626	713	737
	PGC	562	654	789	636	740	868	895	1043	1196	926	1079	1230	1087	1265	1428
	PGD	705	846	1047	799	959	1181	1108	1322	1583	1148	1366	1621	1380	1654	1937
18	PGA	176	167	128	207	195	146	242	216		262	230		277	237	
	PGB	338	392	454	391	452	520	483	551	581	500	573	617	601	686	722
	PGC	585	658	777	640	745	877	880	1001	1155	913	1063	1219	1033	1210	1375
	PGD	710	853	1060	804	965	1195	1059	1265	1525	1126	1344	1608	1330	1534	1872
20	PGA	186	159	126	190	180	140	234	212		250	223		268	234	
	PGB	316	367	428	358	413	480	445	513	568	477	548	599	578	662	706
	PGC	529	615	729	582	677	800	825	961	1114	867	1010	1165	1000	1164	1332
	PGD	664	786	888	730	877	1082	1015	1215	1475	1070	1280	1542	1277	1523	1815
22.4	PGA	160	154	126	182	185	148	229	210		242	218		266	236	
	PGB	301	349	412	359	417	469	432	498	559	459	528	582	563	646	702
	PGC	493	574	693	587	683	811	782	910	1061	830	966	1121	956	1114	1282
	PGD	620	746	936	736	885	1107	964	1155	1412	1025	1227	1480	1223	1481	1756
25	PGA	151	149	128	180	176	150	216	204	153	238	222		250	234	
	PGB	282	329	395	335	390	466	402	466	537	444	513	585	526	607	681
	PGC	463	527	632	548	638	762	707	826	970	780	919	1078	870	1013	1181
	PGD	570	697	870	687	827	1045	872	1047	1297	974	1168	1440	1113	1333	1629
29	PGA	144	144	131	173	172	155	211	205	158	225	216	172	252	239	183
	PGB	267	312	380	319	373	452	390	463	525	413	480	562	514	596	680
	PGC	420	489	590	519	583	715	618	769	939	714	832	876	842	980	1157
	PGD	531	640	819	640	772	985	827	1007	12650	852	1060	1326	1076	1292	1605
31.5	PGA	137	139	131	183	185	154	198	196	170	219	215	183	239	232	180
	PGB	253	296	365	299	350	430	363	423	508	401	468	556	479	557	656
	PGC	390	453	550	487	543	658	614	715	857	684	797	952	770	896	1067
	PGD	498	595	786	588	710	912	761	917	1162	847	1020	1288	984	1184	1487
35.6	PGA	132	135	130	155	159	151	192	192	173	206	205	161	231	226	186
	PGB	242	284	353	283	332	412	349	407	495	373	435	526	461	538	644
	PGC	370	431	524	435	506	615	584	680	819	622	725	871	733	853	1021
	PGD	469	566	732	548	662	855	724	873	1114	770	929	1181	837	1129	1429
40	PGA	124	128	125	148	152	147	182	183	168	199	199	180	221	220	184
	PGB	228	267	334	268	315	392	327	383	469	358	419	510	435	508	614
	PGC	361	397	484	405	471	574	529	627	756	591	687	829	662	793	954
	PGD	433	523	678	510	617	798	689	808	1038	732	884	1129	873	1053	1339
46	PGA	115	119	117	142	147	144	188	171	160	188	190	176	205	206	187
	PGB	207	244	306	256	301	377	301	352	434	337	385	464	401	470	572
	PGC	306	366	435	363	448	544	485	564	684	545	634	768	618	719	868
	PGD	386	467	607	484	566	760	602	728	936	677	818	1049	792	955	1221
50	PGA	116	122	124	135	141	142	172	176	174	174	179	174	214	219	210
	PGB	207	244	310	240	283	358	302	356	445	309	363	453	407	478	593
	PGC	303	352	433	364	412	506	487	587	692	491	571	696	624	727	864
	PGD	385	469	610	448	543	709	601	728	944	610	738	956	795	962	1242
56	PGA	107	113	117	124	131	135	158	165	167	178	186	186	137	205	203
	PGB	189	223	285	219	258	330	276	325	411	310	366	481	373	438	552
	PGC	271	315	388	315	366	451	436	507	622	492	573	702	562	654	800
	PGD	343	416	547	401	486	637	538	652	852	609	738	962	716	867	1128
63	PGA	103	109	114	125	133	138	151	159	162	163	171	173	189	198	189
	PGB	181	214	275	220	259	332	262	309	393	282	333	422	365	419	529
	PGC	256	296	366	314	365	431	409	475	585	439	510	627	529	615	755
	PGD	324	393	517	397	481	633	506	612	802	544	659	882	677	820	1071
71	PGA	95.7	103	107	115	122	127	144	151	155	156	164	167	179	187	190
	PGB	170	201	258	200	236	302	248	292	372	279	318	404	333	393	498
	PGC	230	268	331	281	327	404	376	437	536	413	481	591	489	569	698
	PGD	294	356	489	355	431	567	468	567	743	512	621	813	625	757	990
80	PGA				110	117	123				148	157	161			
	PGB				192	227	291				255	301	384			
	PGC				284	307	379				380	442	544			
	PGD				336	407	536				472	573	751			
90	PGA				103	110	115									
	PGB				180	212	273									
	PGC				238	277	343									
	PGD				305	369	487									

TLB3系列额定热容量 (kW) 13-26型 TLB3 Series Nominal thermal capacity (kW) Type 13-26

k		18			19			20			21			22			23	24	25	26
		750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500	750
12.5	PGA	242	166																	
	PGB	611	691	749																
	PGC	1126	1276	1468																
	PGD	1470	1730	2093																
14	PGA	323	259																	
	PGB	705	799	792																
	PGC	1217	1410	1569																
	PGD	1350	1638	2110																
15	PGA	298	254																	
	PGB	645	732	741																
	PGC	1109	1292	1447																
	PGD	1418	1682	1949																
18	PGA	314	263																	
	PGB	670	763	787																
	PGC	1144	1332	1503																
	PGD	1481	1739	2033																
20	PGA	288	246		324	271					371	270								
	PGB	613	700	736	715	814	839				805	896	813							
	PGC	1043	1214	1379										384	270	793				
	PGD	1334	1589	1867										815	907					
22.4	PGA	279	243		322	276		339	285		270	279								
	PGB	589	675	722	695	795	636	742	833	864	785	881	824							
	PGC	1000	1164	1332										361	261	844				
	PGD	1279	1525	1816										795	883					
25	PGA	277	250		315	281		337	287	881	562	292								
	PGB	574	661	732	664	763	833	711	816		747	846	841							
	PGC	958	1116	1294										372	306	866				
	PGD	1226	1467	1760										765	857					
28	PGA	265	248	182	307	285	200	828	302		352	901								
	PGB	637	621	711	833	731	828	678	782	878	710	811	855							
	PGC	872	1016	1193																
	PGD	1114	1338	1650																
31.5	PGA	260	250	199	253	279	216	319	302	227	334	299		361	312					
	PGB	923	808	712	591	688	769	646	749	803	861	759	831	718	621	871				
	PGC	844	852	1165																
	PGD	1078	1298	1620																
36.5	PGA	247	241	203	287	376	228	304	293	235	324	287		342	308					
	PGB	489	586	877	572	886	786	603	703	625	634	731	821	667	767	839				
	PGC	771	887	1071																
	PGD	987	1188	1498																
40	PGA	239	236	204	273	267	226	296	289	240	307	287	208	331	302					
	PGB	469	548	857	538	627	747	583	679	805	593	686	783	640	736	822				
	PGC	733	853	1022																
	PGD	939	1132	1434																
45	PGA	228	226	203	255	253	221	282	278	240	285	270	207	314	291	208				
	PGB	445	520	829	498	582	700	547	638	765	546	634	733	589	692	785				
	PGC	685	798	990																
	PGD	876	1057	1346																
50	PGA	212	216	204	252	256	240	264	267	247	307	302	260	291	263	232				
	PGB	410	481	864	478	561	680	508	595	730	572	668	799	551	641	757				
	PGC	622	725	880																
	PGD	796	963	1240																
55	PGA	220	228	225	243	251	245	280	268	260	291	284	271	313	312	278				
	PGB	415	488	812	459	540	675	488	571	712	538	630	772	577	675	819				
	PGC	628	729	891																
	PGD	798	968	1255																
63	PGA	203	211	211	235	245	243	250	260	256	281	287	272	285	286	275				
	PGB	379	447	553	442	520	654	467	545	669	518	608	752	541	633	776				
	PGC	564	657	805																
	PGD	718	886	1133																
71	PGA	195	204	205	223	232	232	243	262	251	265	272	261	287	291	273				
	PGB	362	426	538	414	497	615	449	529	666	485	568	707	522	612	764				
	PGC	592	620	780																
	PGD	680	824	1075																
80	PGA	184	192	196				229	239	240				270	276	292				
	PGB	339	400	507				421	495	626				496	574	710				
	PGC	490	570	700																
	PGD	628	761	994																
90	PGA																			
	PGB																			
	PGC																			
	PGD																			

热容量表 Thermal Capacity

TLB4系列额定热容量 (kW) 5-12型 TLB4 Series Nominal thermal capacity (kW) Type 5-12

in	热功率Pa (kW) Thermal capacities Pa (kW)											
	齿轮箱规格 Gear unit sizes (5-10)											
	5			6			7			8		
	750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500
80	26.7	28.6	31.7				39.6	42.4	48.9			
90	26	27.9	31.1				38.3	41	45.5			
100	24.8	26.6	29.6	28.6	30.6	34	36.2	38.8	43.1	42.3	45.3	50.2
112	23.9	25.6	28.6	27.9	29.9	33.3	34.9	37.4	41.5	41.1	44	48.8
125	22.9	24.5	27.4	26.7	28.6	31.8	33.3	35.7	39.7	38.9	41.6	46.2
140	21.8	23.4	26.1	25.7	27.5	30.7	31.7	33.9	37.8	37.5	40.1	44.6
160	20.1	21.5	24.1	24.5	26.3	29.4	28.9	30.9	34.5	35.7	38.2	42.7
180	19.7	21.1	23.6	23.4	25.1	28.1	28.1	30.1	33.7	34	36.4	40.7
200	19	20.4	22.8	21.6	23.1	25.9	27.9	29.9	33.5	31	33.2	37.2
224	17.7	19	21.3	21.2	22.7	25.4	165	27.8	31.2	30.3	32.4	36.4
250	17.3	18.5	20.8	20.3	21.8	24.5	25.1	26.9	30.2	30	32.1	36
280	16.4	17.6	19.8	19	20.4	22.9	23.5	25.2	28.4	28	30	33.7
315	15.4	16.5	18.6	18.5	19.8	22.3	22	23.6	26.6	26.9	28.6	32.4
355				17.7	19	21.3				25.3	27.1	30.4
400				16.5	17.7	19.9				23.7	25.4	28.6

本表均为PGA(KW)齿轮箱不带辅助冷却措施。

热容量表 Thermal Capacity

TLB4系列额定热容量 (kW) 5-12型 TLB4 Series Nominal thermal capacity (kW) Type 5-12

in	热功率Pa (kW) Thermal capacities Pa (kW)											
	齿轮箱规格 Gear unit sizes (5-10)											
	9			10			11			12		
	750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500
80	66	60	66.1				84.6	90.6	98.89			
90	54.7	58.6	64.7				82.1	87.9	95.9			
100	51.9	55.6	61.5	58.4	60.4	66.7	78.8	84.4	92.4	94.3	101	110
112	50	53.5	59.2	55.1	59	65.3	75.1	80.4	88.3	91.2	97.6	106
125	47.6	51	56.6	52.3	56	62.1	71.9	77	84.8	87.1	93.2	102
140	44.9	48.1	53.5	50.3	53.9	59.9	68	72.8	80.4	82.9	88.8	97.8
160	41.1	44	49	47.9	51.3	57.2	62	66.4	73.6	79.5	85.1	94.1
180	40.1	42.9	47.9	45.5	48.7	54.3	60.3	64.8	71.8	75.3	80.6	89.3
200	39.2	42	47	41.7	44.6	49.6	59	63.2	70.5	68.7	73.6	81.9
224	36.7	38.3	44	40.5	43.4	48.6	55.5	59.4	66.4	67.1	71.8	80.2
250	35.4	37.9	42.5	39.7	42.5	47.8	53.7	57.5	64.5	65.5	70.1	78.6
280	33.7	36.1	40.6	37.2	39.8	44.8	51.4	55	61.8	61.5	65.8	71
315	31.7	33.9	38.2	35.9	38.4	43.2	47.9	51.3	57.8	59.4	63.7	71.8
355				34.2	36.6	41.2				56.6	60.8	68.4
400				32.2	34.5	38.9				53	56.7	63.8

本表均为PGA(KW)齿轮箱不带辅助冷却措施。

热容量表 Thermal Capacity

TLB4系列额定热容量 (kW) 13-26型 TLB4 Series Nominal thermal capacity (kW) Type 13-26

in		13			14			15			16			17		
		750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500
80	PGA	113	121	130				152	162	171				171	183	189
	PGB															
	PGC															
	PGD															
90	PGA	111	118	128				145	155	164	156	167	175	163	175	183
	PGB															
	PGC															
	PGD															
100	PGA	105	112	121	121	130	140	137	146	156	149	160	169	153	164	173
112	PGB	100	107	116	118	126	137	130	139	149	141	151	161	147	157	167
125	PGC	95.9	102	112	112	119	130	124	132	143	135	144	155	139	149	159
140	PGD	91	97.6	107	107	114	125	120	128	139	128	137	146	135	144	155
160	PGA	86.1	92.4	101	103	110	121	113	121	132	123	132	143	127	136	147
180	PGB	81.3	87.2	96.5	96.8	103	114	107	114	125	116	124	136	120	128	140
200	PGC	79.5	85.2	94.7	91.8	98.5	109	105	112	124	110	117	130	118	126	139
224	PGD	74.5	79.9	89.1	86.9	93.2	104	98.4	105	117	108	116	128	110	117	130
250	PGA	72.1	77.3	86.6	84.5	90.6	101	95.1	102	114	101	108	120	107	114	127
280	PGB	68.1	73	82.1	79.5	85.2	95.9	88.8	95	106	97.8	104	117	100	107	120
315	PGC	64.9	69.6	78.4	76.8	82.4	92.7	83.6	89.7	100	91.8	98.5	110	94.3	101	113
355	PGD				72.6	77.8	87.6				86.1	92.4	103			
400	PGA				69.1	74.1	83.4									

热容量表 Thermal Capacity

TLB4系列额定热容量 (kW) 13-26型 TLB4 Series Nominal thermal capacity (kW) Type 13-26

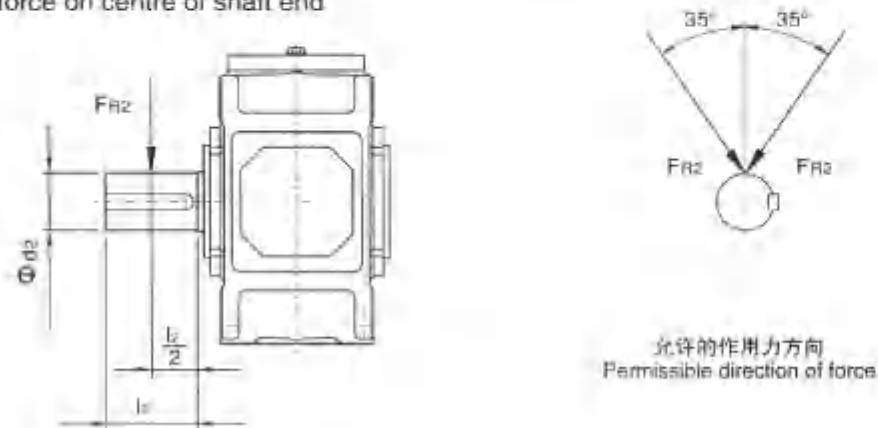
in		18			19			20			21			22			23	24	25	26
		750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500	750	1000	1500	750
80	PGA				234	250	256				327	351	343				459		549	
	PGB																			
	PGC																			
	PGD																			
90	PGA	176	188	195	224	240	248	239	256	264	317	339	337	331	355	345	454	472	543	570
	PGB																			
	PGC																			
	PGD																			
100	PGA	168	180	188	212	227	236	230	246	255	298	319	321	321	344	338	450	468	539	568
112	PGB	158	169	179	202	216	227	217	232	243	271	291	315	301	322	323	408	424	488	513
125	PGA	151	161	172	192	205	216	207	221	234	271	291	300	292	313	315	408	424	488	513
140	PGA	144	154	165	185	198	211	197	211	225	262	281	294	275	294	304	383	399	458	481
160	PGA	139	148	160	175	187	202	189	203	218	248	265	281	265	284	298	372	386	444	467
180	PGA	130	138	152	163	175	190	179	191	208	231	248	266	251	269	286	355	369	425	446
200	PGA	124	132	146	162	174	191	167	179	196	224	240	260	235	251	271	329	342	394	413
224	PGA	121	130	144	153	163	181	167	179	196	209	224	248	227	243	266	328	341	392	412
250	PGA	114	122	136	148	158	176	157	168	187	203	217	241	212	227	252	304	317	364	382
280	PGA	110	117	132	139	148	167	151	161	182	194	207	233	205	220	247	290	302	347	364
315	PGA	103	110	124	131	140	158	143	153	172	180	193	217	196	210	236	273	284	326	343
355	PGA	97.6	104	117				135	144	162				183	196	220		260		314
400	PGA																			

齿轮箱 Gear Units

输出轴 d_2 上允许的附加径向力¹⁾ Permissible Additional Radial Forces on Output Shaft d_2 ¹⁾

类型 TLH1SH...TLH2S...TLH3S...TLH4S...TLB2S...TLB3S...TLB4S
Types TLH1SH...TLH2S...TLH3S...TLH4S...TLB2S...TLB3S...TLB4S

作用力在轴端中部
Application of force on centre of shaft end



允许的附加径向力 F_{R2} (kN), 作用于输出端中部²⁾
Permissible additional radial forces F_{R2} (kN) in kN with application of force on center of shaft end ²⁾

类型 Type	布置形式 Design	齿轮箱规格 ¹⁾ , ⁴⁾ Gearunitsize ¹⁾ , ⁴⁾																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
TLH1SH	A/B	2)	-	2)	-	2)	-	2)	-	2)	-	2)	-	2)	-	2)	-	2)	-
TLH2S	A/B	-	-	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
TLH32S	A/B	-	-	-	-	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
TLH4S	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
TLB2S	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
TLB3S	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
TLB4S	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

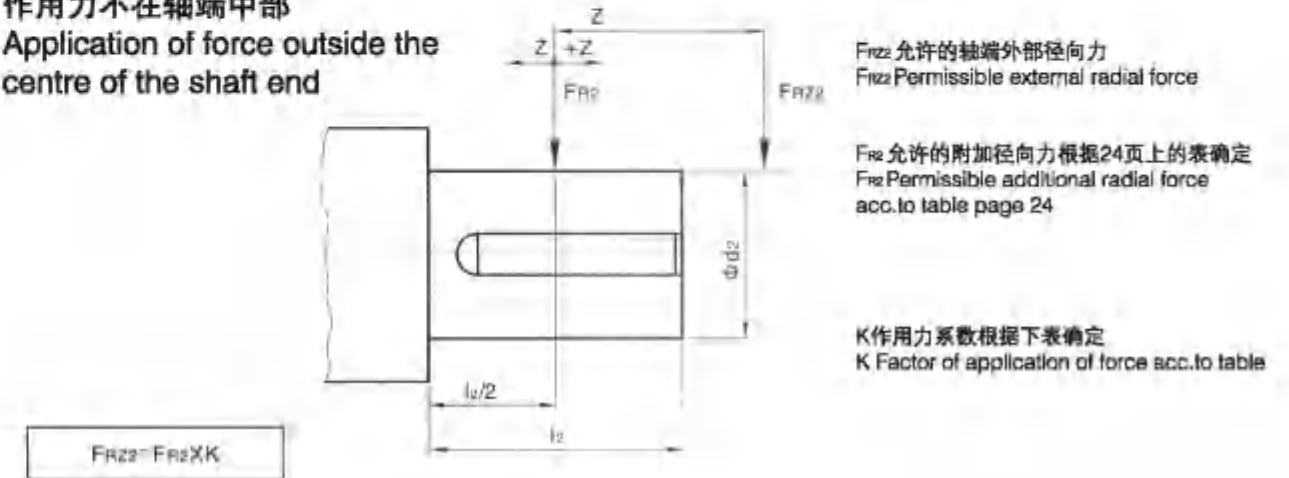
- 1)表中数据为最小值。如果给定了力的作用角和旋转方向, 通常情况下, 可允许承受较大的附加力。请与我们联系。
Values in tables are minimum values. If the angle of application of force and the direction of rotation are given, significantly higher additional forces can mostly be allowed. Please consult us.
- 2)根据用户要求供货。On request.
- 3)当作用力不在轴端中部时, 请参见第25页。For application of force outside the center of the shaft end, see page 25.
- 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 d_1 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 d_1 on request.

齿轮箱 Gear Units

输出轴 d_2 上允许的附加径向力¹⁾ Permissible Additional Radial Forces on Output Shaft d_2 ¹⁾

类型 TLH1SH...TLH2S...TLH3S...TLH4S...TLB2S...TLB3S...TLB4S
Types TLH1SH...TLH2S...TLH3S...TLH4S...TLB2S...TLB3S...TLB4S

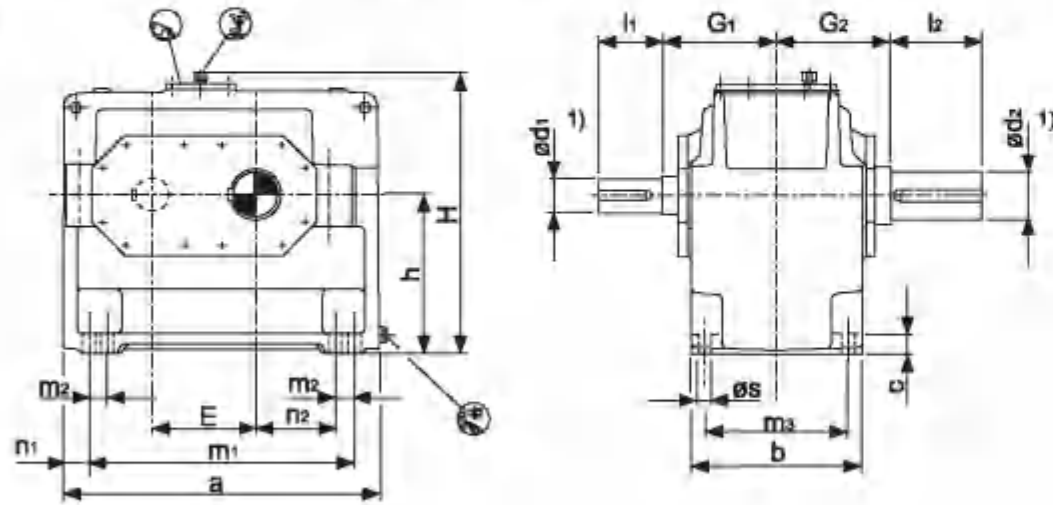
作用力不在轴端中部
Application of force outside the centre of the shaft end



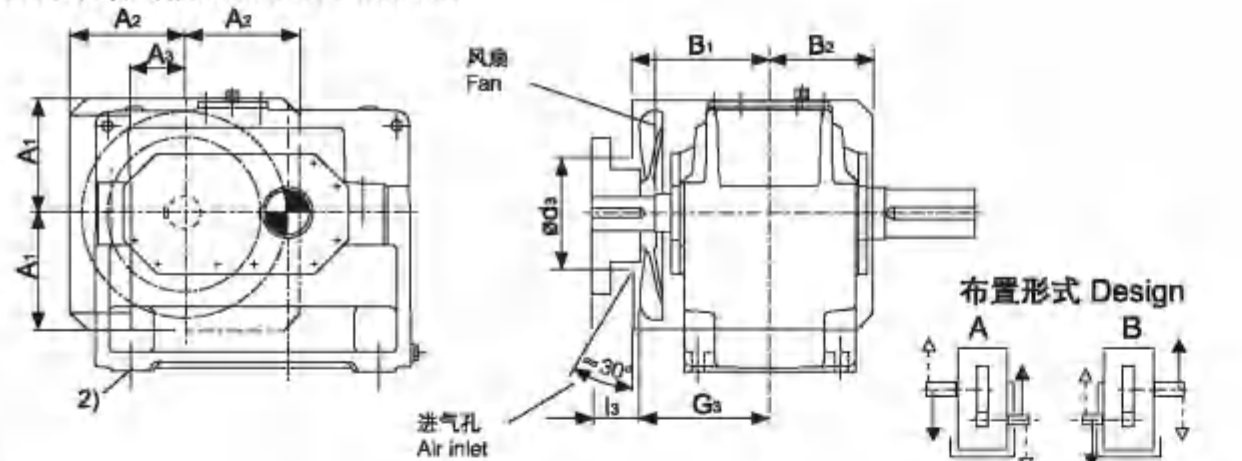
规格 Size	作用力系数K Factor of application of force K																	
	距离Z(mm) Distance Z in mm																	
	-200	-150	-100	-75	-50	-25	0	25	50	75	100	150	200	250	300			
1						1.11	1.00	0.81	0.68	0.58	0.51							
2						1.11	1.00	0.83	0.71	0.63	0.56							
3					1.21	1.09	1.00	0.85	0.74	0.65	0.58	0.48						
4					1.17	1.08	1.00	0.86	0.76	0.68	0.62	0.52	0.44					
5+6				1.22	1.14	1.06	1.00	0.88	0.79	0.72	0.66	0.56	0.49	0.43				
7+8				1.19	1.12	1.06	1.00	0.89	0.81	0.74	0.68	0.58	0.51	0.46	0.41			
9+10			1.22	1.15	1.10	1.05	1.00	0.90	0.82	0.76	0.70	0.61	0.54	0.48	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 Units 单级传动 Single Stage 卧式安装 Horizontal
类型TLH1SH Type TLH1SH 规格3...19 Size 3...19

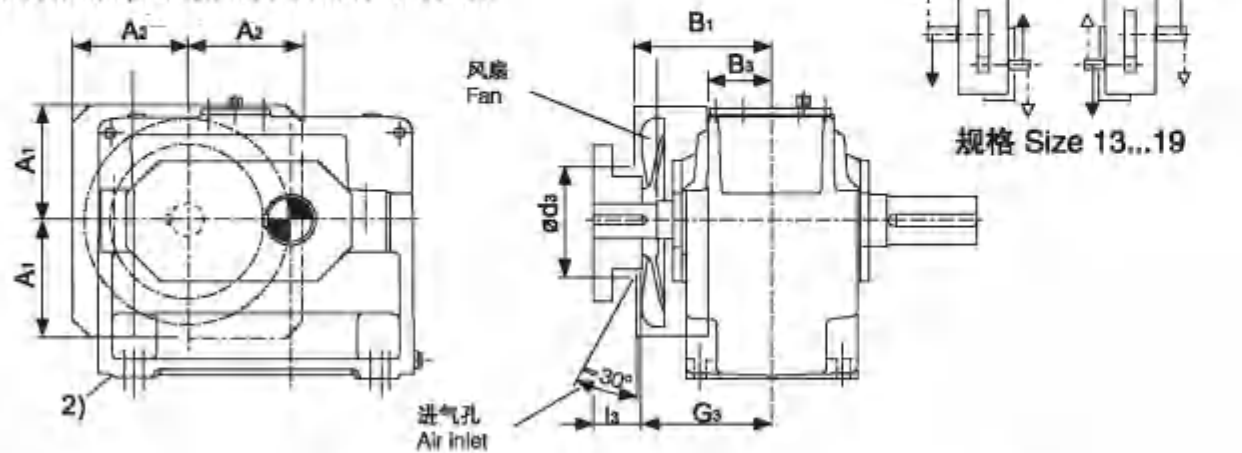
TLH1SH



TLH1SH
规格3...11带冷却风扇 Sizes 3...11 with fan



TLH1SH
规格13...19带冷却风扇 Sizes 13...19 with fan



1) $m_6 \leq \phi 100$ $n_6 > \phi 100$

有关平键GB/T1095-2003型和中心孔, 参见第86页。For parallel key GB/T 1095-2003 and for centre hole, see page 86

2) 在安装基础螺栓前, 应拆下风扇罩。Remove air guide cover before fitting the foundation bolts.

平行轴齿轮箱 Helical Gear Units 单级传动 Single Stage 卧式安装 Horizontal
类型TLH1SH Type TLH1SH 规格3...19 Size 3...19

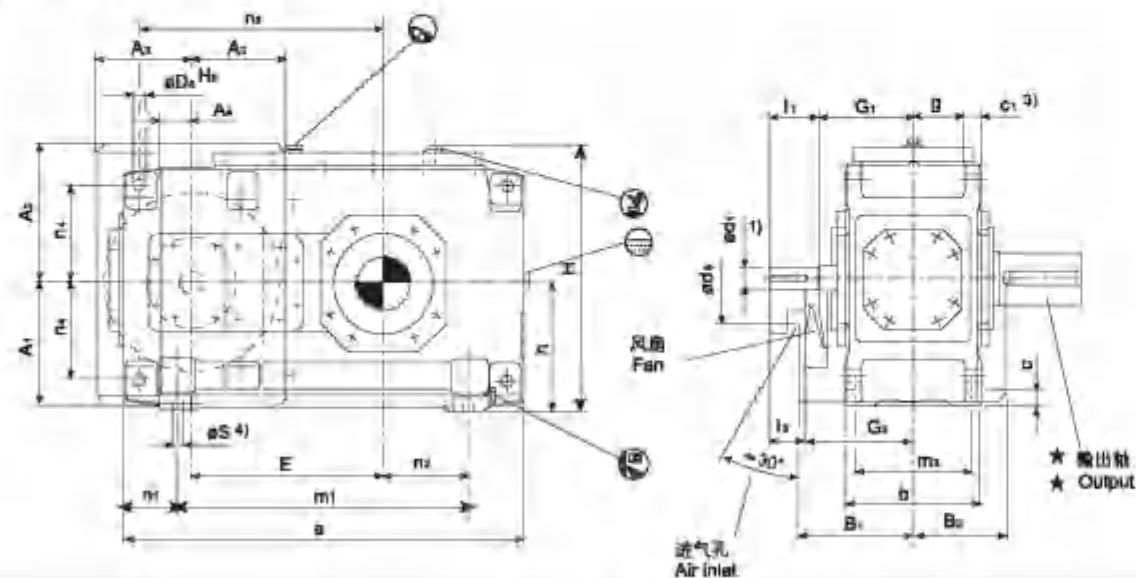
规格 Size	尺寸mm Dimensions in mm																
	输入轴 Input																
	in=1.25-2.8			in=1.6-2.8			in=2-2.8			in=3.15-4			in=4.5-5.6			G ₁	G ₂
	d ₁ ⁽¹⁾	l ₁	l ₂	d ₁ ⁽¹⁾	l ₁	l ₂	d ₁ ⁽¹⁾	l ₁	l ₂	d ₁ ⁽¹⁾	l ₁	l ₂	d ₁ ⁽¹⁾	l ₁	l ₂		
3	60	125	105							45	100	80	32	80	60	170	190
5	85	160	130							60	135	105	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 units																		
	a	A_1	A_2	A_3	b	B_1	B_2	B_3	c	d_6	E	h	H	m_1	m_2	m_3	n_1	n_2	s
3	420	150	145	80	200	205	130	-	28	130	130	200	375	310	-	160	55	110	19
5	580	225	215	115	285	255	185	-	35	190	185	290	525	440	-	240	70	160	24
7	690	255	250	120	375	300	230	-	45	245	225	350	625	540	-	315	75	195	28
9	805	300	265	140	425	330	265	-	50	280	265	420	735	625	-	350	80	225	35
11	960	360	330	190	515	375	320	-	60	350	320	500	875	770	-	440	95	280	35
13	1100	415	350	-	580	430	-	150	70	350	370	580	1020	870	-	490	115	315	42
15	1295	500	430	-	545	430	-	120	80	450	442	600	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

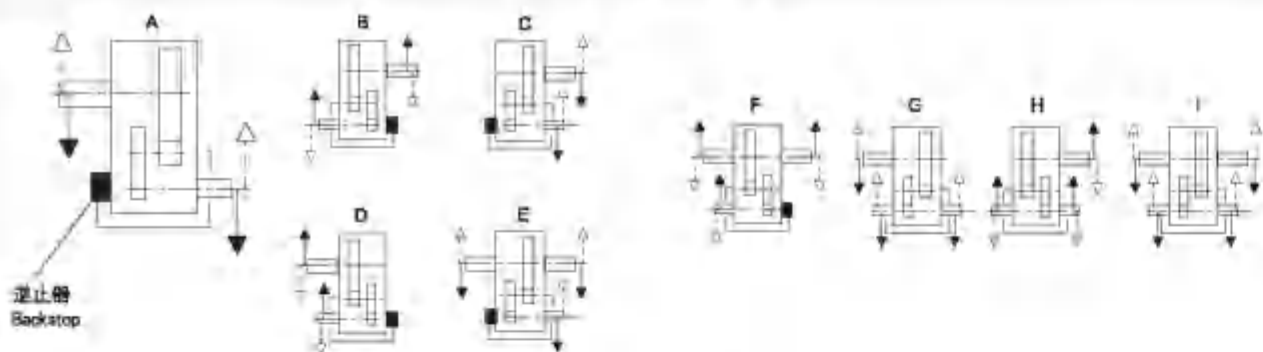
规格 Size	尺寸mm Dimensions in mm			润滑油 Oil	重量 Weight (kg)
	输出轴 Output			轴封 Shaft seal (l)	
	d ₂₁	G ₂	l ₂		
3	60	170	125	7	128
5	85	210	160	22	302
7	105	250	200	42	547
9	125	270	210	68	862
11	150	320	240	120	1515
13	180	360	310	175	2395
15	220	360	350	190	3200
17	240	400	400	270	4250
19	270	440	450	390	5800

平行轴齿轮箱 Helical Gear Units 两级传动 Two Stage 卧式安装 Horizontal
类型TLH2.H Type TLH2.H 规格4...12 Size 4...12

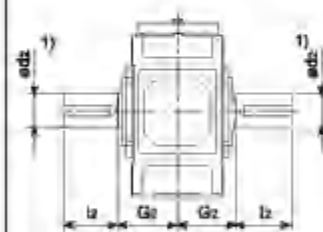
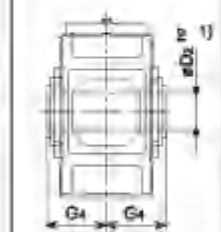
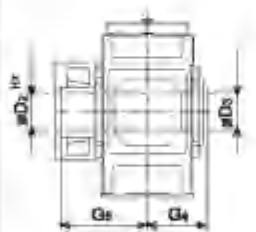
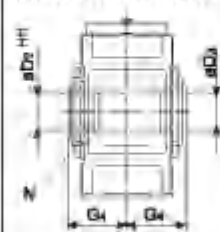
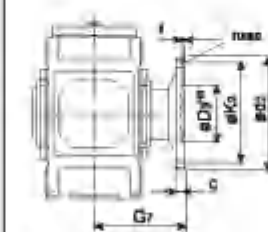
TLH2SH TLH2HH TLH2DH



布置形式 Design 3)



★输出轴 Output

TLH2SH
实心轴 Solid shaftTLH2HH
空心轴 Hollow shaftTLH2DH
带缩紧套的空心轴
Hollow shaft for shrink diskTLH2KH
带花键的空心轴
按照 DIN 5480
Hollow shaft with involute
splines acc. to DIN 5480TLH2FH
法兰轴
Flanged shaft

1) $m6 \leq \phi 100$, $n6 > \phi 100$

有关平键GB/T1095-2003型和中心孔, 参见第86页。For parallel key GB/T 1095-2003 and for centre hole, see page 86

2) 键槽GB/T1095-2003。Keyway GB/T1095-2003.

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

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

5) 方案: 逆止器不能与布置形式G、H和I组合。

平行轴齿轮箱 Helical Gear Units 两级传动 Two Stage 卧式安装 Horizontal
类型TLH2.H Type TLH2.H 规格4...12 Size 4...12

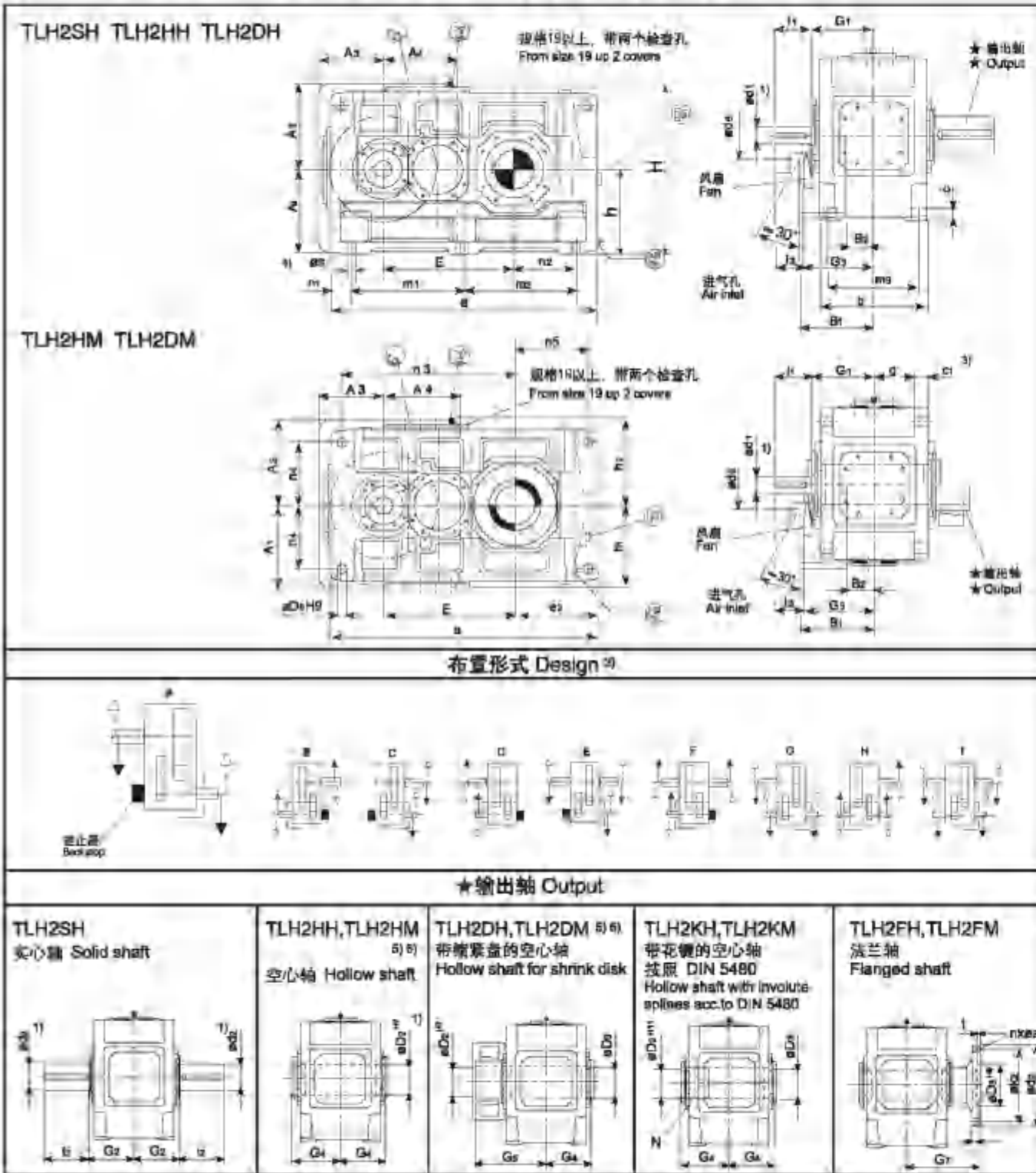
规格 Size	尺寸mm Dimensions in mm														5) 布置形式 Design G,H,I 仅用于 Only for in=
	输入轴 Input														
	in=6.3-11.2			in=8-14			in=12.5-22.4			in=16-28			G ₁	G ₂	
d ₁ ¹⁾	l ₁	l ₂	d ₁ ¹⁾	l ₁	l ₂	d ₁ ¹⁾	l ₁	l ₂	d ₁ ¹⁾	l ₁	l ₂				
4	45	100	80				32	80	60				170	190	6.3-18
5	50	100	80				38	80	60				195	215	6.3-18
6				50	100	80				38	80	60	195	215	8-22.4
7	60	135	105				50	110	80				210	240	6.3-18
8				60	135	105				50	110	80	210	240	8-20
9	75	140	110				60	140	110				240	270	6.3-18
10				75	140	110				60	140	110	240	270	8-20
11	90	165	130				70	140	105				275	310	6.3-18
12				90	165	130				70	140	105	275	310	8-22.4

规格 Size	尺寸mm Dimensions in mm											
	齿轮箱 Gear units											
	a	A ₁	A ₂	A ₃	A ₄	b	B ₁	B ₂	c	C ₁	D ₅	d ₆
4	565	195	225	150	30	215	205	158	28	30±1	24	136
5	640	225	260	175	55	255	230	177.5	28	30±1	24	150
6	720	225	260	175	55	255	230	177.5	28	30±1	24	150
7	785	272	305	210	70	300	255	210	35	36±1	28	200
8	890	272	305	210	70	300	255	210	35	36±1	28	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 units										
	E	g	h	H	m ₁	m ₂	n ₁	n ₂	n ₃	n ₄	s
4	270	77.5	200	415	355	180	105	85	345	150	19
5	315	97.5	230	482	430	220	105	100	405	180	19
6	350	97.5	230	482	510	220	105	145	440	180	19
7	385	114	280	572	545	260	120	130	500	215	24
8	430	114	280	582	650	260	120	190	545	215	24
9	450	140	320	662	635	320	145	155	585	245	28
10	500	140	320	662	735	320	145	205	635	245	28
11	545	161	380	782	775	370	165	180	710	300	35
12	615	161	380	790	930	370	165	265	780	300	35

规格 Size	TLH2SH			TLH2HH		TLH2DH				TLH2KH				TLH2FH										润滑油 Oil	重量 Weight (kg)
	d ₂	l ₂	G ₂	D ₂	G ₄	D ₂	D ₃	G ₄	G ₆	N/DIN5480	D ₂	D ₃	G ₄	c	d ₂	D ₂	k ₂	m ₂ s	t	G ₂	密封 Shaft seal				
4	80	170	140	80	140	85	85	140	205	-	-	-	-	-	-	-	-	-	-	-	10	190			
5	100	210	165	95	165	100	100	165	240	N95x3x30x30x9H	89	100	165	25	300	150	260	18x22	10	255	15	300			
6	110	210	165	105	165	110	110	165	240	N95x3x30x30x9H	89	110	165	25	320	160	260	18x22	10	255	16	355			
7	120	210	195	115	195	120	120	195	260	N120x3x30x38x9H	114	120	195	30	370	180	320	16x26	10	300	27	505			
8	130	250	185	125	195	130	130	185	285	N120x3x30x38x9H	114	130	195	30	390	190	340	18x26	10	300	30	590			
9	140	250	235	135	235	140	145	235	330	N140x3x30x45x9H	134	145	235	38	430	220	380	20x26	12	350	42	830			
10	160	300	235	150	235	150	155	235	350	N140x3x30x45x9H	134	155	235	38	470	240	420	22x26	12	350	45	960			
11	170	300	270	165	270	165	170	270	400	N170x5x30x32x9H	160	170	270	42	510	260	450	18x33	12	400	71	1335			
12	180	300	270	180	270	180	185	270	405	N170x5x30x32x9H	160	185	270	42	540	280	480	22x33	12	400	76	1615			

平行轴齿轮箱 Helical Gear Units 两级传动 Two Stage 卧式安装 Horizontal
 类型 TLH2.H TLH2.M Type TLH2.H TLH2.M 规格 13...22 Size 13...22



1) $m6 \leq \phi 100$ $n6 > \phi 100$

有关平键 GB/T 1095-2003 型和中心孔, 参见第 86 页。For parallel key GB/T 1095-2003 and for centre hole, see page 86

2) 键槽 GB/T 1095-2003。Keyway GB/T 1095-2003.

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

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

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

平行轴齿轮箱 Helical Gear Units 两级传动 Two Stage 卧式安装 Horizontal
 类型 TLH2.H, TLH2.M Type TLH2.H, TLH2.M 规格 13...22 Size 13...22

规格 Size	尺寸 mm Dimensions in mm															5) 布置形式 Design G, H, I 仅用于 Only for i=					
	输入轴 Input																				
	i=6.3-11.2			i=7.1-12.5			i=8-14			i=12.5-20			i=14-22.4					i=16-25			G ₁
d ₁	l ₁	l ₂	d ₁	l ₁	l ₂	d ₁	l ₁	l ₂	d ₁	l ₁	l ₂	d ₁	l ₁	l ₂	d ₁	l ₁	l ₂				
13	100	205	170							85	170	135							330	365	6.3-16
14							100	205	170							85	170	135	330	365	
15	120	210	165							100	210	165							365	410	6.3-16
16				120	210	165							100	210	165				365	410	
17	125	245	200							110	210	165							420	465	6.3-16
18				125	245	200							110	210	165				420	465	
19	150	245	200							120	210	165							475	520	根据用户要求提供
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	

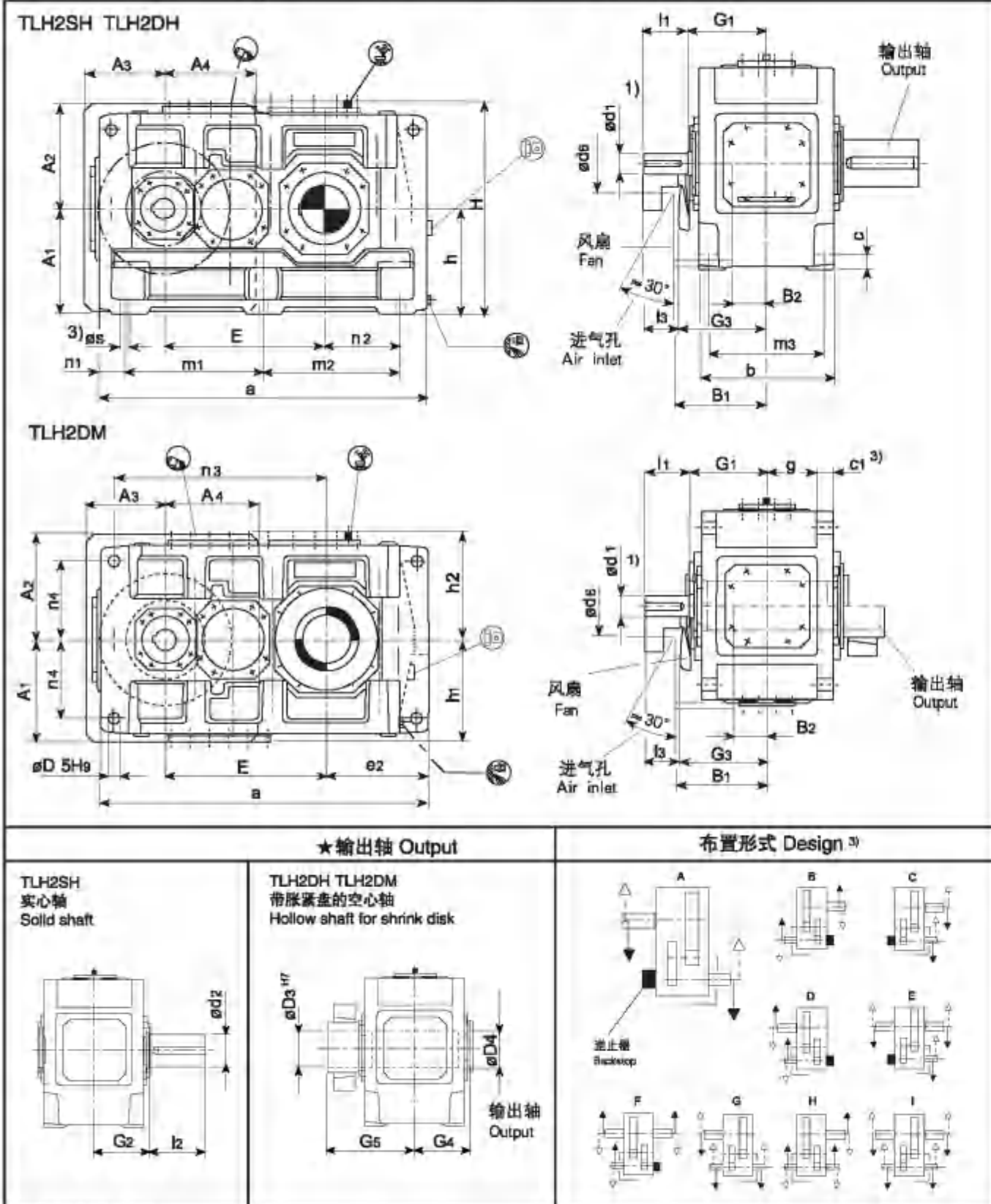
规格 Size	尺寸 mm Dimensions in mm													
	齿轮箱 Gear units													
	a	A ₁	A ₂	A ₃	A ₄	b	B ₁	B ₂	c	C ₁	d _a	D _a	e _a	E
13	1290	430	480	330	365	550	385	135	60	81 ± 2	250	48	405	635
14	1430	430	460	330	365	550	385	135	60	81 ± 2	250	48	475	705
15	1550	490	500	370	440	625	430	155	70	72 ± 2	280	55	485	762
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	190	90	91 ± 2	310	65	590	997
20	2130	600	600	500	450	790	540	190	90	91 ± 2	310	65	650	1067
21	2140	680	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 units													
	g	h	h ₁	h ₂	H	m ₁	m ₂	m ₃	n ₁	n ₂	n ₃	n ₄	n ₅	s
13	211.5	440	450	460	900	545	545	475	100	305	835	340	360	35
14	211.5	440	450	460	900	545	685	475	100	375	905	340	430	35
15	238	500	490	500	1000	655	655	535	120	365	1005	375	430	42
16	238	500	490	500	1000	655	745	535	120	410	1050	375	475	42
17	259	550	555	560	1110	735	735	600	135	380	1145	425	465	42
18	259	550	555	560	1110	735	855	600	135	450	1205	425	525	42
19	299	620	615	620	1240	850	850	680	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	TLH2SH			TLH2HH TLH2HM		TLH2DH TLH2DM,			TLH2KH, TLH2KM					TLH2FH, TLH2FM							润滑油 Oil		重量 Weight							
																					TLH2.H TLH2.M									
	d1	l1	G2	D2	G4	D2	D3	G4	G6	N/DIN5480					D2	D3	G4	e	d2	D2	ka	nxs	t	G7	轴封 Shaft seal (l)	TLH2.H (kg)	TLH2.M (kg)			
13	200	350	335	190	335	190	195	335	480	N190x5x30x36x9H					180	195	335	48	580	310	550	20x33	14	480	135	110	2000	1880		
14	210	350	335	210	335	210	215	335	480	N190x5x30x36x9H					180	215	335	48	620	310	540	24x33	14	480	140	115	2570	2430		
15	230	410	380	230	380	230	235	380	550	N220x5x30x42x9H					210	235	380	55	710	360	630	28x33	17	550	210	160	3430	3240		
16	240	410	380	240	380	240	245	380	550	N220x5x30x42x9H					210	245	380	55	740	360	660	30x33	17	550	215	165	3655	3465		
17	250	410	415	250	415	250	260	415	600	N250x5x30x48x9H					240	260	415	60	750	410	660	24x39	18	600	290	230	4660	4420		
18	270	470	415	275	415	280	285	415	600	N250x5x30x48x9H					240	285	415	60	800	410	710	26x39	18	600	300	240	5125	4870		
19	290	470	465	-	-	285	285	465	670											65	860	460	770	30x39	18	670	320	300	6600	6300
20	300	500	465	-	-	310	315	465	670											65	930	480	830	32x39	18	670	340	320	7500	7200
21	320	500	490	-	-	330	335	490	715						敬請垂詢 On request					75	850	520	850	28x45	20	710	320	350	8900	8400
22	340	550	490	-	-	340	345	490	725											75	1040	520	940	28x45	20	710	340	370	9600	9200

敬请垂询 On request

平行轴齿轮箱 Helical Gear Units 两级传动 Two Stage 卧式安装 Horizontal
 类型TLH2.H TLH2.M Type TLH2.H TLH2.M 规格23...26 Size 23...26



1) $m6 \leq \phi 100$ $n6 > \phi 100$
 有关平键GB/T1095-2003型和中心孔, 参见第86页。For parallel key GB/T 1095-2003 and for centre hole, see page 86
 2) 键槽GB/T1095-2003。Keyway GB/T 1095-2003。
 3) 扭力支撑位于工作机侧。Torque support on driven machine side.

平行轴齿轮箱 Helical Gear Units 两级传动 Two Stage 卧式安装 Horizontal
 类型TLH2.H TLH2.M Type TLH2.H TLH2.M 规格23...26 Size 23...26

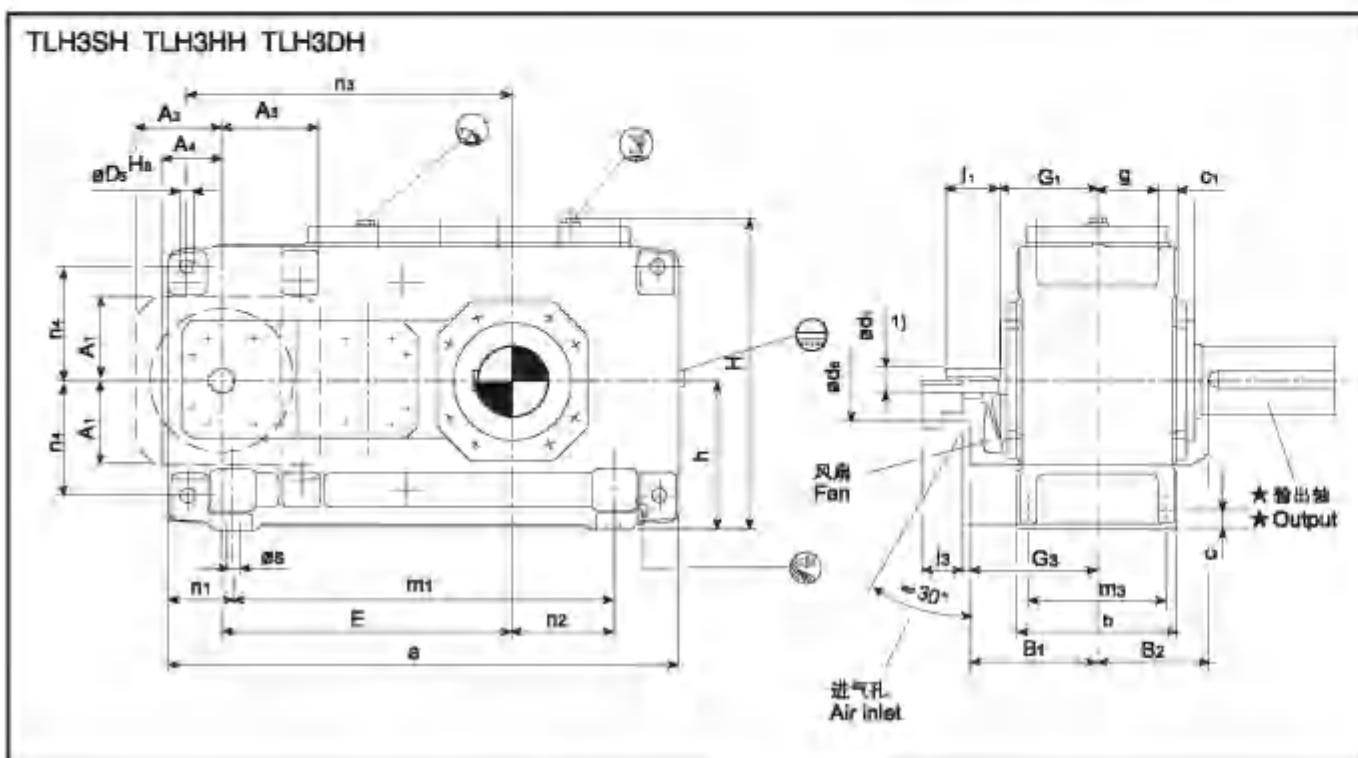
规格 Size	尺寸mm Dimensions in mm													
	输入轴 Input													
	i=6.3-11.2			i=7.1-12.5			i=12.5-20			i=14-22.4			G ₁	G ₂
	d ₁ ¹⁾	l ₁	l ₂	d ₁ ¹⁾	l ₁	l ₂	d ₁ ¹⁾	l ₁	l ₂	d ₁ ¹⁾	l ₁	l ₂		
23	190	330	280				150	250	200				560	610
24				190	330	280				150	250	200	560	610
25	200	340	290				170	300	250				600	650
26				200	340	290				170	300	250	600	650

规格 Size	尺寸mm Dimensions in mm													
	齿轮箱 Gear units													
	a	A ₁	A ₂	A ₃	A ₄	b	B ₁	B ₂	c	C ₁	d _e	D _e	e ₂	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

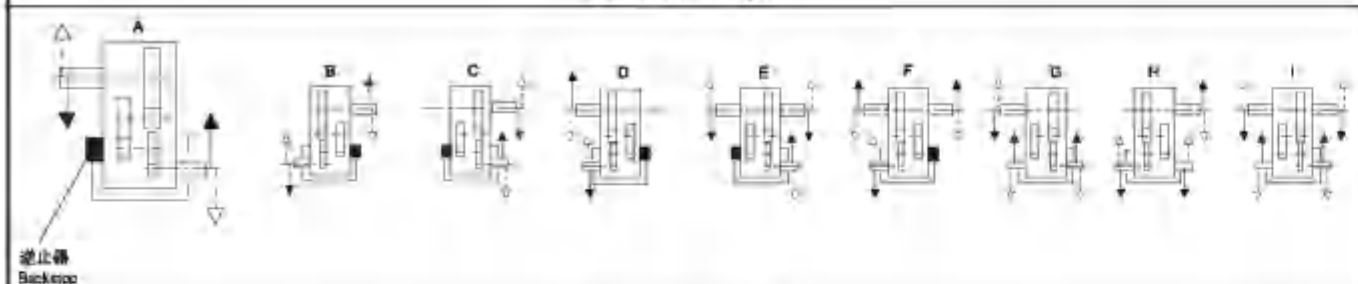
规格 Size	尺寸mm Dimensions in mm													
	齿轮箱 Gear units													
	g	h	h ₁	h ₂	H	m ₁	m ₂	m ₃	n ₁	n ₂	n ₃	n ₄	s	
23	342	780	770	770	1550	1010	1010	810	180	550	1560	580	56	
24	342	780	770	770	1550	1010	1140	810	180	615	1625	580	56	
25	400	860	860	860	1720	1090	1090	910	200	590	1685	660	66	
26	400	860	860	860	1720	1090	1270	910	200	680	1775	660	66	

规格 Size	尺寸mm Dimensions in mm							润滑油 Oil		重量 Weight	
	输出轴 Output							TLH2.H	TLH2.M	TLH2.H	TLH2.M
	d ₂ ¹⁾	G ₂	l ₂	D ₂	D ₄	G ₄	G ₅				
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

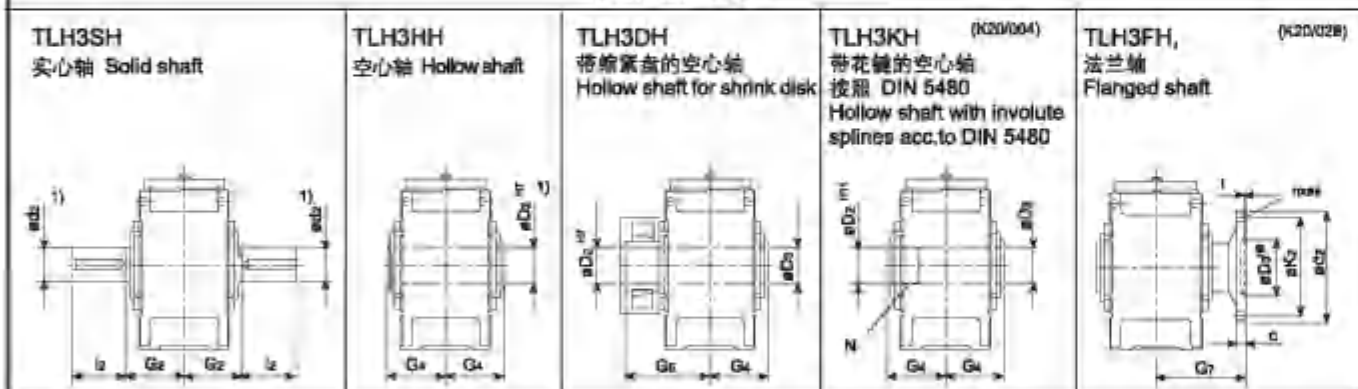
平行轴齿轮箱 Helical Gear Units 三级传动 Three Stage 卧式安装 Horizontal
 类型 TLH3.H Type TLH3.H 规格 5...12 Size 5...12



布置形式 Design 3)



★输出轴 Output



1) $m6 \leq \phi 100$ $n6 > \phi 100$

有关平键 GB/T1095-2003 型和中心孔, 参见第 86 页。For parallel key GB/T 1095-2003 and for centre hole, see page 86

2) 键槽 GB/T1095-2003. Keyway GB/T1095-2003.

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

平行轴齿轮箱 Helical Gear Units 三级传动 Three Stage 卧式安装 Horizontal
 类型 TLH3.H Type TLH3.H 规格 5...12 Size 5...12

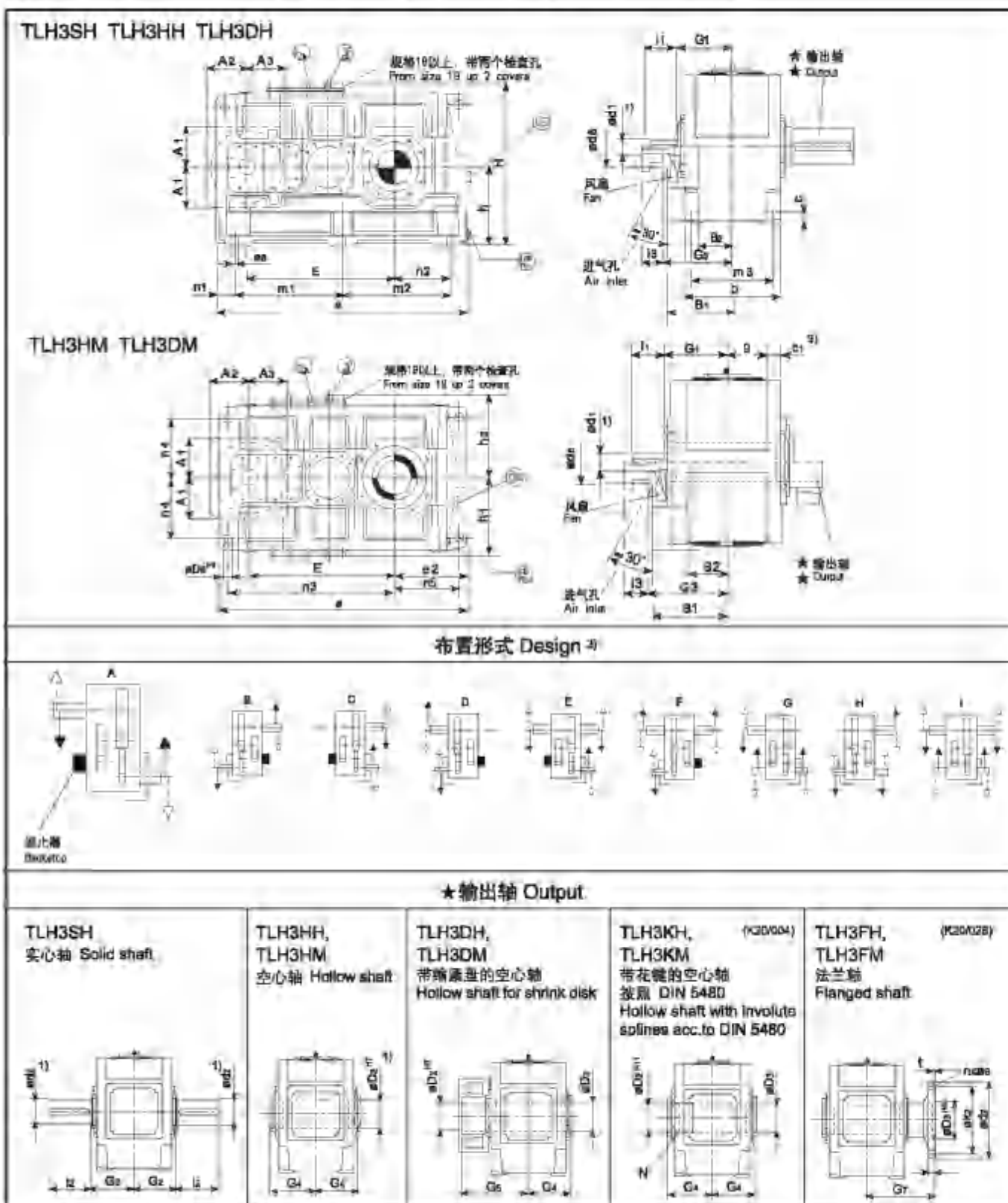
规格 Size	尺寸 mm Dimensions in mm																		4) 布置形式 Design G,H,I 仅用于 Only for i=			
	输入轴 Input																					
	i=25-45			i=31.5-56			i=50-63			i=63-80			i=71-90			i=90-112					G ₁	G ₂
	d ₁ ⁽¹⁾	l ₁	l ₂	d ₁ ⁽¹⁾	l ₁	l ₂	d ₁ ⁽¹⁾	l ₁	l ₂	d ₁ ⁽¹⁾	l ₁	l ₂	d ₁ ⁽¹⁾	l ₁	l ₂	d ₁ ⁽¹⁾	l ₁	l ₂				
5	40	70	70				30	50	50				24	40	40				160	220	25-90	
6				40	70	70				30	50	50				24	40	40	160	220	31.5-112	
7	45	80	80				35	60	60				28	50	50				185	250	25-90	
8				45	80	80				35	60	60				28	50	50	185	250	31.5-112	
9	60	125	105				45	100	80				32	80	60				230	300	25-90	
10				60	125	105				45	100	80				32	80	60	230	300	31.5-112	
11	70	120	120				50	80	80				42	70	70				255	330	25-90	
12				70	120	120				50	80	80				42	70	70	255	330	31.5-112	

规格 Size	尺寸 mm Dimensions in mm											
	齿轮箱 Gear units											
	a	A ₁	A ₂	A ₃	A ₄	b	B ₁	B ₂	c	C ₁	d ₆	D ₅
5	690	137	135	140	85	255	215	175	28	30±1	60	24
6	770	137	135	140	85	255	215	175	28	30±1	60	24
7	845	157	160	180	105	300	245	205	35	36±1	75	28
8	950	157	160	180	105	300	245	205	35	36±1	75	28
9	1000	187	190	205	125	370	295	240	40	45±1.5	90	36
10	1100	187	190	205	125	370	295	240	40	45±1.5	90	36
11	1200	218	220	255	155	430	325	280	50	54±1.5	100	40
12	1355	218	220	255	155	430	325	280	50	54±1.5	100	40

规格 Size	尺寸 mm Dimensions in mm										
	齿轮箱 Gear units										
	E	g	h	H	m ₁	m ₂	n ₁	n ₂	n ₃	n ₄	s
5	405	97.5	230	482	480	220	105	100	455	180	19
6	440	97.5	230	482	560	220	105	145	490	180	19
7	495	114	280	572	605	260	120	130	560	215	24
8	540	114	280	582	710	260	120	180	605	215	24
9	580	140	320	662	710	320	145	155	660	245	28
10	630	140	320	662	810	320	145	205	710	245	28
11	705	161	380	782	870	370	165	180	805	300	35
12	775	161	380	790	1025	370	165	265	875	300	35

规格 Size	TLH3SH			TLH3HH		TLH3DH				TLH3KH					TLH3FH							润滑油 Oil	重量 Weight (kg)
	d ₁	l ₂	G ₁	D ₂	G ₄	D ₃	D ₅	G ₆	G ₈	N/DIN5480	D ₂	D ₃	G ₄	c	d ₂	D ₅	k ₂	nxs	f	G ₇			
5	100	210	165	95	165	100	100	165	240	N95x3x30x30x9H	89	100	165	25	300	150	260	16x22	10	255	15	320	
6	110	210	165	105	165	110	110	165	240	N95x3x30x30x9H	89	110	165	25	320	160	280	18x22	10	255	17	365	
7	120	210	195	115	195	120	120	195	280	N120x3x30x30x9H	114	120	195	30	370	180	320	16x26	10	300	28	540	
8	130	250	195	125	195	130	130	195	285	N120x3x30x30x9H	114	130	195	30	390	190	340	18x26	10	300	30	625	
9	140	250	235	135	235	140	145	235	330	N140x3x30x45x9H	134	145	235	38	430	220	380	20x26	12	350	45	875	
10	160	300	235	150	235	150	155	235	350	N140x3x30x45x9H	134	155	235	38	470	240	420	22x26	12	350	46	1020	
11	170	300	270	185	270	165	170	270	400	N170x5x30x32x9H	160	170	270	42	510	260	450	18x33	12	400	85	1400	
12	180	300	270	180	270	180	185	270	405	N170x5x30x32x9H	160	185	270	42	540	280	480	22x33	12	400	90	1675	

平行轴齿轮箱 Helical Gear Units 三级传动 Three Stage 卧式安装 Horizontal
 类型TLH3.H, TLH3.M Type TLH3.H, TLH3.M 规格13...22 Size 13...22



- 1) $m8 \leq \phi 100$, $n6 > \phi 100$
 有关平键GB/T1095-2003型和中心孔, 参见第86页。For parallel key GB/T 1095-2003 and for centre hole, see page 86
 2) 键槽GB/T1095-2003, Keyway GB/T1095-2003.
 3) 扭力支撑位于工作机侧。Torque support on driven machine side.
 4) 防止器不能与布置形式G,H和I组合。

平行轴齿轮箱 Helical Gear Units 三级传动 Three Stage 卧式安装 Horizontal
 类型TLH3.H, TLH3.M Type TLH3.H, TLH3.M 规格13...22 Size 13...22

规格 Size	尺寸mm Dimensions in mm																				
	输入轴 Input																				
	in=22.4-45			in=25-50 (in=28-56*)			in=50-83			in=56-71 (in=63-80*)			in=71-90			in=80-100 (in=90-112*)			G ₁	G ₂	布置形式Design G,H,I 仅用于Only for in=
	d ₁ (1)	l ₁	l ₂	d ₁ (1)	l ₁	l ₂	d ₁ (1)	l ₁	l ₂	d ₁ (1)	l ₁	l ₂	d ₁ (1)	l ₁	l ₂	d ₁ (1)	l ₁	l ₂			
13	85	180	130				60	135	105				50	110	80				310	385	22.4-90
14				85	180	130				60	135	105				50	110	80	310	385	28-112
15	100	200	185				75	140	105				60	140	105				350	420	22.4-90
16				100	200	165				75	140	105				60	140	105	350	420	25-100
17	100	200	185				75	140	105				60	140	105				380	450	22.4-90
18				100	200	165				75	140	105				60	140	105	380	450	25-100
19	110	200	4)				90	165	4)				75	140	4)				430	4)	4)
20				110	200	4)				90	165	4)				75	140	4)	430	4)	4)
21	130	240	4)				110	205	4)				80	170	4)				470	4)	4)
22				130	240	4)				110	205	4)				90	170	4)	470	4)	4)

* 仅指规格14号齿轮箱 Only size 14

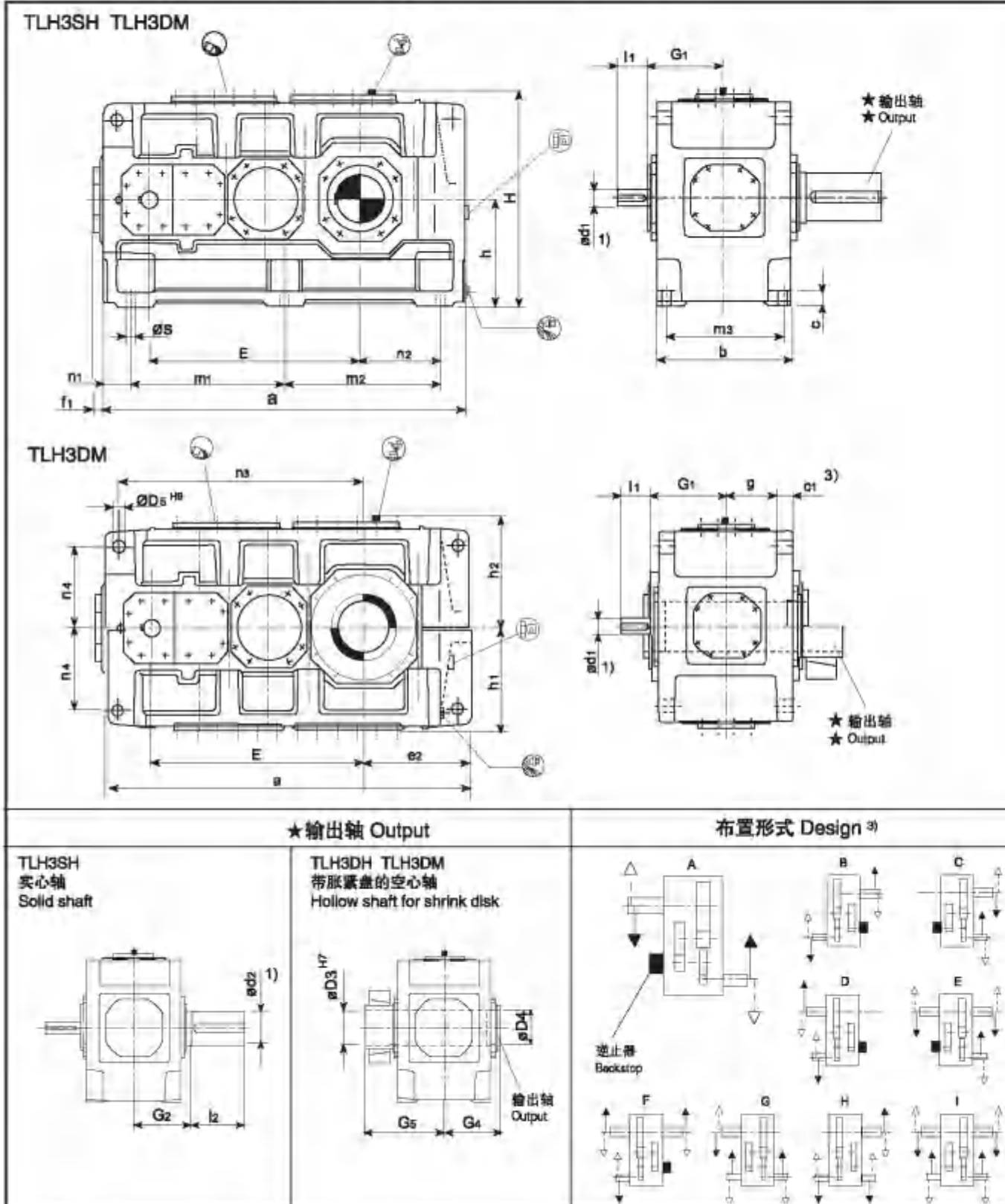
规格 Size	尺寸mm Dimensions in mm													
	齿轮箱 Gear units													
	s	A ₁	A ₂	A ₃	b	B ₁	B ₂	c	C ₁	d ₆	D ₆	e ₆	E	
13	1395	225	225	212	550	380	195	60	61±2	120	48	405	820	
14	1535	225	225	212	550	380	195	60	61±2	120	48	475	890	
15	1680	270	265	252	625	415	205	70	72±2	150	55	485	987	
16	1770	270	265	252	625	415	205	70	72±2	150	55	530	1033	
17	1770	270	265	252	690	455	235	80	81±2	150	55	525	1035	
18	1890	270	265	252	690	455	235	80	81±2	150	55	585	1095	
19	2030				790			90	91±2		65	590	1190	
20	2150				790			90	91±2		65	650	1250	
21	2340	4)	4)	4)	830	4)	4)	100	100±2	4)	75	655	1387	
22	2450				830			100	100±2		75	710	1442	

规格 Size	尺寸mm Dimensions in mm													
	齿轮箱 Gear units													
	g	h	h ₁	h ₂	H	m ₁	m ₂	m ₃	m ₄	n ₂	n ₃	n ₄	n ₅	s
13	211.5	440	450	480	900	597.5	597.5	475	100	305	940	340	380	35
14	211.5	440	450	480	900	597.5	737.5	475	100	375	1010	340	430	35
15	238	500	480	500	1000	720	720	535	120	365	1135	375	430	42
16	238	500	480	500	1000	720	810	535	120	410	1180	375	475	42
17	259	550	555	580	1110	750	750	600	135	390	1175	425	465	42
18	259	550	555	580	1110	750	870	600	135	450	1235	425	525	42
19	299	620	615	620	1240	860	880	690	155	435	1365	475		48
20	299	620	615	620	1240	860	980	690	155	495	1425	475		48
21	310	700	685	690	1390	1000	1000	720	170	485	1600	520		56
22	310	700	685	690	1390	1000	1110	720	170	540	1855	520		56

规格 Size	TLH3SH			TLH3HH TLH3HM			TLH3DH TLH3DM			TLH3KH, TLH3KM					TLH3FH, TLH3FM							润滑油 Oil		重量 Weight	
																						TLH3H	TLH3M	TLH3H (kg)	TLH3M (kg)
	d1	l2	G2	D2	G4	D2	D3	G4	G5	N/DIN5480	D2	D3	G4	c	d2	D3	k2	nxs	i	G7	(l)	(l)			
13	200	350	335	190	335	190	195	335	480	N190x5x30x36x9H	180	195	335	48	580	310	500	20x33	14	480	160	125	2295	2155	
14	210	350	335	210	335	210	215	335	480	N190x5x30x36x9H	180	215	335	48	620	310	540	24x33	14	480	165	130	2825	2490	
15	230	410	380	230	380	230	235	380	550	N220x5x30x42x9H	210	235	380	55	710	360	630	28x33	17	550	235	190	3475	3260	
16	240	410	380	240	380	240	245	380	550	N220x5x30x42x9H	210	245	380	55	740	360	660	30x33	17	550	245	195	3875	3825	
17	250	410	415	250	415	250	260	415	600	N250x5x30x48x9H	240	260	415	60	750	410	660	24x39	18	600	305	240	4560	4250	
18	270	470	415	275	415	280	285	415	600	N250x5x30x48x9H	240	285	415	60	800	410	710	26x39	18	600	315	250	5030	4740	
19	290	470	465	-	-	285	295	465	670	敬请垂询 On request	265	295	465	670	860	460	770	30x39	18	670	420	390	6700	6200	
20	300	500	465	-	-	310	315	465	670		265	315	465	670	930	460	830	32x39	18	670	450	415	8100	7600	
21	320	500	490	-	-	330	335	490	715		265	335	490	715	950	520	850	28x45	20	710	470	515	9100	8500	
22	340	550	490	-	-	340	345	490	725		265	345	490	725	1040	520	940	28x45	20	710	490	540	9800	9300	

4) 根据用户要求供货 On request

平行轴齿轮箱 Helical Gear Units 三级传动 Three Stage 卧式安装 Horizontal
 类型TLH3.H, TLH3.M Type TLH3.H, TLH3.M 规格23...26 Size 23...26



1) $m6 \leq \phi 100$ $n6 > \phi 100$

有关平键GB/T1095-2003型和中心孔, 参见第86页。For parallel key GB/T 1095-2003 and for centre hole, see page 86

2) 键槽GB/T1095-2003。Keyway GB/T1095-2003。

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

平行轴齿轮箱 Helical Gear Units 三级传动 Three Stage 卧式安装 Horizontal
 类型TLH3.H, TLH3.M Type TLH3.H, TLH3.M 规格23...26 Size 23...26

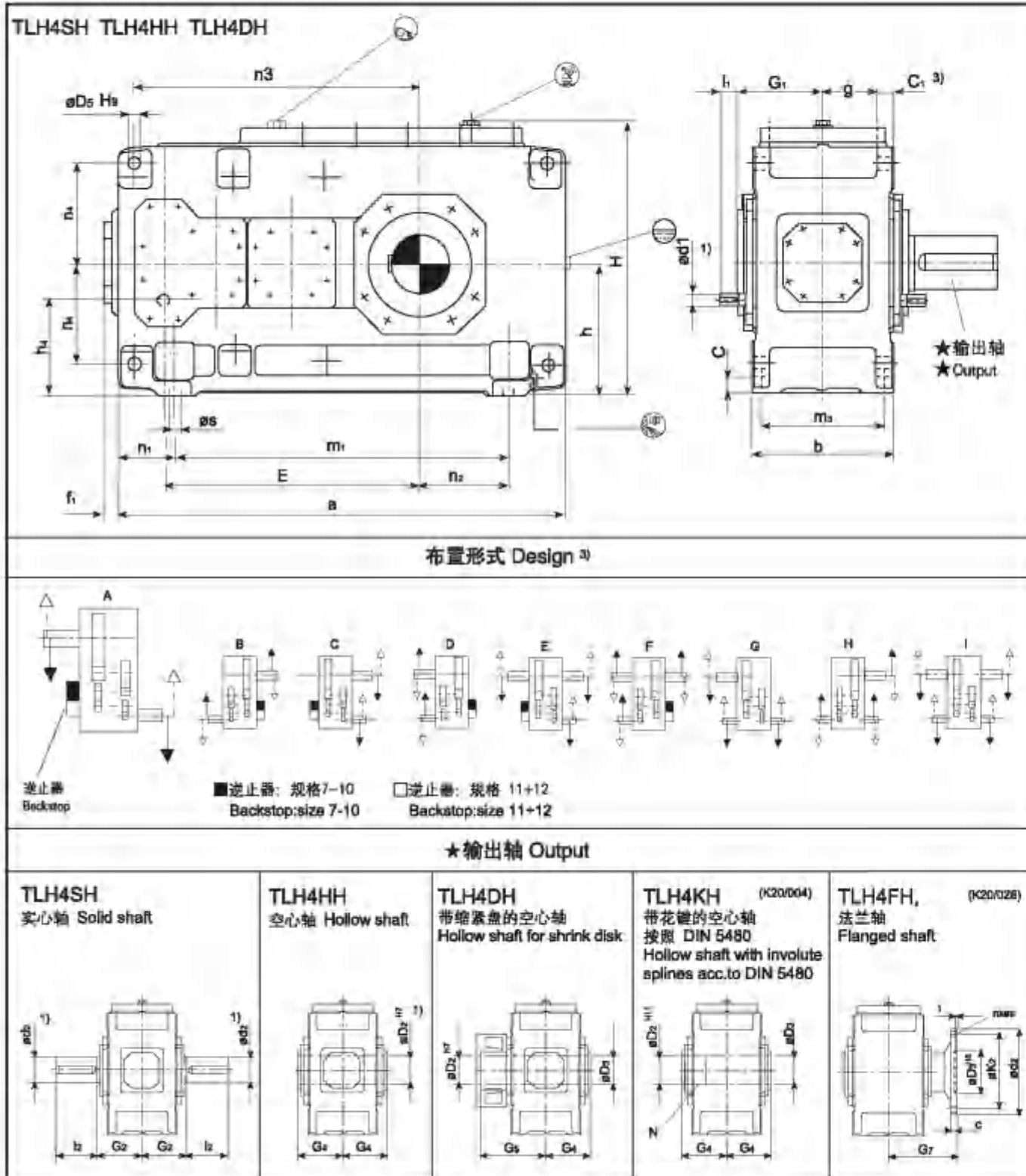
规格 Size	尺寸mm Dimensions in mm											
	输入轴 Input											
	in=22.4-45		in=25-50		in=50-63		in=56-71		in=71-90		in=80-100	
	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁
23	130	240			110	205			90	170		
24			130	240			110	205			90	170
25	150	245			130	245			100	210		
26			150	245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

规格 Size	尺寸mm Dimensions in mm											
	齿轮箱 Gear units											
	a	b	c	c ₁	D _h	a ₂	E	i ₁	g	h	h ₁	
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 units									
	h ₂	H	m ₁	m ₂	m ₃	n ₁	n ₂	n ₃	n ₄	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 Oil		重量 Weight	
	输出轴 Output								TLH3.H	TLH3.M	TLH3.H	TLH3.M
	D ₂ ¹⁾	G ₂	l ₂	D ₃	D ₄	G ₄	G ₅					
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 Units 四级传动 Four Stage 卧式安装 Horizontal
 类型TLH4.H Type TLH4.H 规格7...12 Size 7...12



1) $m6 \leq \phi 100$, $n6 > \phi 100$
 有关平键GB/T1095-2003型和中心孔, 参见第86页。For parallel key GB/T 1095-2003 and for centre hole, see page 86
 2) 键槽GB/T1095-2003。Keyway GB/T1095-2003。
 3) 扭力支撑位于工作机侧。Torque support on driven machine side。
 4) 逆止器不能与布置形式G,H和I组合。

平行轴齿轮箱 Helical Gear Units 四级传动 Four Stage 卧式安装 Horizontal
 类型TLH4.H Type TLH4.H 规格7...12 Size 7...12

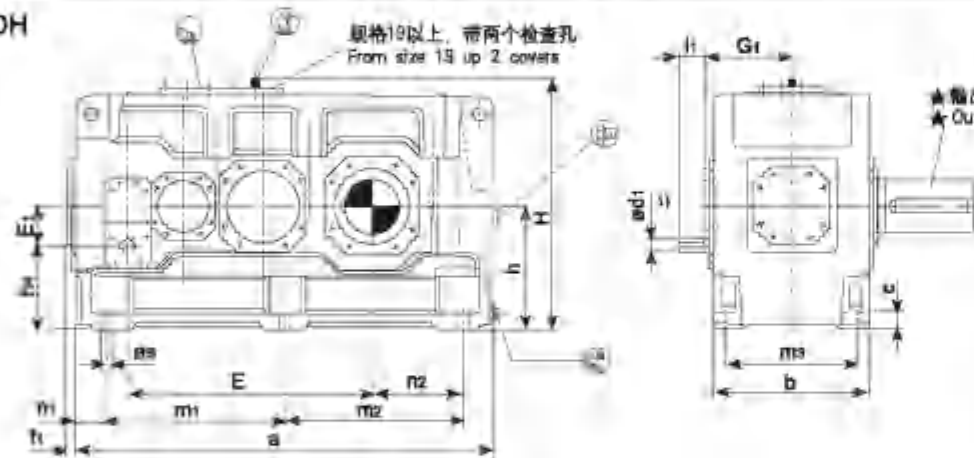
规格 Size	尺寸mm Dimensions in mm								4) 布置形式Design G,H,I 仅用于Only for iv=	
	输入轴 Input									
	iv=100-180		iv=125-224		iv=200-355		iv=250-450			G ₁
	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁		
7	30	50			24	40			180	100-224
8			30	50			24	40	180	125-280
9	35	60			28	50			215	100-250
10			35	60			28	50	215	125-315
11	45	100			32	80			250	100-250
12			45	100			32	80	250	125-315

规格 Size	尺寸mm Dimensions in mm																	
	齿轮箱 Gear units																	
	a	b	c	c ₁	D ₅	E	f ₁	g	h	h ₄	H	m ₁	m ₃	n ₁	n ₂	n ₃	n ₄	s
7	845	300	35	36±1	28	495	37	114	280	200	572	805	260	120	130	580	215	24
8	950	300	35	36±1	28	540	37	114	280	200	582	710	260	120	190	605	215	24
9	1000	370	40	45±1.5	36	580	43	140	320	230	662	710	320	145	155	660	245	28
10	1100	370	40	45±1.5	36	630	43	140	320	230	662	810	320	145	205	710	245	28
11	1200	430	50	54±1.5	40	705	47	161	380	270	782	870	370	165	180	805	300	35
12	1355	430	50	54±1.5	40	775	47	161	380	270	790	1025	370	165	265	875	300	35

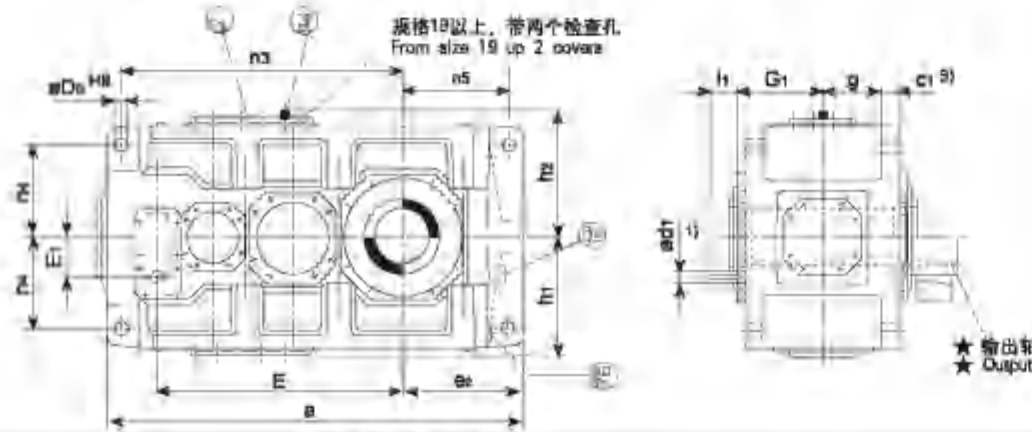
规格 Size	TLH4SH			TLH4HH			TLH4DH				TLH4KH				TLH4FH							润滑油 Oil	重量 Weight (kg)
	d ₂	l ₂	G ₂	D ₂	G ₄	D ₂	D ₃	G ₄	G ₅	N/DIN5480	D ₂	D ₃	G ₄	c	d ₂	D ₃	k ₂	nxs	t	G ₇			
7	120	210	195	115	195	120	120	195	280	N120x3x30x38x9H	114	120	195	30	370	180	320	16x26	10	300	25	550	
8	130	250	195	125	195	130	130	195	285	N120x3x30x38x9H	114	130	195	30	390	190	340	18x26	10	300	27	645	
9	140	250	235	135	235	140	145	235	330	N140x3x30x45x9H	134	145	235	38	430	220	380	20x26	12	350	48	875	
10	160	300	235	150	235	150	155	235	350	N140x3x30x45x9H	134	155	235	38	470	240	420	22x26	12	350	50	1010	
11	170	300	270	165	270	165	170	270	400	N170x5x30x32x9H	160	170	270	42	510	260	450	18x33	12	400	80	1460	
12	180	300	270	180	270	180	185	270	405	N170x5x30x32x9H	160	185	270	42	540	280	480	22x33	12	400	87	1725	

平行轴齿轮箱 Helical Gear Units 四级传动 Four Stage 卧式安装 Horizontal
 类型TLH4.H, TLH4.M Type TLH4.H, TLH4.M 规格13...22 Size 13...22

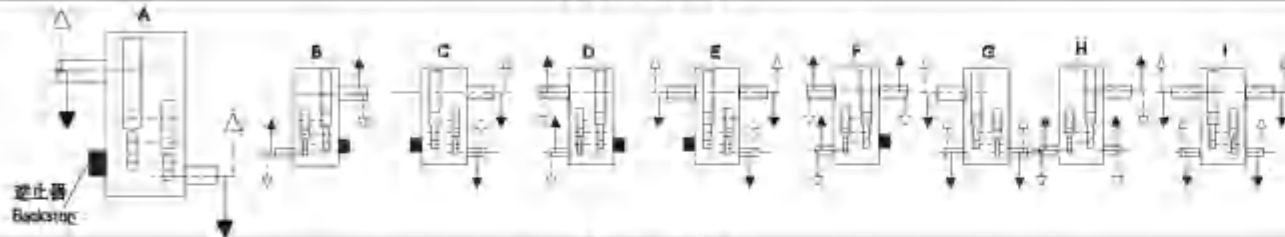
TLH4SH TLH4HH TLH4DH



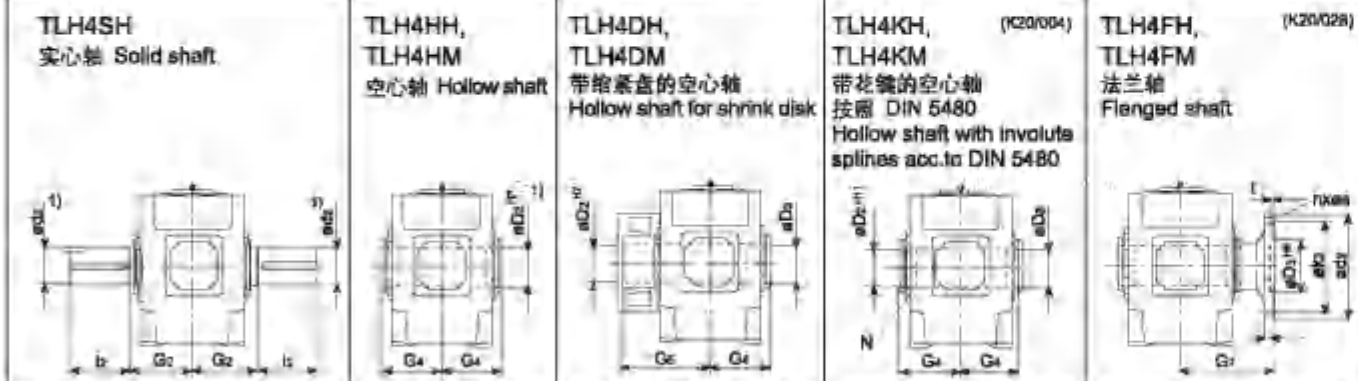
TLH4HM TLH4DM



布置形式 Design 3)



★输出轴 Output



- 1) $m6 \leq \phi 100$ $n6 > \phi 100$
 有关平键GB/T1095-2003型和中心孔, 参见第86页。For parallel key GB/T 1095-2003 and for centre hole, see page 86
 2) 键槽GB/T1095-2003。Keyway GB/T1095-2003
 3) 扭力支撑位于工作机侧。Torque support on driven machine side.
 4) 进止器不能与布置形式G,H和I组合。

平行轴齿轮箱 Helical Gear Units 四级传动 Four Stage 卧式安装 Horizontal
 类型TLH4.H, TLH4.M Type TLH4.H, TLH4.M 规格13...22 Size 13...22

规格 Size	尺寸mm Dimensions in mm												4) 布置形式 Design G,H,I 仅用于 Only for l _m	
	输入轴 Input													
	l _m =100-180		l _m =112-200		l _m =125-224		l _m =200-355		l _m =224-400		l _m =250-450			G ₁
d ₁ ⁽¹⁾	l ₁	d ₁ ⁽¹⁾	l ₁	d ₁ ⁽¹⁾	l ₁	d ₁ ⁽¹⁾	l ₁	d ₁ ⁽¹⁾	l ₁	d ₁ ⁽¹⁾	l ₁	d ₁ ⁽¹⁾	l ₁	
13	50	100					38	80					305	100-250
14					50	100					38	80	305	125-315
15	60	135					50	110					345	100-250
16			60	135					50	110			345	112-280
17	60	135					50	110					380	-
18			60	135					50	110			380	-
19	75	140					60	140					440	-
20			75	140					60	140			440	-
21	90	165					70	140					460	-
22			90	165					70	140			460	-

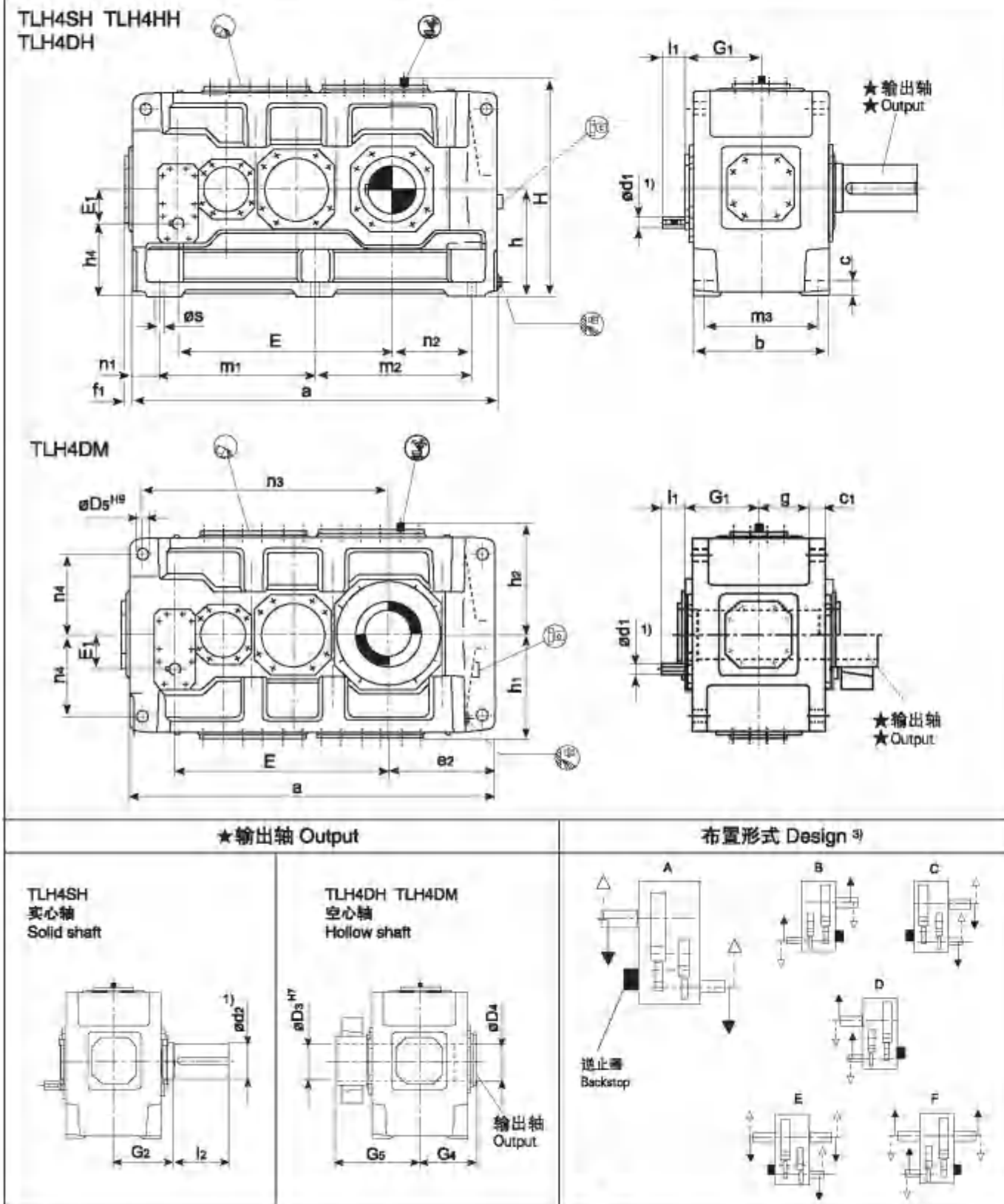
规格 Size	尺寸mm Dimensions in mm											
	齿轮箱 Gear units											
	a	b	c	d1	De	Be	E	E1	f1	g	h	
13	1395	550	60	61±2	48	405	820	130	47	211.5	440	
14	1535	550	60	61±2	48	475	890	130	47	211.5	440	
15	1680	625	70	72±2	55	485	987	160	56	238	500	
16	1770	625	70	72±2	55	530	1033	160	56	238	500	
17	1770	690	60	81±2	55	525	1035	160	53	259	550	
18	1890	690	80	81±2	55	585	1095	160	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 units												
	h1	h2	h3	H	m1	m2	m3	n1	n2	n3	n4	n5	s
13	450	460	310	900	597.5	597.5	475	100	305	940	340	360	35
14	450	460	310	900	597.5	737.5	475	100	375	1010	340	430	35
15	490	500	340	1000	720	720	535	120	365	1135	375	430	42
16	490	500	340	1000	720	810	535	120	410	1180	375	475	42
17	555	560	390	1110	750	750	600	135	390	1175	425	465	42
18	555	560	390	1110	750	870	600	135	450	1235	425	525	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	1600	520		56
22	685	690	475	1390	1000	1110	720	170	540	1655	520		56

规格 Size	TLH4SH			TLH4HH TLH4HM		TLH4DH TLH4DM,				TLH4KH,TLH4KM				TLH4FH,TLH4FM							润滑油 Oil		重量 Weight												
																					TLH4.H	TLH4.M													
	d2	p	G2	D2	G4	D2	D3	G4	G5	N/DIN5480	D2	D3	G4	p	d2	D2	k2	m2	t	G2	(l)	(l)	TLH4.H (kg)	TLH4.M (kg)											
13	200	350	335	190	335	190	195	335	480	N190x5x30x36x9H	180	195	335	48	580	310	550	20x33	14	480	130	120	2380	2270											
14	210	350	335	210	335	210	215	335	480	N190x5x30x36x9H	180	215	335	48	620	310	540	24x33	14	480	140	125	2730	2600											
15	230	410	380	230	380	230	235	380	550	N220x5x30x42x9H	210	235	380	55	710	360	630	28x33	17	550	230	170	3635	3440											
16	240	410	380	240	380	240	245	380	550	N220x5x30x42x9H	210	245	380	55	740	360	660	30x33	17	550	235	175	3965	3740											
17	250	410	415	250	415	250	260	415	600	N250x5x30x48x9H	240	260	415	60	750	410	660	24x39	18	600	290	225	4680	4445											
18	270	470	415	275	415	280	285	415	600	N250x5x30x48x9H	240	285	415	60	800	410	710	26x39	18	600	305	230	5185	4915											
19	290	470	465	-	-	285	295	465	670	敬请垂询 On request															65	880	460	770	30x39	18	670	360	310	6800	6300
20	300	500	465	-	-	310	315	465	670																65	930	460	830	32x39	18	670	380	330	8200	7700
21	320	500	490	-	-	330	335	490	715																75	950	520	850	28x45	20	710	395	430	9200	8600
22	340	550	490	-	-	340	345	490	725																75	1040	520	940	28x45	20	710	420	450	9900	9400

敬请垂询 On request

平行轴齿轮箱 Helical Gear Units 四级传动 Four Stage 卧式安装 Horizontal
 类型TLH4.H, TLH4.M Type TLH4.H, TLH4.M 规格23...26 Size 23...26



1) $m6 \leq \phi 100$ $n6 > \phi 100$

有关平键GB/T1095-2003型和中心孔, 参见第86页。For parallel key GB/T 1095-2003 and for centre hole, see page 86

2) 键槽GB/T1095-2003。Keyway GB/T1095-2003.

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

平行轴齿轮箱 Helical Gear Units 四级传动 Four Stage 卧式安装 Horizontal
 类型TLH4.H, TLH4.M Type TLH4.H, TLH4.M 规格23...26 Size 23...26

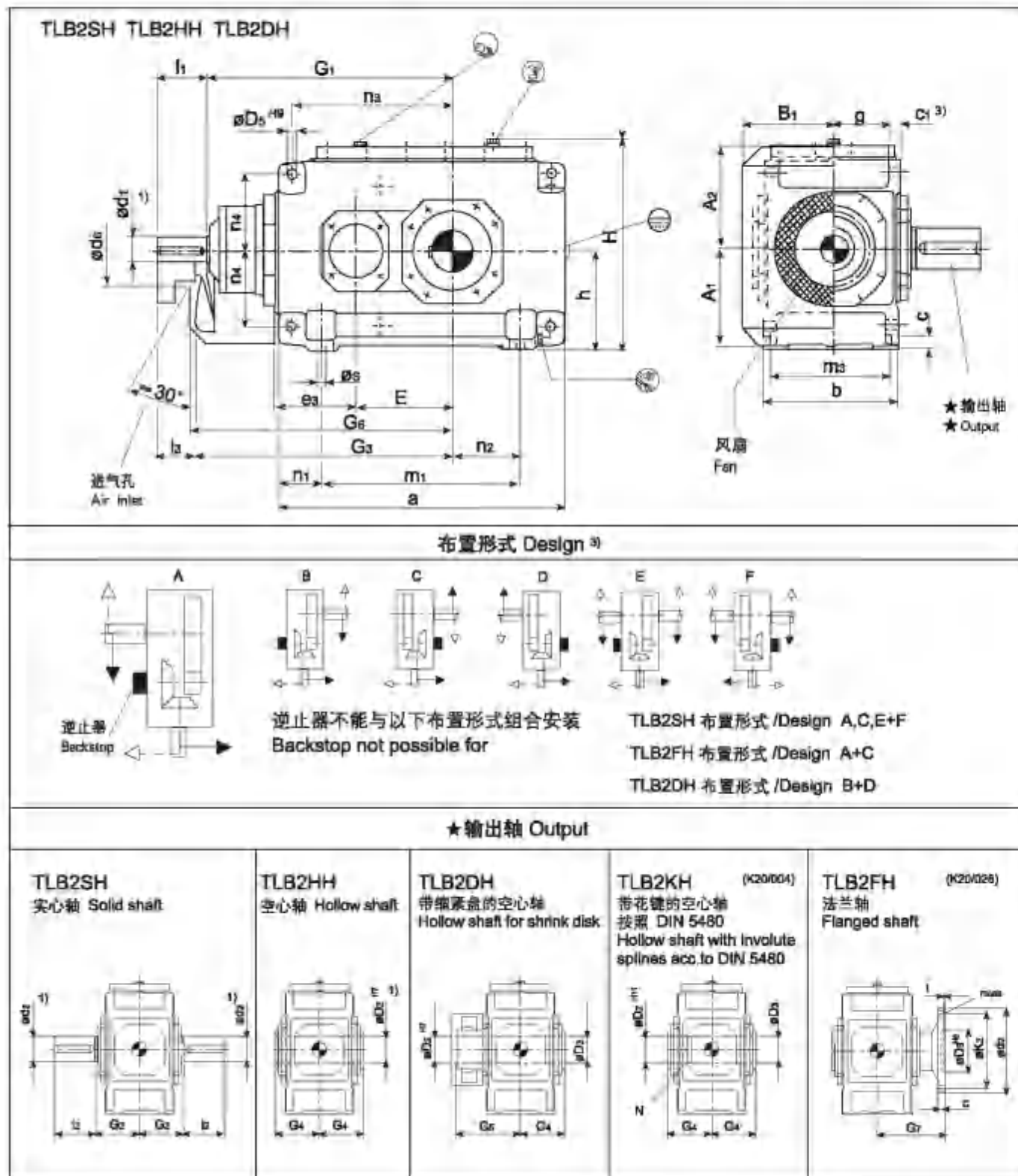
规格 Size	尺寸mm Dimensions in mm							
	输入轴 Input							
	$i_n=100-180$		$i_n=112-200$		$i_n=200-355$		$i_n=224-400$	
	$d_1^{(1)}$	l_1	$d_1^{(1)}$	l_1	$d_1^{(1)}$	l_1	$d_1^{(1)}$	l_1
23	90	165			70	140		
24			90	165			70	140
25	100	205			85	170		
26			100	205			85	170
								G_1
								505
								505
								565
								565

规格 Size	尺寸mm Dimensions in mm										
	齿轮箱 Gear units										
	a	b	c	c_1	D_s	e_2	E	E_1	f_1	g	h_1
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	265	65	400	860

规格 Size	尺寸mm Dimensions in mm											
	齿轮箱 Gear units											
	h_1	h_2	h_4	H	m_1	m_2	m_3	n_1	n_2	n_3	n_4	s
23	770	790	555	1570	1085	1085	810	180	550	1725	580	56
24	770	790	555	1570	1085	1215	810	180	615	1790	580	56
25	860	860	595	1720	1215	1215	910	200	590	1965	660	66
26	860	860	595	1720	1215	1395	910	200	680	2055	660	66

规格 Size	尺寸mm Dimensions in mm							润滑油 Oil		重量 Weight	
	输出轴 Output							TLH4.H	TLH4.M	TLH4.H	TLH4.M
	$D_2^{(1)}$	G_2	l_2	D_3	D_4	G_4	G_5				
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

直交轴齿轮箱 Bevel-Helical Gear Units 二级传动 Two Stage 卧式安装 Horizontal
类型TLB2.H Type TLB2H 规格4...12 Size 4...12



1) $m6 \leq \phi 100$, $n6 > \phi 100$

有关平键GB/T1095-2003型和中心孔, 参见第86页。For parallel key GB/T 1095-2003 and for centre hole, see page 86

2) 键槽GB/T1095-2003。Keyway GB/T1095-2003.

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

直交轴齿轮箱 Bevel-Helical Gear Units 二级传动 Two Stage 卧式安装 Horizontal
类型TLB2.H Type TLB2H 规格4...12 Size 4...12

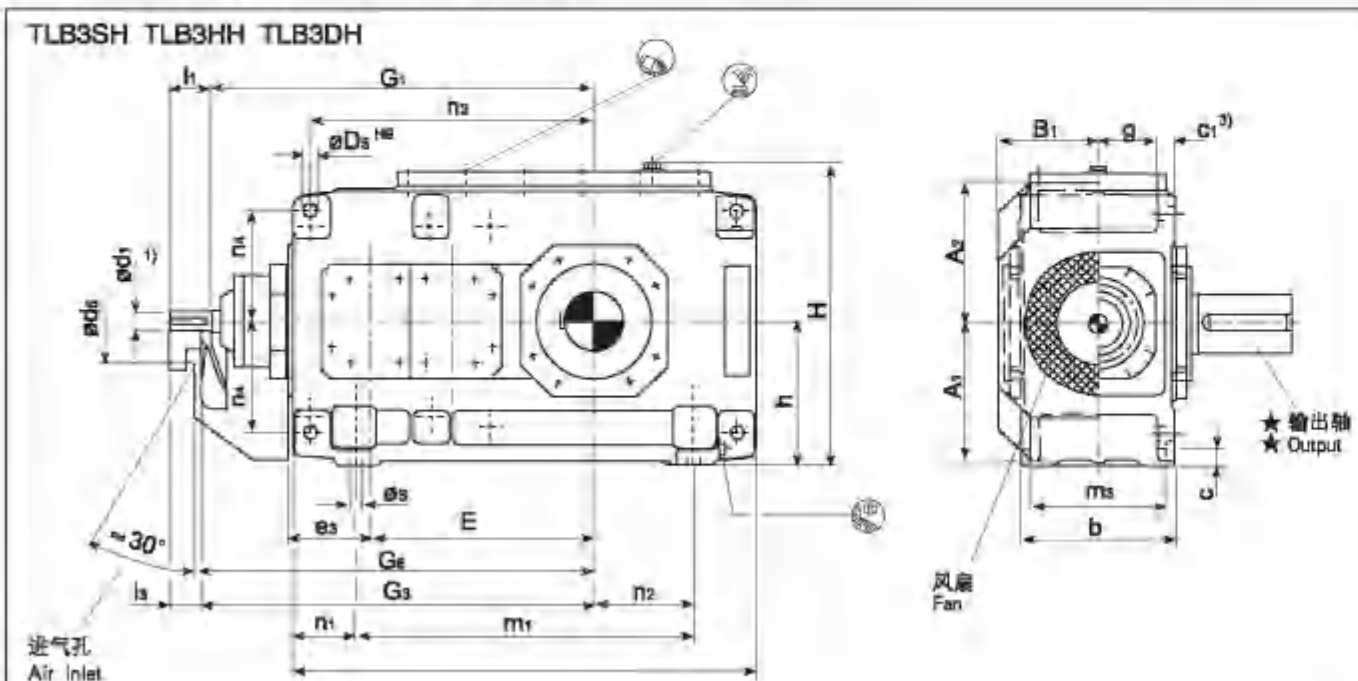
规格 Size	尺寸mm Dimensions in mm									
	输入轴 Input									
	in=5-11.2			in=6.3-14						
	d ₁ ¹⁾	l ₁	l ₂	d ₁ ¹⁾	l ₁	l ₂	d ₁ ¹⁾	l ₁	l ₂	G ₁
4	45	100	80							465
5	55	110	80							535
6				55	110	80				570
7	70	135	105							640
8				70	135	105				685
9	80	165	130							755
10				80	165	130				805
11	90	165	130							925
12				90	165	130				995

规格 Size	尺寸mm Dimensions in mm											
	齿轮箱 Gear units											
	a	A ₁	A ₂	b	B ₁	c	c ₁	D _e	d _e	e ₁	E	g
4	505	195	200	270	188	28	30 ± 1	24	150	160	160	105
5	565	220	230	320	215	28	30 ± 1	24	160	185	185	130
6	645	220	230	320	215	28	30 ± 1	24	160	185	220	130
7	690	270	285	380	250	35	36 ± 1	28	210	225	225	154
8	795	270	285	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	385	530	326	50	54 ± 1.5	40	210	320	320	211
12	1130	370	385	530	326	50	54 ± 1.5	40	210	320	390	211

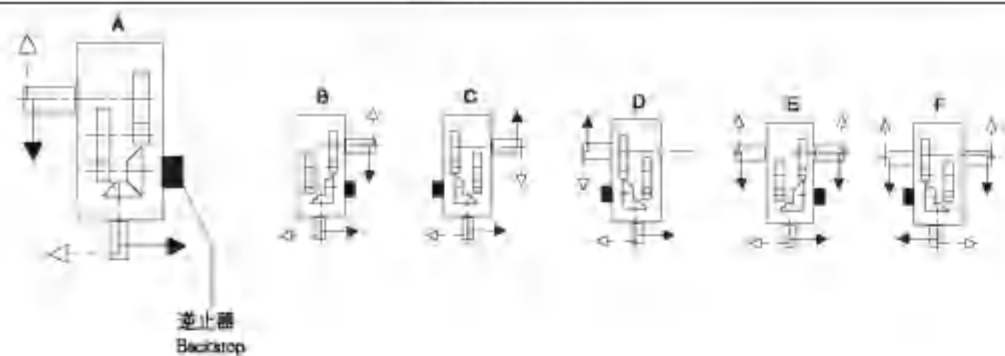
规格 Size	尺寸mm Dimensions in mm											
	齿轮箱 Gear units											
	G ₁	h	h _e	H	m ₁	m ₂	m ₃	n ₁	n ₂	n ₃	n ₄	a
4	495	200	80	415	295	235	105	85	265	150	19	19
5	575	230	150	482	355	285	105	100	330	180	19	19
6	610	230	150	482	435	285	105	145	365	180	19	19
7	685	280	180	582	450	340	120	130	405	215	24	24
8	730	280	190	582	555	340	120	180	450	215	24	24
9	805	320	205	662	530	390	145	155	480	245	28	28
10	855	320	215	662	630	390	145	205	530	245	28	28
11	960	380	240	790	645	470	165	180	580	300	35	35
12	1050	380	250	790	800	470	165	265	650	300	35	35

规格 Size	TLB2SH			TLB2HH			TLB2DH			TLB2KH				TLB2FH							润滑油 Oil	重量 Weight (kg)
	d ₁	l ₁	G ₁	D ₁	G ₂	D ₂	D ₃	G ₃	G ₄	N/DIN5480	D _e	D _s	G ₄	c	d ₂	D ₃	k ₂	r ₁ x ₂	t	G ₇		
4	80	170	170	80	170	85	85	170	235	-	-	-	-	-	-	-	-	-	-	-	10	235
5	100	210	200	95	200	100	100	200	275	N95x3x30x30x9H	89	100	200	25	300	150	260	16x22	10	290	16	360
6	110	210	200	105	200	110	110	200	275	N95x3x30x30x9H	89	110	200	25	320	160	280	18x22	10	290	19	410
7	120	210	235	115	235	120	120	235	320	N120x3x30x38x9H	114	120	235	30	370	180	320	18x26	10	340	31	615
8	130	250	235	125	235	130	130	235	325	N120x3x30x38x9H	114	130	235	30	390	190	340	18x26	10	340	34	700
9	140	250	270	135	270	140	145	270	365	N140x3x30x45x9H	134	145	270	38	430	220	380	20x26	12	385	48	1000
10	160	300	270	150	270	150	155	270	385	N140x3x30x45x9H	134	155	270	38	470	240	420	22x26	12	385	50	1155
11	170	300	320	165	320	165	170	320	450	N170x5x30x32x9H	160	170	320	42	510	280	450	18x33	12	450	80	1640
12	180	300	320	180	320	180	185	320	455	N170x5x30x32x9H	160	185	320	42	540	280	480	22x33	12	450	95	1910

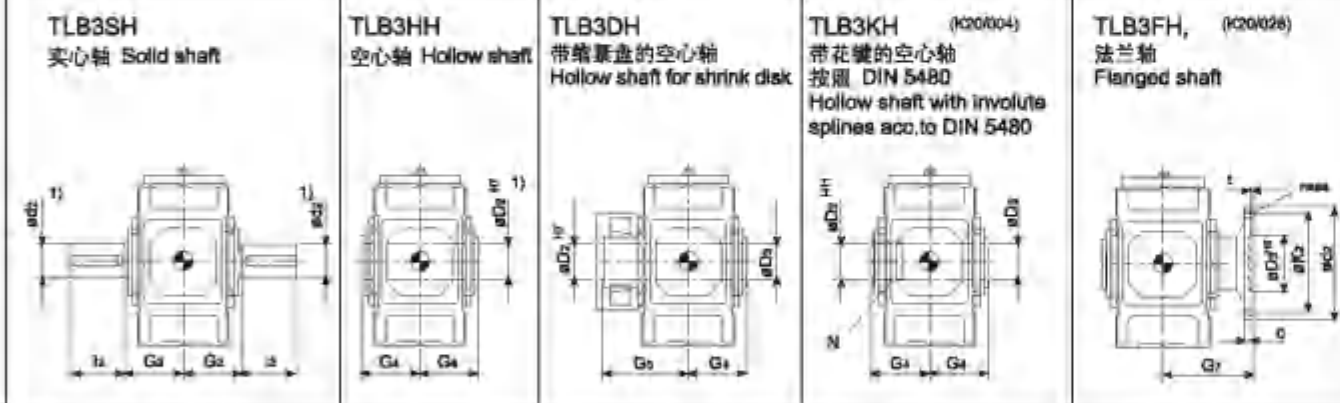
直交轴齿轮箱 Bevel-helical Gear Units 三级传动 Three Stage 卧式安装 Horizontal
类型TLB3.H Type TLB3.H 规格4...12 Size 4...12



布置形式 Design 3)



★输出轴 Output



1) $m6 \leq \phi 100$ $n6 > \phi 100$

有关平键GB/T1095-2003型和中心孔, 参见第86页。For parallel key GB/T 1095-2003 and for centre hole, see page 86

2) 键槽GB/T1095-2003。Keyway GB/T1095-2003.

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

直交轴齿轮箱 Bevel-helical Gear Units 三级传动 Three Stage 卧式安装 Horizontal
类型TLB3.H Type TLB3.H 规格4...12 Size 4...12

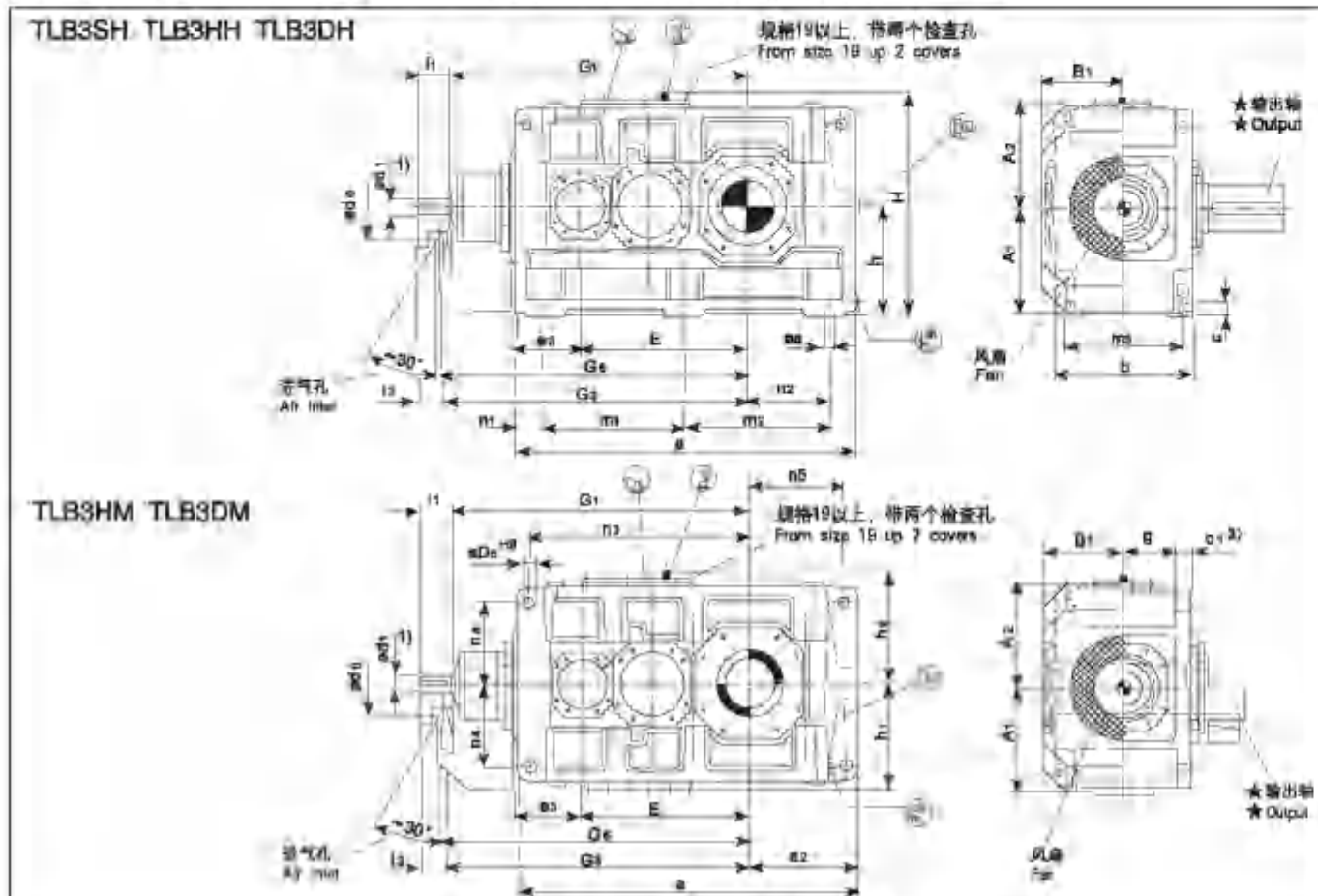
规格 Size	尺寸mm Dimensions in mm																G ₁	G ₂
	输入轴 Input																	
	i=12.5-45			i=16-56						i=50-71			i=63-90					
	d ₁ ¹⁾	l ₁	l ₂	d ₁ ¹⁾	l ₁	l ₂	d ₁ ¹⁾	l ₁	l ₂	d ₁ ¹⁾	l ₁	l ₂	d ₁ ¹⁾	l ₁	l ₂			
4	30	70	50							25	60	40				500	520	
5	35	80	60							28	80	40				575	595	
6				35	80	60							28	60	40	610	630	
7	45	100	80							35	80	60				690	710	
8				45	100	80							35	80	60	735	755	
9	55	110	80							40	100	70				800	830	
10				55	110	80							40	100	70	850	880	
11	70	135	105							50	110	80				960	990	
12				70	135	105							50	110	80	1030	1060	

规格 Size	尺寸mm Dimensions in mm											
	齿轮箱 Gear units											
	a	A ₁	A ₂	b	B ₁	c	c ₁	d _s	D _s	e _s	E	g
4	565	195	200	215	143	28	30±1	110	24	110	270	77.5
5	640	220	235	255	168	28	30±1	130	24	130	315	97.5
6	720	220	235	255	168	28	30±1	130	24	130	350	97.5
7	785	275	275	300	193	35	36±1	165	28	160	385	114
8	890	275	275	300	193	35	36±1	165	28	160	430	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	385	430	263	50	54±1.5	190	40	225	545	161
12	1260	370	385	430	263	50	54±1.5	190	40	225	615	161

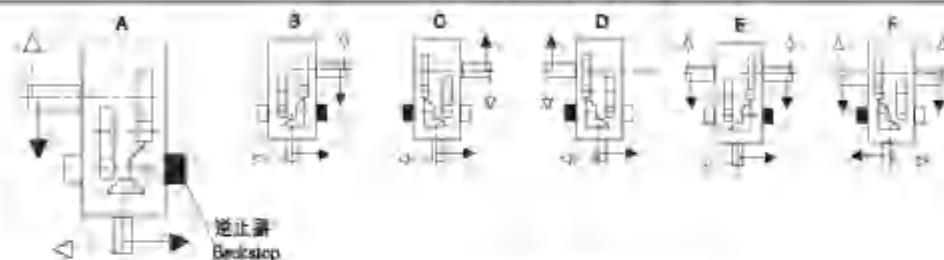
规格 Size	尺寸mm Dimensions in mm									
	齿轮箱 Gear units									
	G ₁	h	H	m ₁	m ₂	m ₃	m ₄	m ₅	m ₆	s
4	530	200	415	355	180	105	85	345	150	19
5	605	230	482	430	220	105	100	405	180	19
6	640	230	482	510	220	105	145	440	180	19
7	720	280	572	545	260	120	130	500	215	24
8	765	280	582	650	260	120	190	545	215	24
9	845	320	662	635	320	145	155	585	245	28
10	895	320	662	735	320	145	205	635	245	28
11	1010	380	782	775	370	165	180	710	300	35
12	1080	380	790	930	370	165	265	780	300	35

规格 Size	TLB3SH		TLB3HH		TLB3DH				TLB3KH					TLB3FH							润滑油 Oil	重量 Weight (kg)
	d ₂	l ₂	G ₂	D ₂	G ₄	D ₂	D ₃	G ₄	G ₆	N/DIN5480	D ₂	D ₃	G ₄	c	d ₂	D ₂	k ₂	n ₂ s	t	Gr		
4	80	170	140	80	140	85	85	140	205	-	-	-	-	-	-	-	-	-	-	-	9	210
5	100	210	165	95	165	100	100	165	240	N95x3x30x30x9H	89	100	165	25	300	150	260	16x22	10	255	14	325
6	110	210	165	105	165	110	110	165	240	N85x3x30x30x9H	89	110	165	25	320	160	280	18x22	10	255	15	380
7	120	210	195	115	195	120	120	195	280	N120x3x30x38x9H	114	120	195	30	370	180	320	16x26	10	300	25	550
8	130	250	195	125	195	130	130	195	285	N120x3x30x38x9H	114	130	195	30	390	190	340	18x26	10	300	28	635
9	140	250	235	135	235	140	145	235	330	N140x3x30x45x9H	134	145	235	38	430	220	380	20x26	12	350	40	890
10	160	300	235	150	235	150	155	235	350	N140x3x30x45x9H	134	155	235	38	470	240	420	22x26	12	350	42	1020
11	170	300	270	165	270	165	170	270	400	N170x5x30x32x9H	160	170	270	42	510	260	450	18x33	12	400	66	1455
12	180	300	270	180	270	180	185	270	405	N170x5x30x32x9H	160	185	270	42	540	280	480	22x33	12	400	72	1730

直交轴齿轮箱 Bevel-helical Gear Units 三级传动 Three Stage 卧式安装 Horizontal
 类型 TLB3.H, TLB3.M Type TLB3.H, TLB3.M 规格 13...22 Size 13...22

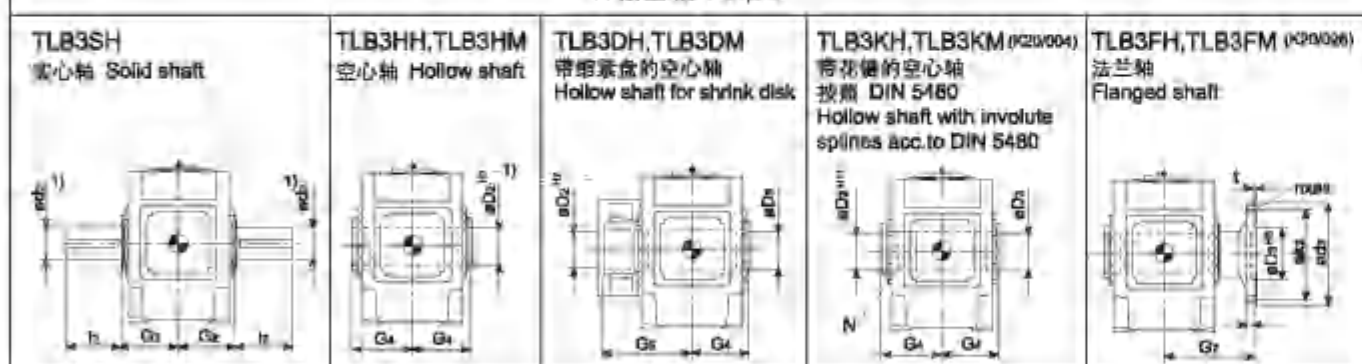


布置形式 Design 2)



■ 逆止器: 规格 13-18
 Backstop: size 13-18
 □ 逆止器: 规格 19-22
 Backstop: size 19-22

★输出轴 Output



1) $m6 \leq \phi 100$ $n6 > \phi 100$

有关平键 GB/T 1095-2003 型和中心孔, 参见第 86 页。For parallel key GB/T 1095-2003 and for centre hole, see page 86

2) 键槽 GB/T 1095-2003。Keyway GB/T 1095-2003.

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

直交轴齿轮箱 Bevel-helical Gear Units 三级传动 Three Stage 卧式安装 Horizontal
 类型 TLB3.H, TLB3.M Type TLB3.H, TLB3.M 规格 13...22 Size 13...22

规格 Size	尺寸 mm Dimensions in mm															
	输入轴 Input															
	i=12.5-45				i=14-50				i=18-55				i=50-71			
	d ₁ (1)	l ₁	l ₂	l ₃	d ₁ (1)	l ₁	l ₂	l ₃	d ₁ (1)	l ₁	l ₂	l ₃	d ₁ (1)	l ₁	l ₂	l ₃
13	80	165	130						80	140	105					
14									80	165	130					
15	90	185	130						70	140	105					
16					80	165	130						70	140	105	
17	110	205	185						80	170	130					
18					110	205	185						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	

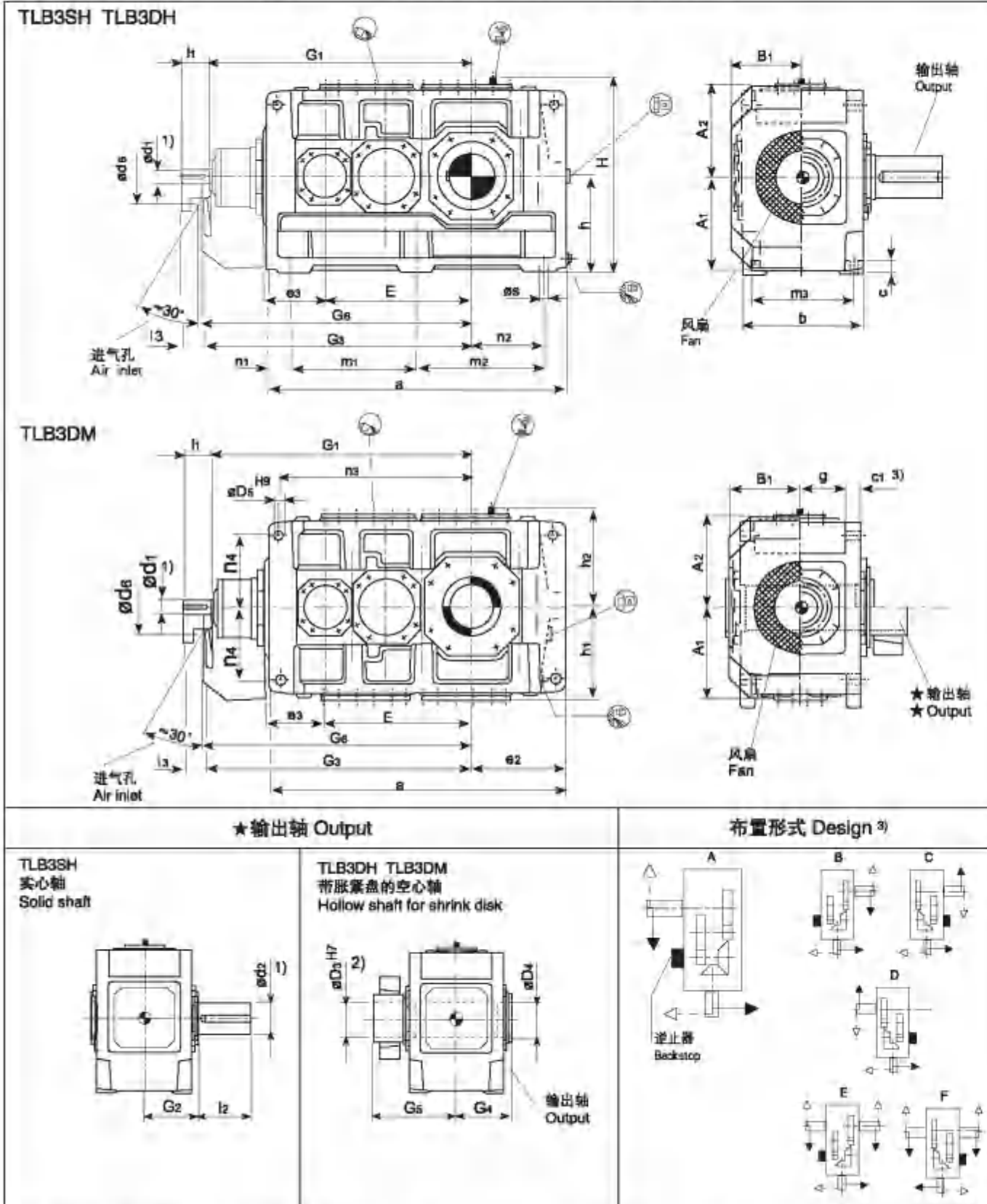
规格 Size	尺寸mm Dimensions in mm													
	齿轮箱 Gear units													
	a	A ₁	A ₂	b	B ₁	c	C ₁	d ₁	D ₁	a ₂	a ₃	E	g	
13	1290	425	435	550	325	60	61±2	210	48	405	265	635	211.5	
14	1430	425	435	550	325	60	61±2	210	48	475	265	705	211.5	
15	1550	485	520	625	365	70	72±2	210	55	485	320	762	238	
16	1640	485	520	625	365	70	72±2	210	55	530	320	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	450	997	299	
20	2130	610	630	790	448	90	91±2	245	65	650	450	1057	299	
21	2140	690	690	830	473	100	100±2	280	75	655	450	1067	310	
22	2250	690	690	830	473	100	100±2	280	75	710	450	1122	310	

规格 Size	尺寸 mm Dimensions in mm													
	齿轮箱 Gear units													
	G ₁	l ₁	h ₁	h ₂	H	m ₁	m ₂	m ₃	n ₁	n ₂	n ₃	n ₄	n ₅	s
13	1180	440	450	480	900	545	545	475	100	305	835	340	380	35
14	1250	440	450	480	900	545	685	475	100	375	905	340	430	35
15	1420	500	490	500	1000	655	655	535	120	365	1005	375	430	42
16	1470	500	490	500	1000	655	745	535	120	410	1050	375	475	42
17	1620	550	555	560	1110	735	735	600	135	390	1145	425	465	42
18	1680	550	555	560	1110	735	855	600	135	450	1205	425	525	42
19	1900	620	615	620	1240	850	850	690	155	435	1345	475		48
20	1960	620	615	620	1240	850	970	690	155	495	1405	475		48
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 Size	TLB3SH				TLB3HH TLB3HM		TLB3DH TLB3DM,				TLB3KH,TLB3KM				TLB3FH,TLB3FM								润滑油 Oil		重量 Weight	
																							TLB3H	TLB3M	TLB3H (kg)	TLB3 (kg)
	d ₁	b ₁	G ₁	D ₁	G ₁	D ₂	D ₃	G ₂	G ₃	N/DIN5480	D ₂	D ₃	G ₂	c	d ₂	D ₂	k ₂	n ₂ s	t	G ₂	(l)	(l)				
13	200	350	335	190	335	190	195	335	480	N190x5x30x36x9H	180	195	335	48	580	310	550	20x33	14	480	130	110	2380	226		
14	210	350	335	210	335	210	215	335	480	N190x5x30x36x9H	180	215	335	48	620	310	540	24x33	14	480	140	115	2750	261		
15	230	410	380	230	380	230	235	380	550	N220x5x30x42x9H	210	235	380	55	710	360	630	28x33	17	550	210	160	3730	354		
16	240	410	380	240	380	240	245	380	550	N220x5x30x42x9H	210	245	380	55	740	360	660	30x33	17	550	220	165	3955	378		
17	250	410	415	250	415	250	260	415	600	N250x5x30x48x9H	240	260	415	60	750	410	660	24x39	18	600	290	230	4990	473		
18	270	470	415	275	415	280	285	415	600	N250x5x30x48x9H	240	285	415	60	800	410	710	26x39	18	600	300	235	5495	524		
19	290	470	465	-	-	285	295	465	670	敬请垂询 On request	65	860	460	770	30x39	18	670	380	360	7000	650					
20	300	500	465	-	-	310	315	465	670		65	930	460	830	32x39	18	670	440	420	8100	780					
21	320	500	490	-	-	330	335	490	715		75	950	520	850	28x45	20	710	370	420	9200	860					
22	340	550	490	-	-	340	345	490	725		75	1040	520	940	28x45	20	710	430	490	9900	940					

敬请垂询 On request

直交轴齿轮箱 Bevel-helical Gear Units 三级传动 Three Stage 卧式安装 Horizontal
 类型TLB3.H,TLB3.M Type TLB3.H,TLB3.M 规格23...26 Size 23...26



1) $m6 \leq \phi 100$ $n6 > \phi 100$

有关平键GB/T1095-2003型和中心孔, 参见第86页。For parallel key GB/T 1095-2003 and for centre hole, see page 86

2) 键槽GB/T1095-2003。Keyway GB/T1095-2003.

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

直交轴齿轮箱 Bevel-helical Gear Units 三级传动 Three Stage 卧式安装 Horizontal
 类型TLB3.H,TLB3.M Type TLB3.H,TLB3.M 规格23...26 Size 23...26

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			G ₁	G ₂
	d ₁ (1)	l ₁	l ₂	d ₁ (1)	l ₁	l ₂	d ₁ (1)	l ₁	l ₂	d ₁ (1)	l ₁	l ₂		
23	150	245	200				110	210	165				2130	2175
24				150	245	200				110	210	165	2195	2240
25	150	245	200				110	210	165				2270	2315
26				150	245	200				110	210	165	2360	2405

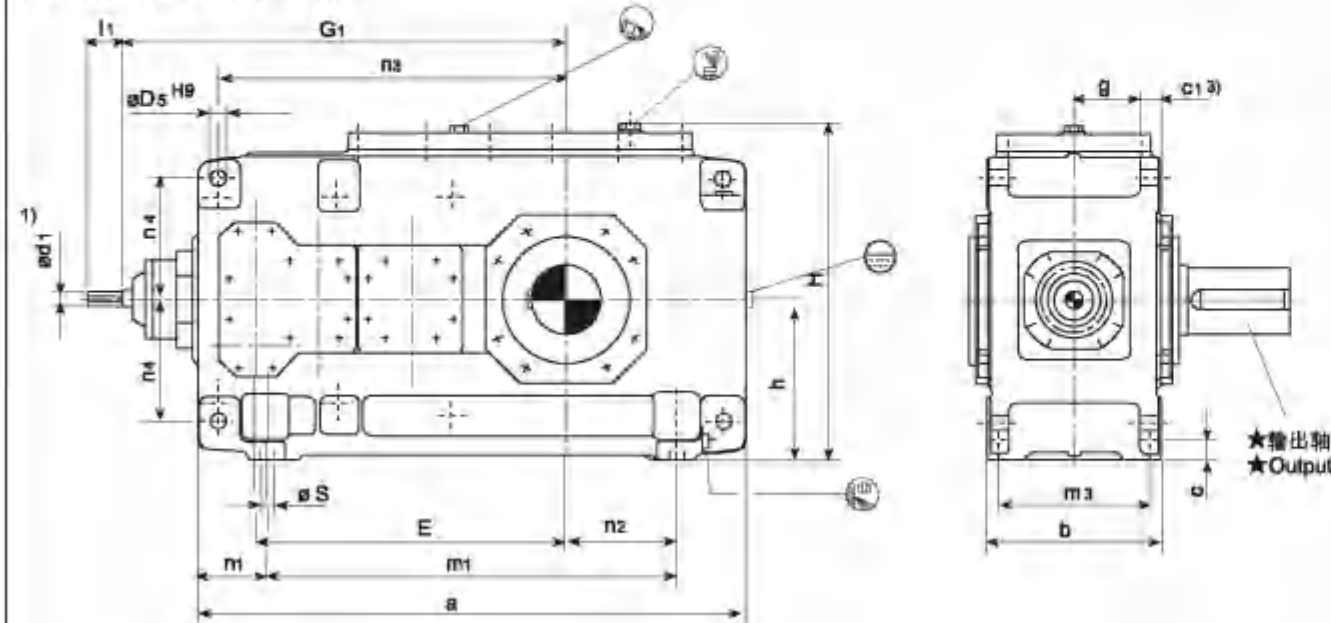
规格 Size	尺寸mm Dimensions in mm												
	齿轮箱 Gear units												
	a	A ₁	A ₂	b	B ₁	c	c ₁	d _s	D _s	e ₂	e ₃	E	g
23	2380	770	770	930	528	115	120±2	350	80	730	490	1182	342
24	2510	770	770	930	528	115	120±2	350	80	795	490	1250	342
25	2580	845	865	1045	585	130	120±2	380	90	790	490	1325	400
26	2760	845	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 units												
	G ₆	h	h ₁	h ₂	H	m ₁	m ₂	m ₃	n ₁	n ₂	n ₃	n ₄	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

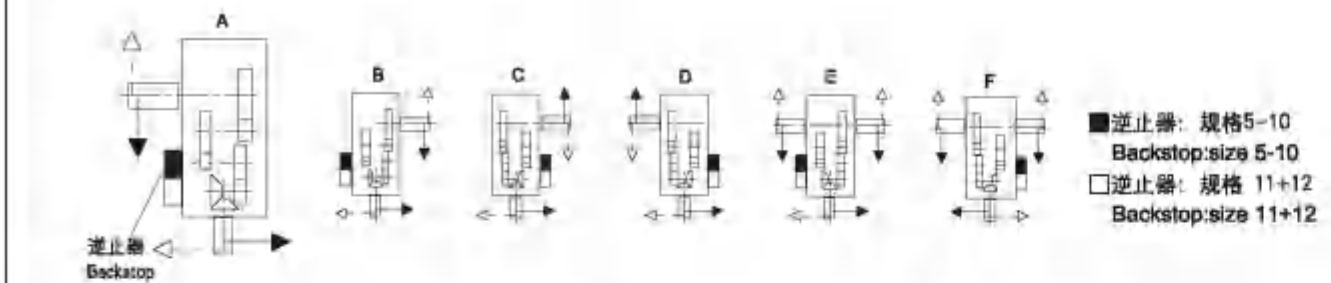
规格 Size	尺寸mm Dimensions in mm							润滑油 Oil		重量 Weight	
	输出轴 Output										
	TLB3SH			TLB3DH TLB3DM				TLB3.H	TLB3.M	TLB3.H	TLB3.M
	d ₂ ⁽¹⁾	G ₂	l ₂	D ₂	D ₂	G ₂	G ₂	(l)	(l)	(kg)	(kg)
23	360	540	590	360	365	540	785	520	560	11500	10600
24	380	540	590	380	385	540	805	600	650	13400	12500
25	400	605	650	400	405	605	875	720	790	16000	15100
26	420	605	650	430	435	605	900	840	920	17500	16400

直交轴齿轮箱 Bevel-helical Gear Units 四级传动 Four Stage 卧式安装 Horizontal
类型TLB4.H Type TLB4.H 规格5...12 Size 5...12

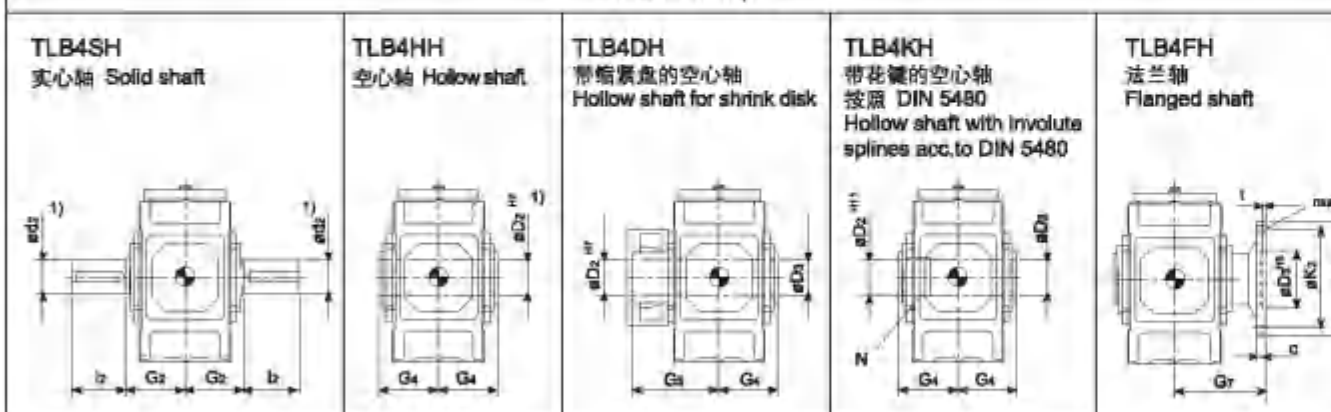
TLB4SH TLB4HH TLB4DH



布置形式 Design 2)



★输出轴 Output



1) $m6 \leq \phi 100$ $n6 > \phi 100$

有关平键GB/T1095-2003型和中心孔, 参见第86页。For parallel key GB/T 1095-2003 and for centre hole, see page 86

2) 键槽GB/T1095-2003。Keyway GB/T1095-2003.

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

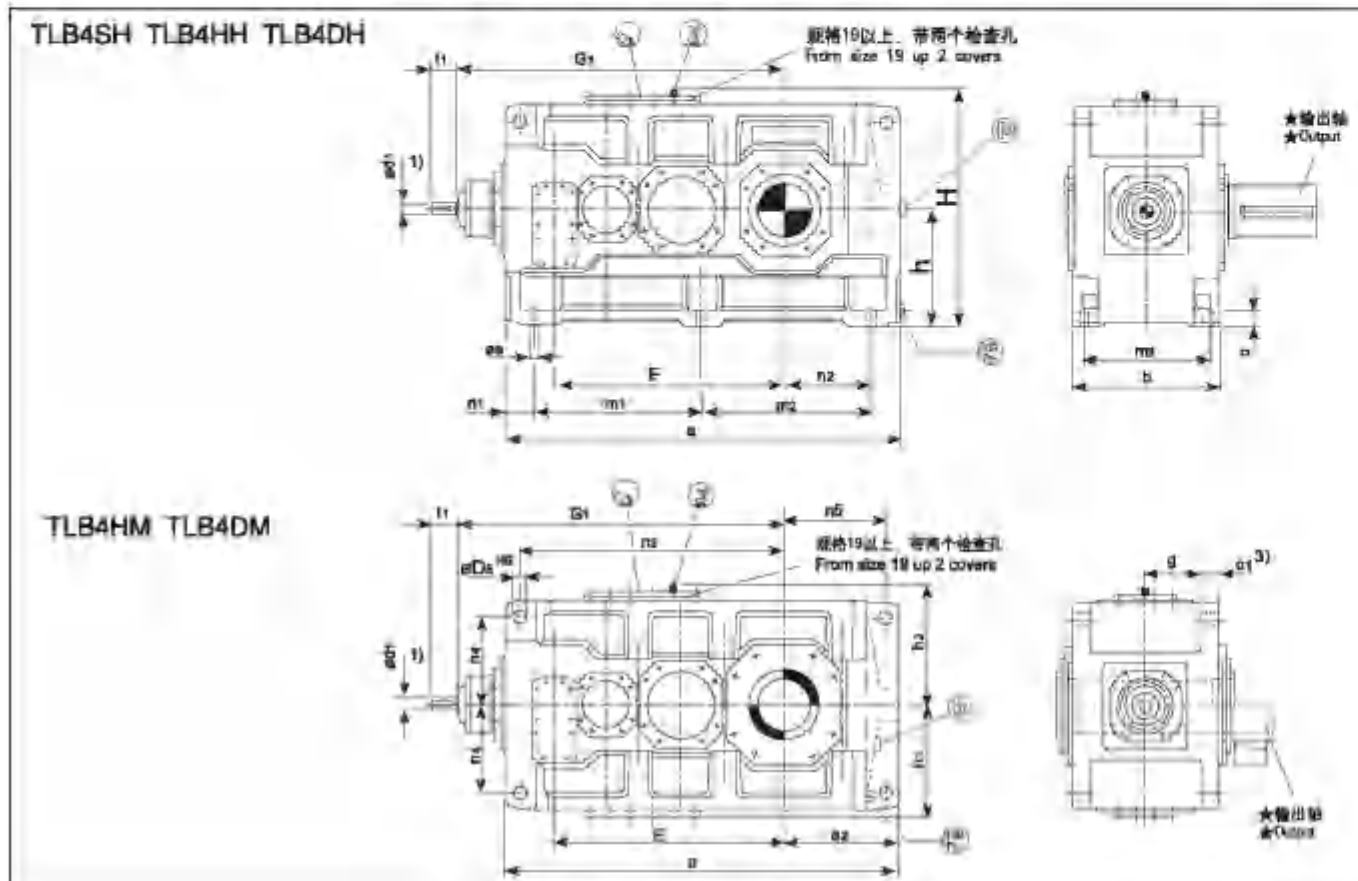
直交轴齿轮箱 Bevel-helical Gear Units 四级传动 Four Stage 卧式安装 Horizontal
类型TLB4.H Type TLB4.H 规格5...12 Size 5...12

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	
	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁
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
								G ₁
								815
								650
								725
								770
								840
								890
								1010
								1080

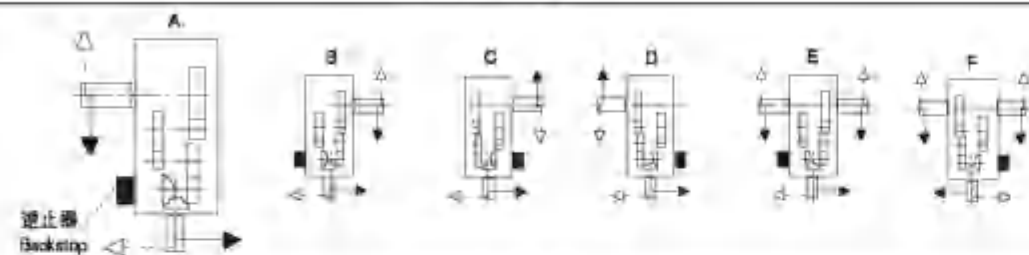
规格 Size	尺寸mm Dimensions in mm															
	齿轮箱 Gear units															
	a	b	c	c ₁	D _s	E	g	h	H	m ₁	m ₂	n ₁	n ₂	n ₃	n ₄	s
5	690	255	28	30±1	24	405	97.5	230	482	480	220	105	100	455	180	19
6	770	255	28	30±1	24	440	97.5	230	482	560	220	105	145	490	180	19
7	845	300	35	36±1	28	495	114	280	572	605	260	120	130	560	215	24
8	950	300	35	36±1	28	540	114	280	582	710	260	120	190	605	215	24
9	1000	370	40	45±1.5	36	580	140	320	662	710	320	145	155	660	245	28
10	1100	370	40	45±1.5	36	630	140	320	662	810	320	145	205	710	245	28
11	1200	430	50	54±1.5	40	705	161	380	782	870	370	165	180	805	300	35
12	1355	430	50	54±1.5	40	775	161	380	790	1025	370	165	265	875	300	35

规格 Size	TLB4SH			TLB4HH			TLB4DH			TLB4KH				TLB4FH							润滑油 Oil	重量 Weight (kg)
	d ₂	l ₂	G ₂	D ₂	G ₄	D ₂	D ₂	G ₄	G ₆	N/DIN5480	D ₂	D ₂	G ₄	c	d ₂	D ₂	k ₂	n ₂ s	t	G ₇		
5	100	210	165	95	165	100	100	165	240	N95x3x30x30x9H	89	100	165	25	300	150	280	16x22	10	255	16	335
6	110	210	165	105	165	110	110	165	240	N95x3x30x30x9H	89	110	165	25	320	160	280	18x22	10	255	18	385
7	120	210	195	115	195	120	120	195	280	N120x3x30x38x9H	114	120	195	30	370	180	320	16x26	10	300	30	555
8	130	250	195	125	195	130	130	195	285	N120x3x30x38x9H	114	130	195	30	390	190	340	18x26	10	300	33	655
9	140	250	235	135	235	140	145	235	330	N140x3x30x45x9H	134	145	235	38	430	220	380	20x26	12	350	48	890
10	160	300	235	150	235	150	155	235	350	N140x3x30x45x9H	134	155	235	38	470	240	420	22x26	12	350	50	1025
11	170	300	270	165	270	165	170	270	400	N170x5x30x32x9H	160	170	270	42	510	260	450	18x33	12	400	80	1485
12	180	300	270	180	270	180	185	270	405	N170x5x30x32x9H	160	185	270	42	540	280	480	22x33	12	400	90	1750

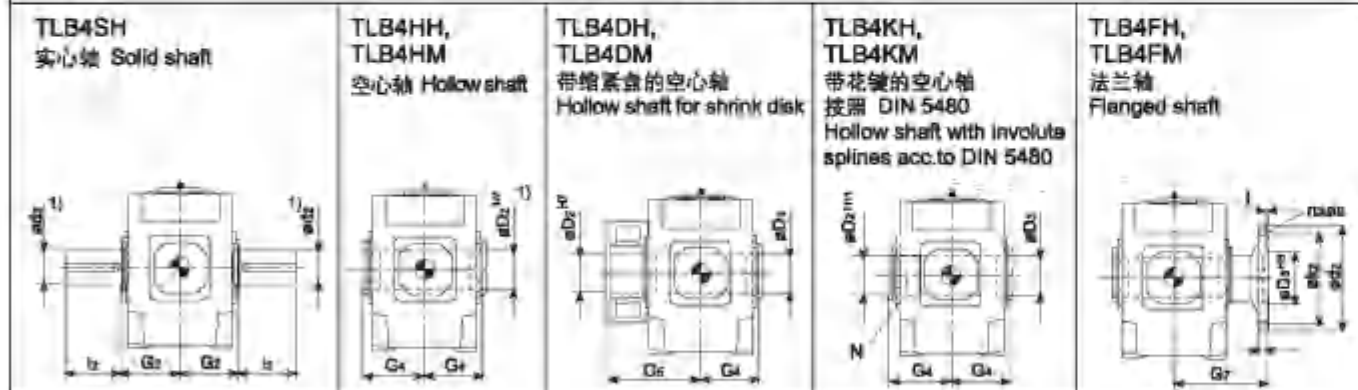
直交轴齿轮箱 Bevel-helical Gear Units 四级传动 Four Stage 卧式安装 Horizontal
 类型TLB4.H,TLB4.M Type TLB4.H,TLB4.M 规格13...22 Size 13...22



布置形式 Design 3)



★输出轴 Output



1) $m6 \leq \phi 100$, $m6 > \phi 100$.

有关平键GB/T1095-2003型和中心孔, 参见第86页。For parallel key GB/T 1095-2003 and for centre hole, see page 86

2) 键槽GB/T1095-2003。Keyway GB/T 1095-2003.

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

直交轴齿轮箱 Bevel-helical Gear Units 四级传动 Four Stage 卧式安装 Horizontal
 类型TLB4.H,TLB4.M Type TLB4.H,TLB4.M 规格13...22 Size 13...22

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	
	$d_1^{(1)}$	l_1	$d_1^{(1)}$	l_1	$d_1^{(1)}$	l_1	$d_1^{(1)}$	l_1	$d_1^{(1)}$	l_1	$d_1^{(1)}$	l_1
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	80	165					60	140				1680
20			80	165					80	140		1740
21	90	165					70	140				1992
22			90	165					70	140		2047

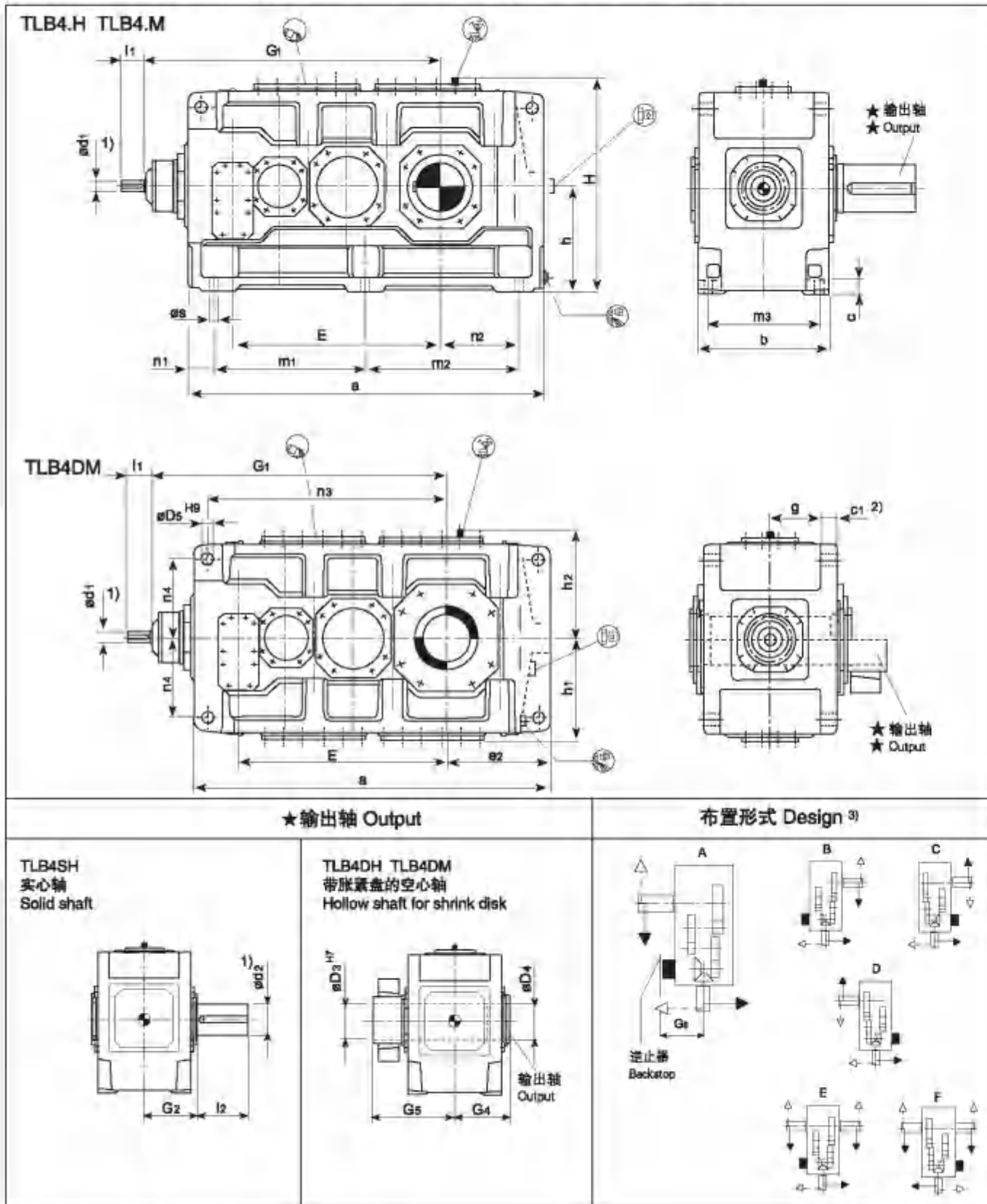
规格 Size	尺寸mm Dimensions in mm									
	齿轮箱 Gear units									
	a	b	c	c ₁	D ₁	a ₂	E	g	h	h ₁
13	1395	550	60	61±2	48	405	820	211.5	440	450
14	1535	550	60	61±2	48	475	890	211.5	440	450
15	1680	625	70	72±2	55	485	987	238	500	490
16	1770	625	70	72±2	55	530	1033	238	500	490
17	1770	690	80	81±2	55	525	1035	259	550	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	1260	299	620	615
21	2340	830	100	100±2	75	655	1387	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 units										
	h_2	H	m_1	m_2	m_3	n_1	n_2	n_3	n_4	n_5	s
13	460	900	597.5	597.5	475	100	305	940	340	360	35
14	460	900	597.5	737.5	475	100	375	1010	340	430	35
15	500	1000	720	720	535	120	365	1135	375	430	42
16	500	1000	720	810	535	120	410	1180	375	475	42
17	560	1110	750	750	600	135	390	1175	425	465	42
18	560	1110	750	870	600	135	450	1235	425	525	42
19	620	1240	860	880	690	155	435	1365	475		48
20	620	1240	860	980	690	155	495	1425	475		48
21	690	1390	1000	1000	720	170	485	1600	520		56
22	690	1390	1000	1110	720	170	540	1655	520		56

规格 Size	TLB4SH			TLB4HH TLB4HM		TLB4DH TLB4DM,				TLB4KH,TLB4KM				TLB4FH,TLB4FM						润滑油 Oil		重量 Weight			
																				TLB4.H	TLB4.M				
	d ₂	l ₂	G ₂	D ₂	G ₄	D ₂	D ₃	D ₄	D ₅	N/DIN5480	D ₁	D ₂	D ₄	a	d ₅	D ₅	k ₂	m _{x5}	t	Gr	(l)	(l)	TLB4.H (kg)	TLB4.M (kg)	
13	200	350	335	190	335	190	195	335	460	N190x5x30x36x9H	180	195	335	48	580	310	550	20x33	14	480	145	120	2395	2280	
14	210	350	335	210	335	210	215	335	480	N190x5x30x36x9H	180	215	335	48	620	310	540	24x33	14	480	150	125	2735	2605	
15	230	410	380	230	380	230	235	380	550	N220x5x30x42x9H	210	235	380	55	710	360	630	28x33	17	550	230	170	3630	3435	
16	240	410	380	240	380	240	245	380	550	N220x5x30x42x9H	210	245	380	55	740	360	680	30x33	17	550	238	175	3985	3765	
17	250	410	415	250	415	250	260	415	600	N250x5x30x48x9H	240	260	415	60	750	410	660	24x39	18	600	295	230	4695	4460	
18	270	470	415	275	415	280	285	415	600	N250x5x30x48x9H	240	285	415	60	800	410	710	26x39	18	600	305	235	5200	4930	
19	290	470	465	-	-	285	295	465	670	敬请垂询 On request					65	860	460	770	30x39	18	670	480	440	6800	6300
20	300	500	465	-	-	310	315	465	670						65	930	460	830	32x39	18	670	550	510	8200	7700
21	320	500	490	-	-	330	335	490	715						75	950	520	850	28x45	20	710	540	590	9200	8800
22	340	550	490	-	-	340	345	490	725						75	1040	520	940	28x45	20	710	620	680	9900	9400

敬请垂询 On request

直交轴齿轮箱 Bevel-helical Gear Units 四级传动 Four Stage 卧式安装 Horizontal
 类型TLB4.H,TLB4.M Type TLB4.H,TLB4.M 规格23...26 Size 23...26



1) $m8 \leq \phi 100$ $n6 > \phi 100$

有关平键GB/T1095-2003型和中心孔, 参见第86页。For parallel key GB/T 1095-2003 and for centre hole, see page 86

2) 键槽GB/T1095-2003。Keyway GB/T1095-2003.

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

直交轴齿轮箱 Bevel-helical Gear Units 四级传动 Four Stage 卧式安装 Horizontal
 类型TLB4.H,TLB4.M Type TLB4.H,TLB4.M 规格23...26 Size 23...26

规格 Size	尺寸mm Dimensions in mm								
	输入轴 Input								
	l=80-180		l=90-200		l=200-315		l=224-355		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

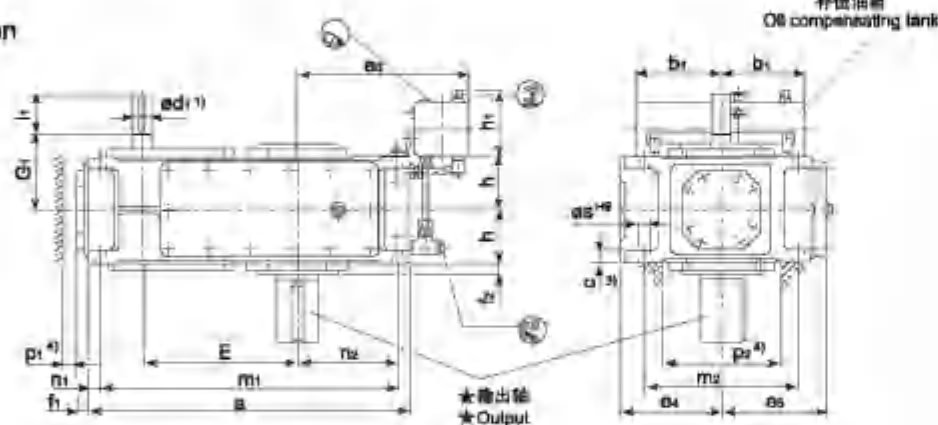
规格 Size	尺寸mm Dimensions in mm									
	齿轮箱 Gear units									
	a	b	c	c1	Ds	es	E	g	h	h1
23	2530	930	115	120±2	80	730	1505	342	780	770
24	2660	930	115	120±2	80	795	1570	342	780	770
25	2830	1045	130	120±2	90	790	1695	400	880	860
26	3010	1045	130	120±2	90	880	1785	400	880	860

规格 Size	尺寸mm Dimensions in mm									
	齿轮箱 Gear units									
	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	86

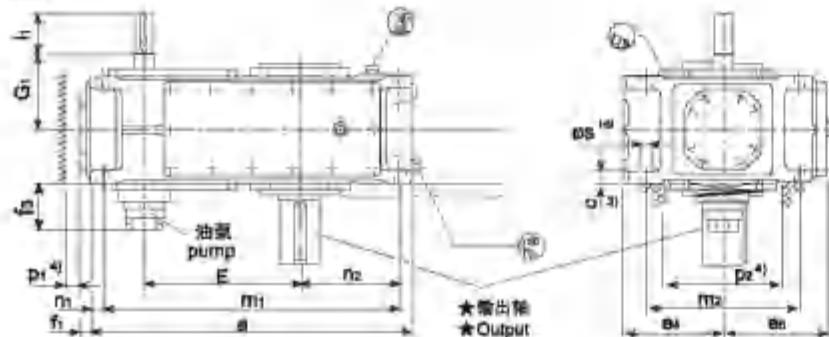
规格 Size	尺寸mm Dimensions in mm								润滑油 Oil		重量 Weight	
	输出轴 Output								TLB4.H	TLB4.M	TLB4.H	TLB4.M
	d2	G2	l2	D2	D1	G1	G3					
23	360	540	590	360	365	540	785		710	790	11600	10700
24	380	540	590	380	385	540	805		810	910	13500	12600
25	400	605	650	400	405	605	875		1000	1110	16100	15200
26	420	605	650	430	435	605	900		1100	1200	17600	16500

平行轴齿轮箱 Helical Gear Units 二级传动 Two Stage 立式安装 Vertical
类型TLH2.V Type TLH2.V 规格4...12 Size 4...12

TLH2SV TLH2HV TLH2DV
采用浸油润滑 With dip lubrication

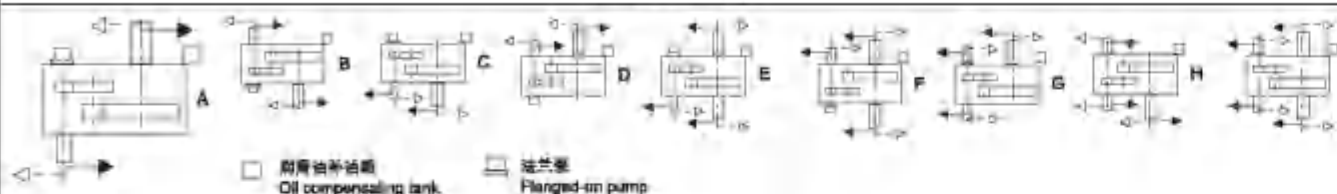


TLH2SV TLH2HV TLH2DV
采用强制润滑 With forced lubrication

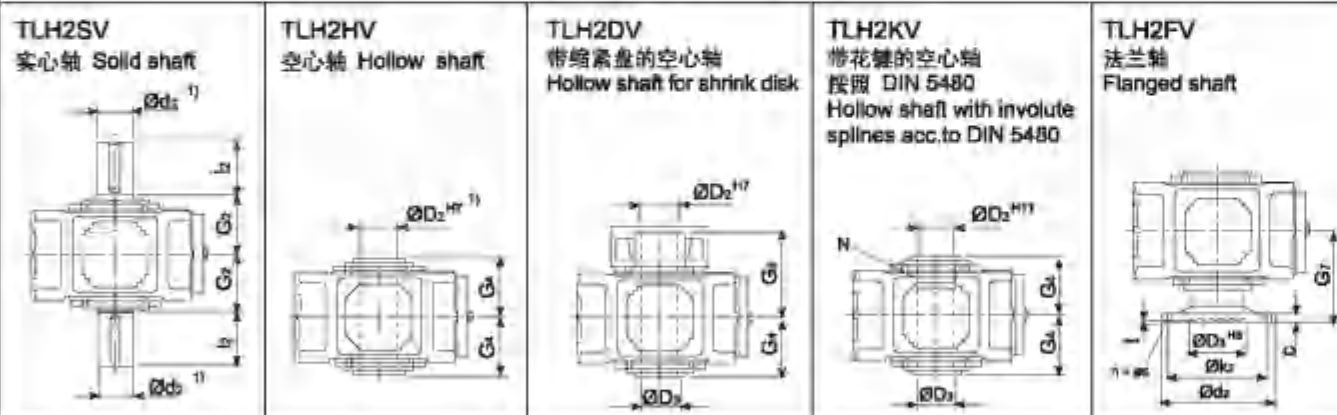


有关供油方式（浸油润滑或强制润滑），参见96-97页
Oil supply(dip or forced lubrication), see page 96-97.

布置形式 Design 3)



★输出轴 Output



1) $m_6 \leq \phi 100$ $n_6 > \phi 100$

有关平键GB/T1095-2003型和中心孔，参见第86页。For parallel key GB/T 1095-2003 and for centre hole, see page 86

2) 键槽GB/T1095-2003。Keyway GB/T1095-2003.

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.

平行轴齿轮箱 Helical Gear Units 二级传动 Two Stage 立式安装 Vertical
类型TLH2.V Type TLH2.V 规格4...12 Size 4...12

规格 Size	尺寸mm Dimensions in mm								G ₁
	输入轴 Input								
	i=6.3-11.2		i=8-14		i=12.5-22.4		i=16-28		
	d ₁ ⁽¹⁾	l ₁	d ₁ ⁽¹⁾	l ₁	d ₁ ⁽¹⁾	l ₁	d ₁ ⁽¹⁾	l ₁	
4	45	100			32	80			170
5	50	100			38	80			195
6			50	100			38	80	195
7	80	135			50	110			210
8			60	135			50	110	210
9	75	140			60	140			240
10			75	140			60	140	240
11	90	185			70	140			275
12			90	185			70	140	275

规格 Size	尺寸mm Dimensions in mm									
	齿轮箱 Gear units									
	a	b ₁	c	a ₁	a ₂	a ₃	E	f ₁	f ₂	f ₃
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	450	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

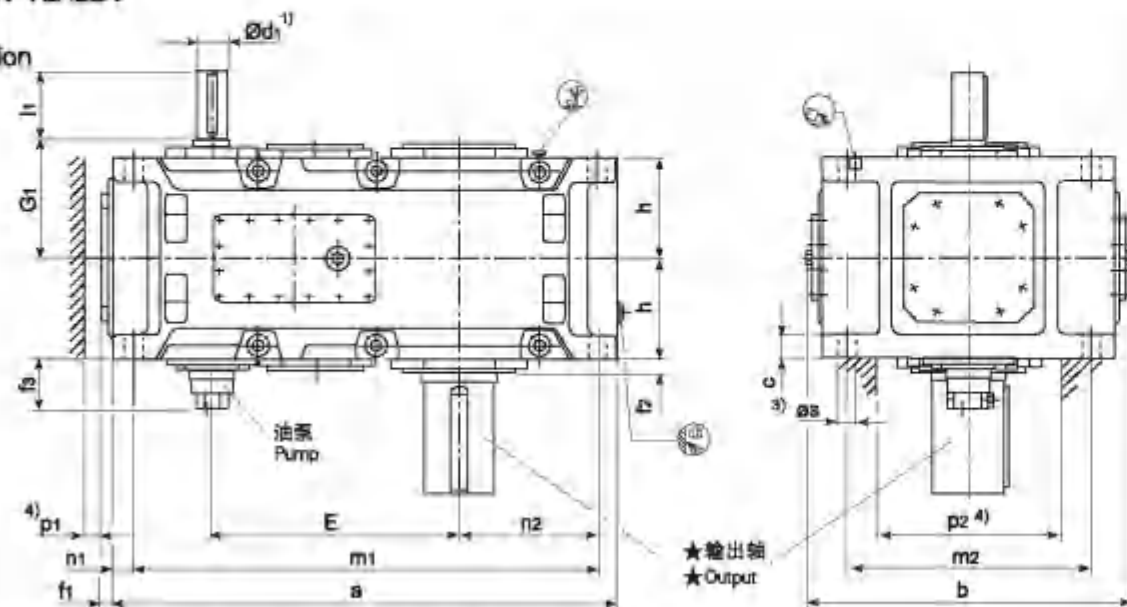
规格 Size	尺寸mm Dimensions in mm									
	齿轮箱 Gear units									
	h	h ₁	m ₁	m ₂	n ₁	n ₂	p ₁ ⁽¹⁾	p ₂ ⁽¹⁾	s	
4	107.5	165	505	300	30	160	35	220	24	
5	127.5	205	580	360	30	175	35	270	24	
6	127.5	205	660	360	30	220	35	270	24	
7	150	205	715	430	35	215	35	330	28	
8	150	205	820	430	35	275	35	330	28	
9	185	275	845	490	40	260	40	370	36	
10	185	275	945	490	40	310	40	370	36	
11	215	275	1005	600	50	295	50	440	40	
12	215	275	1160	600	50	380	50	440	40	

规格 Size	TLH2SV			TLH2HV		TLH2DV				TLH2KV				TLH2FV						润滑油 Oil		重量 Weight (kg)		
	d ₂	l ₂	G ₂	D ₂	G ₄	D ₂	D ₃	D ₄	D ₅	N/DIN5480	D ₂	D ₃	D ₄	c	d ₂	D ₃	k ₂	n _{k2}	t	G ₇	浸油润滑 Dip lubrication (l)		强制润滑 Forced lubrication (l)	
4	80	170	140	80	140	85	85	140	205	-	-	-	-	-	-	-	-	-	-	-	-	25	-	190
5	100	210	165	95	165	100	100	165	240	N95x3x30x30x9H	89	100	165	25	300	150	260	16x22	10	255	23	10	300	
6	110	210	165	105	165	110	110	165	240	N95x3x30x30x9H	89	110	165	25	320	160	280	18x22	10	255	27	11	355	
7	120	210	195	115	195	120	120	195	280	N120x3x30x38x9H	114	120	195	30	370	180	320	16x28	10	300	58	22	505	
8	130	250	195	125	195	130	130	195	285	N120x3x30x38x9H	114	130	195	30	390	190	340	18x28	10	300	62	25	590	
9	140	250	235	135	235	140	145	235	330	N140x3x30x45x9H	134	145	235	38	430	220	380	20x28	12	350	100	42	830	
10	160	300	235	150	235	150	155	235	350	N140x3x30x45x9H	134	155	235	38	470	240	420	22x28	12	350	110	46	960	
11	170	300	270	165	270	165	170	270	400	N170x5x30x32x9H	160	170	270	42	510	260	450	18x33	12	400	160	60	1335	
12	180	300	270	180	270	180	185	270	405	N170x5x30x32x9H	160	185	270	42	540	280	480	22x33	12	400	180	70	1615	

平行轴齿轮箱 Helical Gear Units 二级传动 Two Stage 立式安装 Vertical
类型TLH2.V Type TLH2.V 规格13...18 Size 13...18

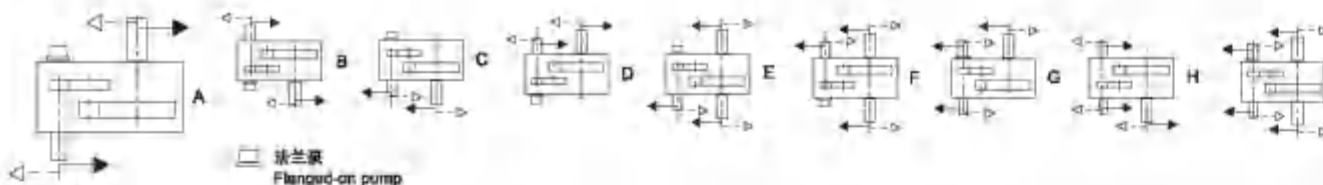
TLH2SV TLH2HV TLH2DV

采用浸油润滑
With dip lubrication



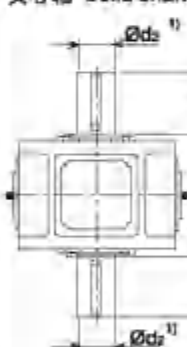
有关供油方式（浸油润滑或强制润滑），参见96-97页 Oil supply(dip or forced lubrication), see page 96-97.

布置形式 Design 3)

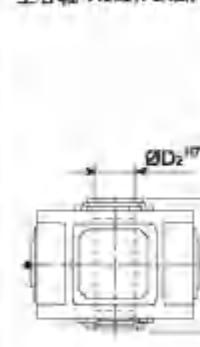


★输出轴 Output

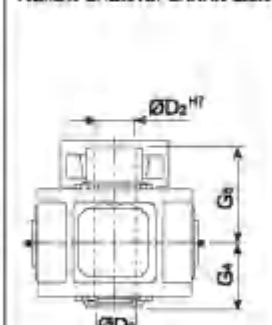
TLH2SV
实心轴 Solid shaft



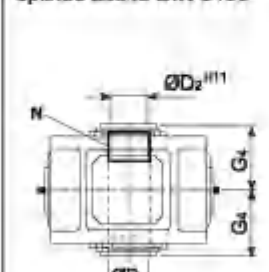
TLH2HV 6)
空心轴 Hollow shaft



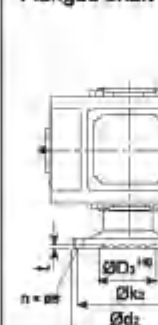
TLH2DV 5) 6)
带缩紧盘的空心轴
Hollow shaft for shrink disk



TLH2KV
带花键的空心轴
按照 DIN 5480
Hollow shaft with involute
splines acc. to DIN 5480



TLH2FV
法兰轴
Flanged shaft



1) $m6 \leq \phi 100$ $n6 > \phi 100$

有关平键GB/T1095-2003型和中心孔，参见第86页。For parallel key GB/T 1095-2003 and for centre hole, see page 86

2) 键槽GB/T1095-2003。Keyway GB/T 1095-2003.

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

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

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

平行轴齿轮箱 Helical Gear Units 二级传动 Two Stage 立式安装 Vertical
类型TLH2.V Type TLH2.V 规格13...18 Size 13...18

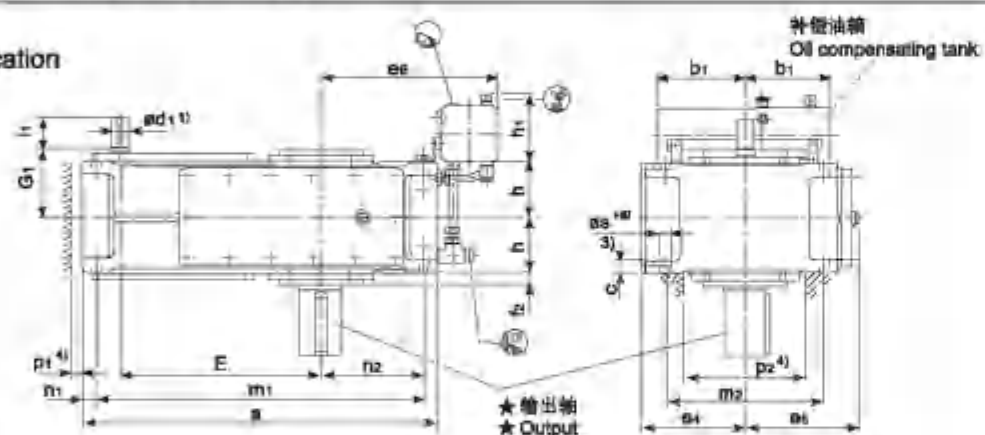
规格 Size	尺寸mm Dimensions in mm												G ₁
	输入轴 Input												
	lw=6.3-11.2		lw=7.1-12.5		lw=8-14		lw=12.5-20		lw=14-22.4		lw=16-25		
	d ₁ (1)	l ₁	d ₁ (1)	l ₁	d ₁ (1)	l ₁	d ₁ (1)	l ₁	d ₁ (1)	l ₁	d ₁ (1)	l ₁	
13	100	205					85	170					330
14					100	205					85	170	330
15	120	210					100	210					365
16			120	210					100	210			365
17	125	245					110	210					420
18			125	245					110	210			420
19							根据用户要求供货 On request						
20													
21													
22													

规格 Size	尺寸mm Dimensions in mm															
	齿轮箱 Gear units															
	a	b	c	E	f ₁	f ₂	f ₃	f ₄	f ₅	m ₁	m ₂	n ₁	n ₂	p ₁ ⁽⁴⁾	p ₂ ⁽⁴⁾	s
13	1290	900	61±2	835	53	35	130	272.5	300	1195	680	50	380	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	880	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																
20																
21																
22																

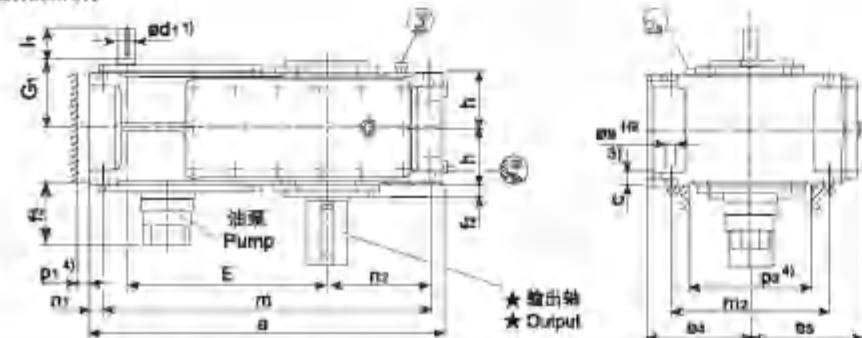
规格 Size	TLH2SV			TLH2HV		TLH2DV				TLH2KV				TLH2FV							润滑油 Oil	重量 Weight (kg)
	d ₁	l ₁	G ₁	D ₁	G ₁	D ₂	D ₃	G ₁	G ₂	N/DIN5480	D ₃	D ₃	G ₁	c	d ₂	D ₁	k ₂	nxs	t	G ₇		
13	200	350	335	190	335	190	195	335	480	N190x5x30x36x9H	180	195	335	48	580	310	500	20x33	14	480	120	1880
14	210	350	335	210	335	210	215	335	480	N190x5x30x36x9H	180	215	335	48	620	310	540	24x33	14	480	135	2430
15	230	410	380	230	380	230	235	380	550	N220x5x30x42x9H	210	235	380	55	710	360	630	28x33	17	550	185	3240
16	240	410	380	240	380	240	245	380	550	N220x5x30x42x9H	210	245	380	55	740	360	660	30x33	17	550	200	3465
17	250	410	415	250	415	250	260	415	600	N250x5x30x48x9H	240	260	415	60	750	410	660	24x39	18	600	265	4420
18	270	470	415	275	415	280	285	415	600	N250x5x30x48x9H	240	285	415	60	800	410	710	26x39	18	600	285	4870
19-22	敬请垂询 On request																					

平行轴齿轮箱 Helical Gear Units 三级传动 Three Stage 立式安装 Vertical
类型TLH3.V Type TLH3.V 规格5...12 Size 5...12

TLH3SV TLH3HV TLH3DV
采用浸油润滑 With dip lubrication

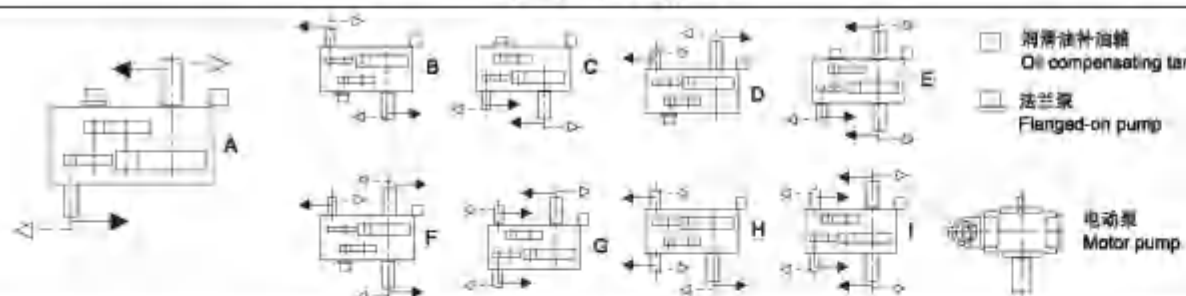


TLH3SV TLH3HV TLH3DV
采用强制润滑 With forced lubrication



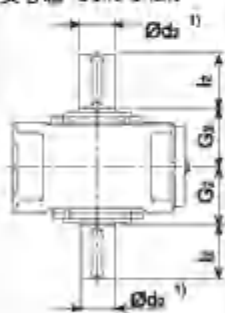
有关供油方式(浸油润滑或强制润滑), 参见96-97页
Oil supply (dip or forced lubrication), see page 96-97.

布置形式 Design 形式

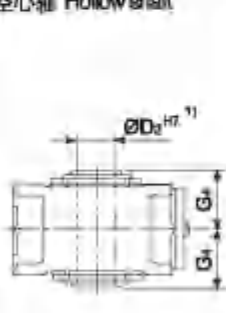


★输出轴 Output

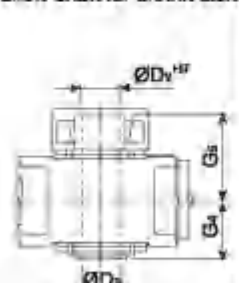
TLH3SV
实心轴 Solid shaft



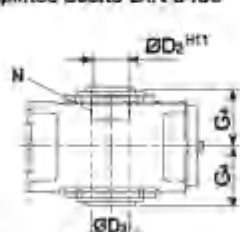
TLH3HV
空心轴 Hollow shaft



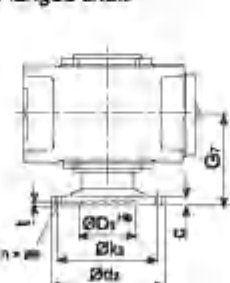
TLH3DV
带缩紧套的空心轴
Hollow shaft for shrink disk



TLH3KV
带花键的空心轴
按照 DIN 5480
Hollow shaft with involute
splines acc.to DIN 5480



TLH3FV
法兰轴
Flanged shaft



1) $m8 \leq \phi 100$ $n6 > \phi 100$

有关平键GB/T1095-2003型和中心孔, 参见第86页。For parallel key GB/T 1095-2003 and for centre hole, see page 86

2) 键槽GB/T1095-2003。Keyway GB/T1095-2003.

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.

中国供应链联盟

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平行轴齿轮箱 Helical Gear Units 三级传动 Three Stage 立式安装 Vertical
类型TLH3.V Type TLH3.V 规格5...12 Size 5...12

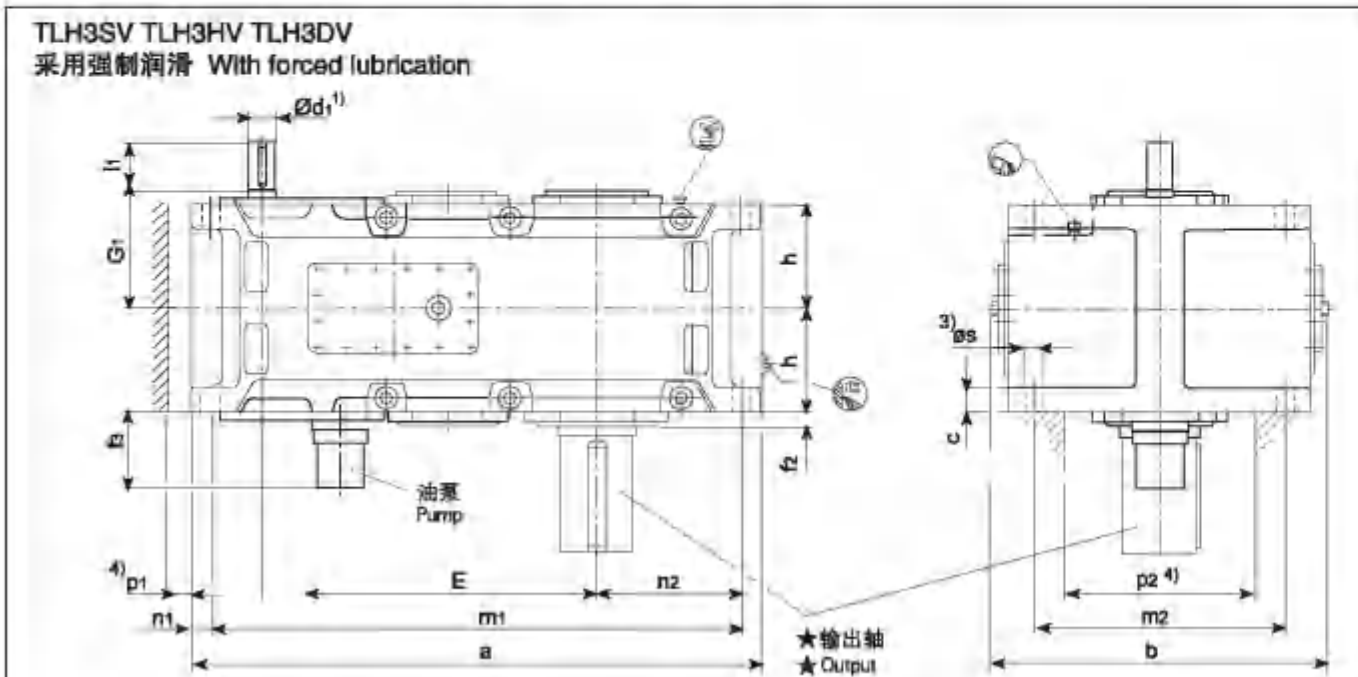
规格 Size	尺寸mm Dimensions in mm											
	输入轴 Input											
	in=25-45		in=31.5-56		in=50-63		in=63-80		in=71-90		in=90-112	
	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁
5	40	70			30	50			24	40		
6			40	70			30	50			24	40
7	45	80			35	60			28	50		
8			45	80			35	60			28	50
9	60	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 units									
	a	b ₁	c	b ₂	b ₃	b ₄	E	f ₂	f ₃	h
5	690	240	30 ± 1	230	252	385	405	28	190	127.5
6	770	240	30 ± 1	230	252	425	440	28	190	127.5
7	845	240	36 ± 1	280	292	425	495	30	185	150
8	950	240	36 ± 1	280	302	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 units								
	h ₁	m ₁	m ₂	n ₁	n ₂	p ₁ ¹⁾	p ₂ ¹⁾	s	
5	205	630	360	30	175	35	270	24	
6	205	710	360	30	220	35	270	24	
7	205	775	430	35	215	35	330	28	
8	205	880	430	35	275	35	330	28	
9	275	920	490	40	260	40	370	36	
10	275	1020	490	40	310	40	370	36	
11	275	1100	600	50	295	50	440	40	
12	275	1255	600	50	380	50	440	40	

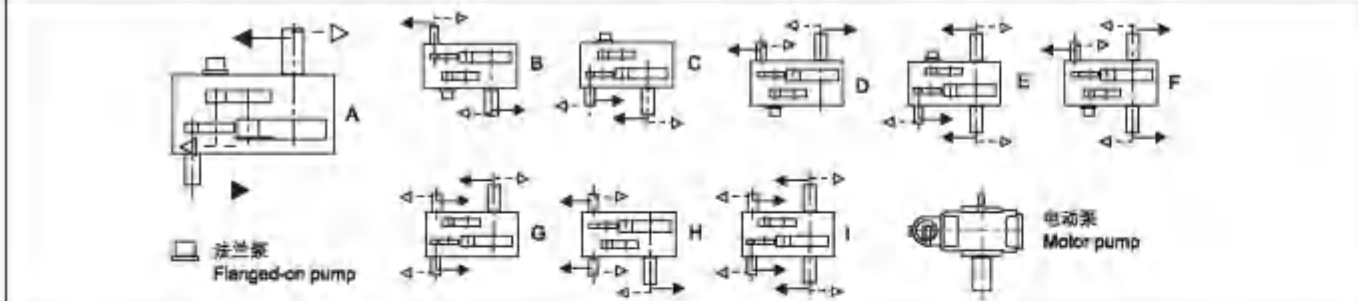
规格 Size	TLH3SV			TLH3HV		TLH3DV				TLH3KV				TLH3FV						润滑油 Oil		重量 Weight (kg)	
	d ₂	l ₂	G ₂	D ₂	G ₄	D ₂	D ₃	G ₄	G ₅	N/DIN5480	D ₂	D ₃	G ₄	c	d ₃	D ₃	k ₂	nxs	t	G _r	浸油润滑 Dip lubrication (l)		强制润滑 Forced lubrication (l)
5	100	210	165	95	165	100	100	165	240	N95x3x30x30x9H	89	100	165	25	300	150	260	16x22	10	255	35	13	320
6	110	210	165	105	165	110	110	165	240	N95x3x30x30x9H	89	110	165	25	320	160	260	18x22	10	255	37	15	365
7	120	210	195	115	195	120	120	195	280	N120x3x30x38x9H	114	120	195	30	370	180	320	16x26	10	300	60	25	540
8	130	250	195	125	195	130	130	195	285	N120x3x30x38x9H	114	130	195	30	390	190	340	18x26	10	300	72	30	625
9	140	250	235	135	235	140	145	235	330	N140x3x30x45x9H	134	145	235	38	430	220	380	20x28	12	350	100	40	875
10	160	300	235	150	235	160	155	235	350	N140x3x30x45x9H	134	155	235	38	470	240	420	22x26	12	350	110	45	1020
11	170	300	270	165	270	165	170	270	400	N170x5x30x32x9H	160	170	270	42	510	260	450	18x33	12	400	170	66	1400
12	180	300	270	180	270	180	185	270	405	N170x5x30x32x9H	160	185	270	42	540	280	480	22x33	12	400	190	75	1675

平行轴齿轮箱 Helical Gear Units 三级传动 Three Stage 立式安装 Vertical
 类型TLH3.V Type TLH3.V 规格13...18 Size 13...18

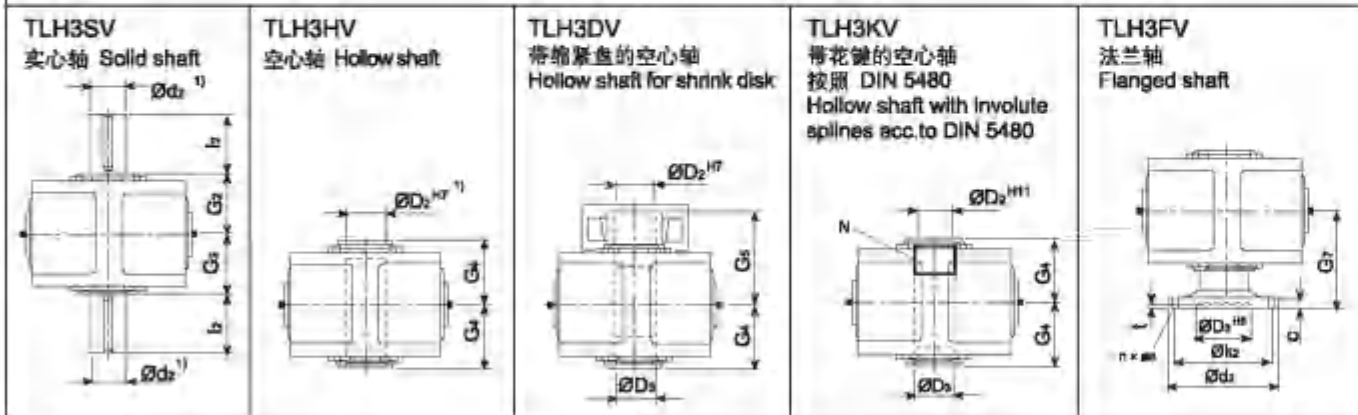


有关供油方式（浸油润滑或强制润滑），参见96-97页 Oil supply(dip or forced lubrication), see page 96-97.

布置形式 Design 形式



★输出轴 Output



1) $m8 \leq \phi 100$ $n6 > \phi 100$

有关平键GB/T1095-2003型和中心孔，参见第86页。For parallel key GB/T 1095-2003 and for centre hole, see page 86

2) 键槽GB/T1095-2003。Keyway GB/T1095-2003.

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

4) 有关油泵，油管和护罩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.

平行轴齿轮箱 Helical Gear Units 三级传动 Three Stage 立式安装 Vertical
 类型TLH3.V Type TLH3.V 规格13...18 Size 13...18

规格 Size	尺寸mm Dimensions in mm																	
	输入轴 Input																	
	in=22-45	in=25-50	in=28-56	in=50-63	in=56-71	in=63-80	in=71-90	in=80-100	in=90-112	G1								
13	85	160			60	135			50	110								310
14			85	160				60	135							50	110	310
15	100	200			75	140			60	140								350
16			100	200			75	140					60	140				350
17	100	200			75	140			60	140								380
18			100	200			75	140					60	140				380
19																		
20																		
21																		
22																		

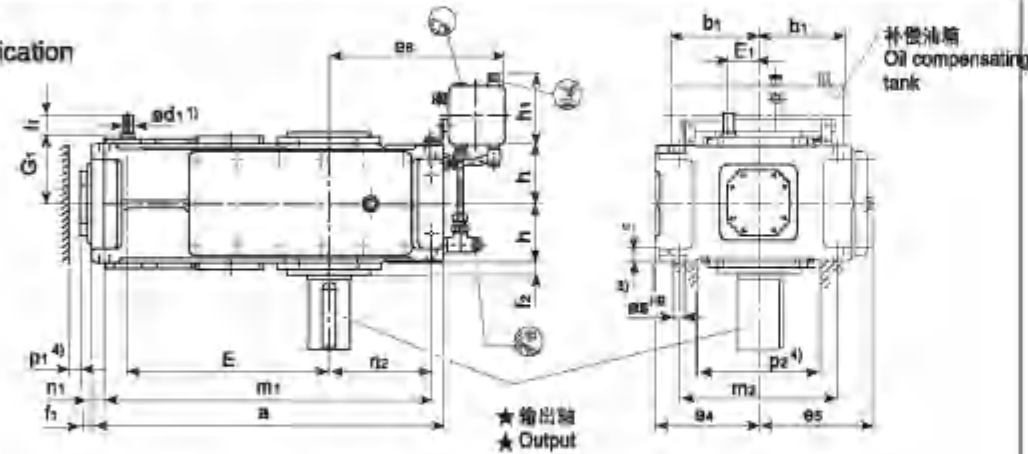
规格 Size	尺寸mm Dimensions in mm														
	齿轮箱 Gear units														
	a	b	c	E	f2	f3	h	m1	m2	n1	n2	p1	p2	s	
13	1395	900	81±2	820	35	170	272.5	1300	880	50	360	50	500	48	
14	1535	900	81±2	890	35	170	272.5	1440	880	50	430	50	500	48	
15	1680	980	72±2	987	42	170	310	1565	750	60	430	50	570	55	
16	1770	980	72±2	1033	42	170	310	1655	750	60	475	50	570	55	
17	1770	1110	81±2	1035	42	210	340	1640	850	70	465	70	630	55	
18	1890	1110	81±2	1095	42	210	340	1760	850	70	525	70	630	55	
19															
20															
21															
22															

规格 Size	TLH3SV			TLH3HV		TLH3DV				TLH3KV				TLH3FV							润滑油 Oil	重量 Weight (kg)	
	d2	h	G2	D2	G2	D2	D3	G2	G3	N/DIN5480		D2	D3	G2	c	d2	D3	k2	mx	t			G2
13	580	350	335	190	335	190	195	335	480	N190x5x30x36x9H		180	195	335	48	580	310	500	20x33	14	480	115	2155
14	620	350	335	210	335	210	215	335	480	N190x5x30x36x9H		180	215	335	48	620	310	540	24x33	14	480	126	2490
15	710	410	380	230	380	230	235	380	550	N220x5x30x42x9H		210	235	380	55	710	360	630	28x33	17	550	180	3280
16	740	410	380	240	380	240	245	380	550	N220x5x30x42x9H		210	245	380	55	740	360	680	30x33	17	550	190	3625
17	750	410	415	250	415	250	260	415	600	N250x5x30x48x9H		240	260	415	60	750	410	660	24x39	18	600	190	4250
18	800	470	415	275	415	280	285	415	600	N250x5x30x48x9H		240	285	415	60	800	410	710	26x39	18	600	200	4740
19-22	敬请垂询 On request																						

平行轴齿轮箱 Helical Gear Units 四级传动 Four Stage 立式安装 Vertical
类型TLH4.V Type TLH4.V 规格7...12 Size 7...12

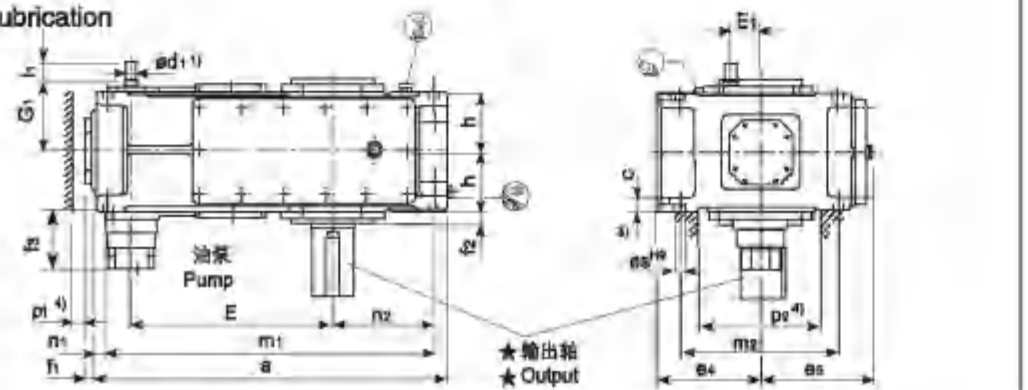
TLH4SV TLH4HV TLH4DV

采用浸油润滑 With dip lubrication



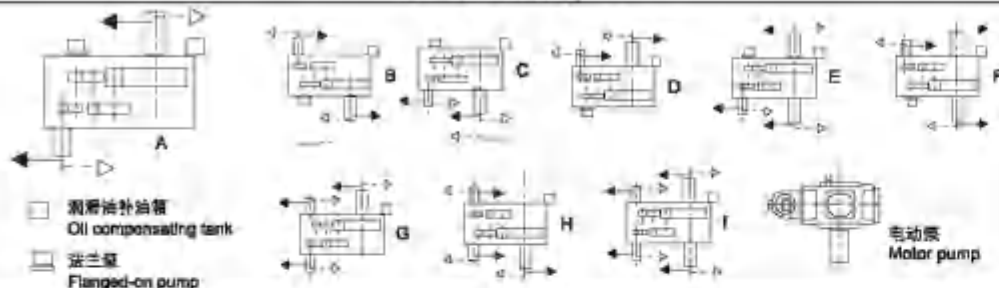
TLH4SV TLH4HV TLH4DV

采用强制润滑 With forced lubrication



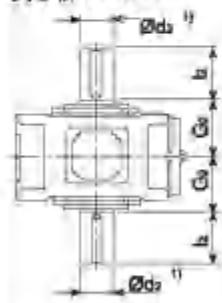
有关供油方式(浸油润滑或强制润滑), 参见96-97页
Oil supply(dip or forced lubrication), see page 96-97.

布置形式 Design 2)

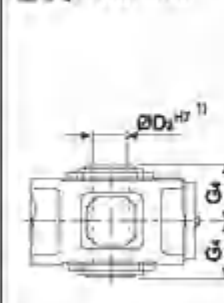


★输出轴 Output

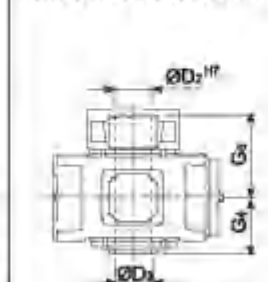
TLH4SV
实心轴 Solid shaft



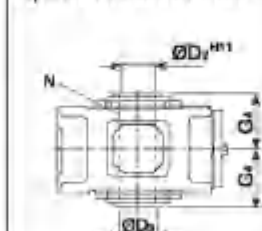
TLH4HV
空心轴 Hollow shaft



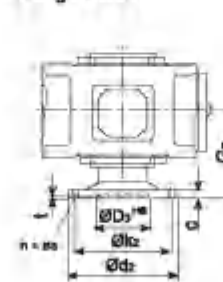
TLH4DV
带轴套的空心轴
Hollow shaft for shrink disk



TLH4KV
带花键的空心轴
按照 DIN 5480
Hollow shaft with involute
splines acc.to DIN 5480



TLH4FV
法兰轴
Flanged shaft



1) $m6 \leq \phi 100$ $n6 > \phi 100$

有关平键GB/T1095-2003型和中心孔, 参见第86页。For parallel key GB/T 1095-2003 and for centre hole, see page 86

2) 键槽GB/T1095-2003。Keyway GB/T1095-2003.

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.

平行轴齿轮箱 Helical Gear Units 四级传动 Four Stage 立式安装 Vertical
类型TLH4.V Type TLH4.V 规格7...12 Size 7...12

规格 Size	尺寸mm Dimensions in mm								G ₁
	输入轴 Input								
	in=100-180		in=125-224		in=200-355		in=250-450		
	d ₁ (1)	h ₁	d ₁ (1)	h ₁	d ₁ (1)	h ₁	d ₁ (1)	h ₁	
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

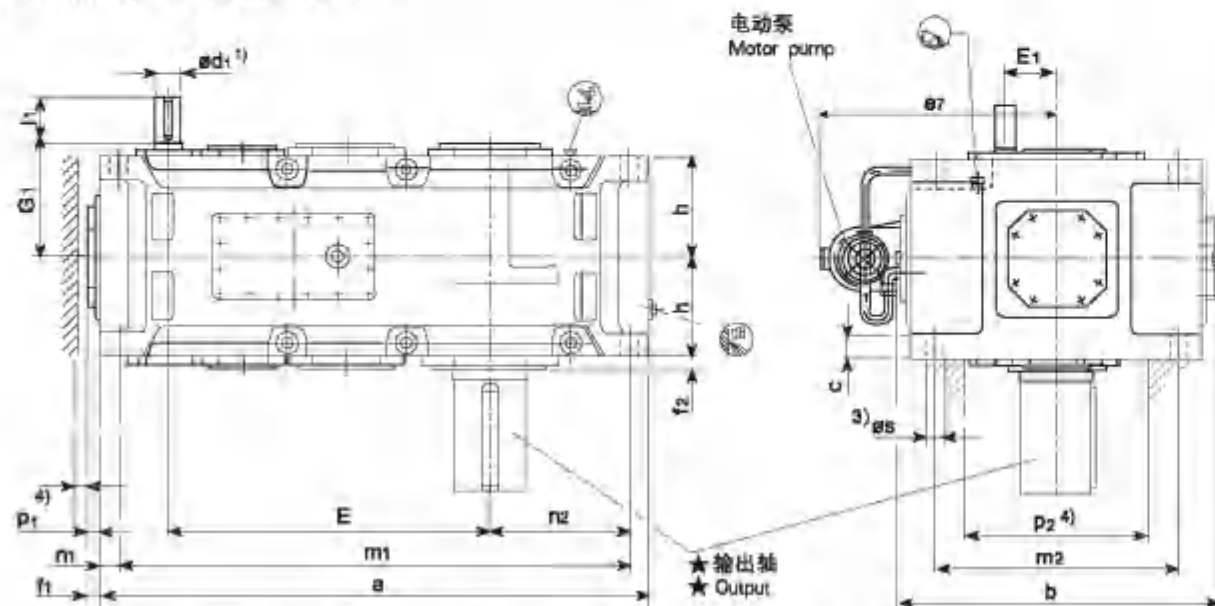
规格 Size	尺寸mm Dimensions in mm										
	齿轮箱 Gear units										
	a	b ₁	c	e ₄	e ₅	e ₆	E	E ₁	f ₁	f ₂	f ₃
7	845	240	36±1	280	282	425	495	80	37	30	160
8	950	240	36±1	280	302	485	540	80	37	32	160
9	1000	330	45±1.5	320	342	580	580	90	43	32	170
10	1100	330	45±1.5	320	342	610	630	90	43	32	170
11	1200	330	54±1.5	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									
	h	h ₁	m ₁	m ₂	n ₁	n ₂	p ⁽¹⁾	p ⁽²⁾	s
7	150	205	775	430	35	215	35	330	28
8	150	205	880	430	35	275	35	330	28
9	185	275	920	490	40	260	40	370	36
10	185	275	1020	490	40	310	40	370	36
11	215	275	1100	600	50	295	50	440	40
12	215	275	1255	600	50	380	50	440	40

规格 Size	TLH4SV			TLH4HV		TLH4DV				TLH4KV				TLH4FV						润滑油 Oil		重量 Weight (kg)	
	d ₂	l ₂	G ₂	D ₂	G ₄	D ₂	D ₂	G ₄	G ₄	N/DIN5480	D ₂	D ₂	G ₄	c	d ₂	D ₂	k ₂	nK ₂	t	G ₇	浸油润滑 Dip lubrication (I)		强制润滑 Forced lubrication (II)
7	120	210	195	115	195	120	120	195	280	N120x3x30x38x9H	114	120	195	30	370	180	320	16x26	10	300	60	44	550
8	130	250	195	125	195	130	130	195	285	N120x3x30x38x9H	114	130	195	30	390	190	340	18x26	10	300	65	48	645
9	140	250	235	135	235	140	145	235	330	N140x3x30x45x9H	134	145	235	38	430	220	380	20x26	12	350	105	78	875
10	160	300	235	150	235	150	155	235	350	N140x3x30x45x9H	134	155	235	38	470	240	420	22x26	12	350	110	81	1010
11	170	300	270	165	270	165	170	270	400	N170x5x30x32x9H	160	170	270	42	510	260	450	18x33	12	400	175	113	1460
12	180	300	270	180	270	180	185	270	405	N170x5x30x32x9H	160	185	270	42	540	280	480	22x33	12	400	200	129	1725

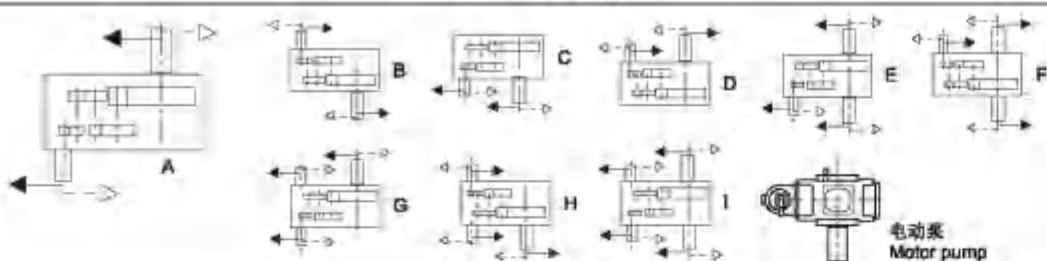
平行轴齿轮箱 Helical Gear Units 四级传动 Four Stage 立式安装 Vertical
类型TLH4.V Type TLH4.V 规格13...18 Size 13...18

TLH4SV TLH4HV TLH4DV
采用强制润滑 With forced lubrication

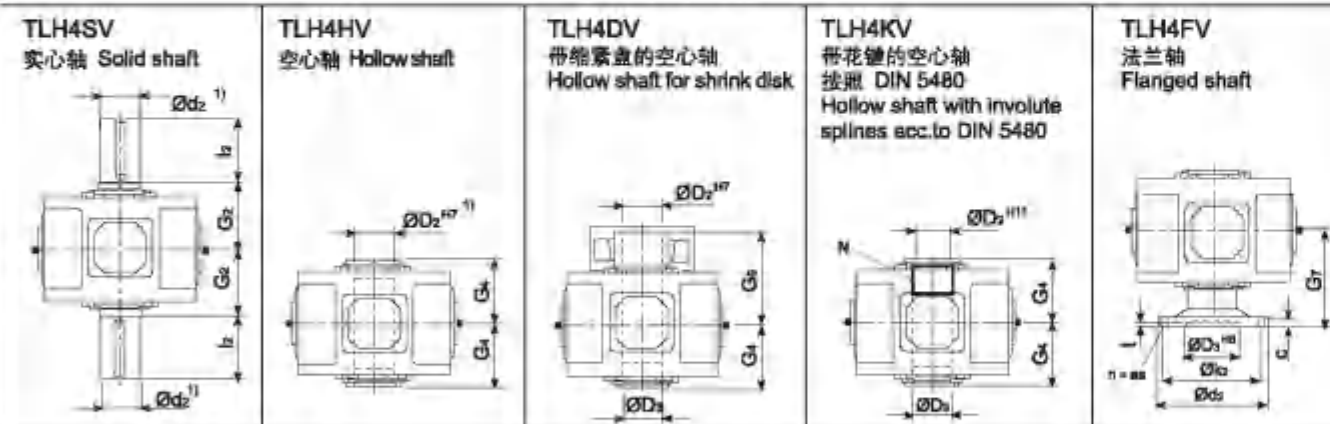


有关供油方式（浸油润滑或强制润滑），参见96-97页 Oil supply (dip or forced lubrication), see page 96-97.

布置形式 Design



★输出轴 Output



1) $m6 \leq \phi 100$ $n6 > \phi 100$

有关平键GB/T1095-2003型和中心孔，参见第86页。For parallel key GB/T 1095-2003 and for centre hole, see page 86

2) 键槽GB/T1095-2003。Keyway GB/T1095-2003.

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.

平行轴齿轮箱 Helical Gear Units 四级传动 Four Stage 立式安装 Vertical
类型TLH4.V Type TLH4.V 规格13...18 Size 13...18

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

根据用户要求供货
On request

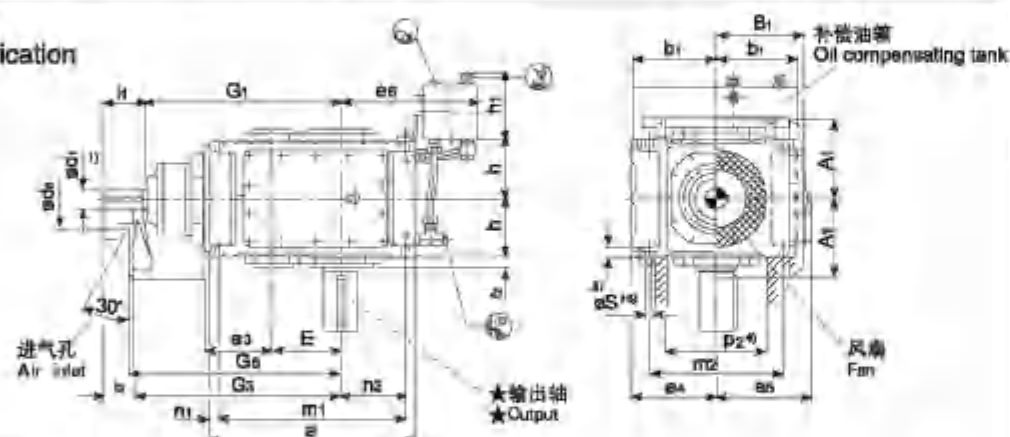
规格 Size	尺寸mm Dimensions in mm																
	齿轮箱 Gear units																
	a	b	c	a ₁	E	E ₁	f ₁	l ₁	h	m ₁	m ₂	n ₁	n ₂	p ⁽⁴⁾	p ⁽⁴⁾	s	
13	1395	900	81±2	695	820	130	47	35	272.5	1300	680	50	360	50	500	48	
14	1535	900	81±2	695	890	130	47	35	272.5	1440	680	50	430	50	500	48	
15	1680	980	72±2	735	987	160	56	42	310	1565	750	60	430	60	570	55	
16	1770	980	72±2	735	1033	160	56	42	310	1655	750	60	475	60	570	55	
17	1770	1110	81±2	795	1035	160	53	42	340	1640	850	70	465	70	630	55	
18	1890	1110	81±2	795	1095	160	53	42	340	1760	850	70	525	70	630	55	
19								根据用户 要求供货 On request									
20																	
21																	
22																	

根据用户
要求供货
On request

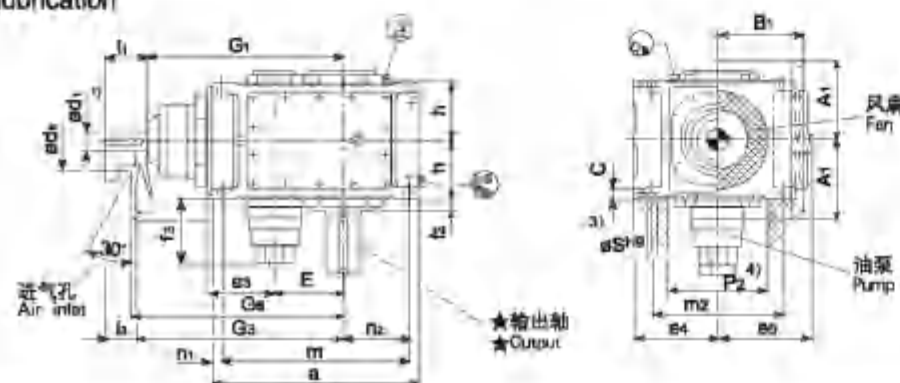
规格 Size	TLH4SV			TLH4HV		TLH4DV				TLH4KV				TLH4FV							润滑油 Oil	重量 Weight (kg)			
	d ₂	l ₂	G ₂	D ₂	G ₄	D ₂	D ₃	G ₄	G ₆	N/DIN5480				D ₂	D ₃	G ₄	c	d ₂	D ₂	k ₂			n _x s	t	G ₇
13	200	350	335	190	335	190	195	335	480	N190x5x30x36x9H				180	195	335	48	580	310	500	20x33	14	480	95	2270
14	210	350	335	210	335	210	215	335	480	N190x5x30x36x9H				180	215	335	48	620	310	540	24x33	14	480	105	2600
15	230	410	380	230	380	230	235	380	550	N220x5x30x42x9H				210	235	380	55	710	360	630	28x33	17	550	150	3440
16	240	410	380	240	380	240	245	380	550	N220x5x30x42x9H				210	245	380	55	740	360	660	30x33	17	550	160	3740
17	250	410	415	250	415	250	260	415	600	N250x5x30x48x9H				240	260	415	60	750	410	660	24x39	18	600	190	4445
18	270	470	415	275	415	280	285	415	600	N250x5x30x48x9H				240	285	415	60	800	410	710	26x39	18	600	200	4915
19-22	敬请垂询 On request																								

直交轴齿轮箱 Bevel-helical Gear Units 二级传动 Two Stage 立式安装 Vertical
类型 TLB2.V Type TLB2.V 规格4...12 Size 4..12

TLB2SV TLB2HV TLB2DV
采用浸油润滑 With dip lubrication

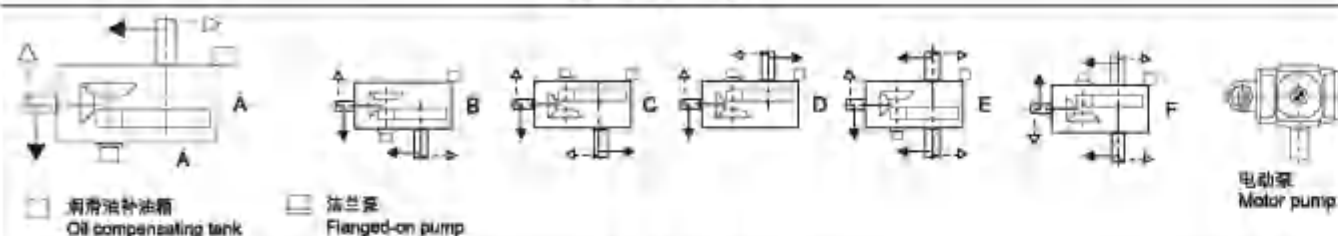


TLB2SV TLB2HV TLB2DV
采用强制润滑 With forced lubrication

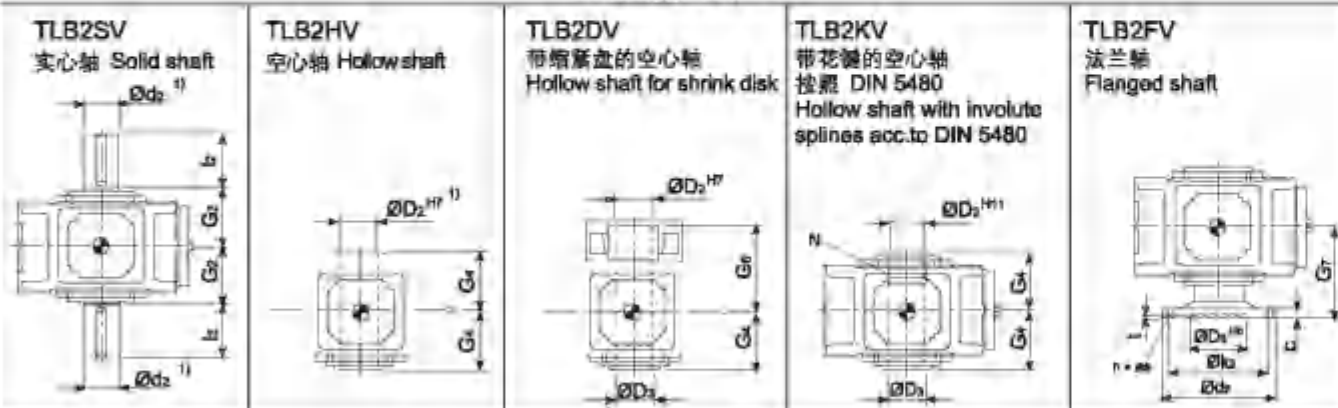


有关供油方式(浸油润滑或强制润滑), 参见 96-97 页
Oil supply(dip or forced lubrication), see page 96-97

布置形式 Design 可



★输出轴 Output



1) $m \leq 100$, $n > 100$

有关平键GB/T1095-2003型和中心孔, 参见第86页。For parallel key GB/T 1095-2003 and for centre hole, see page 86

2) 鏈槽GB/T1095-2003。Keyway GB/T1095-2003

3) 扭力支撐位于工作機側。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.

中国供应链联盟

中国供应链联盟 www.supplychainalliance.cn sales@tailonggearbox.com

直交轴齿轮箱 Bevel-helical Gear Units 二级传动 Two Stage 立式安装 Vertical
类型 TLB2.V Type TLB2.V 规格4...12 Size 4...12

规格 Size	尺寸mm Dimensions in mm									G ₁	G ₂
	输入轴 Input										
	i=5-11.2			i=6.3-14			i=12.5-18				
	d ₁ (1)	b	l _a	d ₁ (1)	b	l _a	d ₁ (1)	b	l _a		
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	130							925	960
12				90	185	130				995	1030

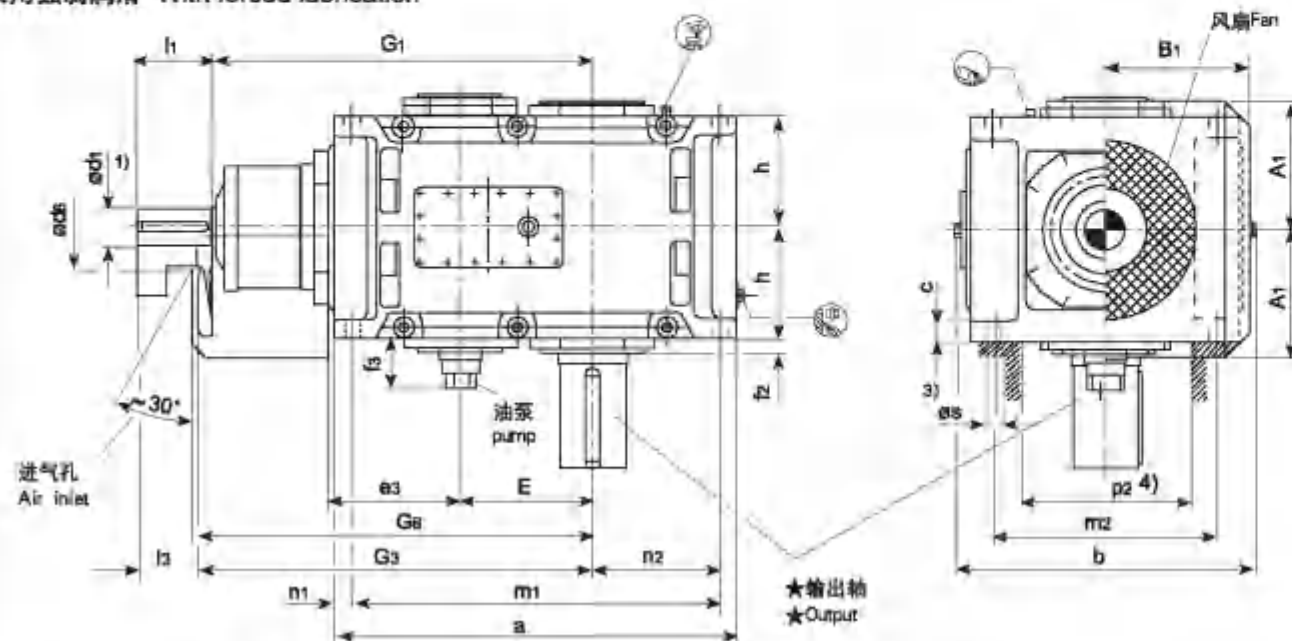
规格 Size	尺寸mm Dimensions in mm											
	齿轮箱 Gear units											
	a	A ₁	b ₁	B ₁	C	d _e	e ₁	e ₂	e ₃	e ₄	E	f ₂
4	505	188	150	200	30±1	150	160	200	215	320	160	25
5	565	215	240	235	30±1	160	185	230	252	385	185	30
6	645	215	240	235	30±1	160	185	230	252	425	220	30
7	690	250	240	285	36±1	210	225	280	302	425	225	32
8	795	250	240	285	36±1	210	225	280	302	485	270	32
9	820	270	330	325	45±1.5	195	265	320	342	560	265	45
10	920	270	330	325	45±1.5	195	265	320	342	610	315	45
11	975	328	330	385	54±1.5	210	320	380	410	595	320	47
12	1130	328	330	385	54±1.5	210	320	380	410	680	390	47

规格 Size	尺寸mm Dimensions in mm									
	齿轮副 Gear units									
	f_0	G_0	h	h_1	m_1	m_2	n_1	n_2	$p_2^{(1)}$	s
4	—	495	135	165	445	300	30	160	220	24
5	190	575	160	205	505	360	30	175	270	24
6	190	610	160	205	585	380	30	220	270	24
7	200	685	190	205	620	430	35	215	330	28
8	200	730	190	205	725	430	35	275	330	28
9	200	805	220	275	740	490	40	260	370	36
10	200	855	220	275	840	490	40	310	370	36
11	200	980	265	275	875	600	50	295	440	40
12	200	1050	265	275	1030	600	50	380	440	40

规格 Size	TLB2SV			TLB2HV		TLB2DV				TLB2KV				TLB2FV							润滑油 Oil		重量 Weight (kg)
	d ₂	l ₂	G ₂	D ₂	G ₄	D ₃	D ₃	G ₄	G ₃	N/DIN5480	D ₂	D ₃	G ₄	c	d ₂	D ₃	k ₂	r ₂ x ₃	l	G ₂	浸油润滑 Dip lubrication (l)	强制润滑 Forced lubrication (l)	
4	80	170	170	80	170	85	85	170	235	-	-	-	-	-	-	-	-	-	-	-	28	-	235
5	100	210	200	95	200	100	100	200	275	N95x3x30x30x9H	89	100	200	25	300	150	260	16x22	10	290	41	20	360
6	110	210	200	105	200	110	110	200	275	N95x3x30x30x9H	89	110	200	25	320	160	280	18x22	10	290	50	23	410
7	120	210	235	115	235	120	120	235	320	N120x3x30x38x9H	114	120	235	30	370	180	320	16x26	10	340	75	35	615
8	130	250	235	125	235	130	130	235	325	N120x3x30x38x9H	114	130	235	30	380	190	340	18x26	10	340	90	38	700
9	140	250	270	135	270	140	145	270	385	N140x3x30x45x9H	134	145	270	38	430	220	380	20x26	12	280	115	53	1000
10	160	300	270	150	270	150	155	270	385	N140x3x30x45x9H	134	155	270	38	470	240	420	22x26	12	385	135	80	1155
11	170	300	320	165	320	165	170	320	450	N170x5x30x32x9H	160	170	320	42	510	260	450	18x33	12	450	190	86	1640
12	180	300	320	180	320	180	185	320	455	N170x5x30x32x9H	160	185	320	42	540	280	480	22x33	12	450	215	95	1910

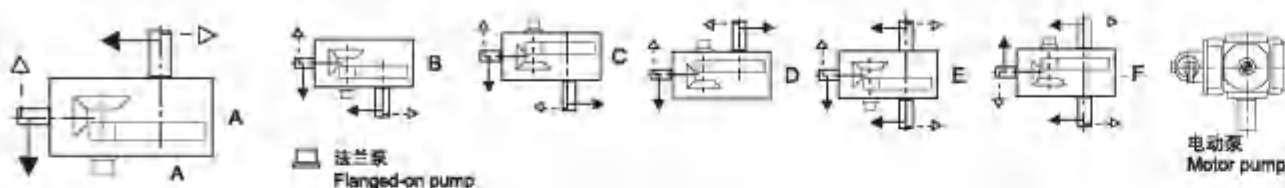
直交轴齿轮箱 Bevel-helical Gear Units 二级传动 Two Stage 立式安装 Vertical
类型 TLB2.V Type TLB2.V 规格13...18 Size 13...18

TLB2SV TLB2HV TLB2DV
采用强制润滑 With forced lubrication

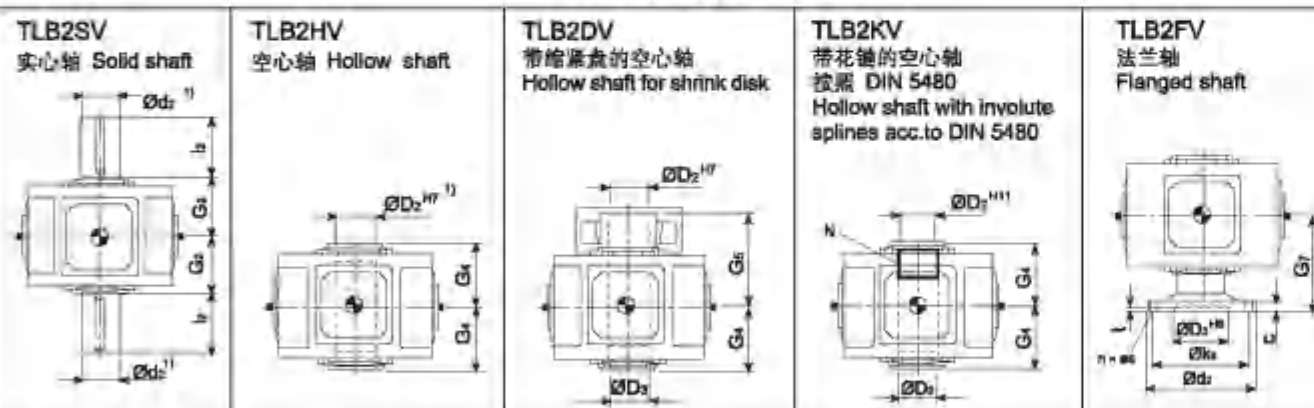


有关供油方式（浸油润滑或强制润滑），参见96—97页 Oil supply(dip or forced lubrication).see page 96—97.

布置形式 Design 3)



★输出轴 Output



1) $m_6 \leq \phi 100$ $n_6 > \phi 100$

有关平键GB/T1095-2003型和中心孔, 参见第86页。For parallel key GB/T 1095-2003 and for centre hole, see page 86

2) 雙槽GB/T1095-2003, Keyway GB/T1095-2003.

3) 扭力支撐位于工作機側。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.

直交轴齿轮箱 Bevel-helical Gear Units 二级传动 Two Stage 立式安装 Vertical
类型 TLB2.V Type TLB2.V 规格 13...18 Size 13...18

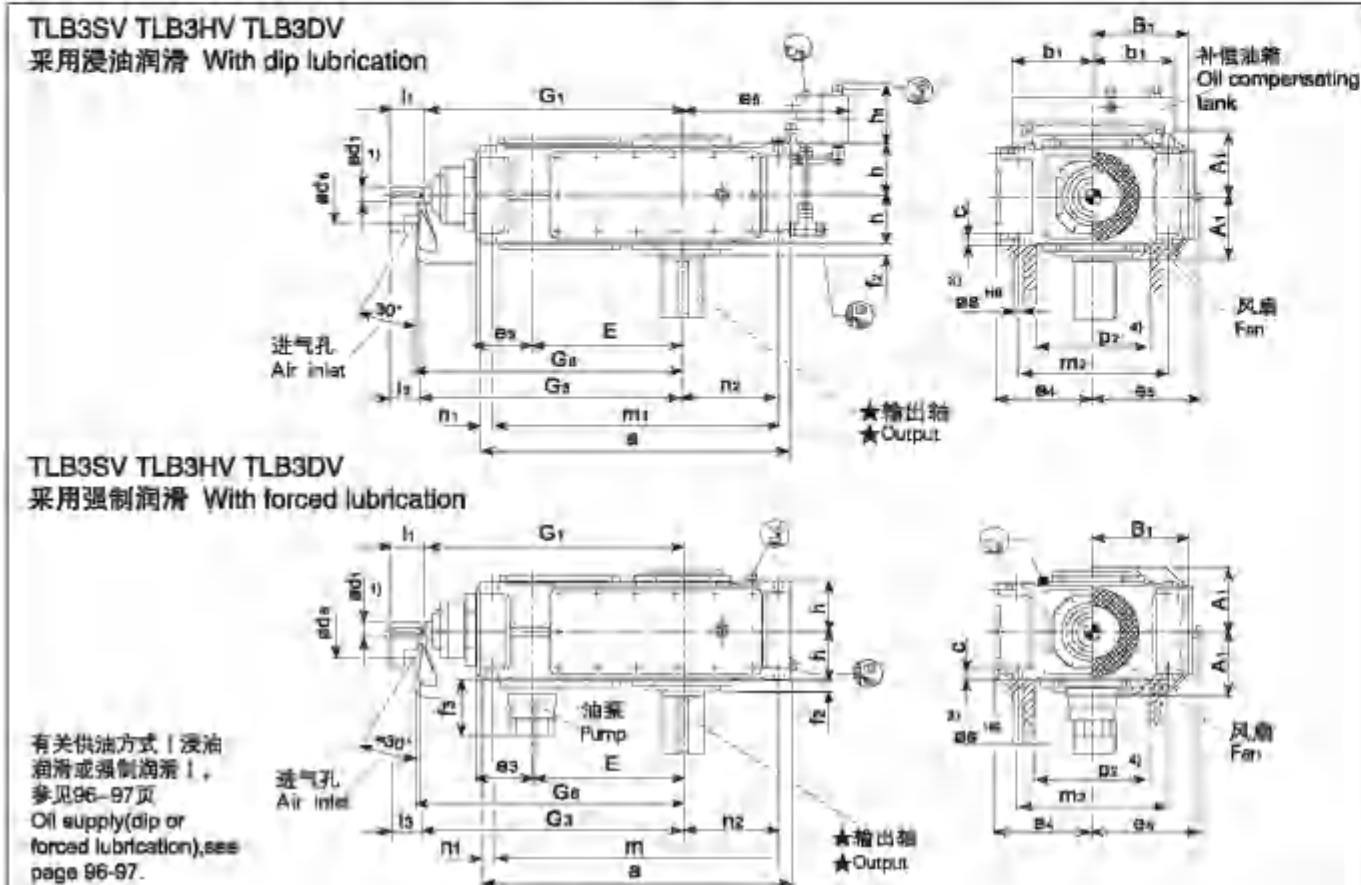
规格 Size	尺寸mm Dimensions in mm																
	输入轴 Input																
	in=5-11.2			in=5.6-11.2			in=5.6-12.5			in=6.3-14			in=7.1-12.5			G ₁	G ₂
	d ₁ ¹⁾	l ₁	l ₂	d ₁ ¹⁾	l ₁	l ₂	d ₁ ¹⁾	l ₁	l ₂	d ₁ ¹⁾	l ₁	l ₂	d ₁ ¹⁾	l ₁	l ₂		
13	110	205	165													1070	1110
14										110	205	165				1140	1180
15	130	245	200													1277	1320
16							130	245	200							1323	1360
17				150	245	200										1435	1480
18													150	245	200	1495	1540

规格 Size	尺寸mm Dimensions in mm									
	齿轮箱 Gear units									
	a	A ₁	b	B ₁	c	d ₀	e ₀	E	f ₀	f ₁
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

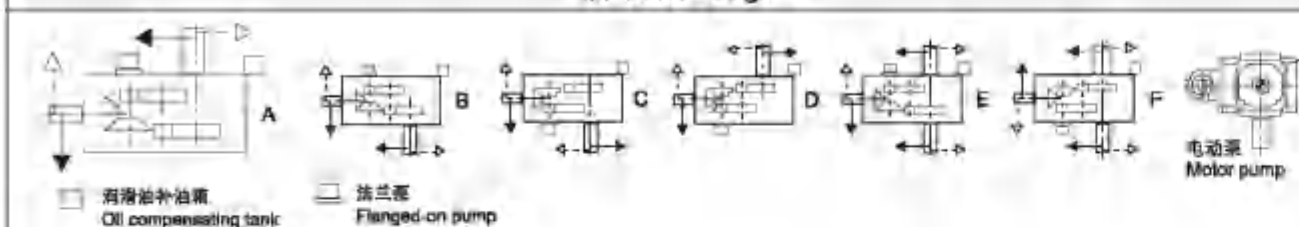
规格 Size	尺寸mm Dimensions in mm							
	齿轮箱 Gear units							
	Ge	h	m1	m2	n1	n2	pz ^{a)}	s
13	1130	325	1035	680	50	360	500	48
14	1200	325	1175	680	50	430	500	48
15	1340	380	1295	750	60	430	570	55
16	1385	380	1325	750	60	475	570	55
17	1500	437.5	1360	840	70	465	630	65
18	1560	437.5	1480	840	70	525	630	65

规格 Size	TLB2SV			TLB2HV		TLB2DV				TLB2KV				TLB2FV							润滑油 Oil	重量 Weight (kg)
	d2	Is	G2	D2	G4	D2	D2	G4	G5	N/DIN5480	D2	D2	G4	c	d2	D2	k2	nH2	t	G2		
13	200	350	390	-	-	-	-	-	-	-	-	-	-	48	580	310	500	20x33	14	525	125	235
14	210	350	390	210	390	210	215	390	535	N190x5x30x36x9H	180	215	390	48	620	310	540	24x33	14	525	140	272
15	230	410	480	-	-	-	-	-	-	-	-	-	-	55	710	360	630	28x33	17	625	190	379
16	240	410	460	240	450	240	245	450	620	N220x5x30x42x9H	210	245	450	55	740	360	680	30x33	17	625	200	416
17	250	410	540	-	-	-	-	-	-	-	-	-	-	60	750	410	660	24x39	18	695	270	532
18	270	470	540	275	510	280	285	510	700	N250x5x30x48x9H	240	285	510	60	800	410	710	26x39	18	695	295	586

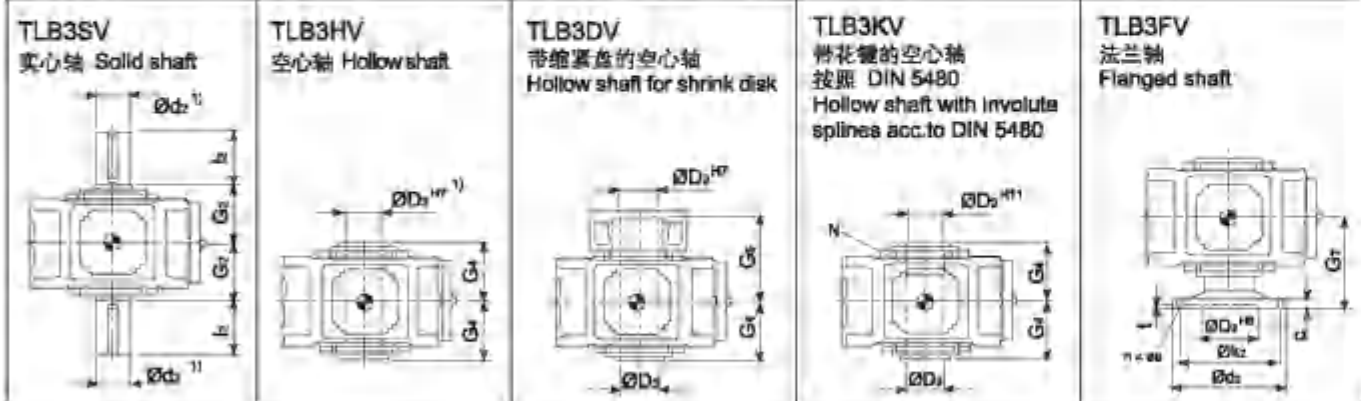
直交轴齿轮箱 Bevel-helical Gear Units 三级传动 Three Stage 立式安装 Vertical
 类型 TLB3.V Type TLB3.V 规格4...12 Size 4...12



布置形式 Design 96



★输出轴 Output

1) $m6 \leq \phi 100$ $n6 > \phi 100$

有关平键GB/T1095-2003型和中心孔，参见第86页。For parallel key GB/T 1095-2003 and for centre hole, see page 86.

2) 键槽GB/T1095-2003。Keyway GB/T 1095-2003.

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

4) 有关油泵，油管和护罩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.

直交轴齿轮箱 Bevel-helical Gear Units 三级传动 Three Stage 立式安装 Vertical
 类型 TLB3.V Type TLB3.V 规格4...12 Size 4...12

规格 Size	尺寸mm Dimensions in mm											
	输入轴 Input											
	$i=12.5-45$			$i=16-56$			$i=20-45$			$i=50-71$		
	d_1	l_1	l_2	d_1	l_1	l_2	d_1	l_1	l_2	d_1	l_1	l_2
4	30	70	50							25	80	40
5	35	80	60							28	80	40
6				35	80	60						
7	45	100	80							35	80	60
8				45	100	80						
9	55	110	80							40	100	70
10				55	110	80						
11	70	135	105							50	110	80
12				70	135	105						

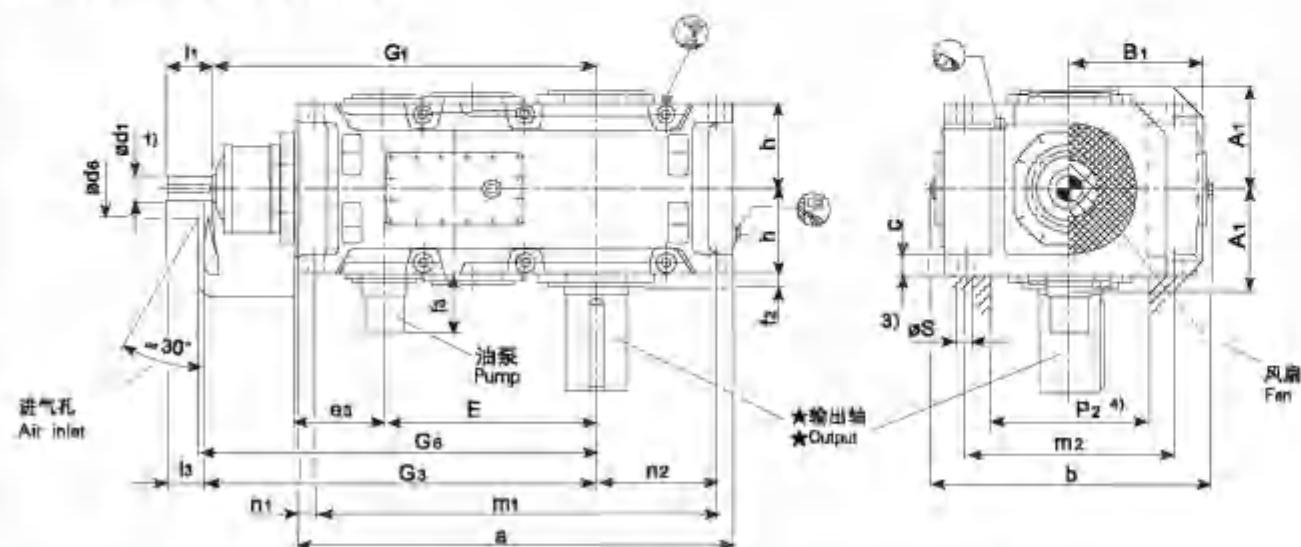
规格 Size	尺寸mm Dimensions in mm											
	齿轮箱 Gear Units											
	a	A ₁	b ₁	B ₁	c	d ₁	e ₁	e ₂	e ₃	e ₄	E	f ₂
4	565	143	150	200	30±1	110	110	200	215	320	270	22
5	640	168	240	235	30±1	130	130	230	252	385	315	28
6	720	188	240	235	30±1	130	130	230	252	425	350	28
7	785	193	240	275	36±1	165	160	280	302	425	385	30
8	890	193	240	275	38±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	410	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 units									
	l ₂	G ₂	h	h ₁	m	m ₂	n	n ₂	p ₂	s
4	-	530	107.5	165	505	300	30	160	220	24
5	190	805	127.5	205	580	360	30	175	270	24
6	190	640	127.5	205	660	360	30	220	270	24
7	200	720	150	205	715	430	35	215	330	28
8	200	765	150	205	820	430	35	275	330	28
9	200	845	185	275	845	490	40	280	370	36
10	200	895	185	275	945	490	40	310	370	36
11	200	1010	215	275	1005	600	50	295	440	40
12	200	1080	215	275	1160	600	50	380	440	40

规格 Size	TLB3SV			TLB3HV		TLB3DV				TLB3KV				TLB3FV							润滑油 Oil		重量 Weight (kg)	
	d ₁	l ₁	G ₁	D ₁	G ₁	D ₂	D ₃	G ₂	G ₃	N/DIN5480	D ₂	D ₃	G ₂	c	d ₂	D ₃	k ₂	n ₂ s	t	G ₂	浸油润滑 Dip lubrication (l)	强制润滑 Forced lubrication (l)		
4	80	170	140	80	140	85	85	140	205	-	-	-	-	-	-	-	-	-	-	-	-	28	-	210
5	100	210	165	95	165	100	100	165	240	N95x3x30x30x9H	89	100	165	25	300	150	260	16x22	10	255	32	17	325	
6	110	210	165	105	165	110	110	165	240	N95x3x30x30x9H	89	110	165	25	320	160	280	18x22	10	255	35	18	360	
7	120	210	185	115	185	120	120	185	280	N120x3x30x38x9H	114	120	185	30	370	180	320	16x26	10	300	52	30	550	
8	130	250	195	125	195	130	130	195	285	N120x3x30x38x9H	114	130	195	30	390	190	340	18x26	10	300	67	34	635	
9	140	250	235	135	235	140	145	235	330	N140x3x30x45x9H	134	145	235	38	430	220	380	20x26	12	350	115	48	890	
10	160	300	235	150	235	150	155	235	350	N140x3x30x45x9H	134	155	235	38	470	240	420	22x26	12	350	125	52	1020	
11	170	300	270	165	270	165	170	270	400	N170x5x30x32x9H	160	170	270	42	510	260	450	18x33	12	400	180	77	1455	
12	180	300	270	180	270	180	185	270	405	N170x5x30x32x9H	160	185	270	42	540	280	480	22x33	12	400	200	87	1730	

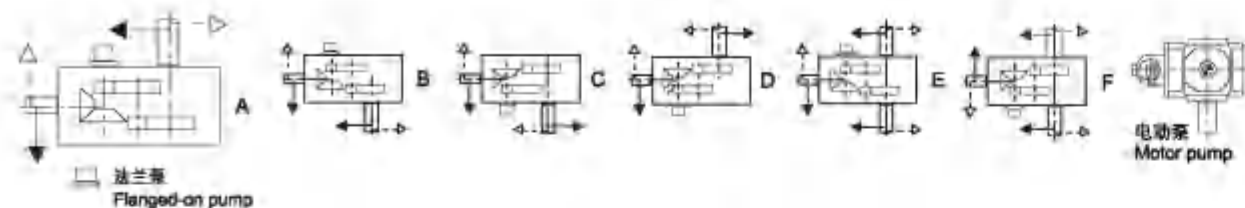
直交轴齿轮箱 Bevel-helical Gear Units 三级传动 Three Stage 立式安装 Vertical
类型 TLB3.V Type TLB3.V 规格13...18 Size 13...18

TLB3SV TLB3HV TLB3DV
采用浸油润滑 With dip lubrication



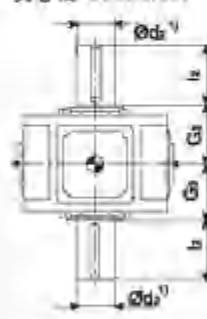
有关供油方式(浸油润滑或强制润滑),参见96-97页 Oil supply(dip or forced lubrication),see page 96-97.

布置形式 Design 3)

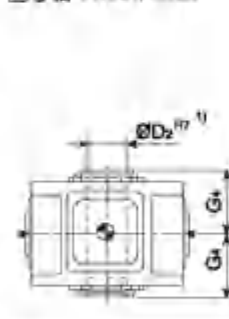


★输出轴 Output

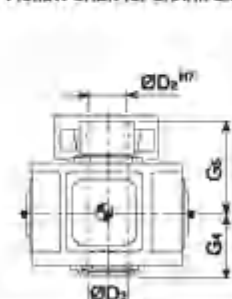
TLB3SV
实心轴 Solid shaft



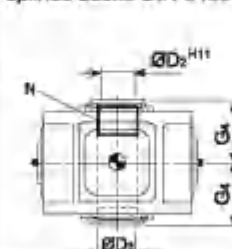
TLB3HV
空心轴 Hollow shaft



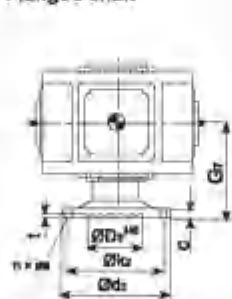
TLB3DV
带端盖的空心轴
Hollow shaft for shrink disk



TLB3KV
带花键的空心轴
按照 DIN 5480
Hollow shaft with involute
splines acc.to DIN 5480



TLB3FV
法兰轴
Flanged shaft



1) $m6 \leq \phi 100$ $m6 > \phi 100$

有关平键GB/T1095-2003型和中心孔,参见第86页。For parallel key GB/T 1095-2003 and for centre hole,see page 86

2) 键槽GB/T1095-2003, Keyway GB/T1095-2003.

3) 扭力支撑位于工作侧。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.

直交轴齿轮箱 Bevel-helical Gear Units 三级传动 Three Stage 立式安装 Vertical
类型 TLB3.V Type TLB3.V 规格13...18 Size 13...18

规格 Size	尺寸mm Dimensions in mm																					
	输入轴 Input																					
	in=12.5-45			in=14-50			in=16-56			in=50-71			in=56-80			in=63-90			G ₁	G ₂		
d ₁ (1)	l ₁	l ₂	d ₁ (2)	l ₁	l ₂	d ₁ (3)	l ₁	l ₂	d ₁ (4)	l ₁	l ₂	d ₁ (5)	l ₁	l ₂	d ₁ (6)	l ₁	l ₂					
13	80	165	130							60	140	105							1125	118		
14							80	165	130							60	140	105	1195	123		
15	90	165	130							70	140	105							1367	140		
16				90	165	130							70	140	105				1413	144		
17	110	205	165							80	170	130							1560	160		
18				110	205	165							80	170	130				1620	166		
19																						
20										根据用户要求供货 On request												
21																						
22																						

规格 Size	尺寸mm Dimensions in mm									
	齿轮箱 Gear units									
	a	A ₁	b	B ₁	c	d ₄	e ₁	E	f ₁	f ₂
13	1290	325	900	475	81±2	210	265	635	35	170
14	1430	325	900	475	81±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	395	1110	570	81±2	230	370	860	42	170
18	1860	395	1110	570	81±2	230	370	920	42	170
19										
20										
21										
22										

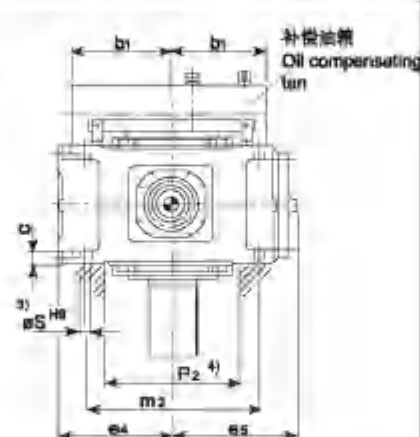
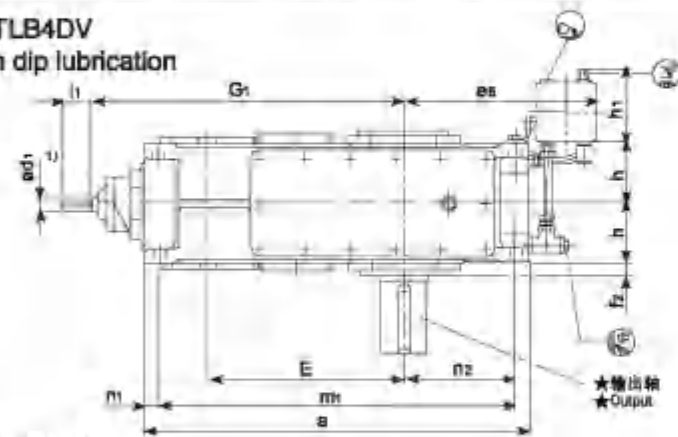
规格 Size	尺寸mm Dimensions in mm							
	齿轮箱 Gear units							
	G _a	h	m ₁	m ₂	n ₁	n ₂	p ₂ (1)	s
13	1180	272.5	1195	680	50	360	500	48
14	1250	272.5	1330	680	50	430	500	48
15	1420	310	1435	750	60	430	570	55
16	1470	310	1525	750	60	475	570	55
17	1620	340	1610	850	70	465	630	55
18	1680	340	1730	850	70	525	630	55
19			根据用户需求供货 On request					
20								
21								
22								

规格 Size	TLB3SV			TLB3HV		TLB3DV				TLB3KV				TLB3FV							润滑油 Oil	重量 Weight (kg)			
	d ₂	b ₂	G ₂	D ₂	G ₄	D ₂	D ₃	G ₄	G ₅	N/DIN5480				D ₂	D ₃	G ₄	c	d ₂	D ₃	k ₂			mxs	t	G ₇
13	200	350	335	190	335	190	195	335	480	N190x5x30x38x9H				180	195	335	48	580	310	500	20x33	14	480	115	2280
14	210	350	335	210	335	210	215	335	480	N190x5x30x36x9H				180	215	335	48	620	310	540	24x33	14	480	130	2615
15	230	410	380	230	380	230	235	380	550	N220x5x30x42x9H				210	235	380	55	710	360	630	28x33	17	550	180	3540
16	240	410	380	240	380	240	245	380	550	N220x5x30x42x9H				210	245	380	55	740	360	660	30x33	17	550	190	3765
17	250	410	415	250	415	250	260	415	600	N250x5x30x48x9H				240	260	415	60	750	410	660	24x39	18	600	260	4760
18	270	470	415	275	415	280	285	415	600	N250x5x30x48x9H				240	285	415	60	800	410	710	26x39	18	600	275	5240
19-22	敬请垂询 On request.																								

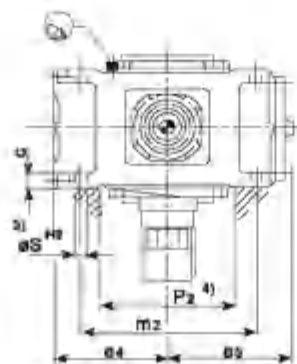
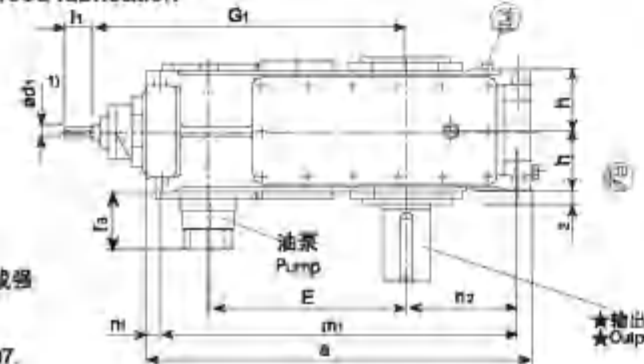
敬请垂询 On request.

直交轴齿轮箱 Bevel-helical Gear Units 四级传动 Four Stage 立式安装 Vertical
类型 TLB4.V Type TLB4.V 规格5...12 Size 5...12

TLB4SV TLB4HV TLB4DV
采用浸油润滑 With dip lubrication

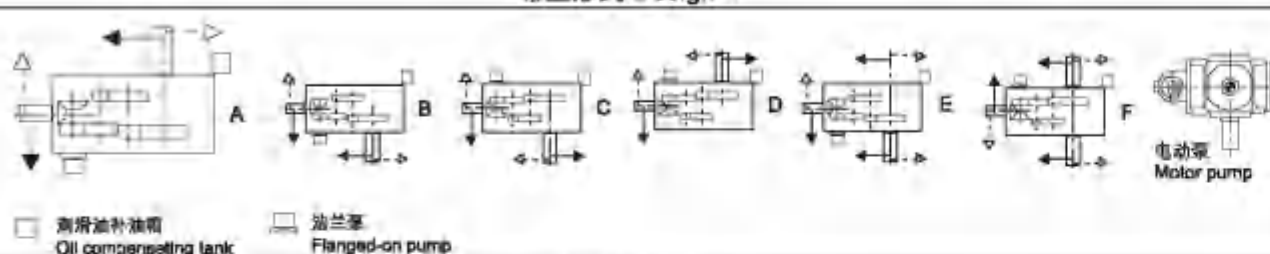


TLB4SV TLB4HV TLB4DV
采用强制润滑 With forced lubrication



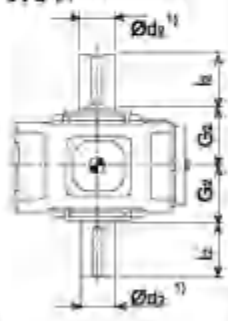
有关供油方式(浸油润滑或强制润滑), 参见96-97页
Oil supply(dip or forced lubrication), see page 96-97.

布置形式 Design 3)

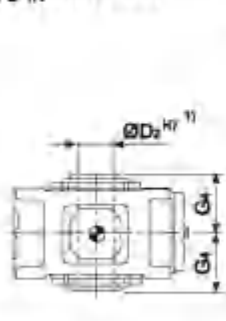


★输出轴 Output

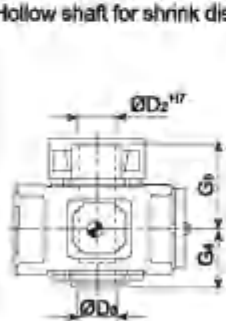
TLB4SV
实心轴 Solid shaft



TLB4HV
实心轴 Solid shaft



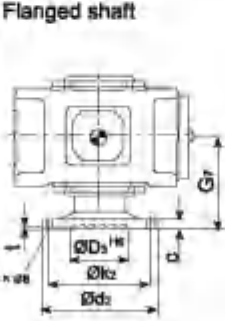
TLB4DV
带缩紧套的空心轴
Hollow shaft for shrink disk



TLB4KV
带花键的空心轴
按照 DIN 5480
Hollow shaft with involute
splines acc.to DIN 5480



TLB4FV
法兰轴
Flanged shaft



1) $m6 \leq \phi 100$ $m6 > \phi 100$

有关平键GB/T1095-2003型和中心孔, 参见第86页。For parallel key GB/T 1095-2003 and for centre hole, see page 86

2) 键槽GB/T1095-2003。Keyway GB/T1095-2003.

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, please refer to us.

中国供应链联盟 www.supplychainalliance.cn sales@tailonggearbox.com

直交轴齿轮箱 Bevel-helical Gear Units 四级传动 Four Stage 立式安装 Vertical
类型 TLB4.V Type TLB4.V 规格5...12 Size 5...12

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		G _r
d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁		
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	1060

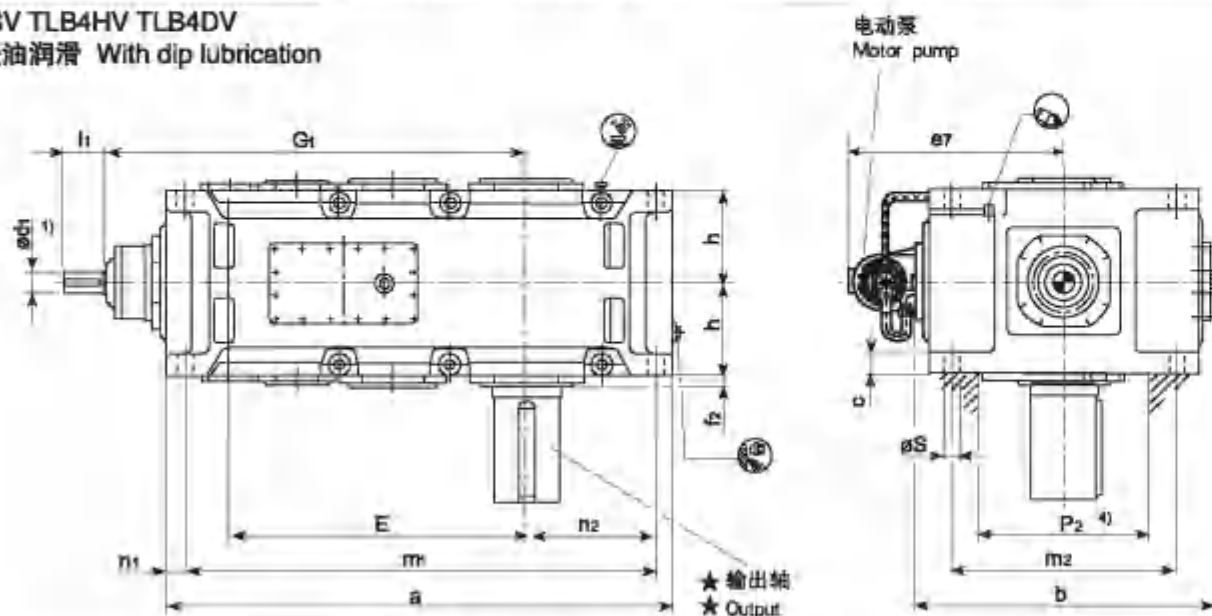
规格 Size	尺寸mm Dimensions in mm								
	齿轮箱 Gear units								
	a	b ₁	c	a ₁	a ₂	a ₃	E	f ₂	f ₃
5	690	240	30 ± 1	230	252	385	405	28	200
6	770	240	30 ± 1	230	252	425	440	28	200
7	845	240	36 ± 1	280	292	425	495	30	120
8	950	240	36 ± 1	280	302	485	540	32	120
9	1000	330	45 ± 1.5	320	342	560	580	32	120
10	1100	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 units							
	h	h ₁	m ₁	m ₂	n ₁	n ₂	p ₂	s
5	127.5	205	630	360	30	175	270	24
6	127.5	205	710	360	30	220	270	24
7	150	205	775	430	35	215	330	28
8	150	205	880	430	35	275	330	28
9	185	275	920	490	40	260	370	36
10	185	275	1020	490	40	310	370	36
11	215	275	1100	600	50	295	440	40
12	215	275	1255	600	50	380	440	40

规格 Size	TLB4SV			TLB4HV		TLB4DV				TLB4KV				TLB4FV							润滑油 Oil		重量 Weight (kg)
	d ₂	l ₂	G ₂	D ₂	G ₄	D ₂	D ₃	G ₄	G ₅	N/DIN5480	D ₂	D ₃	G ₄	c	d ₂	D ₂	k ₂	n×s	t	G ₇	浸油 Dip lubrication (l)	强制 Forced lubrication (l)	
5	100	210	165	95	165	100	100	165	240	N95x3x30x30x9H	89	100	165	25	300	150	260	16x22	10	255	36	18	335
6	110	210	165	106	165	110	110	165	240	N95x3x30x30x9H	89	110	165	25	320	160	280	18x22	10	255	40	20	385
7	120	210	195	115	195	120	120	195	280	N120x3x38x38x9H	114	120	195	30	370	180	320	16x26	10	300	65	32	555
8	130	250	195	125	195	130	130	195	285	N120x3x38x38x9H	114	130	195	30	390	190	340	18x26	10	300	73	36	655
9	140	250	235	135	235	140	145	235	330	N140x3x45x45x9H	134	145	235	38	430	220	380	20x26	12	350	105	52	890
10	160	300	235	150	235	150	155	235	350	N140x3x45x45x9H	134	155	235	38	470	240	420	22x26	12	350	110	55	1025
11	170	300	270	165	270	165	170	270	400	N170x5x32x32x9H	160	170	270	42	510	260	450	18x33	12	400	175	87	1485
12	180	300	270	180	270	180	185	270	405	N170x5x32x32x9H	160	185	270	42	540	280	480	22x33	12	400	200	100	1750

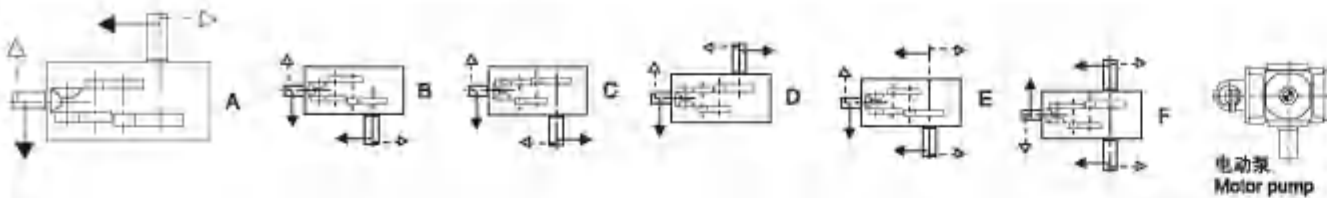
直交轴齿轮箱 Bevel-helical Gear Units 四级传动 Four Stage 立式安装 Vertical
类型 TLB4.V Type TLB4.V 规格 13...18 Size 13...18

TLB4SV TLB4HV TLB4DV
采用浸油润滑 With dip lubrication

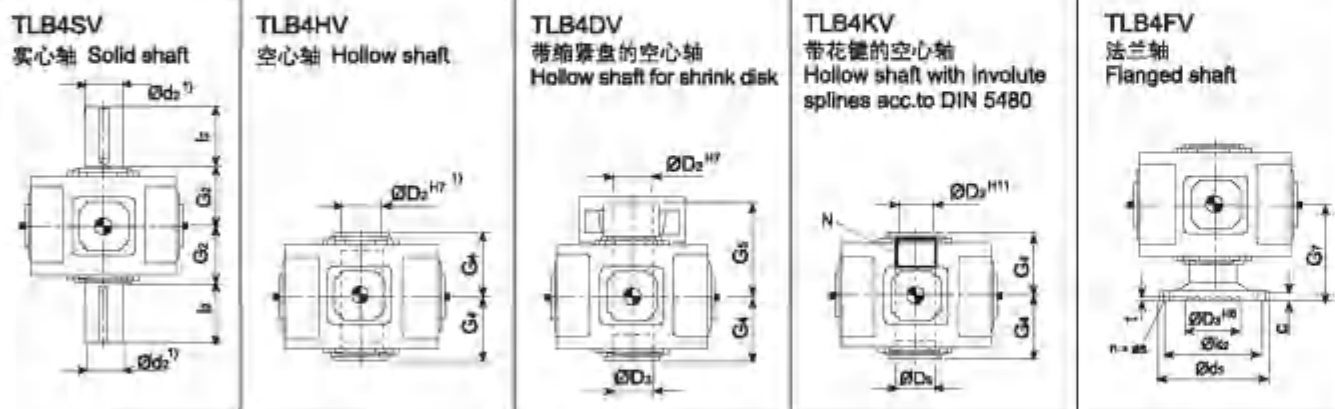


有关供油方式（浸油润滑或强制润滑），参见96-97页 Oil supply(dip or forced lubrication), see page 96-97.

布置形式 Design



★输出轴 Output



1) $m6 \leq \phi 100$ $n6 > \phi 100$

有关平键GB/T1095-2003型和中心孔，参见第86页。For parallel key GB/T 1095-2003 and for centre hole, see page 86

2) 键槽GB/T1095-2003。Keyway GB/T1095-2003.

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.

直交轴齿轮箱 Bevel-helical Gear Units 四级传动 Four Stage 立式安装 Vertical
类型 TLB4.V Type TLB4.V 规格 13...18 Size 13...18

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	
	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁	d ₁ ¹⁾	l ₁
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												
20												
21												
22												

根据用户要求供货
On request

规格 Size	尺寸mm Dimensions in mm												
	齿轮箱 Gear units												
	a	b	c	ø7	E	f ₂	h	m ₁	m ₂	n ₁	n ₂	p ₂ ²⁾	s
13	1395	900	61±2	695	820	35	272.5	1300	680	50	360	500	48
14	1535	900	61±2	695	890	35	272.5	1440	680	50	430	500	48
15	1680	980	72±2	735	987	42	310	1565	750	60	430	570	55
16	1770	980	72±2	735	1033	42	310	1655	750	60	475	570	55
17	1770	1110	81±2	795	1035	42	340	1640	850	70	485	630	55
18	1890	1110	81±2	795	1095	42	340	1760	850	70	525	630	55
19													
20													
21													
22													

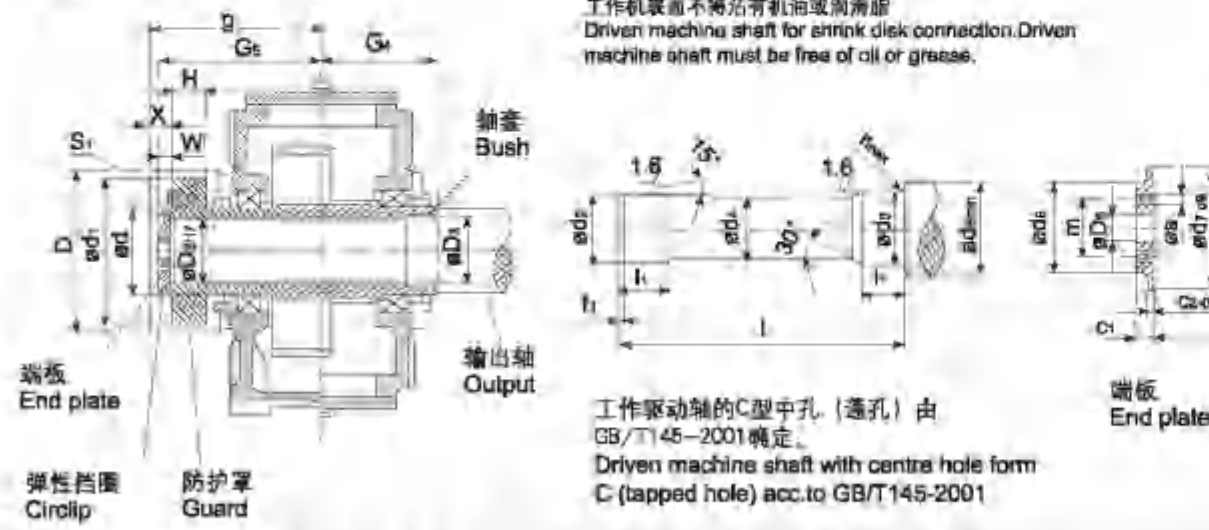
根据用户
要求供货
On
request

规格 Size	TLB4SV			TLB4HV		TLB4DV				TLB4KV				TLB4FV							润滑油 Oil	重量 Weight (kg)
	d ₂	l ₂	G ₂	D ₂	G ₄	D ₂	D ₃	G ₄	G ₅	N/DIN5480	D ₂	D ₃	G ₄	c	d ₂	D ₂	k ₂	nxs	t	G ₇		
13	200	350	335	190	335	190	195	335	480	N190x5x30x36x9H	180	195	335	48	580	310	500	20x33	14	480	130	2280
14	210	350	335	210	335	210	215	335	480	N190x5x30x36x9H	180	215	335	48	620	310	540	24x33	14	480	150	2605
15	230	410	380	230	380	230	235	380	550	N220x5x30x42x9H	210	235	380	55	710	360	630	28x33	17	550	200	3435
16	240	410	380	240	380	240	245	380	550	N220x5x30x42x9H	210	245	380	55	740	360	660	30x33	17	550	235	3765
17	250	410	415	250	415	250	260	415	600	N250x5x30x48x9H	240	260	415	60	750	410	660	24x39	18	600	215	4460
18	270	470	415	275	415	280	285	415	600	N250x5x30x48x9H	240	285	415	60	800	410	710	26x39	18	600	250	4930
19-22	敬请垂询 On request																					

齿轮箱 Gear Units 胀紧盘的空心轴 Hollow Shaft For Shrink Disk

类型 TLH2, TLH3, TLH4, TLB3, TLB4 Type TLH2, TLH3, TLH4, TLB3, TLB4

规格 4...26 Sizes 4...26

X=要求预留的力矩扳手空间
X=Space required for torque wrench用于胀紧盘联接的工作机驱动轴。
工作机表面不得沾有油污或润滑油。
Driven machine shaft for shrink disk connection. Driven
machine shaft must be free of oil or grease.

类型 TLH2D, TLH3D, TLH4D, TLB3D, TLB4D, Type TLH2D, TLH3D, TLH4D, TLB3D, TLB4D

齿轮箱规格 Gear unit size	工作机驱动轴 Driven machine shaft								端板 End plate								弹性挡圈 Ring Circlip	空心轴 Hollow shaft				胀紧套 Shrink disk					螺钉 Screw
	da	db	dc	de	df	dg	dh	di	ej	ek	el	em	en	eo	数量 Qty.	GB89/3.2-88	De	Dr	Ge	Gs	类型 Type	d	di	H	W	s	
	mm																mm										
4	85ge	85he	84.5	95	4	326	48	2	17	7	90	70	22	50	M8	2	90x3	85	85	140	206	110-12	110	185	49	20	M12
5	100ge	100he	99.5	114	5	383	53	2	20	8	105	80	26	55	M10	2	105x4	100	100	165	240	125-12	125	215	53	20	M12
6	110ge	110he	109.5	124	5	453	58	3	20	8	115	85	26	50	M10	2	115x4	110	110	165	240	140-12	140	230	58	50	M14
7	120ge	120he	119.5	134	5	453	66	3	20	8	125	90	26	65	M12	2	125x4	120	120	195	280	155-12	155	263	62	23	M14
8	130ge	130he	129.5	145	6	458	73	3	20	8	135	100	26	70	M12	2	135x4	130	130	195	285	165-12	165	290	68	23	M16
9	140ge	145me	139.5	160	6	538	82	4	23	10	150	110	33	80	M12	2	150x4	140	145	235	330	175-12	175	300	68	28	M16
10	150ge	155me	149.5	170	6	569	92	4	23	10	160	120	33	90	M12	2	160x4	150	155	235	350	200-12	200	350	85	28	M16
11	165ge	170me	164.5	185	7	644	112	4	23	10	175	130	33	90	M12	2	175x4	165	170	270	400	220-12	220	370	103	30	M20
12	180ge	185me	179.5	200	7	649	122	4	25	10	190	140	33	100	M16	2	190x4	180	185	270	405	240-12	240	405	107	30	M20
13	190ge	195me	189.5	213	7	788	137	5	23	10	200	150	33	110	M16	2	200x4	190	195	335	480	260-12	260	430	119	30	M20
14	210ge	215me	209.5	233	8	784	147	5	28	14	220	170	33	130	M16	2	220x5	210	215	335	480	280-12	280	480	132	30	M20
15	230ge	235me	229.5	253	8	899	157	5	28	14	240	180	39	140	M16	2	240x5	230	235	380	550	300-12	300	485	140	35	M24
16	240ge	245me	239.5	263	8	899	157	5	28	14	250	190	39	150	M20	2	250x5	240	245	380	550	320-12	320	520	140	35	M24
17	250ge	260me	249.5	275	8	982	177	5	30	14	265	200	39	150	M20	2	265x5	250	260	415	600	340-12	340	570	155	35	M24
18	260ge	265me	279.5	306	9	982	177	5	30	14	280	210	39	160	M20	2	290x5	280	285	415	600	360-12	360	580	162	35	M24
19	285ge	295me	284.5	316	9	1100	187	5	32	15	300	220	39	170	M24	2	300x5	285	295	465	670	380-12	380	640	166	40	M27
20	310ge	315me	309.5	336	9	1100	187	5	32	15	320	230	39	180	M24	2	320x6	310	315	465	670	390-12	390	650	166	40	M27
21	330ge	335me	329	358	9	1160	205	5	40	20	340	250	45	190	M24	2	340x6	330	335	490	715	420-12	420	670	186	45	M27
22	340ge	345me	329	368	9	1170	215	5	40	20	350	260	45	200	M24	2	350x6	340	345	490	725	440-12	440	720	194	45	M27
23																											
24																											
25																											
26																											

根据用户要求供货
On request

1) 胀紧盘不在我们的供货范围之内。如有需要的话, 请另行订货。

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

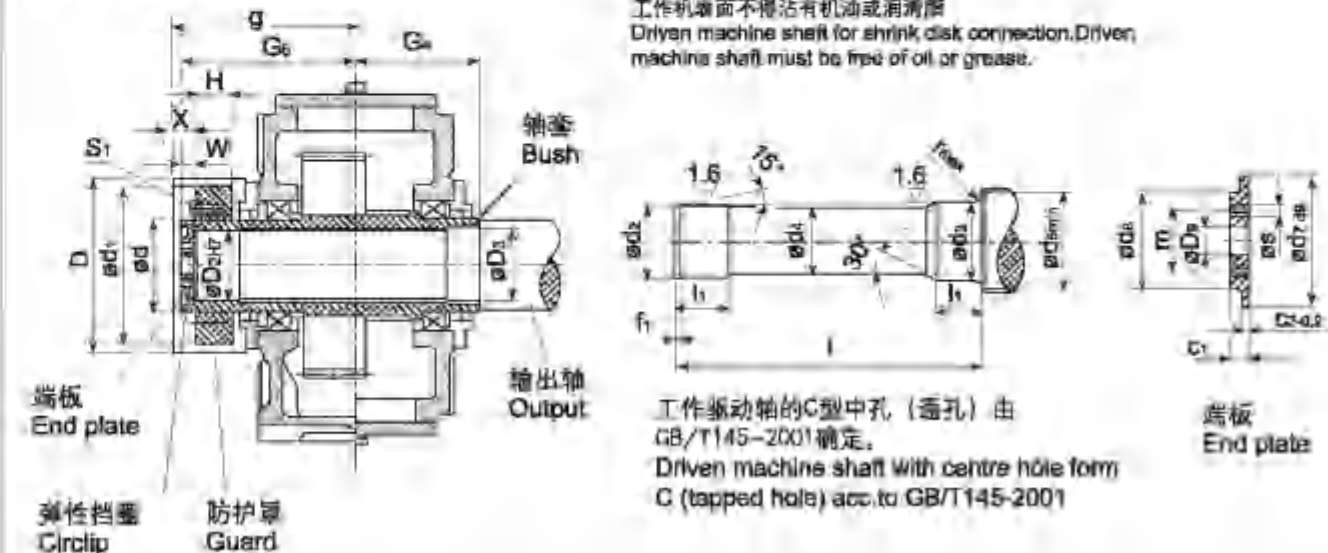
2) 工作机驱动轴材质: 40Cr或强度更高的钢。根据用户要求, 胀紧盘可布置在工作机侧。工作机驱动轴尺寸请索取。

Material of driver machine shaft: 40Cr or higher strength. Shrink disk on machine side on request. Shrink disk is supplied as loose item. Dimensions of machine shaft on request.

齿轮箱 Gear Units 带胀紧盘联接的空心轴 Hollow Shaft For Shrink Disk

类型 TLB2D Type TLB2D

规格 4...18 Sizes 4...18

X=要求预留的力矩扳手空间
X=Space required for torque wrench用于胀紧盘联接的工作机驱动轴。
工作机表面不得沾有油污或润滑油。
Driven machine shaft for shrink disk connection. Driven
machine shaft must be free of oil or grease.

类型 TLB2D Type TLB2D

Type: TLB2D																																
齿轮箱规格 Gear unit size	工作机驱动轴 Driven machine shaft														端板 End plate				弹性挡圈 Ring Circlip		空心轴 Hollow shaft				胀紧盘 Shrink disk				螺钉 Screw		防护罩 Guard	
	da	db	dc	de	df	dg	dh	di	dj	dk	dl	dm	dn	重量 Qty.	GB893/ 3.2-88	Dr	De	G	Gw	类型 Type	d	d ₁	H	W	φ	D	g					
	mm														mm																	
4	85ge	85he	84.5	95	4	386	48	2	17	7	90	70	22	50	M8	2	90x3	85	85	170	239	110-12	110	185	48	20	M12	235	260			
5	100ge	100he	99.5	114	5	453	53	2	20	8	105	90	26	55	M10	2	105x4	100	100	200	275	125-12	125	215	53	20	M12	275	295			
6	110ge	110he	109.5	124	5	453	58	3	20	8	115	85	26	60	M10	2	115x4	110	110	200	275	140-12	140	230	58	50	M14	285	295			
7	120ge	120he	119.5	134	5	533	66	3	20	8	125	90	26	65	M12	2	125x4	120	120	235	320	155-12	155	263	62	23	M14	330	335			
8	130ge	130he	129.5	145	6	536	73	3	20	8	135	100	26	70	M12	2	135x4	130	130	235	325	165-12	165	290	66	23	M16	340	340			
9	140ge	145he	139.5	160	6	609	82	4	23	10	150	110	33	80	M12	2	150x4	140	145	270	365	175-12	175	300	68	28	M16	360	390			
10	150ge	155he	149.5	170	6	629	92	4	23	10	160	120	33	90	M12	2	160x4	150	155	270	385	200-12	200	350	85	28	M16	395	400			
11	165ge	170he	164.5	185	7	744	112	4	23	10	175	130	33	90	M12	2	175x4	165	170	330	450	220-12	220	370	103	30	M20	435	470			
12	180ge	185he	179.5	200	7	749	122	4	23	10	190	140	33	100	M16	2	190x4	180	185	320	455	240-12	240	405	107	30	M20	450	470			
14	210ge	215he	209.5	233	8	894	147	5	28	14	220	170	33	130	M16	2	220x5	210	215	390	535	280-12	280	460	132	30	M20	525	555			
16	240ge	245he	239.5	263	8	1039	157	5	28	14	250	190	39	150	M20	2	250x5	240	245	450	620	320-12	320	520	140	35	M24	595	645			
18	260ge	265he	279.5	306	9	1177	177	5	30	14	280	210	39	160	M20	2	290x5	260	265	510	700	360-12	360	590	162	35	M24	635	725			

1) 胀紧盘不在我们的供货范围之内。如有需要的话, 请另行订货。

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

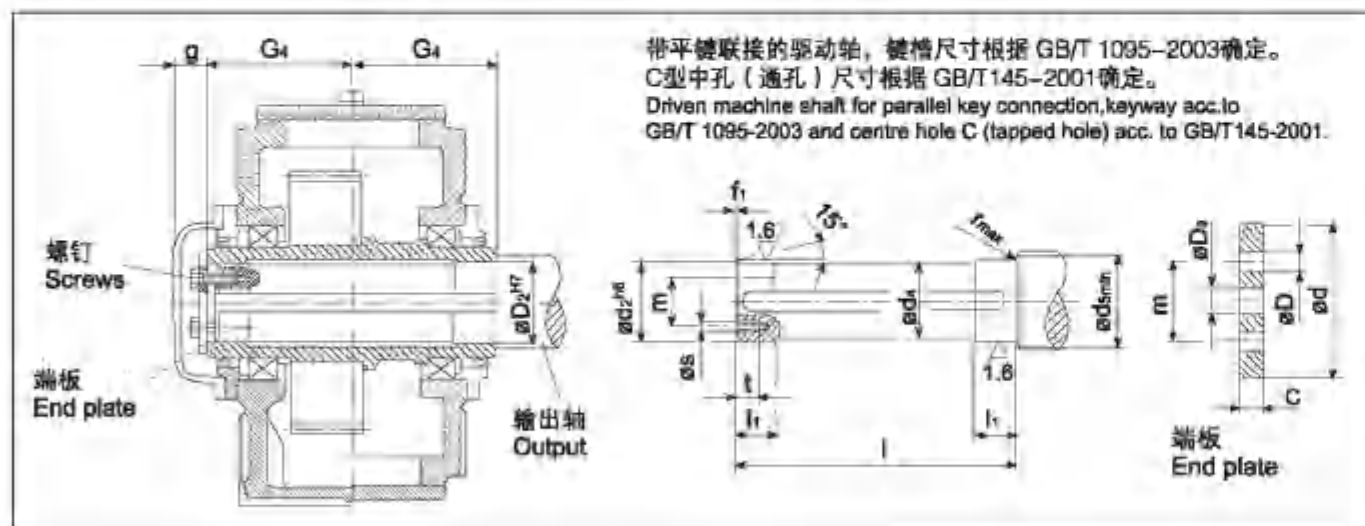
2) 工作机驱动轴材质: 40Cr或强度更高的钢。根据用户要求, 胀紧盘可布置在工作机侧。工作机驱动轴尺寸请索取。

Material of driver machine shaft: 40Cr or higher strength. Shrink disk on machine side on request. Shrink disk is supplied as loose item. Dimensions of machine shaft on request.

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

类型TLH2,TLH3,TLH4,TLB3,TLB4 Type TLH2,TLH3,TLH4,TLB3,TLB4

规格 4...18 Sizes 4...18



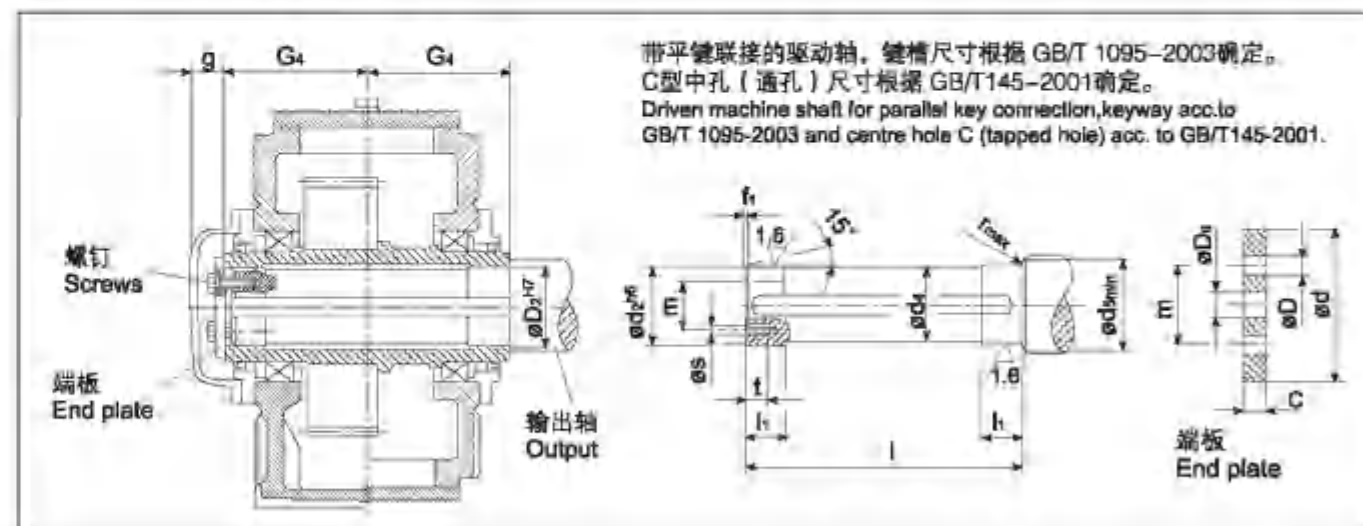
类型 TLH2, TLH3, TLH4, TLB3, TLB4 Type TLH2, TLH3, TLH4, TLB3, TLB4																			
齿轮 减速机 Gear unit size	工作机驱动轴 Driven machine shaft									端板 End plate					螺钉 Screw		空心轴 Hollow shaft		
	d ₂	d ₄	d _s	f ₁	l	l ₁	r	s	t	c	D	D _s	d	m	规格 Size	数量 Qty.	D _s	G ₄	G _s
	mm																mm		
4	60	79.5	88	4	278	35	1.2	M10	18	10	11	22	100	60	M10x25	2	80	140	35
5	95	94.5	105	5	328	40	1.6	M10	18	10	11	26	120	70	M10x25	2	95	165	40
6	105	104.5	116	5	328	45	1.6	M10	18	10	11	26	120	70	M10x25	2	105	165	40
7	115	114.5	126	5	388	50	1.6	M12	20	12	13.5	26	140	80	M12x30	2	115	195	40
8	125	124.5	136	6	388	55	2.5	M12	20	12	13.5	26	150	85	M12x30	2	125	195	40
9	135	134.5	147	6	467	60	2.5	M12	20	12	13.5	33	160	90	M12x30	2	135	235	45
10	150	149.5	162	6	467	65	2.5	M12	20	12	13.5	33	185	110	M12x30	2	150	235	45
11	165	164.5	177	7	537	70	2.5	M16	28	15	17.5	33	195	120	M16x40	2	165	270	45
12	180	179.5	192	7	537	75	2.5	M16	28	15	17.5	33	220	130	M16x40	2	180	270	45
13	190	189.5	206	7	667	80	3	M16	28	18	17.5	33	230	140	M16x40	2	190	335	45
14	210	209.5	226	8	667	85	3	M16	28	18	17.5	33	250	160	M16x40	2	210	335	45
15	230	229.5	248	8	756	100	3	M20	38	25	22	39	270	180	M20x55	4	230	380	60
16	240	239.5	258	8	756	100	3	M20	38	25	22	39	280	180	M20x55	4	240	380	60
17	250	249.5	270	8	826	110	4	M20	38	25	22	39	300	190	M20x55	4	250	415	60
18	275	274.5	295	9	826	120	4	M20	38	25	22	39	330	210	M20x55	4	275	415	60

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

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

类型 TLB2H Type TLB2H

规格 4...18 Sizes 4...18



类型TLB2H Type TLB2H																			
齿轮箱规格 Gear unit size	工作机驱动轴 Driven machine shaft									端板 End plate					螺钉 Screw		空心轴 Hollow shaft		
	d ₂	d ₄	d _s	f ₁	l	l ₁	r	s	t	c	D	D _s	d	m	规格Size	数量Qty.	D _s	G ₄	G _s
	mm																	mm	
4	80	79.5	88	4	338	35	1.2	M10	18	10	11	22	100	60	M10x25	2	80	170	35
5	95	94.5	105	5	398	40	1.6	M10	18	10	11	26	120	70	M10x25	2	95	200	40
6	105	104.5	116	5	398	45	1.6	M10	18	10	11	26	120	70	M10x25	2	105	200	40
7	115	114.5	126	5	468	50	1.6	M12	20	12	13.5	26	140	80	M12x30	2	115	235	40
8	125	124.5	136	6	468	55	2.5	M12	20	12	13.5	26	150	85	M12x30	2	125	235	40
9	135	134.5	147	6	537	60	2.5	M12	20	12	13.5	33	160	90	M12x30	2	135	270	45
10	150	149.5	162	6	537	65	2.5	M12	20	12	13.5	33	185	110	M12x30	2	150	270	45
11	165	164.5	177	7	637	70	2.5	M16	28	15	17.5	33	195	120	M16x40	2	165	320	45
12	180	179.5	192	7	637	75	2.5	M16	28	15	17.5	33	220	130	M16x40	2	180	320	45
14	210	209.5	226	8	777	85	3	M16	28	18	17.5	33	250	160	M16x40	2	210	390	45
16	240	239.5	258	8	896	100	3	M20	38	25	22	39	280	180	M20x55	4	240	450	60
18	275	274.5	295	9	1016	120	4	M20	38	25	22	39	330	210	M20x55	4	275	510	60

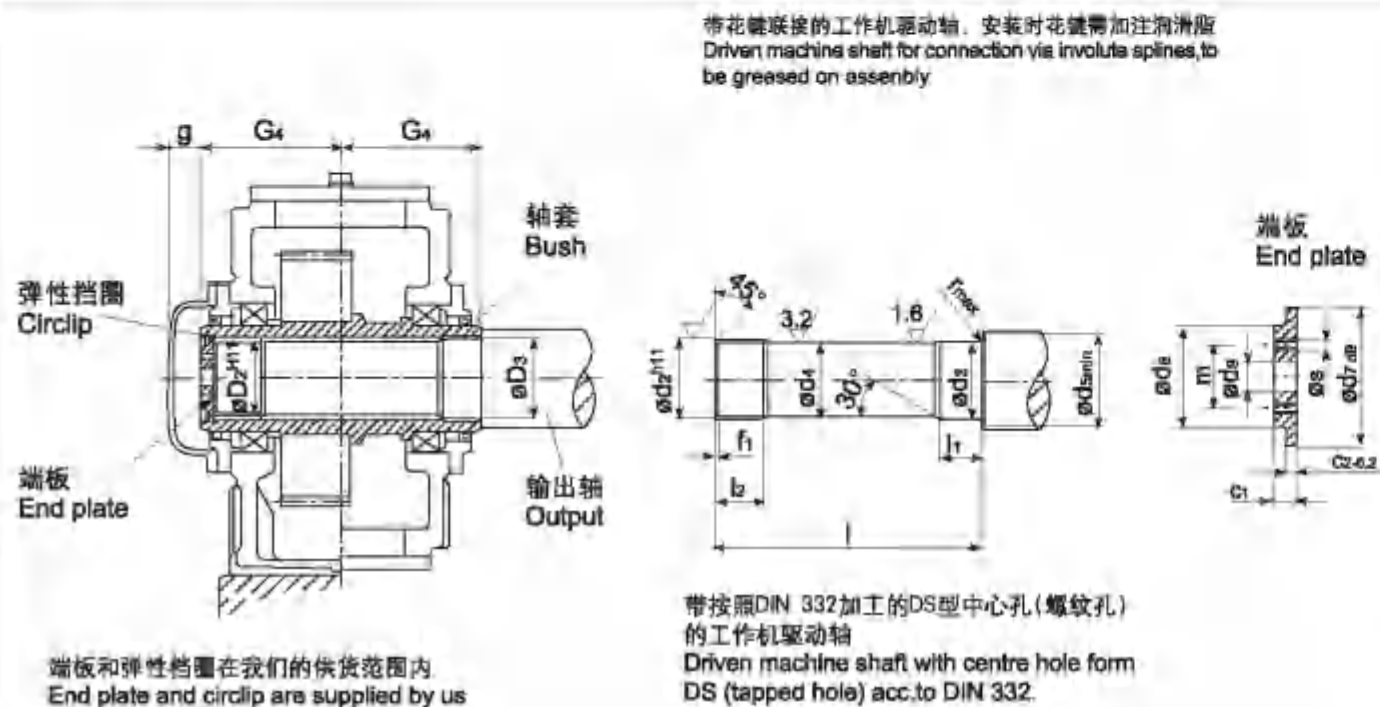
1) 工作机驱动轴材质: 40Cr 或强度更高的钢。平键不在我们的供货范围之内。如果需要的话, 请另行订货。
Material of driven machine shaft: 40Cr or higher strength. Parallel key does not belong to our scope of supply. Please order separately, if required.

齿轮箱 Gear units

带花键(按照GB/T3478.1-2008)的空心轴 Hollow shafts with involute splines acc.to DIN 5480

类型 TLH2, TLH3, TLH4, TLB3, TLB4 Type TLH2, TLH3, TLH4, TLB3, TLB4

规格 5-26 Size 5-26

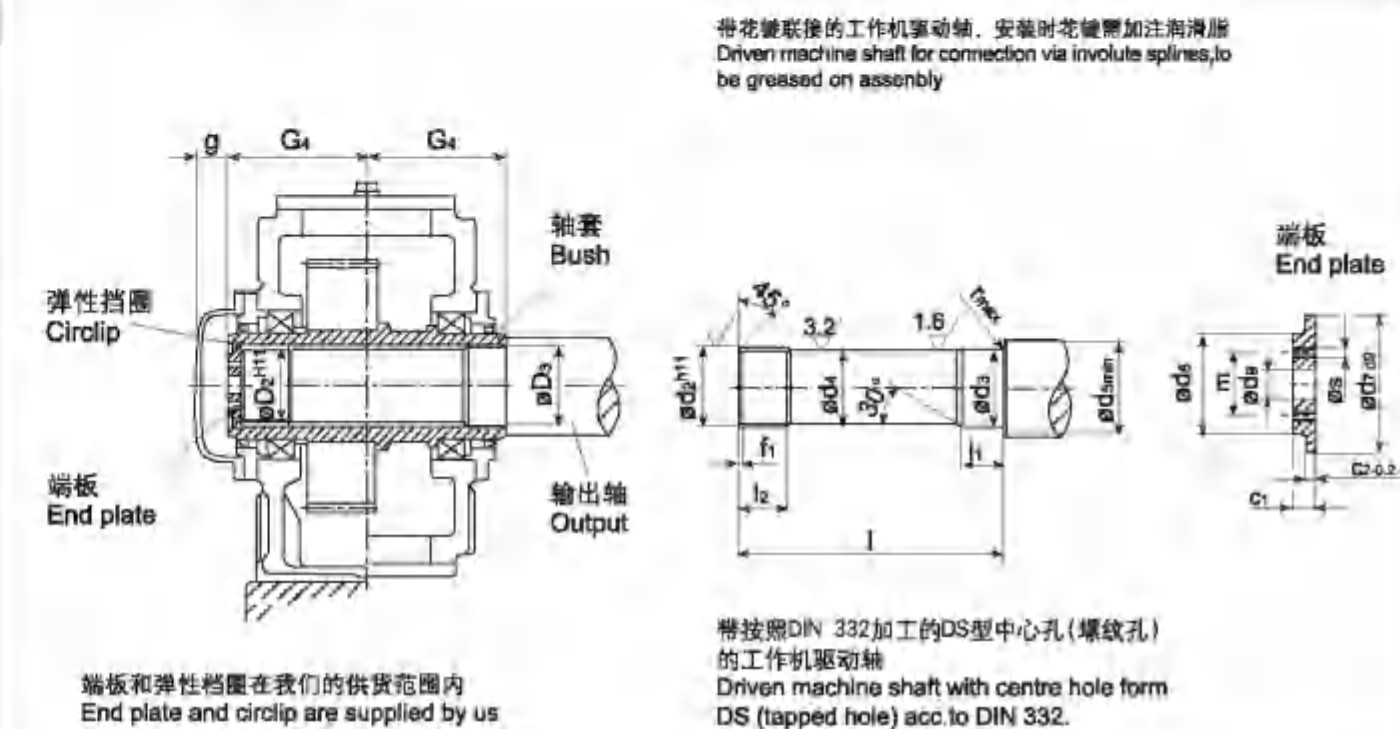


齿轮箱 Gear units

带花键(按照GB/T3478.1-2008)的空心轴 Hollow shafts with involute splines acc.to DIN 5480

类型 TLB2 Type TLB2

规格 5-18 Size 5-18



类型 Type TLH2K, TLH3K, TLH4K, TLB3K, TLB4K																																	
齿轮箱规格 Gear unit size	工作机驱动轴① Driven machine shaft																端板 End plate					弹性挡圈 Ring Circlip		空心轴 Hollow shaft				螺钉 Screw					
	渐开线花键 Involute splines W/DIN5480	d _s	d _s	d _s	d _s	f ₁	f ₂	f ₃	f ₄	f ₅	f ₆	f ₇	f ₈	f ₉	f ₁₀	f ₁₁	f ₁₂	f ₁₃	f ₁₄	f ₁₅	f ₁₆	f ₁₇	f ₁₈	f ₁₉	f ₂₀	数量 Qty.	DIN472		D _s	D _s	G ₄	g	
		mm																mm															
5	W95x3x30x30x8f	94.4	100h6	93	114	3	308	53	90	2	20	8	105	80	26	55	M10	2	105x4	89	100	165	40	M24									
6	W95x3x30x30x8f	84.4	110h6	93	124	3	308	58	90	3	20	8	105	80	26	55	M10	2	105x4	89	110	165	40	M24									
7	W120x3x30x38x8f	119.4	120h6	118	134	3	368	68	105	3	20	8	125	90	26	65	M12	2	125x4	114	120	195	40	M24									
8	W120x3x30x38x8f	119.4	130h6	118	145	3	368	73	105	3	20	8	125	90	26	65	M12	2	125x4	114	130	195	40	M24									
9	W140x3x30x45x8f	139.4	145m6	138	160	3	444	82	125	4	23	10	150	110	33	80	M12	2	150x4	134	145	235	45	M30									
10	W140x3x30x45x8f	139.4	155m6	138	170	3	444	92	125	4	23	10	150	110	33	80	M12	2	150x4	134	155	235	45	M30									
11	W170x5x30x32x8f	169	170m6	168	185	5	514	112	150	4	23	10	175	130	33	90	M12	2	175x4	160	170	270	45	M30									
12	W170x5x30x32x8f	169	185m6	168	200	5	514	122	150	4	23	10	175	130	33	90	M12	2	175x4	160	185	270	45	M30									
13	W190x5x30x36x8f	189	195m6	188	213	5	644	137	180	5	23	10	200	150	33	110	M16	2	200x4	180	195	335	45	M30									
14	W190x5x30x36x8f	189	215m6	188	233	5	644	147	180	5	23	10	200	150	33	110	M16	2	200x4	180	215	335	45	M30									
15	W220x5x30x42x8f	219	235m6	218	253	5	728	157	200	5	28	14	240	180	39	140	M16	2	240x5	210	235	380	60	M36									
16	W220x5x30x42x8f	219	245m6	218	263	5	728	157	200	5	28	14	240	180	39	140	M16	2	240x5	210	245	380	60	M36									
17	W250x5x30x48x8f	249	260m6	248	278	5	796	177	215	5	30	14	265	200	39	150	M20	2	265x5	240	260	415	80	M36									
18	W250x5x30x48x8f	249	285m6	248	308	5	796	177	215	5	30	14	265	200	39	150	M20	2	265x5	240	285	415	80	M36									
19-26	敬请咨询 On request																																

19-26 数据提供 On request

类型 Type TKB2K																													
齿轮箱规格 Gear unit size	工作机驱动轴① Driven machine shaft															端板 End plate					弹性挡圈 Ring Circlip		空心轴 Hollow shaft				螺钉 Screw		
	渐开线花键 Involute splines W/DIN5480	d _s	d _i	d _e	d _f	f ₁	f ₂	f ₃	f ₄	f ₅	f ₆	f ₇	d _r	D _s	D _e	m	z	数量 Qty.	DIN472	D _h	D _e	G ₄	g						
		mm															mm												
5	W95x3x30x30x8f	94.4	100h6	93	114	3	378	53	90	2	20	8	105	80	26	55	M10	2	105x4	89	100	200	40	M24					
6	W95x3x30x30x8f	84.4	110h6	93	124	3	378	58	90	3	20	8	105	80	26	55	M10	2	105x4	89	110	200	40	M24					
7	W120x3x30x38x8f	119.4	120h6	118	134	3	448	68	105	3	20	8	125	90	26	65	M12	2	125x4	114	120	235	40	M24					
8	W120x3x30x38x8f	119.4	130h6	118	145	3	448	73	105	3	20	8	125	90	26	65	M12	2	125x4	114	130	235	40	M24					
9	W140x3x30x45x8f	139.4	145m6	138	160	3	514	82	125	4	23	10	150	110	33	80	M12	2	150x4	134	145	270	45	M30					
10	W140x3x30x45x8f	139.4	155m6	138	170	3	514	92	125	4	23	10	150	110	33	80	M12	2	150x4	134	155	270	45	M30					
11	W170x5x30x32x8f	169	170m6	168	185	5	614	112	150	4	23	10	175	130	33	90	M12	2	175x4	160	170	320	45	M30					
12	W170x5x30x32x8f	169	185m6	168	200	5	614	122	150	4	23	10	175	130	33	90	M12	2	175x4	160	185	320	45	M30					
14	W190x5x30x36x8f	189	215m6	188	233	5	754	147	180	5	23	10	200	150	33	110	M16	2	200x4	180	215	390	45	M30					
16	W220x5x30x42x8f	219	245m6	218	263	5	865	157	200	5	28	14	240	180	39	140	M16	2	240x5	210	245	450	60	M36					
18	W250x5x30x48x8f	249	285m6	248	308	5	986	177	215	5	30	14	265	200	39	150	M20	2	265x5	240	285	510	80	M36					

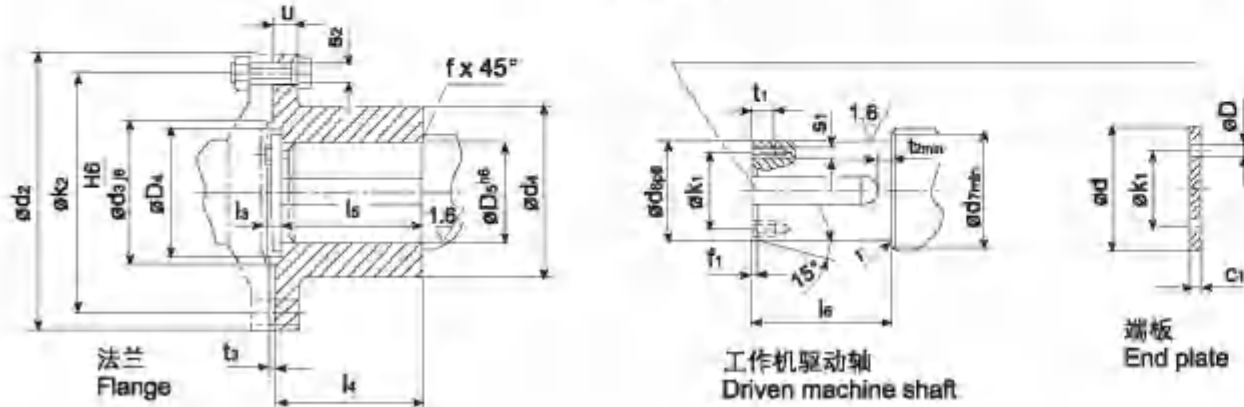
齿轮箱 Gear units

与法兰轴联接的对接法兰 Counterflanges for Flanged shafts

类型 TLH2, TLH3, TLH4, TLB3, TLB4 Type TLH2, TLH3, TLH4, TLB3, TLB4

规格 5-12 Size 5-12

平键槽按照 GB/T 1095-2003, 当规格为11和12时带按180°分布的双键槽。
keyway acc.to GB/T 1095-2003, for sizes 11 and 12 two keyways offset at 180°



齿轮箱规格 Gear unit size	类型 Type TLH2F, TLH3F, TLH4F, TLB3F, TLB4F													螺栓 Bolt 1)		
	法兰 Flange													规格 Size 数量 Qty. T _A 2) Nm		
	d ₂	d ₃	d ₄	D ₄	D ₅	f	k ₂	k ₃	k ₄	k ₅	S ₂	t ₂	u			
5	300	150	190	135	110	2.5	260	16	175	167	M20	8	25	M20x70	16	610
6	320	160	210	145	120	2.5	280	22	185	171	M20	8	25	M20x70	18	610
7	370	180	230	160	135	2.5	320	21	220	207	M24	8	30	M24x90	16	1050
8	390	190	270	175	150	2.5	340	22	220	206	M24	8	30	M24x90	18	1050
9	430	220	290	195	160	4.0	380	22	250	238	M24	10	38	M24x100	20	1050
10	470	240	310	220	180	4.0	420	22	250	238	M24	10	38	M24x100	22	1050
11	510	260	340	235	200	4.0	450	22	290	278	M30	10	42	M30x120	18	2100
12	540	280	360	255	210	4.0	480	22	290	278	M30	10	42	M30x120	22	2100

齿轮箱 规格 Gear unit size	工作机驱动轴 Driven machine shaft									端板 End plate				螺栓Bolt		重量 Weight kg
	d _s	d _r	f _t	k _v	k _s	r	s ₁	t ₁	t ₂	c ₁	d	D	k ₁	规格 Size	数量 Qty.	
	mm															
5	110	122	2.5	80	165	2	M12	28	7.5	10	130	13.5	80	M12x35	4	35
6	120	132	2.5	95	169	2	M16	32	7.5	14	140	17.5	95	M16x45	4	45
7	135	147	2.5	95	205	2	M16	32	16	14	155	17.5	95	M16x45	4	65
8	150	162	2.5	110	204	2	M16	32	16	16	170	17.5	110	M16x45	4	85
9	160	176	4.0	110	235	3	M16	32	16	16	190	17.5	110	M16x45	4	115
10	180	196	4.0	145	235	3	M20	38	16	18	215	22	145	M20x55	4	130
11	200	216	4.0	145	275	3	M20	38	16	18	230	22	145	M20x55	4	175
12	210	230	4.0	160	275	3	M20	38	16	18	250	22	160	M20x55	4	200

平键不在供货范围之内。如果需要请另行订购。

1) 螺栓按照 DIN 931, 性能等级为 10.9 级;

螺母按照 DIN 934, 性能等级为 10 级;

2) 法兰联接螺栓的拧紧力矩。

Parallel key does not belong to our scope of supply, please order separately, if required.

1) Bolts acc.to DIN 931, material 10.9;

Nuts acc.to DIN 934, material 10

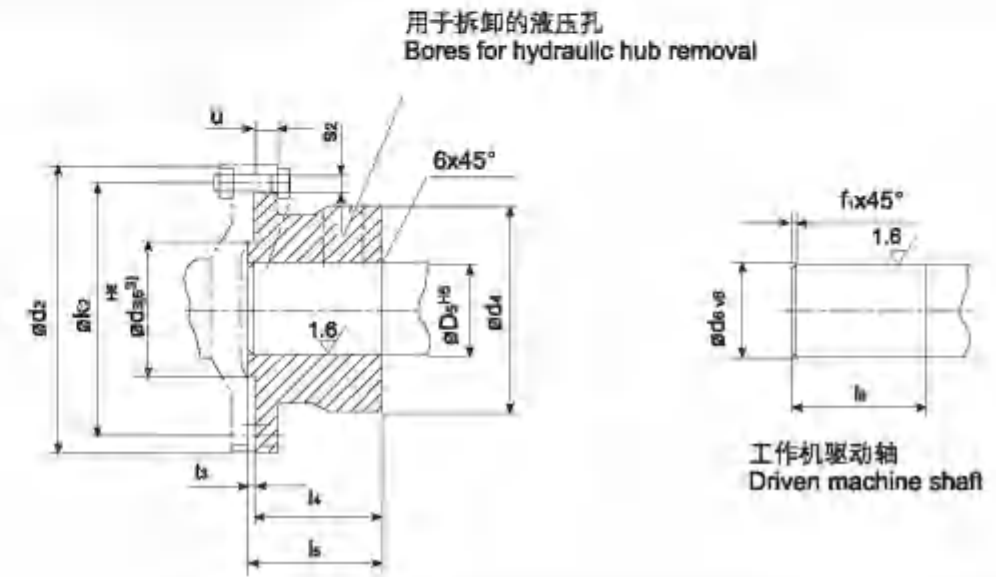
2) Tightening torque of flange connection bolts

齿轮箱 Gear units

与法兰轴联接的对接法兰 Counterflanges for Flanged shafts

类型 TLH2, TLH3, TLH4, TLB2, TLB3, TLB4 Type TLH2, TLH3, TLH4, TLB2, TLB3, TLB4

规格 13-26 Size 13-26



类型 Type TLH2F、TLH3F、TLH4F、TLB3F、TLB4F																	
齿轮箱 规格 Gear unit size	法兰 Flange										螺栓 Bolt 1)			工作机驱动轴 Driven machine shaft			重量 Weight kg
	d ₂	d ₃	d ₄	D ₄	k ₂	k ₃	k ₄	S ₂	t ₂	u	规格 Size	数量 Qty.	T _A 2) Nm	d _a	f ₁	l _a	
	mm																
13	580	310	390	240	500	310	322	M30	12	48	M30x130	20	2100	240	3	322	235
14	620	310	425	260	540	345	357	M30	12	48	M30x130	24	2100	260	3	357	300
15	710	360	460	280	630	365	380	M30	15	55	M30x140	28	2100	280	3	380	400
16	740	360	480	300	660	395	410	M30	15	55	M30x140	30	2100	300	4	410	450
17	750	410	520	320	680	420	436	M36	16	60	M36x160	24	3560	320	4	436	540
18	800	410	550	340	710	450	466	M36	16	60	M36x160	26	3560	340	4	466	650
19-26	敬请垂询 On request																

1) 螺栓按照 DIN 931, 性能等级为 10.9 级;

螺母按照 DIN 934, 性能等级为 10 级;

2) 需要其它尺寸请垂询(如地脚安装就可以采用较小的 D5 尺寸)。

3) 在热压冷缩配合后为尺寸 d3j6。

带键槽的对接法兰请垂询。

对接法兰在装配时应加热至 190℃

工作机驱动轴应在 20℃。

1) Bolts acc.to DIN 931, material 10.9;

Nuts acc.to DIN 934, material 10

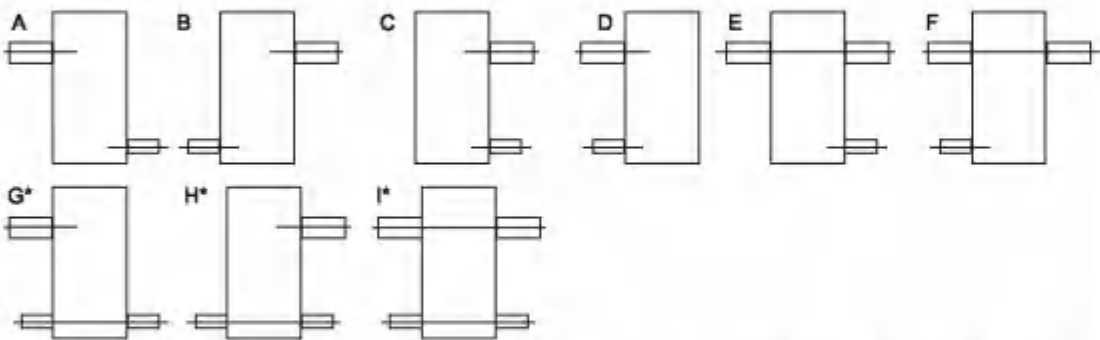
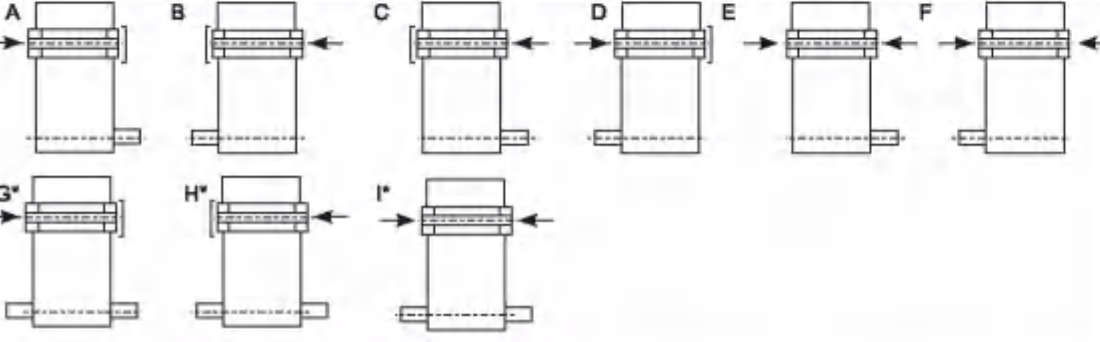
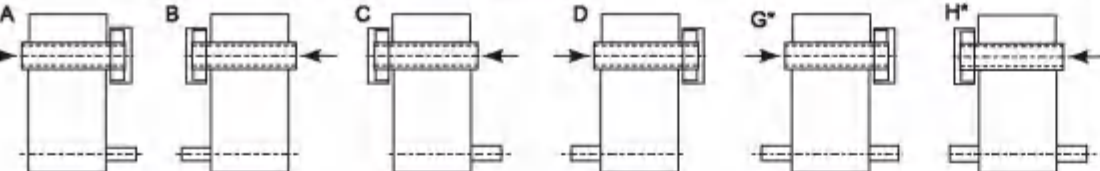
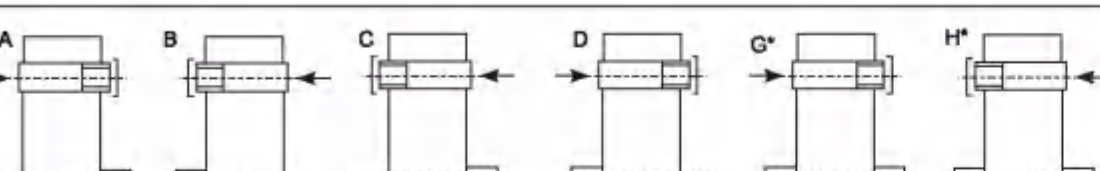
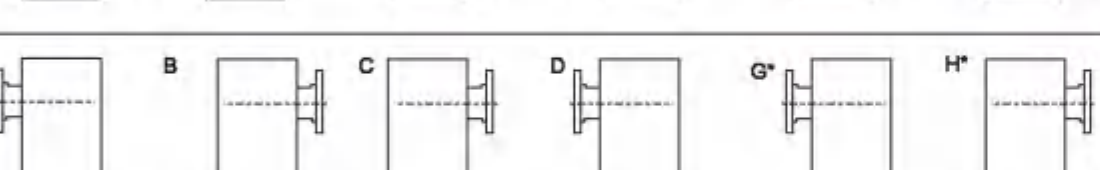
2) Other diameters on request. (For foot-mounted design, smaller bores D5 are possible).

3) Dimension d3j6 after shrink fitting.

counterflange with keyway on request.

For assembly, heat counterflange to 190℃, and driven machine shaft to 20℃.

TLH布置形式 TLH series designs
轴布置 Designs of shafts

实心轴 Solid shaft H.SH H.SV																																														
空心轴 Hollow shaft H.HH H.HV H.HM																																														
带锁紧盘空心轴 Hollow shaft with shrink disk H.DH H.DV H.DM																																														
带花键空心轴 Hollow shaft with involute spline H.KH H.KV H.KM																																														
法兰轴 Flanged shaft H.KH H.KV H.KM																																														
*)当布置形式 G/H/I 在右表中iN时 不可供货 *)Designs G/H/I with iN values shown in the right table are on request	<table><tr><th>size Type iN</th><th>13</th><th>14</th><th>15</th><th>16</th><th>17</th><th>18</th><th>≥19</th></tr><tr><td rowspan="2">H2</td><td>18</td><td>22.4</td><td>18</td><td>20</td><td>18</td><td>20</td><td rowspan="6">敬请垂询 On request</td></tr><tr><td>20</td><td>25</td><td>20</td><td>22.4</td><td>20</td><td>22.4</td></tr><tr><td rowspan="2">H3</td><td>80</td><td>100</td><td rowspan="2">90</td><td rowspan="2">100</td><td rowspan="2">90</td><td rowspan="2">100</td></tr><tr><td>90</td><td>112</td></tr><tr><td rowspan="3">H4</td><td>280</td><td>355</td><td>280</td><td>315</td><td rowspan="3">敬请垂询 On request</td></tr><tr><td>315</td><td>400</td><td>315</td><td>355</td></tr><tr><td>355</td><td>450</td><td>355</td><td>400</td></tr></table>	size Type iN	13	14	15	16	17	18	≥19	H2	18	22.4	18	20	18	20	敬请垂询 On request	20	25	20	22.4	20	22.4	H3	80	100	90	100	90	100	90	112	H4	280	355	280	315	敬请垂询 On request	315	400	315	355	355	450	355	400
size Type iN	13	14	15	16	17	18	≥19																																							
H2	18	22.4	18	20	18	20	敬请垂询 On request																																							
	20	25	20	22.4	20	22.4																																								
H3	80	100	90	100	90	100																																								
	90	112																																												
H4	280	355	280	315	敬请垂询 On request																																									
	315	400	315	355																																										
	355	450	355	400																																										

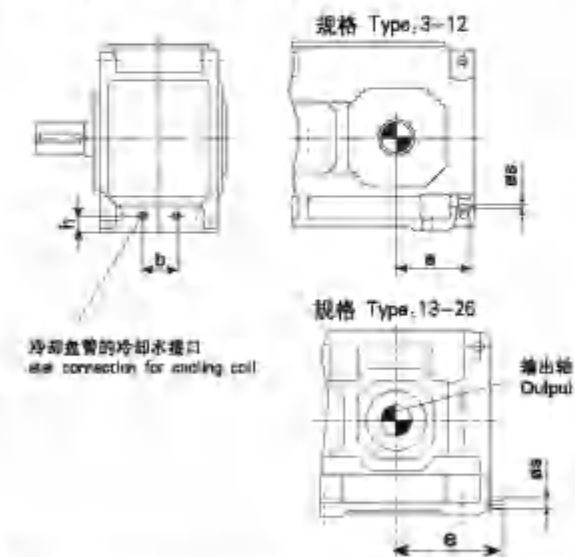
TLB布置形式 TLB series designs
轴布置 Designs of shafts

实心轴 Solid shaft B.SH B.SV	
空心轴 Hollow shaft B.HH B.HV B.HM	
带锁紧盘空心轴 Hollow shaft with shrink disk B.DH B.DV B.DM	
带花键空心轴 Hollow shaft with involute spline B.KH B.KV B.KM	
法兰轴 Flanged shaft B.KH B.KV B.KM	

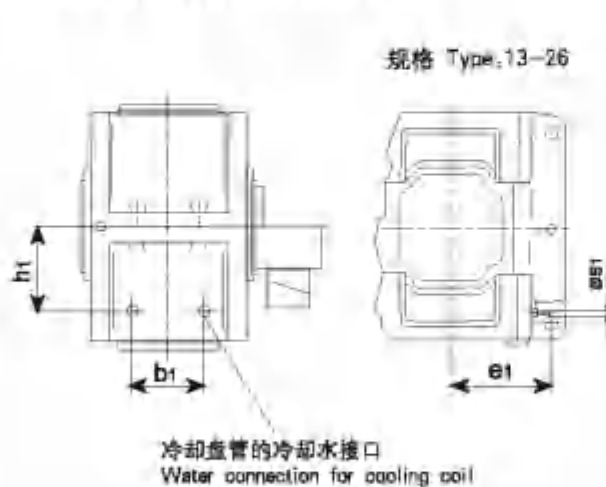
齿轮箱冷却盘管尺寸图: Gear units cooling coils:

卧式安装: Horizontal:

TLH1SH, TLH2.H, TLH3.H, TLB2.H, TLB3.H



TLH2.M, TLH3.M, TLB2.M, TLB3.M



型号 size	TLH1SH					TLH2.H/B3.H					TLH3.H					TLB2.H				
	b	e	h	s	水量 water quantity (L)	b	e	h	s	水量 water quantity (L)	b	e	h	s	水量 water quantity (L)	b	e	h	s	水量 water quantity (L)
3	48	205	74	G1/2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	-	-	-	-	-	34	155	60	G1/2	4	-	-	-	-	-	74	160	54	G1/2	4
5	88	270	90	G1/2	4	68	170	64	G1/2	4	70	175	69	G1/2	4	130	175	62	G1/2	8
6	-	-	-	-	-	70	215	66	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	90	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	285	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	108	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	560	130	G1/2	8	280	535	119	G1/2	8	280	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	按客户要求供货 On request					按客户要求供货 On request					按客户要求供货 On request									
20-26	-					-					-					-				

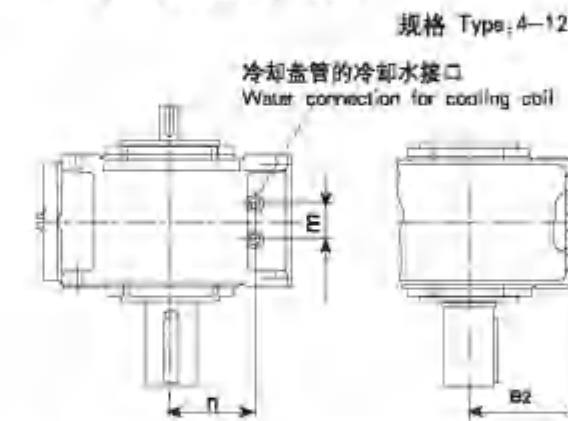
型号 size	TLH2.M/B3.M					TLH3.M					TLB2.M				
	b1	e1	h1	s1	水量 water quantity (L)	b1	e1	h1	s1	水量 water quantity (L)	b1	e1	h1	s1	水量 water quantity (L)
13	252	335	300	G1/2	8	252	335	300	G1/2	8	324	335	300	G1/2	8
14	252	405	300	G1/2	8	252	405	300	G1/2	8	324	405	300	G1/2	8
15	290	395	335	G1/2	8	290	395	340	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	按客户要求供货 On request					按客户要求供货 On request					-				

注: 冷却盘管适用于淡水、海水和半咸水

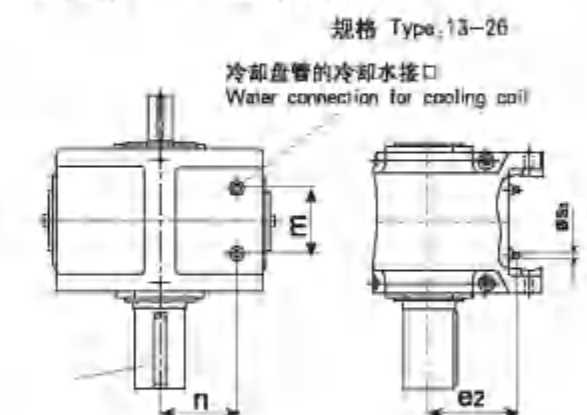
Note: cooling coil suitable fresh, sea and brackish water.

立式安装: vertical:

TLH2.V, TLH3.V, TLB2.V, TLB3.V



TLH2.V, TLH3.V, TLB2.V, TLB3.V



型号 size	TLH2.V/B3.V					TLH3.H/B3.H					TLB2.V				
	m	n	e2	s2	水量 water quantity (L)	m	n	e2	s2	水量 water quantity (L)	m	n	e2	s2	水量 water quantity (L)
4	34	140	155	G1/2	4	-	-	-	-	-	74	146	160	G1/2	4
5	88	166	170	G1/2	4	70	170	175	G1/2	4	130	168	175	G1/2	8
6	70	162	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	4	150	230	295	G1/2	8
11	110	285	275	G1/2	8	200	265	275	G1/2	8	315	265	275	G1/2	8
12	200	271	380	G1/2	8	200	265	380	G1/2	8	300	265	380	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	380	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	按客户要求供货 On request					按客户要求供货 On request					按客户要求供货 On request				

类别 Type	型号 Size	冷却盘管适用于Cooling coil for											
		浸油润滑 Dip lubrication				法兰泵强制润滑 Forced lubrication with flang-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			
TLH2.V		A	B	C	D	A	B	C	D	A	B	C	D
		√	√	√	√	-	-	-	-	-	-	-	-
TLH3.V		√	√	√	√	-	√	-	√	-	√	-	√
		-	-	-	-	-	√	-	√	-	√	-	√
TLB2.V		√	√	√	√	-	-	-	-	-	-	-	-
		√	√	√	√	√	√	-	-	-	-	-	-
TLB3.V		√	√	√	√	-	-	-	-	-	-	-	-
		√	√	√	√	-	-	√	√	-	√	√	√
		-	-	-	-	-	-	-	√	√	-	-	-

注: 冷却盘管适用于淡水、海水和半咸水

Note: cooling coil suitable fresh, sea and brackish water.

润滑油供给方式可选方案（立式安装） Gear Units Oil Supply for Vertical:

立式安装齿轮箱所用的各种润滑油供给方式见下表1

Oil supply variants for vertical gear units can be derived from table 1.

表1 Table 1

类别 Type	型号 Size	冷却盘管适用于Cooling coil for		
		浸油润滑 Dip lubrication	法兰泵强制润滑 Forced lubrication with flang-on pump	电动泵强制润滑 Forced lubrication with motor pump
TLH2.V	4	√	-	-
	5~12	√	√	-
	13~18	-	√	-
TLH3.V	5~12	√	√	√
	13~18	-	√	√
TLH4.V	7~12	√	√	√
	13~18	-	-	√
	4	√	-	-
TLB2.V	5~12	√	√	√
	13~18	-	√	√
TLB3.V	4	√	-	-
	5~12	√	√	√
	13~18	-	√	√
TLB4.V	5~12	√	√	√
	13~18	-	-	√

推荐供油方式:

型号6及以下各型: 浸油润滑

型号7及以上各型: 强制润滑

Preferred order:

Up to size 6: Dip Lubrication

From size 7 up: Forced Lubrication

注: 对各种润滑油供给方式的说明:

浸油润滑:

浸油润滑时, 所有需要润滑的零部件均需浸在润滑油中。

附带的补偿油箱用于存储膨胀的油液

强制润滑:

当采用强制时, 所有未浸在润滑油液中的零部件均通过一个法兰连接油泵或单独的电动油泵进行飞溅润滑。

Notes on the individual oil supply variants:

Dip lubrication:

In case of dip lubrication, all parts to be lubricated are lying in the oil. An oil compensating tank has been fitted for oil expansion. Criteria for selection.

Forced lubrication:

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.

12.16.2 当选用浸油润滑方式时, 必须满足下列要求:

a) 允许油温, 参见表2;

b) 最大输入转速 n_1 , 参见表3。

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

a) Permissible oil temperatures, see table 2

b) Maximum input speed n_1 , see table 3

表2 Table 2

40℃温度下的ISO-VG粘度 Viscosity ISO-VG at 40℃ mm ² /s(cst)	浸油润滑允许极限温度℃ Dip lubrication temperature limit in °C for dip lubrication	
	矿物油Mineral oil	合成油Synthetic oil
VG220	-15	-25
VG320	-12	-25
VG460	-9	-25

若油温低于表中所列数值, 则必须对润滑油进行加热。
当采用浸油润滑时, 油温不得低于所用润滑油的倾点。

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

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

表3 Table 3

Size	TLH2.V		TLH3.V		TLH4.V		TLB2.V		TLB3.V		TLB4.V	
	in	N _{max}	in	N _{max}	in	N _{max}	in	N _{max}	in	N _{max}	in	N _{max}
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 6.3-7.1	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	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 8-9 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 1.2-12.5 14	750 900 1000 1200	16-28 31.5-90	1500 1800	100-400	1800

注: n_1 和 i_{in} 值在表3所列范围内的齿轮箱必须采用强制润滑。Note: Gear units with n_1 and i_{in} which are not listed in table 3 must be designed for forced lubrication.

12.16.3 当选用强制润滑方式时, 允许油温见下表4:

12.16.3 Permissible temperature limit in °C for dip lubrication:

表4 Table 4

40℃温度下的ISO-VG粘度 Viscosity ISO-VG at 40℃ mm ² /s(cst)	强制润滑允许极限温度℃ Permissible temperature limit in °C for dip lubrication			
	矿物油Mineral oil		合成油Synthetic oil	
	最低min.	最高max.	最低min.	最高max.
VG220	10	80	0	90
VG320	15	90	5	100
VG460	20	95	10	105

强制润滑:

当采用强制润滑时, 启动时的工作粘度不得超过1800cst。

最低工作粘度不得小于25cst

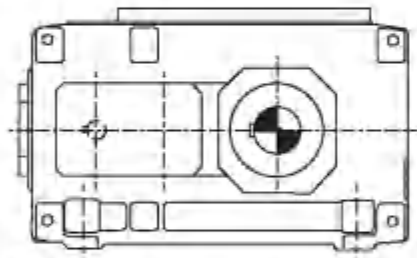
当油温低于表4所列得数值时, 必须提供浸油润滑方式, 或者对润滑油进行加热。

Forced lubrication:

In case of forced lubrication, the viscosity 1800cst must not be exceeded during starting. A minimum operating viscosity of 25 cst must be ensured.

TLHB系列产品组合及行业专业: TLHB series combination and special design:

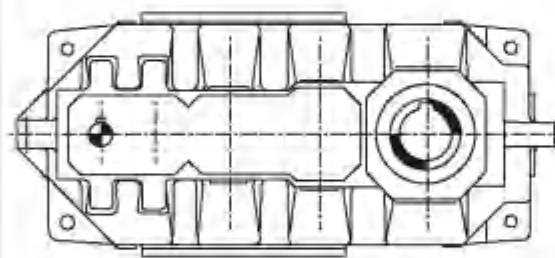
TLH系列斜齿齿轮箱
TLB系列螺旋锥齿轮-斜齿齿轮箱
Helical gear units and bevel-helical gear units



输出扭矩Output torque: 0.62...900kNm
速比Ratio: 1.25...450
级数Number of stages 1, 2, 3 or 4

1

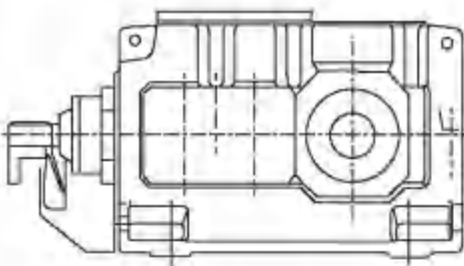
TLK系列斜齿加长中心距齿轮箱
Helical gear units with extended total centre distance



输出扭矩Output torque: 11...109kNm
速比Ratio: 14...250
级数Number of stages 3 or 4

2

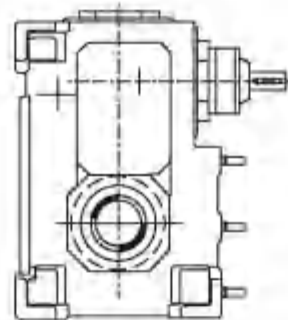
带式输送机 Belt conveyor drives
TLB系列锥齿-斜齿齿轮箱 Bevel-helical gear units



输出扭矩Output torque: 1.03...900kNm
速比Ratio: 5...90
级数Number of stages 2 or 3

3

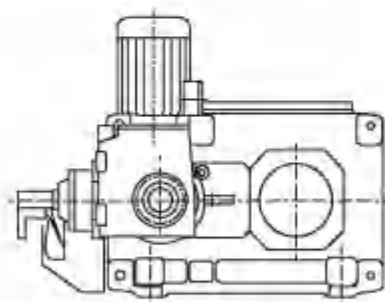
行走驱动用齿轮箱 Travelling gear drives
TLW/TLV系列锥齿-斜齿齿轮箱 Bevel-helical gear units



输出扭矩Output torque: 3.6...75kNm
速比Ratio: 12.5...400
级数Number of stages 3 or 4

4

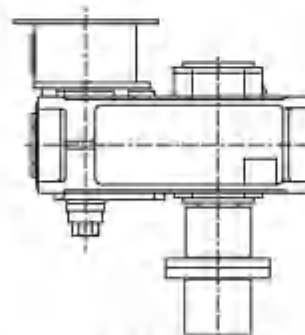
提升机 Bucket elevator drives
带辅助驱动的TLB系列 Bevel-helical gear units
锥齿-斜齿齿轮箱 with auxiliary drive



输出扭矩Output torque: 5.5...470kNm
速比Ratio: 12.5...90
级数Number of stages 3

5

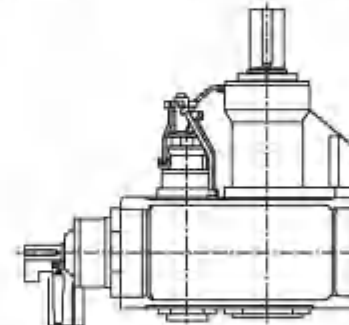
水轮机驱动齿轮箱 Water turbine drives
TLH系列斜齿齿轮箱 Helical gear units and
TLB系列螺旋锥齿轮-斜齿齿轮箱
Bevel-helical gear units



输出扭矩Output torque: 8.5...195kNm
速比Ratio: 5...28
级数Number of stages 2

6

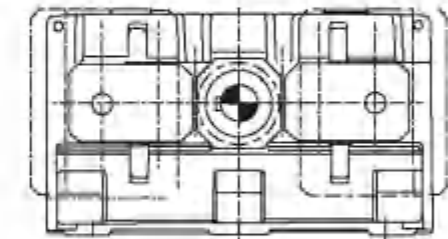
冷却塔驱动齿轮箱 Cooling tower drives
TLH系列斜齿齿轮箱和TLB系列螺旋锥齿轮-斜齿齿轮箱
Helical gear units and TL bevel-helical gear units



输出扭矩Output torque: 3...97.5kNm
速比Ratio: 5...28
级数Number of stages 2

7

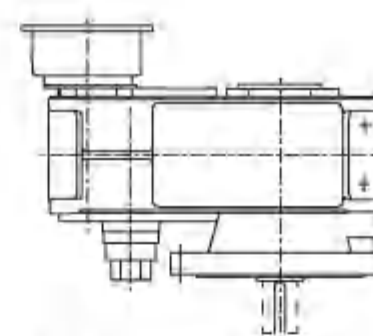
造纸机械驱动齿轮箱 Paper machine drives
TLH系列斜齿齿轮箱和TLB系列螺旋锥齿轮-斜齿齿轮箱
Helical gear units and TL bevel-helical gear units



输出扭矩Output torque: 0.62...820kNm
速比Ratio: 1.25...22.4
级数Number of stages 1, 2 or 3

8

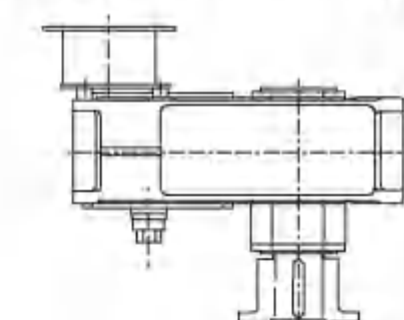
搅拌机驱动用齿轮箱 Agitator drives
TLH系列斜齿齿轮箱 Helical gear units



输出扭矩Output torque: 10.2...240kNm
速比Ratio: 6.3...450
级数Number of stages 2, 3 or 4

9

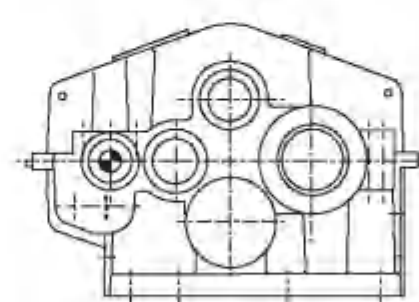
曝气机用驱动齿轮箱 Aerator drives
TLH系列斜齿齿轮箱和TLB系列螺旋锥齿轮-斜齿齿轮箱
Helical gear units and TL bevel-helical gear units



输出扭矩Output torque: 9.4...173kNm
速比Ratio: 6.3...112
级数Number of stages 2 or 3

10

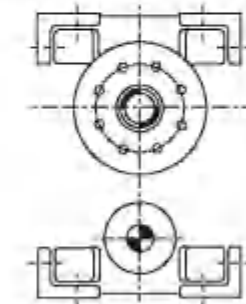
分流式齿轮箱 load sharing
TLH系列斜齿齿轮箱 Helical gear units



输出扭矩Output torque: 550...4800kNm
速比Ratio: 18...900
级数Number of stages 3, 4 or 5

11

挤压机用驱动齿轮箱 Extruders drives
TLH系列斜齿齿轮箱 Helical gear units



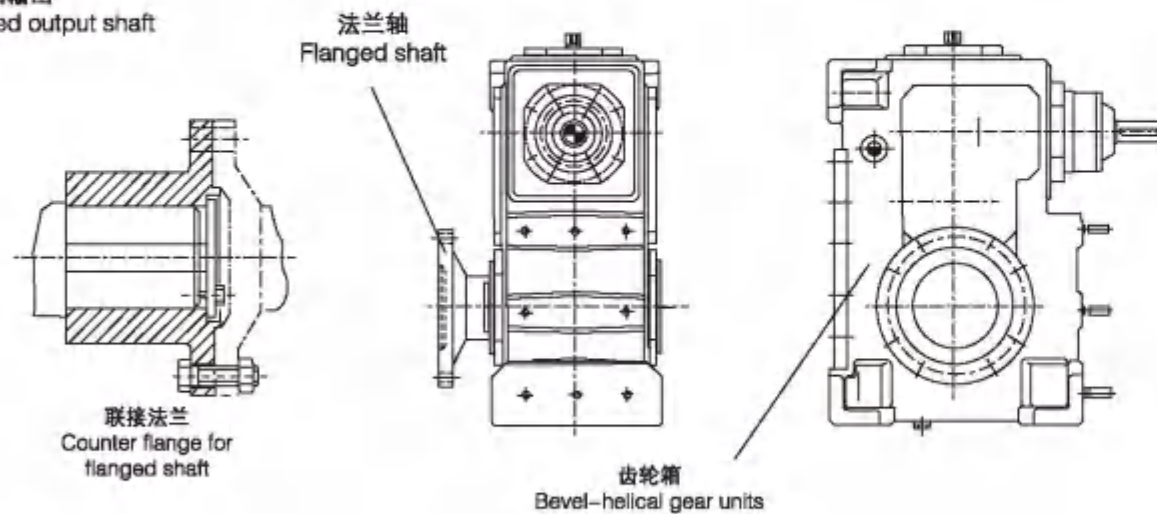
输出扭矩Output torque: 0.3...2300kNm
速比Ratio: 3...>500
级数Number of stages 2, 3 or 4

12

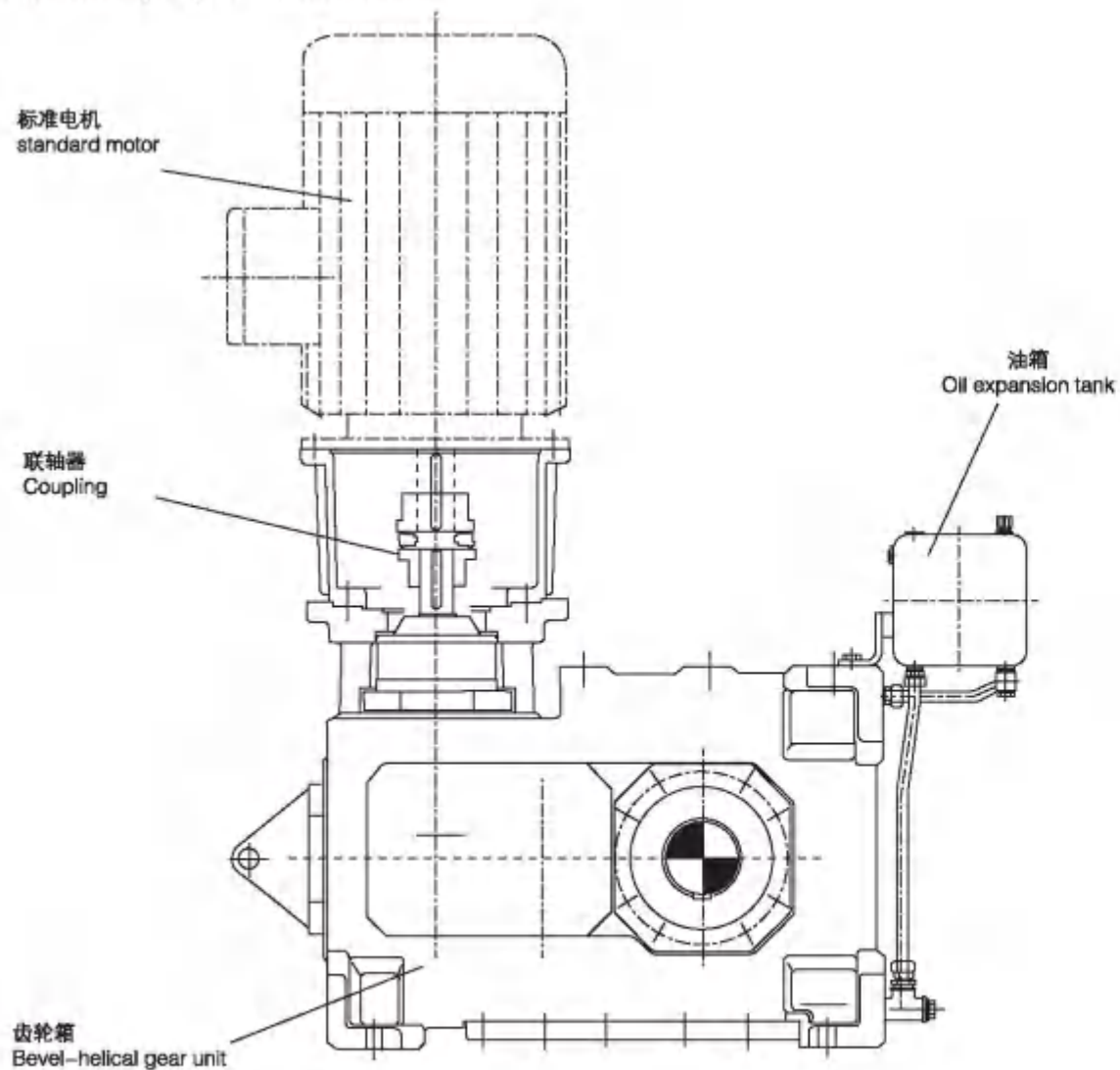
附1行走机构 Travelling gear drives

根据需要的附加变型产品资料 Additional variants information on request

法兰轴输出
Flanged output shaft



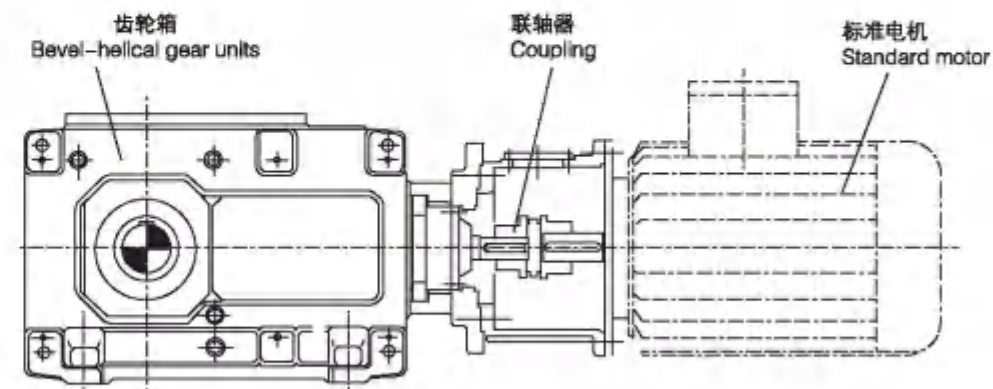
电机法兰联接
Motor mounting flanges for standard motors



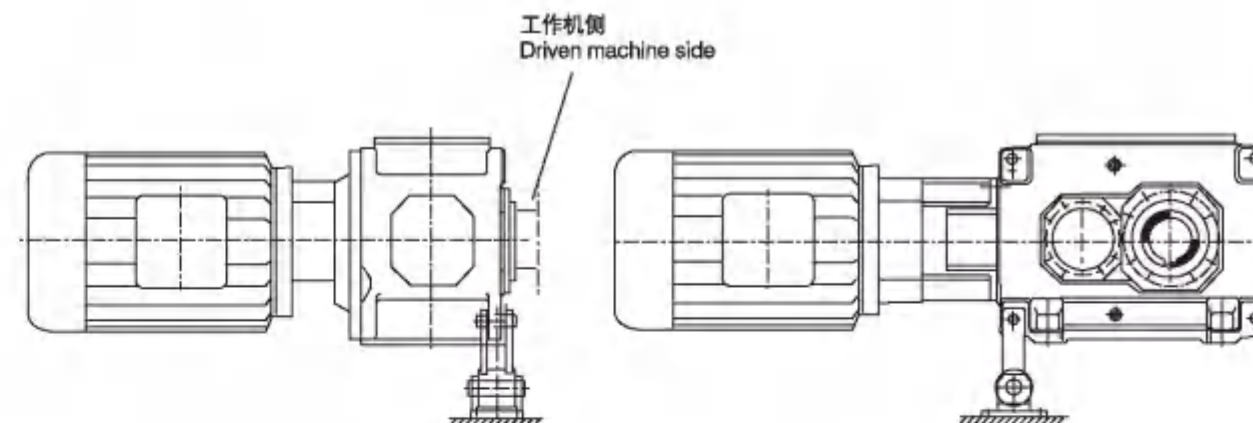
附2 输送机 Conveyor drives

根据需要的附加变型产品资料 Additional variants information on request

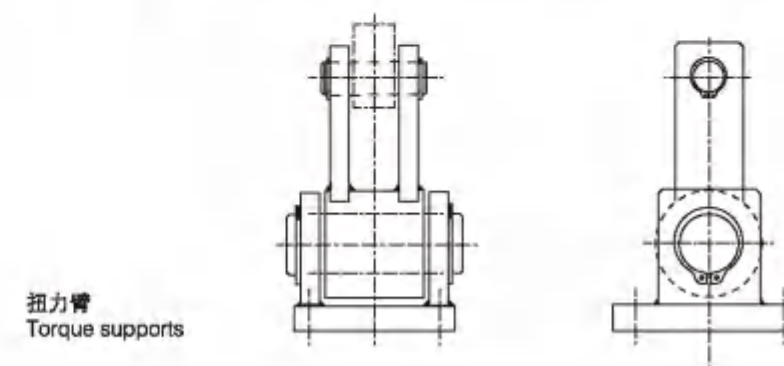
钟形罩式法兰联接
Mortor bell housings for standard motors



扭力臂式安装
Torque supports for gear housings



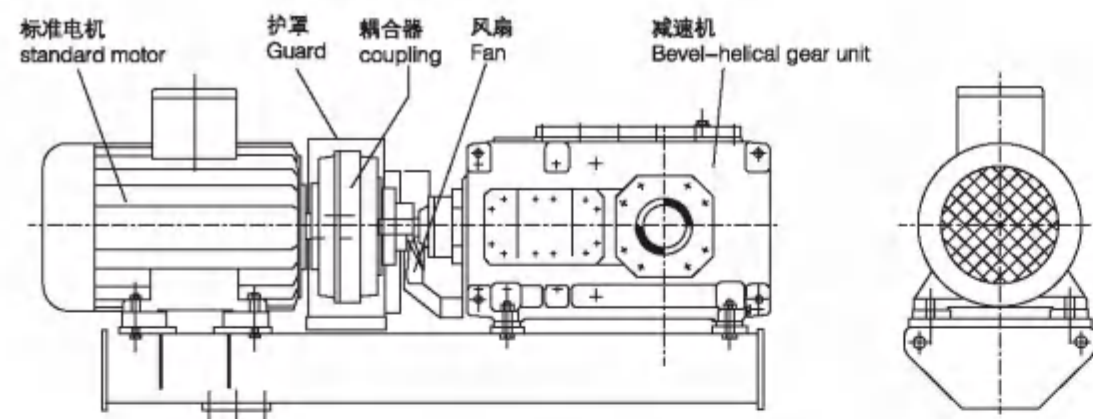
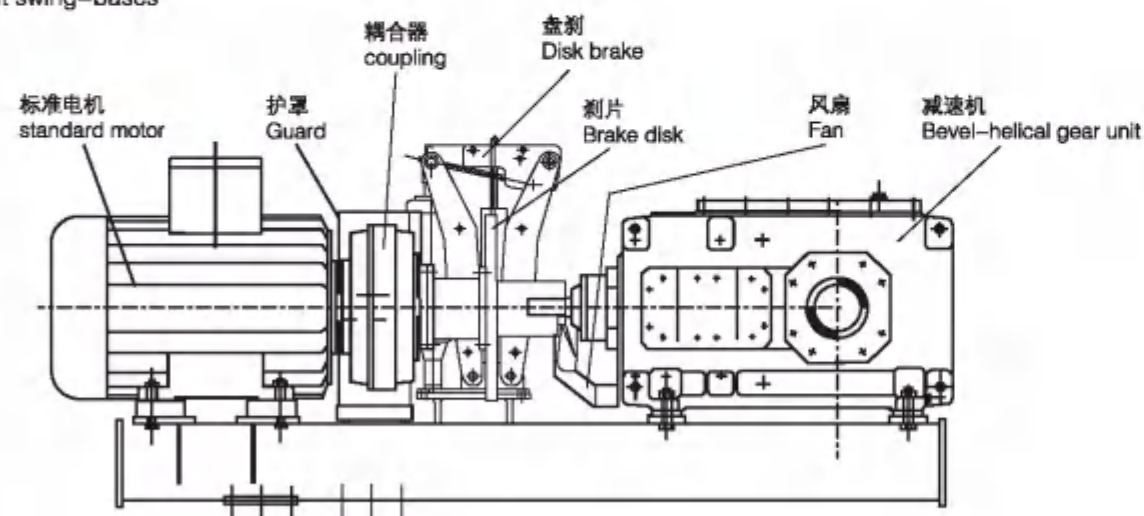
扭力臂应靠在工作机一侧。如果过减速箱带有风扇，扭力臂就安装在电扇另一侧。
Torque support on driven machine side. if the gear units has a fan, the torque support has to be located opposite the fan.



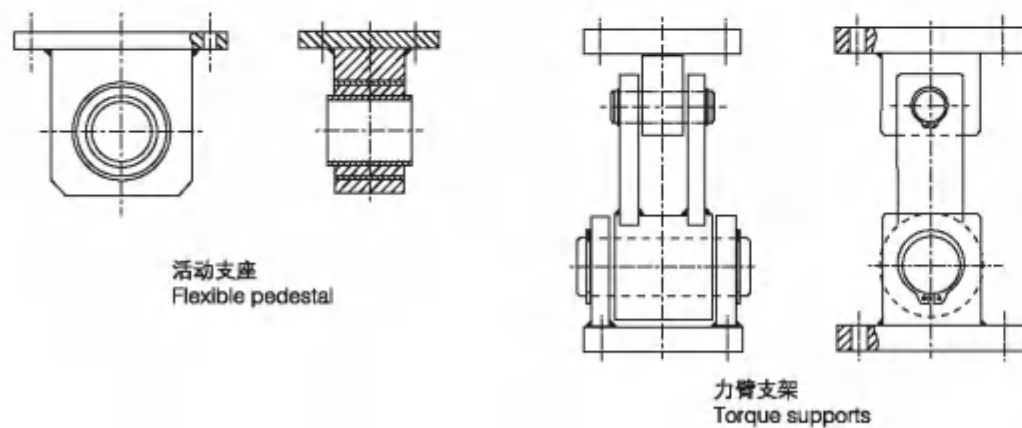
附3输送机 Conveyor drives

根据需要的附加变型产品资料 Additional variants information on request

Gear unit swing-bases



supports for gear unit swing-bases



附件代号一览表

代号	附件
B11	逆止器
C21	内置冷却盘管
C22	水油冷却器
F21	冷却风扇
F31	输入连接法兰
F32	安装法兰
S31	轴端油泵强制润滑
S32	电机油泵强制润滑
S33	补偿油箱浸油润滑
T61	扭力臂
V32	润滑油VG320
V46	润滑油VG460