提供最有竞争力的传动解决方案和服务，持续为客户创造最大价值！
We always provide the most competitive drive solutions and services,
continue to create the maximum value for customers!

雷杜传动
LEIDU TRANSMISSION

杭州雷杜科技有限公司
HANGZHOU LEIDU TECHNOLOGY CO., LTD.

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Yusheng Comprehensive Building, Free Road,
Bao'an District, Shenzhen
电话/TEL: 0-18958075595

雷杜四大系列换向器　雷杜蜗杆升降机样本　雷杜硬齿面摆线减速机　雷杜斗式提升机工业行星　雷杜工业箱行星样本　雷杜齿轮马达减速机

生产基地：浙江杭州
Production base: Hangzhou, Zhejiang

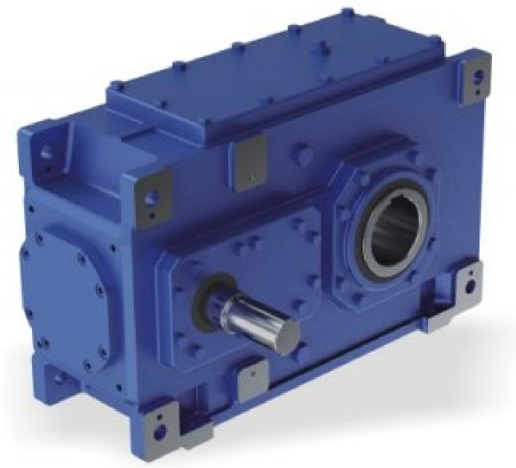
雷杜传动 LEIDU TRANSMISSION

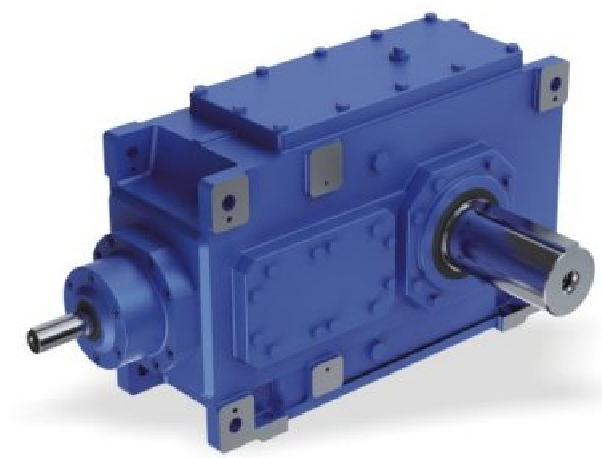
H/B工业齿轮箱 行星齿轮减速机选型手册

雷杜传动
LEIDU TRANSMISSION

H/B GEAR UNITS
P SERIES PLANETARY
GEARBOX

H/B工业齿轮箱
P系列行星齿轮减速机





杭州雷杜科技有限公司
Hangzhou Leidu Technology Co., Ltd.

企业简介 Company

杭州雷杜科技有限公司是一家集产品研发、技术服务、生产经营为一体的专业传动科技型企业。致力于提供更有竞争力的传动解决方案和服务，为客户创造更大的价值！

公司主要产品有R、S、K、F四大系列硬齿面减速机，RV/WP系列蜗轮蜗杆减速机，UD/MB系列无级减速机，P系列精密行星减速机，H/B系列大功率减速机，C/G系列齿轮马达及SWL系列丝杆升降机等。产品广泛应用于环保设备、筑路机械、仓储物流，食品机械、印刷包装、汽车检测、立体车库、石油化工、冶金、陶瓷、玻璃、印染纺织、木工机械等传动设备的各个行业。

围绕“品质至上、服务为先”的战略方针，认真贯彻执行国际质量认证体系，核心产品自主研发并获得多项“国家知识产权局”授予的专利称号，部分产品已列入省技术创新计划项目之中。公司与多家科研机构建立战略合作，并列入“杭州师范大学”教学科研实习基地。年取得了企业自营进出口权，产品远销欧美、东南亚等国家和地区。

“雷杜”自创立至今始终遵循“诚信、专业、高效、共赢”的科学的管理和服务理念，真诚期待与您共同携手，开拓美好科技未来。

Hangzhou Leidu Technology Co., Ltd. is a professional transmission technology enterprise integrating product research and development, technical services, production and operation. Committed to providing more competitive transmission solutions and services, to create greater value for customers!

The company's main products are R, S, K, F series geared motor, RV/WP series worm reducer, UD/MB series stepless reducer, P series precision planetary reducer, H/B series high-power reducer, C/G series gear motor and SWL series screw elevator. Products are widely used in environmental protection equipment, road building machinery, storage and logistics, food machinery, printing and packaging, automotive testing, three-dimensional garage, petrochemical, metallurgy, ceramics, glass, printing and dyeing textile, woodworking machinery and other transmission equipment industries.

Around the strategic policy of "quality first, service first", we earnestly implement the international quality certification system. The core products are independently developed and awarded many patent titles by the State Intellectual Property Office. Some of the products have been listed in the provincial technical innovation program. The company has established strategic cooperation with several scientific research institutions and has been listed as the teaching and scientific research practice base of Hangzhou Normal University. In, the company gained the right of self import and export, and its products were exported to Europe and America, Southeast Asia and other countries and regions.

Since its inception, Leidu has always followed the scientific management and service concept of "integrity, professionalism, efficiency and win-win" and sincerely looks forward to working with you to open up a bright future of science and technology.

CORPORATE CONCEPT

诚：推心置腹，言而有信；精诚所至，始终如一；
志：志不立，天下无可成之事；有志者，事竟成；
恒：锲而不舍，金石可镂；欲稍得成，从恒下手；
专：凡为一事，事皆贵专；以专而精，以纷而散；
实：实事求是，精益求精，差之毫厘，失之千里；
勤：刻苦求进，勤学善思；懒惰误己，勤奋兴财；

Sincerity: Put your heart in your mouth, believe in your words, and be honest and consistent.

Ambition: Nothing can be done without ambition; if there is a will, there will be competition.

Eternal: Perseverance, stone can be carved; want to get a little bit, from constant hands.

Profession: Everything is for the sake of one thing; it is specialized and refined, and scattered in different ways.

Pragmatism: Seeking truth from facts, strives for perfection, and makes a difference.

Industrious: Diligently seeking progress, diligent learning and good thinking; laziness and wrong self, diligence and prosperity.

产品介绍
Product introduction

R、S、K、F系列斜齿轮减速电机 R,S,K,F series helical gear motors


R系列斜齿轮减速电机
R series helical geared motor


S系列斜齿轮-蜗轮蜗杆减速电机
S series helical-worm geared motor


K系列斜齿轮-伞齿轮减速电机
K series helical-bevel geared motor


F系列平行轴-斜齿轮减速电机
F series parallel shaft-helical geared motor

通用减速机系列 General reducer series	
安装方式：底角，法兰，扭力臂。 **Mounting arrangements:** foot, flange, torque arm.	
功率 Power(KW)	0.12-200
速比 Ratio	1.3-33000
最大输出扭矩 Output torque(KN.M)	top to 50

HB系列重载齿轮箱 HB series heavy duty gearboxes


H系列斜齿轮减速机
H seies helical gearbox


B系列斜齿轮-锥齿轮减速机
B series bevel-helical gearbox

通用减速机系列 General reducer series.	
模块化设计，安装方式多样。可配置逆止器单向传动，以及串联辅助传动。 Highly standard modular designed. No strict limitation to the mounting arrangement. Can be configured to one-way transmission by backstop. Available to install with auxiliary drive.	
功率 Power(KW)	4-6000
速比 Ratio	1.25-450
最大输出扭矩 Output torque(KN.M)	top to 950

产品介绍
Product introduction

重载行星减速机 Heavy duty planetary reducers

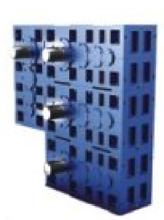

N系列行星减速机
N series planetary reducer


P系列行星减速机
P series planetary reducer

通用减速机系列 General reducer series	
单位承载能力极高。 Very high unit capacity.	
功率 Power(KW)	0.37-12000
速比 Ratio	25-4000
最大输出扭矩 Output torque(KN.M)	top to 2600

橡塑行业专用减速机 Special reducers for rubber and plastic industry


单螺杆挤出机减速机
Special reducer for single screw extruder


压延机专用减速机
Special reducer for calendaring machine


平双螺杆挤出机减速机
Special reducer for twin screws extruder


密炼机专用减速机
Special reducer for internal mixer

专用减速机系列 Special reducer series.	
常用于橡塑行业炼胶，挤出，压延设备。 Commonly used in rubber mixer, extruder, calendaring machine of rubber and plastic industry.	
功率 Power(KW)	55-2500
速比 Ratio	8-35
最大输出扭矩 Output torque(KN.M)	top to 300

企业产品 CORPORATE PRODUCT

蜗轮蜗杆减速机 Worm gear motors


RV系列蜗轮减速电机
RV series worm gear motor


VF系列蜗轮减速电机
VF series worm gear motor


WP系列蜗轮减速电机
WP series worm gear motor


UD系列无极变速器
UD series variable speed machine


T系列螺旋伞齿轮转向箱
T series spiral bevel gear reducer


SWL系列蜗轮丝杆升降机
SWL series worm gear screw reducer

通用减速机系列 General reducer series	
铝合金壳体的蜗轮传动减速机。 结构紧凑，多方位安装，免维护。 Aluminum alloy shell, compact structure, multiple installation, maintenance free.	
功率 Power(KW)	0.06-15
速比 Ratio	7.5-100
最大输出扭矩 Output torque(N.M)	top to 1760

摆线针轮减速电机 Cycloidal pinwheel reducers


BWD系列摆线减速电机
BWD series cycloidal pinwheel reducer


BLD系列摆线减速电机
BLD series cycloidal pinwheel reducer


卧式微型摆线减速电机
Horizontal micro cycloidal pinwheel reducer


立式微型摆线减速电机
Vertical micro cycloidal pinwheel reducer

通用减速机系列 General reducer series	
结构紧凑，通过摆线针轮传递动力。 Compact structure. Cycloidal pinwheel transmission.	
功率 Power(KW)	0.12-90
速比 Ratio	7-650000
最大输出扭矩 Output torque(KN.M)	top to 30

圆柱齿轮减速机 Cylindrical gear reducers


ZDY系列圆柱齿轮减速机
ZDY series cylindrical gear reducer


ZFY系列圆柱齿轮减速机
ZFY series cylindrical gear reducer


ZSY系列圆柱齿轮减速机
ZSY series cylindrical gear reducer


ZLY系列圆柱齿轮减速机
ZLY series cylindrical gear reducer

通用减速机系列 General reducer series	
按行业标准生产，并可配置逆止器单向传动以及串联辅助传动。 Can be configured to one-way transmission by backstop. Available to install with auxiliary drive.	
功率 Power(KW)	1.1-6000
速比 Ratio	1.25-500
最大输出扭矩 Output torque(KN.M)	top to 520

产品介绍
Product introduction

三项异步电机 Three-phase asynchronous motors

YE2系列高效电机
YE2 series high efficiency motor

YBX3系列防爆电机
YBX3 series premium efficiency flameproof motor

YEJ系列制动电机
YEJ series braking motor

YVF2系列变频电机
YVF2 series variable frequency motor

通用电动机系列 General motor series	
常规工业动力。 Conventional industrial power.	
功率 Power(KW)	0.12-315
机座号 Stand No.	63-355
电源频率(Hz) Power frequency	50/60

微小型减速电机 Micro and small gear motors

CH系列减速电机
CH series gear motor

CV系列减速电机
CV series gear moto

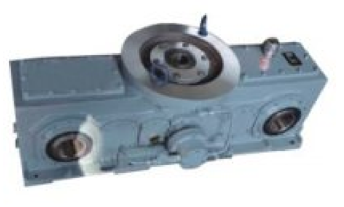
直流减速电机
Direct current gear motor

精密行星减速机
High precision planetary reducer

通用减速机系列 General reducer series	
质量轻，噪音低，效率高，寿命长等。 Light weight, low noise, high efficiency, long life etc.	
功率 Power(KW)	0.006-7.5
速比 Ratio	2-200
最大输出扭矩 Output torque(N.M)	top to 7400

产品介绍
Product introduction

双轴桨叶式混合机专用减速机 Special reducer for twin shafts paddle mixe



双轴桨叶式混合机专用减速机
Special reducer for twin shafts paddle mixer

双轴桨叶式混合机
Twin shafts paddle mixer

专用减速机系列 Special reducer series.	
该款减速机专为双轴桨叶式混合机设计，减速机与混合机直联，最大程度的节省了安装空间和生产成本，因而设备运行更加平稳，高效。 The reducer is designed for twin shafts paddle mixer, connect with the mixer directly, saving the installation space and production cost at maximum degree, so the equipment runs more smoothly and efficiently.	
功率 Power(KW)	15-90
速比 Ratio	33-50
最大输出扭矩 Output torque(KN.M)	70

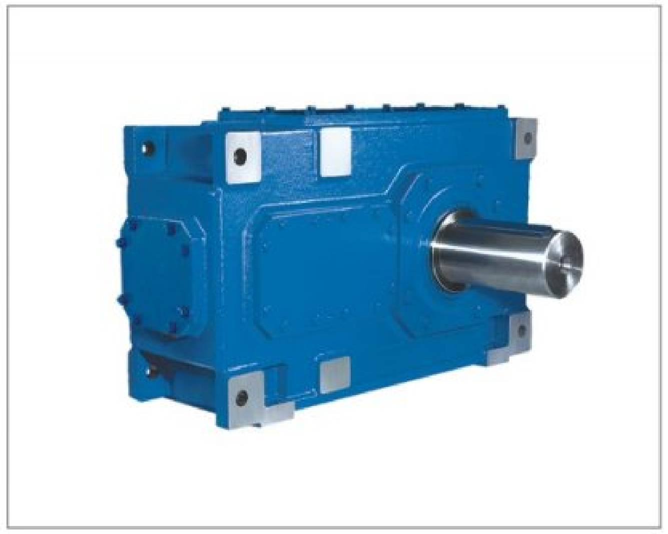
焊接滚轮架专用减速机 Special reducer for welding rotator

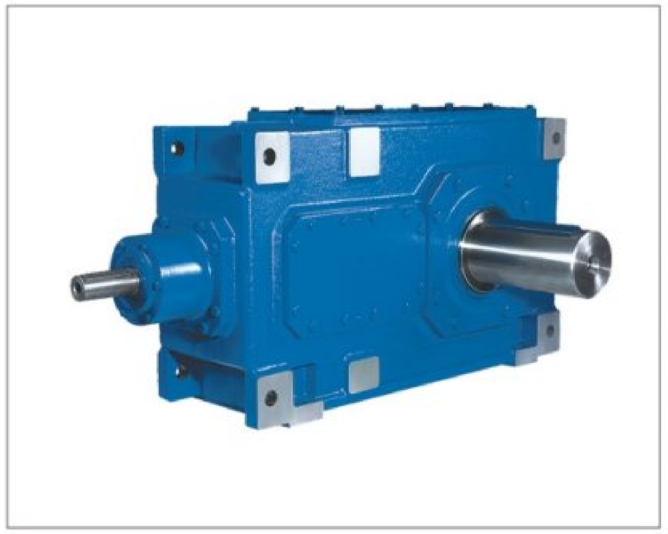
焊接滚轮架专用减速机
Special reducer for welding rotator

焊接滚轮架
Welding rotator

专用减速机系列 Special reducer series	
适用于自调式双驱动滚轮架，移动式焊接滚轮架等各种自动焊接的滚轮架驱动。 The reducers apply to bolt adjustable rotator, self aligning rotator, lead screw adjustable rotator, and fit up rotator, etc.	
功率 Power(KW)	0.18-22
速比 Ratio	300-3400
最大输出扭矩 Output torque(KN.M)	180

产品图片
Product Pictures





备忘录 MEMORANDUM

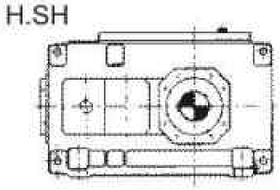
齿轮箱 Gear Units
目录 Contents

H/B工业齿轮箱 GEAR UNITS

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

卧式安装
平行轴齿轮箱
类型 H1...,H2...,H3,...,H4...
1–...4– 级传动， iN=1.25–450

Horizontal mounting position
Helical gear units
Types H1...,H2...,H3,...,H4...
1–...4–stage， iN=1.25–450

H.SH

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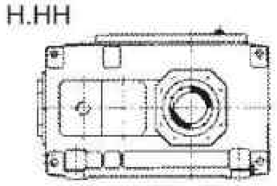
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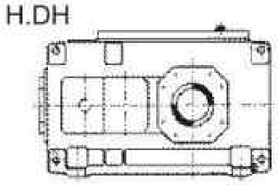
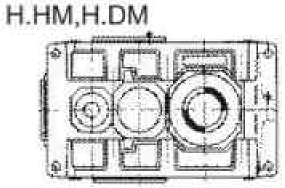
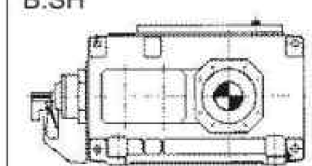

H.HM,H.DM


直交轴齿轮箱
类型 B2...,B3...,B4...
2–...4– 级传动， iN=5–400

Bevel–helical gear units
Types B2...,B3...,B4...
2–...4–stage， iN=5–400

B.SH

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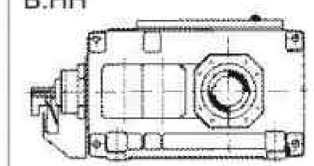
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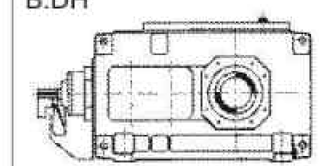
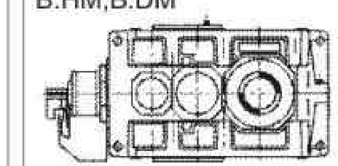
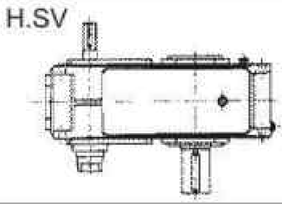
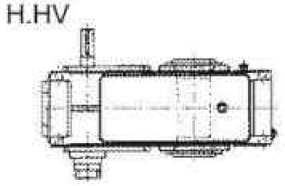
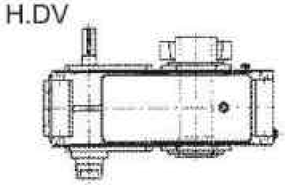

B.HM,B.DM


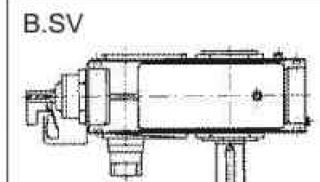
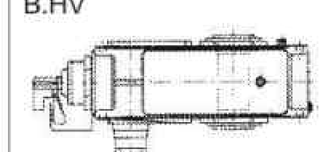
立式安装
平行轴齿轮箱
类型 H2.V,H3.V,H4.V
2–...4– 级传动， iN=6.3–450

Vertical mounting position
Helical gear units
Types H2.V,H3.V,H4.V
2–...4–stage， iN=6.3–450

H.SV

H.HV

H.DV


直交轴齿轮箱
类型 B2.V,B3.V,B4.V
2–...4– 级传动， iN=5–400

Bevle–helical gear units
Types B2.V,B3.V,B4.V
2–...4–stage， iN=5–400

B.SV

B.HV

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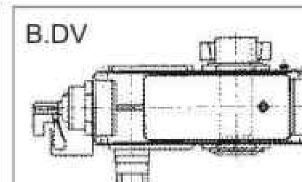


齿轮箱 Gear Units
性能特点 Characteristic

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，使齿轮箱满足在狭小空间的安装要求（根据客户要求供货）。

安装方式

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

齿轮的噪音特性

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

齿轮箱散热

齿轮箱不仅具有很高的传动效率，而且具有良好的散热性能，主要通过以下方法：
- 增大箱体的表面积；
- 采用大风扇及新型导流风扇罩；
- 根据较低的最大允许油温选择齿轮箱。这样，可因换油周期加长而提供设备运行可靠性，并能降低设备维护费用。

库存

齿轮箱根据单元结构模块化设计原理，大大减少了零部件种类。

Design

Gear units are a completely new design,Outsanding innovations are;
- More size with a reduced variety of parts;
- Higher operational reliablity combined with increased power capacity;
- Flanged output shafts 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 productrange.

Noise behaviour

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

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 temper ature. 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 Informations

注意事项
应严格遵守以下各项：

- 样本中的附图只属范例，并不要求严格一致，所注尺寸可以有所变动。
- 所注重量仅为平均值，并不要求严格一致。
- 为防止发生事故，所有旋转部件均应根据国家和当地安全规定加罩防护。
- 试车之前，必须认真阅读设备操作说明书。减速机供货时已作好运行准备，只是未加润滑油。
- 此处给出的加油量只作为参考值。实际油量以油标上的标记为准。
- 润滑油粘度须以减速机铭牌上的数值为准。
- 减速机供货时带径向轴封。用户如有特别要求，可提供其它形式的密封装置。
- 转动方向是指输出轴d_2的方向。

Attention:
The following items are absolutely to be observed:

- Illustrations are examples only and are not strictly binding, Dimensions are subject to change
- The weights are mean values and not strictly binding.
- To prevent accidents, all rotating parts should be guarded according to local and national safety regulations.
- Prior to commissioning, the operating instructions must be observed. The reducers are delivered ready for
- Operation but without oil filling.
- Oil quantities given are guide values only. The exact quantity of oil depends on the marks on the oil dipstick.
- The oil viscosity has to correspond to the data given on the name plate.
- The reducers are supplied with radial shaft seals. Other sealing variants on request.
- Directions of rotation referring to output shaft d_2.

在标注尺寸的图纸上使用的符号说明如下：
Explanation of symbols used in the dimensioned drawings:

= 油 尺 Oil dipstick

= 通气孔 Breather

= 放油孔 Oil drain

= 加油孔 Oil filler

规格13号以上减速机箱体地脚上配有千斤顶螺丝，箱盖上配有调平面。

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

基础螺栓的最低性能等级为8.8级

Foundation bolts of min, property class 8.8.

齿轮箱 Gear Units
型号表示方法 Designation of Types

B 系列输入轴旋转方向（面对输入轴看 CW 为顺时针，CCW 为逆时针，H 省略）
The direction of rotation of the B series output shaft(view onto the input shaft:CW is clockwise,CCW is counterclockwise,ignore H)

轴布置形式（A，B，C，D 等）
Design of shaft（A，B，C，D etc）

额定传动比 iN（见 104–107 页）
Norminal ratio (see page 104–107)

规格 1...26
Sizes 1...26

安装形式
H= 卧式安装
Horizontal
M= 卧式安装不带底脚
Horizontal design without feet
V= 立式安装
Vertical

输出轴布置形式 Output shaft of design
S= 实心轴
Solid shaft
H= 空心轴
Hollow shaft
D= 带胀紧盘的空心轴
Hollow shaft for shrink disk

传动级数 No.of stages

类型 Type
H= 平行轴齿轮箱
Helical gear unit
B= 直交轴齿轮箱
Bevel–helical gear unit

例：

B	3	S	H	11	25	A	CW

CW: 输入轴旋转方向为顺时针
Input is clockwise
A: 轴布置形式 A
Design of shaft A
25: 额定传动比 iN=25（见 104–107 页）
Norminal ratio iN=25(see page 104–107)
11: 规格 11
Sizes 11
H: H= 卧式安装
Horizontal
S: S= 实心轴
Solid shaft
3: 传动级数
No of stages
B: 直交轴齿轮箱
Bevel–helical gear unit

齿轮箱 Gear Units
选型指南 Guidelines for the selection

<table>
<tr><td>1. 确定齿轮箱的类型及规格
1. Determination of gear unit type and size</td><td colspan="2">1.1 计算传动比 Find the tranasmission ratio
$i_S=\frac{n_1}{n_2}$
1.2 确定齿轮箱的额定功率 Determine nominal power rating of the gear unit
$P_N \geqslant P_2 \times f_1 \times f_2 \times S_A$
如果不满足下列条件，请向我们咨询 It is not necessary to consult us, if:
$3.33 \times P_2 \geqslant P_N$
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
$P_n \geqslant \frac{T_A \times n_1}{9550} \times f_3$
齿轮箱的规格和传动级数列在额定功率选型表中，可根据 iN 和 PN 确定。
Gear unit sizes and number of reduction stages are given in rating tables depending on in and PN
1.4 检查输出轴上是否允许有附加载荷：见 36–37 页
1.4 Check whether additional forces on the output shaft are permissible;see pages 36–37
1.5 根据 104–107 页上的表检查实际传动比是否满足要求
1.5 Check whether the actual ratio i as per table on pages 104–107 is acceptable</td></tr>
<tr><td rowspan="2"></td><td colspan="2">安装方式 Mounting position</td></tr>
<tr><td>卧式安装 Horizontal</td><td>立式安装 Vertical</td></tr>
<tr><td>2. 确定润滑方式
2.Lubrication method to determine</td><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 lubricated 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 84–121 页。
Possible oil supply variations:
–Dip lubrication
–Forced lubrication by means of flange donpump or motor pump. For preferred variants and critena fo selection, page 84–121</td></tr>
<tr><td>3. 确定冷却方式
3. Sure cooling way</td><td colspan="2">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 unit without auxiliary cooling.if:
$P_2 \leqslant P_G = P_{G1} \times f_4 \times f_6 \times f_8 \times f_9$
3.2 如满足以下条件，则齿轮箱带冷却风扇可满足要求：
3.2 Adequate for gear unit with fan cooling,if:
$P_2 \leqslant P_G = P_{G2} \times f_4 \times f_6 \times f_9 \times f_{10}$
3.3 如满足以下条件，则齿轮箱带冷却盘管可满足要求：
3.3 Adequate for gear unit with fitted cooling coil,if :
$P_2 \leqslant P_G = P_{G3} \times f_5 \times f_7 \times f_8 \times f_{11}$
3.3 如满足以下条件，则齿轮箱带冷却盘管和风扇可满足要求：
3.3 Adequate for gear unit with cooling coil and fan,if:
$P_2 \leqslant P_G = P_{G5} \times f_7 \times f_8 \times f_{12}$
3.5 如需要较高的热容量，则可按用户要求提供外部润滑油冷却装置进行冷却。
3.5 For higher thermal capacities,cooling by extermal oil,coolre on request</td></tr>
</table>

齿轮箱 Gear Units
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	=	工作机系数 (表1)，20页 Factor for driven machine (table 1), pages 20
f_2	=	原动机系数 (表2)，21页 Factor for prime mover (table 2), page 21
f_3	=	峰值扭矩系数 (表3)，21页 Peak torque factor (table 3), page 21
f_4, f_5	=	环境温度系数 (表4+表5)，21页 Thermal factors (tables 4 + 5), page 21
f_6, f_7	=	海拔高度系数 (表6+表7)，21页 Factors for altitude (tables 6 + 7), page 21
f_8	=	立式安装齿轮箱供油系数 (表8)，22页 对于卧式安装齿轮箱：f_8=1 Oil supply factor for vertical gear units (Table 8), page 22 For horizontal gear units: f_8=1
f_9 , f_{10} f_{11}, f_{12}	=	热容量系数 (表9…14)，22-23页 Therm alcapacity factors (tables9... 14), pages 22-23
a_1	=	规格系数 Size factor
a_2	=	传动比系数 Transmission ratio factor
i	=	实际传动比 Actual ratio
iN	=	额定传动比 Nominal ratio
is	=	要求传动比 Required ratio
n1	=	输入转速 (r/min) Input speed (r/min)
n2	=	输出转速 (r/min) Output speed (r/min)
P_G	=	要求的热容量 Required thermal capacity
P_{G1}	=	齿轮箱的热容量，不带辅助冷却装置，25-33页 Thermal capacity for gear units without auxiliary cooling, pages 25-33
P_{G2}	=	齿轮箱的热容量，带冷却风扇，25-33页 Thermal capacity for gear units with fan cooling, pages 25-33
P_{G3}	=	齿轮箱的热容量，带内置冷却盘管，25-33页 Thermal capacity for gear units with built-in cooling coil, pages 25-33
P_{G4}	=	齿轮箱的热容量，带内置冷却盘管和风扇，25-33页 Thermal capacity for gear units with built-in cooling coil and fan, pages 25-33
P_N	=	齿轮箱的额定功率(kW)，见选型表，24-32页 Nominal power rating of gear units(kW), see tables, pages24-32
P_2	=	工作机的额定功率(kW) Power rating of driven machine (kW)
t	=	环境温度(℃) Ambient temperature (℃)
T_A	=	输入轴最大扭矩，如峰值工作扭矩、起动扭矩或制动扭矩(N.m) Max. torque occurring on input shaft, e.g. peak operating-, starting- or braking torque (N.m)
T_{2N}	=	额定输出扭矩 (kN.m)，34-35页 Nominal output torque (kN.m), pages 34-35
S_A	=	减速机安全系数 (表15) 21页 Safety coefficient of speed reducer (table 15) Page 21

齿轮箱 Gear Units
选型示例 Selection Example

已知参数：

原动机
电机功率：P_1=75kW
电机转速：n_1=1500rpm
最大起动扭矩：T_A=720N.m

工作机
皮带输送机功率：P_2=66kW
转速：n_2=26rpm
工作制：12小时／天
每小时起动次数：7
每小时工作周期：E_D=100%
环境温度：30℃
室外安装(风速)：(w≥4m/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)，布置型式C
输出轴d_2的转动方向：ccw

KNOWN CRITERIA:

PRIME MOVER
Electric motor: P_1=75 kW
Motor speed: n_1=1500 rpm
Max. starting torque: T_A=720 N.m

DRIVEN MACHINE
Belt conveyor: P_2=66 kW
Speed:n_2=26 rpm
Duty: 12 h/day
Starts per hour: 7
Operating cycle per hour: E_D=100%
Ambient temperature: 30℃
Outdoor installation: (w≥4m/s)
Altitude: sea level
Reliability: normal

GEAR UNIT DESIGN
Bevel-helical reductors
Mounting position: horizontal
Output shaft d_2: on right hand side design C
Direction of rotation of output shaft d_2: ccw

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

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

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

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

$$P_N \geqslant P_2 \times f_1 \times f_2 \times S_A=66 \times 1.3 \times 1 \times 1.4=120kW$$

从额定功率表中选择：类型B3，规格10，对应的P_N=122kW
Selected from power rating table: type B3 , gear unit size 10 , with P_N =122kW

$$3.33 \times P_2 \geqslant P_N \qquad 3.33 \times 66= 219.8kW > P_N$$

1.3 检查起动扭矩 Checking the starting torque

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

2. 确定热容量Determination of thermal capacity
根据表中给出的B3型齿轮箱参数，计算不带辅助冷却装置的齿轮箱热容量
Thermal capacity for gear units without auxiliary cooling, acc. to table for type B3

$$P_G = P_{G1} \times f_4 \times f_6 \times f_8 \times f_9 \qquad P_G = 78.9kW \times 0.88 \times 1 \times 1 \times (1.23-2.80 \times 0.095 \times 0.15) \qquad P_G= 82.6kW$$
$$P_2 = 66kW < P_G= 82.6kW$$

结论：齿轮箱不带辅助冷却装置，可满足要求！
Conclusion: A gear units without auxiliary cooling is sufficient!

齿轮箱 Gear Units
服务系数 Service Factors

表1		工作最低工况系数f_1							
工作机		日带载运行时间(小时)			工作机		日带载运行时间(小时)		
		<0.5	>0.5–10	>10			<0.5	>0.5–10	>10
污水处理	浓缩器	–	–	1.2	起重机械	回转机构 *	1	1.4	1.8
	压滤波器	1	1.3	1.5		俯仰机构	1	1.4	1.8
	絮凝器	0.8	1	1.3		行走机构	1.5	1.75	2
	曝气机	–	1.8	2		提升机构	1	1.1	1.4
	搂集设备	1	1.2	1.3		转臂式起重机	1	1.2	1.6
	纵向、回转组合搂集装置	1	1.3	1.5	化学工业	挤压机	–	–	1.6
	预缩器	–	1.1	1.3		调浆机	–	1.8	1.8
	螺杆泵	–	1.3	1.5		橡胶研光机	–	1.5	1.5
	水轮机	–	–	2		冷却圆筒	–	1.3	1.4
	离心泵	1	1.2	1.3		混料机, 用于均匀介质	1	1.3	1.4
	1个活塞容积式泵	1.3	1.4	1.8		混料机, 用于非均匀介质	1.4	1.6	1.7
	>1个活塞容积式泵	1.2	1.4	1.5		搅拌机, 用于 密度均匀介质	1	1.3	1.5
挖泥机	斗式运输机	/	1.6	1.6		搅拌机, 用于非密度均匀介质	1.2	1.4	1.6
	倾卸装置	/	1.3	1.5		烘炉	1	1.3	1.5
	行走机构*	1.2	1.6	1.8		离心机	1	1.2	1.3
	斗轮式挖掘机:用于捡拾	/	1.7	1.7	风机类	冷却塔风扇	–	–	2
	斗轮式挖掘机:用于粗料切碎机	/	2.2	2.2		风机（轴流和离心式）	–	1.4	1.5
	切碎机	/	2.2	2.2	蔗糖生产	甘蔗切碎机*	–	–	1.7
钢铁工业	拉线机	1.25	1.5	1.75		甘蔗碾磨机	–	–	1.7
	绕线机	1	1.25	1.5	甜菜糖生产	甜菜绞碎机	–	–	1.2
	集中驱动辊道 (无反转)	1.25	1.5	1.75		榨取机, 机械制冷机, 蒸煮机	–	–	1.4
	单驱动辊道 (无反转)	1.5	1.75	2		甜菜清洗机	–	–	1.5
	集中驱动辊道 (有反转)	1.75	2.25	2.5		甜菜切碎机	–	–	1.5
	单驱动辊道 (有反转)	2	2.25	2.75	索道缆车	运货索道	–	1.3	1.4
纺织工业	织机	1.25	1.5	1.75		往返系统空中索道	–	1.6	1.8
	纺纱机	1	1.25	1.5		T型杆升降机	–	1.3	1.4
	洗涤机	1	1.25	1.5		连续索道	–	1.4	1.6
输送机械	斗式输送机	–	1.2	1.5	水泥工业	混凝土搅拌机	–	1.5	1.5
	绞车	1.4	1.6	1.6		破碎机*	–	1.2	1.4
	卷扬机	–	1.5	1.8		回转窑	–	–	2
	皮带输送机<150kw	1	1.2	1.3		管式磨机	–	–	2
	皮带输送机>150kw	1.1	1.3	1.4		选粉机	–	1.6	1.6
	货用电梯*	–	1.2	1.5		辊压机	–	–	2
	客用电梯*	–	1.5	1.8	造纸机械	各种类型**	–	1.8	2
	刮板输送机	–	1.2	1.5		碎浆机驱动装置	–	2	2.25
	自动扶梯	–	1.2	1.4	压缩机	往复式压缩机	–	1.8	1.9
	轨道行走机构	–	1.5	–		离心式压缩机	–	1.4	1.5

工作机额定功率P2的确定：*）按最大扭矩确定额定功率。**）检验热功率是绝对必要的。

起动系数f_2			
起动次数/每小时	<0.5h	0.5–10h	>10h
<10	1.00	1.00	1
<100	1.15	1.25	1.4
<500	1.25	1.4	1.7

环境温度系数f_3					
环境温度	10℃	20℃	30℃	40℃	50℃
环境温度系数f_3	0.88	1.00	1.15	1.35	1.65

齿轮箱 Gear Units
服务系数 Service Factors

表 2 Table 2	原动机系数 Factor for prime mover f_2
电机，液压马达，汽轮机 Electric motors,hydraulic motors tubines	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 f_3			
	每小时峰值负荷次数 load peaks per hour			
	1–5	6–30	31–100	>100
f_3 单向载荷 steady direction of load	0.5	0.65	0.7	0.85
f_3 口 交变载荷 Altemating direction of load	0.7	0.95	1.10	1.25

表 4 Table 4	环境温度系数 Thermal factor f_4				
不带辅助冷却装置或仅带冷却风扇 Without auxiliary cooling or with fan cooling					
环境温度 Ambient temperature	每小时工作周期 (ED) 百分比 % Oprating cycle per hour (ED) in %				
	100	80	60	40	20
10 ℃	1.14	1.20	1.32	1.54	2.04
20 ℃	1.00	1.06	1.16	1.35	1.79
30 ℃	0.87	0.93	1.00	1.18	1.56
40 ℃	0.71	0.75	0.82	0.96	1.27
50 ℃	0.55	0.58	0.64	0.74	0.98

表 5 Table 5	环境温度系数 Thermal factor f_5				
带冷却盘管或带冷却盘管和风扇 For cooling with cooling coil, or with fan and cooling coil					
环境温度 Ambient temperature	每小时工作周期 (ED) 百分比 % Oprating cycle per hour (ED) in %				
	100	80	60	40	20
10 ℃	1.04	1.10	1.21	1.40	1.86
20 ℃	1.00	1.06	1.16	1.35	1.79
30 ℃	0.93	0.99	1.08	1.26	1.66
40 ℃	0.88	0.93	1.02	1.19	1.58
50 ℃	0.81	0.86	0.94	1.09	1.45

表 6 Table 6	海拔高度系数 Factor for altitude f_6				
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_6	1.0	0.95	0.90	0.85	0.80

表 7 Table 7	海拔高度系数 Factor for altitude f_7				
带冷却盘管或带冷却盘管和风扇 For cooling with cooling coil, or with fan and cooling coil					
系数 Factor	海拔高度（m，高于海平面） Altitude (metres above MSL)				
	高达 Up to	高达 Up to	高达 Up to	高达 Up to	高达 Up to
	1000	2000	3000	4000	5000
f_7	1.0	0.98	0.96	0.94	0.92

表 15 Table 15	减速机安全系数 Factor safety S_A		
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更换备件 The failure of ordinary equipment and speed reducer can only result in production halts of single machine and repla cement 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 or machines, production lines or the whole factory.	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.
S_A	1.1–1.3	1.3–1.5	1.5–1.7

齿轮箱 Gear Units
服务系数 Service Factors

表 8 Table 8 立式安装齿轮箱供油系数。对于卧式安装齿轮箱 f8=1.0；当采用强制润滑时，f8=1.05 / Oil supply factor for vertical gear units. For horizontal gear units f8=1.0, and in case of forced lubrication f8=1.05 — f_8

齿轮箱类型 Gear unit type	供油方式 Oil supply	规格 1...12 Sizes 1...12				规格 13...18 Sizes 13...18			
		不带辅助冷却装置 Without auxiliary cooling	带冷却风扇 With Fan	带冷却盘管 With Cooling coil	带风扇和冷却盘管 With fan and cooling coil	不带辅助冷却装置 Without auxiliary cooling	带冷却风扇 With Fan	带冷却盘管 With Cooling coil	带风扇和冷却盘管 With fan and cooling coil
H2.V H3.V H4.V	浸油润滑 Dip lubrication	0.95	*	0.95	*	*	*	*	*
	强制润滑 Forced lubrication	1.15	*	1.05	*	1.15	*	1.05	*
B2.V B3.V B4.V	浸油润滑 Dip lubrication	0.95	0.95	0.95	0.95	*	*	*	*
	强制润滑 Forced lubrication	1.15	1.10	1.10	1.10	1.15	1.10	1.10	1.10

表 9 Table 9 不带辅助冷却装置齿轮箱的热容量系数 / Thermal capacity factor for gear units without auxiliary cooling — f_9

齿轮箱类型 Gear unit type	n r/min	安装位置 Place of installation: 狭小空间安装规格风速≥0.5m/s Small confined spaces wind velocity ≥ 0.5m/s	室内大厅，大车间安装 风速≥1.4m/s Large halls workshops Wind velocity ≥ 1.4m/s	室外安装 风速≥4.0m/s In the open Wind velocity ≥ 4.0m/s
H1	750	0.68-0.26Xa1Xa2	0.79-0.27Xa1Xa2	1.00
	1000	0.70-0.79Xa1Xa2	0.84-0.85Xa1Xa2	1.14-0.81Xa1Xa2
	1500	0.72-2.50Xa1Xa2	0.89-2.60Xa1Xa2	1.25-2.60Xa1Xa2
	1800	0.71-3.60Xa1Xa2	0.92-4.40Xa1Xa2	1.30-4.20Xa1Xa2
H2	750	0.76-0.08Xa1Xa2	0.79-0.21Xa1Xa2	1.00
	1000	0.76-1.00Xa1Xa2	0.87-1.40Xa1Xa2	1.12-1.30Xa1Xa2
	1500	0.83-4.10Xa1Xa2	0.96-4.60Xa1Xa2	1.25-4.20Xa1Xa2
	1800	0.85-6.80Xa1Xa2	0.98-7.10Xa1Xa2	1.31-6.80Xa1Xa2
H3	750	0.76	0.81-0.06Xa1Xa2	1.0
	1000	0.83-1.20Xa1Xa2	0.90-1.36Xa1Xa2	1.11-1.30Xa1Xa2
	1500	0.93-4.70Xa1Xa2	1.00-4.80Xa1Xa2	1.27-5.10Xa1Xa2
	1800	0.96-7.50Xa1Xa2	1.05-7.60Xa1Xa2	1.32-7.40Xa1Xa2
H4	750	0.78	0.83	1.00
	1000	0.85	0.91-1.60Xa1Xa2	1.10-2.40Xa1Xa2
	1500	0.97-10.0Xa1Xa2	1.03-12.5Xa1Xa2	1.27-14.0Xa1Xa2
	1800	1.02-18.4Xa1Xa2	1.09-21.2Xa1Xa2	1.34-23Xa1Xa2
B2	750	0.66-0.09Xa1Xa2	0.77-0.14Xa1Xa2	1.00
	1000	0.69-0.70Xa1Xa2	0.81-0.77Xa1Xa2	1.08-0.64Xa1Xa2
	1500	0.74-3.20Xa1Xa2	0.88-3.30Xa1Xa2	1.20-2.90Xa1Xa2
	1800	0.75-5.60Xa1Xa2	0.90-5.50Xa1Xa2	1.25-4.90Xa1Xa2
B3	750	0.73	0.80-0.05Xa1Xa2	1.00
	1000	0.79-0.63Xa1Xa2	0.87-0.81Xa1Xa2	1.10-0.73Xa1Xa2
	1500	0.86-2.40Xa1Xa2	0.95-2.60Xa1Xa2	1.23-2.80Xa1Xa2
	1800	0.88-4.00Xa1Xa2	0.99-4.30Xa1Xa2	1.28-4.30Xa1Xa2
B4	750	0.77	0.82	1.00
	1000	0.83	0.88	1.09-0.29Xa1Xa2
	1500	0.92-1.70Xa1Xa2	0.99-2.20Xa1Xa2	1.24-2.60Xa1Xa2
	1800	0.96-3.90Xa1Xa2	1.04-4.40Xa1Xa2	1.30-4.80Xa1Xa2

表 10 Table 10 带冷却风扇齿轮箱的装置热容量系数 / Thermal capacity factor for gear units with fan — f_{10}

齿轮箱类型 Gear unit type	n r/min	安装位置 Place of installation: 狭小空间安装规格风速≥0.5m/s Small confined spaces wind velocity ≥ 0.5m/s	室内大厅，大车间安装 风速≥1.4m/s Large halls workshops Wind velocity ≥ 1.4m/s	室外安装 风速≥4.0m/s In the open Wind velocity ≥ 4.0m/s
H1	750	0.97-0.05Xa1Xa2	0.97-0.04Xa1Xa2	1.00
	1000	1.18-0.33Xa1Xa2	1.20-0.33Xa1Xa2	1.23-0.32Xa1Xa2
	1500	1.53-1.00Xa1Xa2	1.53-0.95Xa1Xa2	1.56-0.94Xa1Xa2
	1800	1.69-1.50Xa1Xa2	1.70-1.50Xa1Xa2	1.73-1.50Xa1Xa2
H2	750	0.95-0.07Xa1Xa2	0.96-0.06Xa1Xa2	1.00
	1000	1.16-0.65Xa1Xa2	1.17-0.63Xa1Xa2	1.21-0.55Xa1Xa2
	1500	1.54-2.40Xa1Xa2	1.55-2.40Xa1Xa2	1.58-2.20Xa1Xa2
	1800	1.74-3.80Xa1Xa2	1.75-3.80Xa1Xa2	1.78-3.60Xa1Xa2
H4	750	0.89-0.29Xa1Xa2	0.91-0.25Xa1Xa2	1.00
	1000	1.06-1.30Xa1Xa2	1.08-1.20Xa1Xa2	1.17-0.93Xa1Xa2
	1500	1.38-4.20Xa1Xa2	1.40-4.10Xa1Xa2	1.48-3.70Xa1Xa2
	1800	1.54-6.40Xa1Xa2	1.56-6.40Xa1Xa2	1.64-5.80Xa1Xa2
B2	750	0.95	0.96	1.00
	1000	1.13-0.15Xa1Xa2	1.14-0.16Xa1Xa2	1.19-0.19Xa1Xa2
	1500	1.47-0.92Xa1Xa2	1.48-0.92Xa1Xa2	1.52-0.95Xa1Xa2
	1800	1.65-1.70Xa1Xa2	1.66-1.70Xa1Xa2	1.69-1.70Xa1Xa2
B3	750	0.94	0.96	1.00
	1000	1.13-0.17Xa1Xa2	1.14-0.18Xa1Xa2	1.18-0.25Xa1Xa2
	1500	1.48-1.40Xa1Xa2	1.49-1.40Xa1Xa2	1.52-1.40Xa1Xa2
	1800	1.66-2.50Xa1Xa2	1.67-2.50Xa1Xa2	1.74-2.50Xa1Xa2

表 11 Table 11 带冷却盘管齿轮箱的热容量系数 / Thermal capacity factor for gear unit with cooling coil — f_{11}

齿轮箱类型 Gear unit type	n r/min	安装位置 Place of installation: 狭小空间安装规格风速≥0.5m/s Small confined spaces wind velocity ≥ 0.5m/s	室内大厅，大车间安装 风速≥1.4m/s Large halls workshops Wind velocity ≥ 1.4mis	室外安装 风速≥4.0m/s In the open Wind velocity ≥ 4.0m/s
H1	750	0.87	0.91	1.00
	1000	0.97-0.02Xa1Xa2	1.03-0.05Xa1Xa2	1.16-0.10Xa1Xa2
	1500	1.15-0.19Xa1Xa2	1.22-0.23Xa1Xa2	1.39-0.33Xa1Xa2
	1800	1.25-0.42Xa1Xa2	1.32-0.47Xa1Xa2	1.50-0.57Xa1Xa2
H2	750	0.88	0.91	1.00
	1000	1.01	1.06-0.08Xa1Xa2	1.17-0.24Xa1Xa2
	1500	1.27-0.79Xa1Xa2	1.33-0.88Xa1Xa2	1.47-1.10Xa1Xa2
	1800	1.40-1.40Xa1Xa2	1.46-1.50Xa1Xa2	1.61-1.70Xa1Xa2
H4	750	0.89	0.91	1.00
	1000	1.04	1.07	1.18-0.38Xa1Xa2
	1500	1.30-0.78Xa1Xa2	1.34-1.10Xa1Xa2	1.47-1.60Xa1Xa2
	1800	1.44-1.70Xa1Xa2	1.48-2.00Xa1Xa2	1.62-2.60Xa1Xa2
B2	750	0.86	0.90	1.00
	1000	0.98	1.02	1.15-0.09Xa1Xa2
	1500	1.14	1.19-0.05Xa1Xa2	1.38-0.37Xa1Xa2
	1800	1.21-0.13Xa1Xa2	1.29-0.29Xa1Xa2	1.49-0.64Xa1Xa2
B3	750	0.88	0.91	1.00
	1000	1.03	1.06	1.17-0.18Xa1Xa2
	1500	1.28-0.35Xa1Xa2	1.32-0.48Xa1Xa2	1.46-0.84Xa1Xa2
	1800	1.41-0.83Xa1Xa2	1.46-0.99Xa1Xa2	1.61-1.40Xa1Xa2

对于系数f_9、f_{10}和f_{11}<0.5，请与我们联系！For factors f_9, f_{10} and f_{11}<0.5, please refer to us!　　（*根据客户要求*）On request

齿轮箱 Gear Units
服务系数 Service Factor

表 12 Table 12 带冷却风扇和冷却盘管的齿轮箱的热容量系数 / hermal capacity factor for gear units with fan and cooling coil — f_{12}

齿轮箱类型 Gear unit type	n r/min	安装地点 Place of installation: 狭小空间安装规格风速 Small confined spaces wind velocity ≥ 0.5m/s	室内大厅，大车间安装风速 Large halls, workshops Wind velocity ≥ 1.4m/s	室外安装风速 In the open Wind velocity ≥ 4.0m/s
H1	750	0.98	0.98	1.00
	1000	1.19-0.09Xa1Xa2	1.20-0.09Xa1Xa2	1.22-0.09Xa1Xa2
	1500	1.56-0.31Xa1Xa2	1.56-0.30Xa1Xa2	1.57-0.29Xa1Xa2
	1800	1.75-0.52Xa1Xa2	1.76-0.52Xa1Xa2	1.77-0.52Xa1Xa2
H2	750	0.97	0.98	1.00
	1000	1.19-0.25Xa1Xa2	1.20-0.25Xa1Xa2	1.22-0.25Xa1Xa2
	1500	1.59-1.06Xa1Xa2	1.59-1.00Xa1Xa2	1.61-1.00Xa1Xa2
	1800	1.82-1.80Xa1Xa2	1.82-1.80Xa1Xa2	1.84-1.80Xa1Xa2
H3	750	0.94	0.95	1.00
	1000	1.14-0.46Xa1Xa2	1.15-0.47Xa1Xa2	1.20-0.48Xa1Xa2
	1500	1.51-2.10Xa1Xa2	1.52-2.00Xa1Xa2	1.57-2.00Xa1Xa2
	1800	1.71-3.30Xa1Xa2	1.72-3.30Xa1Xa2	1.77-3.20Xa1Xa2
B2	750	0.97	0.98	1.00
	1000	1.17-0.08Xa1Xa2	1.18-0.08Xa1Xa2	1.21-0.12Xa1Xa2
	1500	1.55-0.47Xa1Xa2	1.55-0.47Xa1Xa2	1.58-0.52Xa1Xa2
	1800	1.74-0.81Xa1Xa2	1.75-0.82Xa1Xa2	1.77-0.84Xa1Xa2
B3	750	0.97	0.97	1.00
	1000	1.17-0.08Xa1Xa2	1.18-0.10Xa1Xa2	1.21-0.19Xa1Xa2
	1500	1.56-0.84Xa1Xa2	1.57-0.85Xa1Xa2	1.60-0.92Xa1Xa2
	1800	1.78-1.50Xa1Xa2	1.78-1.50Xa1Xa2	1.80-1.50Xa1Xa2

对于系数 f_{12}<0.5，请与我们联系！ For factors f_{12}<0.5, please refer to us!

表 13 Table 13 尺寸系数 Size factor a1

Size	3	4	5	6	7	8	9	10	11	12	13	14
a1	0.024	0.030	0.050	0.055	0.065	0.075	0.085	0.095	0.135	0.160	0.190	0.200
Size	15	16	17	18	19	20	21	22	23	24	25	26
a1	0.027	0.290	0.320	0.345	0.370	0.390	0.530	0.610				

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

表 14 Table 14 传动比系数 Transmission ratio factor a2

i	H1SH	i	H2SH	i	H3SH	i	H4SH	i	B2SH	i	B3SH	i	B4SH
1.25	13.000	6.3	1.800	22.4	0.320	100	0.020	5	3.500	12.5	0.950	80	0.110
1.4	12.000	7.1	1.600	25	0.310	112	0.015	5.6	2.800	14	0.850	90	0.100
1.6	10.000	8	1.400	28	0.270	125	0.012	6.3	2.400	16	0.800	100	0.090
1.8	8.500	9	1.100	31.5	0.230	140	0.009	7.1	1.900	18	0.750	112	0.080
2	8.000	10	0.890	35.5	0.190	160	0.007	8	1.600	20	0.700	125	0.070
2.24	7.000	11.2	0.740	40	0.170	180	0.004	9	1.350	22.4	0.650	140	0.060
2.5	6.500	12.5	0.630	45	0.160	200	0.002	10	1.200	25	0.550	160	0.050
2.8	6.000	14	0.530	50	0.110	224	0.000	11.2	1.100	28	0.450	180	0.040
3.15	3.500	16	0.450	56	0.080	250	0.000	12.5	0.950	31.5	0.380	200	0.030
3.55	3.300	18	0.370	63	0.050	280	0.000	14	0.850	35.5	0.330	224	0.020
4	2.900	20	0.330	71	0.045	315	0.000	16	0.800	40	0.300	250	0.010
4.5	2.100	22.4	0.320	80	0.040	355	0.000	18	0.750	45	0.270	280	0.000
5	1.600	25	0.310	90	0.035	400	0.000			50	0.200	315	0.000
5.6	1.600	28	0.270	100	0.020	450	0.000			56	0.150	355	0.000
				112	0.015					63	0.130	400	0.000
										71	0.120		
										80	0.110		
										90	0.100		

平行轴齿轮箱 Helical Gear Units　　额定功率 Nominal Power Ratings
类型 Types H1　　规格 Sizes 1...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 PN.KW Nominal power ratings PN in kW																									
1.25	1500	1200	99		327		880		1671		2702																	
	1000	800	66		218		586		1114		1801																	
	750	600	50		163		440		836		1351																	
1.4	1500	1071	93		303		807		1559		2501																	
	1000	714	62		202		538		1039		1667																	
	750	536	47		152		404		780		1252																	
1.6	1500	938	85		285		737		1395		2318		3929															
	1000	625	57		190		491		929		1545		2618		4123													
	750	469	43		142		368		697		1159		1964		3094													
1.8	1500	833	79		209		672		1326		2128		3611															
	1000	556	53		140		448		885		1421		2410		3880													
	750	417	40		105		336		664		1065		1808		2895													
2	1500	750	73		196		644		1217		1963		3353												根据用户要求供货 On request			
	1000	500	49		131		429		812		1309		2236		3571													
	750	375	37		98		322		609		982		1677		2678			4751										
2.24	1500	670	67		175		589		1087		1754		3087															
	1000	446	45		117		392		724		1168		2055		3283													
	750	335	34		88		295		544		877		1543		2466		4280											
2.5	1500	600	63		163		528		974		1571		2764															
	1000	400	42		109		352		649		1047		1843		3016		4607											
	750	300	31		82		264		487		785		1382		2262		3455											
2.8	1500	536	56		152		471		838		1330		2470															
	1000	357	37		101		314		557		886		1645		2692		4224											
	750	268	28		76		236		418		665		1235		2021		3171		4799									
3.15	1500	476	50		135		419		758		1221		2088		3409													
	1000	317	33		90		279		505		813		1391		2270		3850											
	750	238	25		67		209		379		611		1044		1705		2891		4311									
3.55	1500	423	44		124		368		687		1103		1936		3083													
	1000	282	30		83		245		458		735		1290		2055		3484											
	750	211	22		62		183		342		550		966		1538		2607		3822									
4	1500	375	39		110		330		609		982		1728		2780													
	1000	250	26		73		220		406		654		1152		1853		3194		4529									
	750	188	20		55		165		305		492		866		1394		2402		3406		4823							
4.5	1500	333	29		77		234		481		746		1395		2008		3557											
	1000	222	19		51		156		321		497		930		1339		2371		3394									
	750	167	14		38		117		241		374		699		1007		1784		2553		3777							
5	1500	300	25		66		198		377		644		1059		1712		2790											
	1000	200	16		44		132		251		429		706		1141		1860		2597		3644							
	750	150	12		33		99		188		322		529		856		1395		1948		2733							
5.6	1500	268	17		56		168		320		491		892		1454		2371											
	1000	179	12		37		112		214		328		596		971		1584		2212		2812							
	750	134	9		28		84		160		246		446		727		1186		1656		2105							

采用强制润滑 Forced lubrication required

平行轴齿轮箱 Helical Gear Units　　热容量 Thermal Capacities
类型 Types H1　　规格 Sizes 1...19

热容量 Thermal Capacities

齿轮箱规格 Gear unit sizes

iN		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
		热容量 PG（单位为 KW）取决于冷却方式：PG1：无辅助冷却装置；PG2：带冷却风扇；PG3：带冷却盘管；PG4：带风扇和冷却盘管。 Thermal capacity PG(in KW)dependent on kind of cooling: Pg1:without auxiliary cooling, PG2:fan cooling,PG3:cooling coil,PG4:fan and cooling coil.																									
1.25	PG1	70.4		110		207		230		190																	
	PG2			171		408		562		642																	
	PG3	109		268		641		923		1322																	
	PG4			322		819		1177		1621																	
1.4	PG1	68.0		110		214		250		247																	
	PG2			169		409		567		670																	
	PG3	105		260		629		901		1305																	
	PG4			312		800		1149		1589																	
1.6	PG1	66.2		108		215		261		303		234															
	PG2			164		399		548		686		967		891													
	PG3	100		244		593		836		1246		2138		2631													
	PG4			295		754		1064		1519		2632		3220													
1.8	PG1	66.0		120		214		274		323		330															
	PG2			181		387		552		682		1000		1011													
	PG3	93.7		264		557		818		1195		2082		2547													
	PG4			319		712		1040		1454		2555		3095													
2	PG1	65.0		116		209		273		334		393		302													
	PG2			174		372		534		668		1010		1085		794									根据客户要求供货 On request		
	PG3	89.1		251		526		775		1135		2004		2483		2249											
	PG4			303		670		985		1382		2449		3001		3099											
2.24	PG1	57.0		112		202		263		335		433		416													
	PG2			166		353		496		643		999		1119		908											
	PG3	83.9		236		490		699		1063		1897		2377		2190											
	PG4			286		628		888		1296		2322		2874		2984											
2.5	PG1	54.1		103		192		252		328		452		486													
	PG2			153		332		466		611		971		1121		1001											
	PG3	75.5		212		453		644		984		1778		2246		2140											
	PG4			257		580		818		1201		2174		2714		2876											
2.8	PG1	52.3		97.0		180		263		347		456		525													
	PG2			143		309		477		630		928		1095		1063			884								
	PG3	69.8		195		413		649		990		1643		2091		2063			2359								
	PG4			237		529		824		1205		2010		2525		2744			3138								
3.15	PG1	49.7		95.1		185		293		371		520		620		464											
	PG2			138		305		535		664		976		1151		1291			1253								
	PG3	64.9		189		408		755		1075		1672		2082		2218			2585								
	PG4			227		517		967		1320		2030		2495		2847			3297								
3.55	PG1	45.0		87.5		182		272		349		493		607		527			420								
	PG2			126		297		490		616		902		1086		1259			1288								
	PG3	58.7		170		390		676		973		1508		1899		2057			2443								
	PG4			205		494		870		1198		1835		2277		2628			3088								
4	PG1	41.0		79.4		166		247		301		465		580		550			514								
	PG2			114		269		438		523		833		1006		1194			1267		1221						
	PG3	52.2		151		346		592		806		1358		1711		1869			2249								
	PG4			182		439		763		998		1655		2055		2384			2829								
4.5	PG1	41.0		87.5		172		254		347		446		608		657			649		563						
	PG2			122		272		437		585		789		1037		1273			1337		1351						
	PG3	53.0		161		346		586		890		1290		1766		1905			2236								
	PG4			193		438		749		1093		1580		2126		2403			2782								
5	PG1	37.0		79.2		163		245		316		443		586		676			776		788						
	PG2			111		257		419		527		770		989		1246			1495		1578						
	PG3	46.5		143		325		551		783		1220		1862		1805			2414								
	PG4			172		411		707		964		1500		2003		2276			2988								
5.6	PG1	36.5		70.9		145		221		304		423		535		630			745		904						
	PG2			98.3		227		374		503		730		890		1131			1374		1658						
	PG3	46.8		125		281		483		729		1143		1457		1595			2148								
	PG4			150		357		621		902		1409		1761		2014			2660								

平行轴齿轮箱 Helical Gear Units　额定功率 Nominal Power Ratings
类型 Types H2.., H3..　规格 Sizes 3...26

额定功率 Nominal Power Ratings

IN	n1	n2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	r/min		额定功率 PN.KW Nominal power ratings PN in kW																							
6.3	1500	238	87	157	262		474		785		1383		2143		3564		4860									
	1000	159	58	105	175		316		524		924		1432		2381		3247		4862							
	750	119	44	79	131		237		393		692		1072		1782		2430		3639							
7.1	1500	211	77	139	232		420		696		1226		1900		3159	3535	4308	5082								
	1000	141	52	93	155		281		465		819		1270		2111	2362	2879	3396	4311	4946						
	750	106	39	70	117		211		350		616		955		1587	1776	2164	2553	3241	3718	4551					
8	1500	188	69	124	207	266	374	472	620	778	1093	1358	1693	2106	2815	3150	3839	4528								
	1000	125	46	82	137	177	249	314	412	517	726	903	1126	1401	1872	2094	2552	3010	3822	4385	5366					
	750	94	34	62	103	133	187	236	310	389	546	679	846	1053	1408	1575	1919	2264	2874	3297	4036	4508				
9	1500	167	61	110	184	236	332	420	551	691	971	1207	1504	1871	2501	2798	3410	4022								
	1000	111	41	73	122	157	221	279	366	459	645	802	1000	1244	1662	1860	2266	2673	3394	3894	4765	5323				
	750	83	30	55	91	117	165	209	274	343	482	600	747	930	1243	1391	1695	1999	2538	2912	3563	3981	4693			
10	1500	150	55	99	165	212	298	377	495	620	872	1084	1351	1681	2246	2513	3063	3613								
	1000	100	37	66	110	141	199	251	330	414	581	723	901	1120	1497	1675	2042	2408	3058	3508	4293	4796				
	750	75	27	49	82	106	149	188	247	310	436	542	675	840	1123	1257	1531	1806	2293	2631	3220	3597	4241	4869		
11.2	1500	134	49	88	147	189	267	337	442	554	779	968	1207	1501	2006	2245	2736	3227								
	1000	89	33	59	98	126	177	224	294	368	517	643	801	997	1333	1491	1817	2143	2721	3122	3821	4268	5032			
	750	67	25	44	74	95	133	168	221	277	389	484	603	751	1003	1123	1368	1614	2049	2350	2876	3213	3788	4350		
12.5	1500	120	44	79	132	170	239	302	396	496	697	867	1081	1345	1797	2010	2450	2890	3669							
	1000	80	29	53	88	113	159	201	264	311	465	578	720	896	1198	1340	1634	1927	2446	2806	3435	3837	4524			
	750	60	22	40	66	85	119	151	198	248	349	434	540	672	898	1005	1225	1445	1835	2105	2576	2877	3393	3895	4900	
14	1500	107	39	71	118	151	213	269	353	443	622	773	964	1199	1602	1793	2185	2577	3272	3753						
	1000	71	26	47	78	100	141	178	234	294	413	513	639	795	1063	1190	1450	1710	2171	2491	3048	3405	4015	4609		
	750	54	20	36	59	76	107	136	178	223	314	390	486	605	809	905	1103	1301	1651	1894	2318	2590	3053	3506	4410	4976
16	1500	94	34	62	103	133	187	236	310	389	546	679	846	1053	1408	1575	1919	2264	2874	3297						
	1000	63	23	42	69	89	125	158	208	261	366	455	567	706	943	1055	1286	1517	1926	2210	2705	3021	3562	4090	5146	
	750	47	17	31	52	66	94	118	155	194	273	340	423	527	704	787	960	1132	1437	1649	2018	2254	2658	3051	3839	4331
18	1500	83	30	55	91	117	165	209	274	343	482	600	747	930	1243	1391	1695	1999	2538	2912						
	1000	56	21	37	62	79	111	141	185	232	325	405	504	627	839	938	1143	1349	1712	1964	2404	2686	3166	3636	4574	5160
	750	42	15	28	46	59	84	106	139	174	244	303	378	471	629	704	858	1012	1284	1473	1803	2014	2375	2727	3430	3870
20	1500	75	27	49	82	106	149	188	247	310	436	542	675	840	1123	1257	1531	1806	2293	2631						
	1000	50	18	33	55	71	99	126	165	207	291	361	450	560	749	838	1021	1204	1529	1754	2147	2398	2827	3246	4084	4607
	750	38	14	25	42	54	76	95	125	157	221	275	342	426	569	637	776	915	1162	1333	1631	1822	2149	2467	3104	3502
22.4	1500	67	25	43	72	95	130	168	217	277	382	484	617	751	1073	1123	1403	1614	2105	2350	2947		3929			
	1000	45	16	29	48	64	88	113	146	186	257	325	415	504	721	754	942	1084	1414	1579	1979	2158	2639	2921	3770	4147
	750	33	12	21	35	47	64	83	107	136	188	238	304	370	529	553	691	795	1037	1158	1451	1583	1935	2142	2764	3041
25	1500	60			69	85	129	151	214	248	377	434	553	672	961	1087	1257	1508	1885	2168	2639	2953	3518	4021	5026	
	1000	40			46	57	86	101	142	165	251	289	369	448	641	725	838	1005	1257	1445	1759	1969	2346	2681	3351	3770
	750	30			35	42	64	75	107	124	188	217	276	336	481	543	628	754	942	1084	1319	1476	1759	2010	2513	2827
28	1500	54			62	74	116	133	192	220	339	383	498	616	865	978	1131	1357	1696	1951	2375	2658	3166	3619	4524	5089
	1000	36			41	49	77	89	128	147	226	256	322	411	577	652	754	905	1131	1301	1583	1772	2111	2413	3016	3393
	750	27			31	37	58	66	96	110	170	192	249	308	433	489	565	679	848	975	1187	1329	1583	1809	2262	2545
31.5	1500	48			55	73	103	128	171	216	302	377	442	548	769	870	1005	1206	1508	1734	2111	2362	2815	3217	4021	4524
	1000	32			37	49	69	85	114	144	201	251	295	365	513	580	670	804	1005	1156	1407	1575	1876	2145	2681	3016
	750	24			28	36	52	64	85	108	151	188	221	274	385	435	503	603	754	867	1055	1181	1407	1608	2010	2262
35.5	1500	42			48	64	90	112	150	189	264	330	387	479	673	761	880	1055	1319	1517	1847	2067	2463	2815	3518	3958
	1000	28			32	43	60	75	100	126	176	220	258	320	449	507	586	704	880	1012	1231	1378	1642	1876	2346	2639
	750	21			24	32	45	56	75	95	132	165	194	240	336	380	440	528	660	759	924	1034	1231	1407	1759	1979

采用强制润滑 Forced lubrication required

H/B工业齿轮箱 GEAR UNITS

平行轴齿轮箱 Helical Gear Units　热容量 Thermal Capacities
类型 Types H2.., H3..　规格 Sizes 3...26

热容量 PG, KW Thermal Capacities

热容量 PG（单位为 KW）取决于冷却方式：PG1：无辅助冷却装置；PG2：带冷却风扇；PG3：带冷却盘管；PG4：带风扇和冷却盘管。
Thermal capacity PG(in KW)dependent on kind of cooling:
PG1:without auxiliary cooling, PG2:fan cooling,PG3:cooling coil,PG4:fan and cooling coil.

IN		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
6.3	PG1	53.2	68.2	89.4		128		177		253		333		325		230		291							
	PG2		93.5	129		202		273		443		607		652		775									
	PG3	84.9	114	181		291		454		669		1164		1405		1713									
	PG4		137	218		357		539		835		1394		1653		2122									
7.1	PG1	50.9	69.9	91.1		124		173		256		340		351	342	315	260	375	321	372					
	PG2		95.7	131		194		264		440		601		659	672	807	802								
	PG3	79.9	115	180		273		427		650		1123		1358	1416	1658	1710								
	PG4		139	217		336		506		813		1344		1599	1670	2040	2129								
8	PG1	49.2	67.1	88.5	97.8	120	137	169	176	252	291	341	372	368	368	365	340	431	402	458	398				
	PG2		91.4	127	140	187	213	255	267	428	495	590	661	658	679	826	831								
	PG3	76.3	109	173	187	259	297	405	450	619	849	1069	1218	1310	1370	1611	1658								
	PG4		131	208	226	320	365	481	530	777	1023	1284	1468	1535	1614	1980	2042								
9	PG1	46.5	64.9	85.7	99.5	116	133	163	172	243	293	338	378	375	383	399	388	469	457	516	479	1037			
	PG2		88.2	123	141	180	204	245	257	406	491	573	652	647	676	829	848								
	PG3	71.4	104	165	187	246	280	383	421	572	824	1012	1175	1247	1321	1562	1615								
	PG4		126	198	225	302	344	456	496	717	994	1216	1407	1461	1550	1907	1983								
10	PG1	44.1	61.4	81.0	96.6	112	129	157	167	235	289	331	378	375	390	418	419	508	492	572	535	1076	1119		
	PG2		83.0	115	137	171	197	234	249	388	478	552	637	629	664	820	850								
	PG3	66.4	96.9	152	179	231	266	359	401	537	783	955	1116	1177	1254	1493	1556								
	PG4		117	183	215	285	327	428	472	672	950	1146	1343	1379	1475	1819	1908								
11.2	PG1	41.7	58.8	77.6	93.5	113	125	149	162	238	277	337	373	370	390	426	437	530	530	607	589	1118	1163		
	PG2		79.4	110	132	172	189	221	240	389	452	556	618	606	647	799	840								
	PG3	62.2	91.7	143	171	229	251	335	378	533	720	941	1062	1100	1187	1411	1494								
	PG4		111	173	206	283	310	400	447	668	872	1133	1275	1292	1391	1717	1822								
12.5	PG1	40.8	56.7	76.3	88.1	111	119	146	156	238	267	323	364	372	384	444	443	555	550	641	621	1118	1163	1337	
	PG2		75.7	107	124	167	180	215	229	381	430	523	595	600	622	799	817								
	PG3	59.7	88.5	141	157	224	237	324	356	522	675	863	997	1078	1114	1370	1410								
	PG4		106	169	190	275	292	384	421	650	818	1036	1199	1261	1305	1665	1716								
14	PG1	38.2	53.7	72.1	84.2	102	120	142	149	226	270	310	369	359	385	434	459	551	574	643	653	1110	1194	1327	1393
	PG2		71.5	101	118	153	181	207	217	359	433	495	598	569	615	766	816								
	PG3	55.5	82.7	131	148	200	235	305	331	483	670	799	987	1001	1087	1280	1369								
	PG4		99.1	156	179	247	290	364	392	602	813	963	1187	1173	1276	1557	1665								
16	PG1	35.3	49.2	67.6	82.6	95.3	118	133	145	212	269	283	354	361	371	420	448	536	568	627	653	1084	1127	1296	1361
	PG2		65.2	93.7	114	142	175	193	210	334	424	449	563	565	583	725	781								
	PG3	51.3	74.5	120	146	184	229	280	321	440	653	707	900	978	1009	1188	1281								
	PG4		89.6	144	175	226	282	334	378	549	789	855	1084	1147	1183	1444	1559								
18	PG1	34.4	47.0	64.5	78.1	91.1	108	125	140	196	255	285	338	340	373	415	433	534	551	617	637	1050	1092	1256	1318
	PG2		62.0	89.4	108	136	160	181	202	310	398	450	533	527	579	702	739								
	PG3	50.2	70.0	113	135	175	206	261	302	410	602	709	836	901	987	1132	1185								
	PG4		84.2	136	163	216	253	312	357	513	729	854	1007	1059	1159	1373	1446								
20	PG1	32.1	46.0	60.4	73.1	84.9	102	121	132	189	238	267	308	326	351	406	429	517	548	598	634	1015	1056	1214	1274
	PG2		60.4	83.5	100	126	149	174	189	297	369	419	482	498	540	681	717								
	PG3	45.9	67.7	105	124	160	189	250	278	387	547	646	740	828	910	1085	1124								
	PG4		81.4	126	150	198	232	298	329	484	663	780	893	970	1069	1318	1368								
22.4	PG1	31.9	42.5	56.1	69.8	81.8	97	111	124	176	220	240	310	330	336	355	420	440	531	524	607	775	1005	928	1210
	PG2		55.8	77.1	95.8	121	143	161	177	275	343	301	482	443	510	460	695								
	PG3	45.3	61.7	95.4	118	153	180	225	259	352	512	525	740	844	834	844	1078								
	PG4		74.3	115	142	188	221	269	307	441	620	580	893	941	980	934	1311								
25	PG1			56.8	65.4	84.3	90.6	115	120	173	213	234	290	322	341	344	367	435	453	537	535	760	790	908	945
	PG2			69.2	89.3	105	132	145	171	224	329	292	448	429	456	445	474								
	PG3			98.7	108	158	165	231	248	392	480	499	676	795	854	796	847								
	PG4			110	131	177	203	258	294	436	583	550	815	888	953	881	940								
28	PG1			54.5	60.7	84.7	87.1	114	111	167	198	225	259	318	333	339	355	427	447	540	548	778	809	930	967
	PG2			66.5	82.6	106	127	143	158	215	304	281	323	421	441	436	456								
	PG3			93.2	98.8	157	157	224	224	367	435	468	548	767	804	766	799								
	PG4			104	119	176	193	250	267	410	530	518	605	858	898	850	887								
31.5	PG1			52.9	61.2	81.2	90.3	111	115	161	194	219	252	310	328	329	349	417	439	537	549	773	804	925	962
	PG2			64.3	73.9	101	112	139	144	207	247	272	312	409	433	422	447								
	PG3			89.4	102	148	162	215	268	350	403	449	520	732	775	734	772								
	PG4			100	114	167	181	240	293	391	450	496	574	819	867	813	856								
35.5	PG1			51.0	58.7	78.6	90.6	107	114	155	186	212	243	295	320	313	339	405	429	530	545	766	797	918	953
	PG2			62.0	70.9	98.1	112	134	141	199	236	262	301	388	420	399	433								
	PG3			85.4	96.3	142	160	205	260	331	377	427	489	678	741	678	738								
	PG4			95.4	108	160	180	230	284	371	423	472	541	759	831	753	819								

平行轴齿轮箱 Helical Gear Units 额定功率 Nominal Power Ratings
类型 Types H3.., H4.. 规格 Sizes 5...26

额定功率 Nominal Power Ratings																								
IN	n1	n2	齿轮箱规格 Gear unit sizes																					
			5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	r/min		额定功率 PN.KW Nominal power ratings PN in kW																					
40	1500	38	44	58	82	101	135	171	239	298	350	434	609	688	796	955	1194	1373	1671	1870	2228	2547	3183	3581
	1000	25	29	38	54	67	89	113	157	196	230	285	401	453	524	628	785	903	1099	1230	1466	1675	2094	2356
	750	18.8	22	29	40	50	67	85	118	148	173	215	301	341	394	472	591	679	827	925	1102	1260	1575	1772
45	1500	33	38	50	71	88	117	149	207	259	304	377	529	598	691	829	1037	1192	1451	1624	1935	2212	2764	3110
	1000	22	25	33	47	59	78	99	138	173	203	251	352	399	461	553	691	795	968	1083	1290	1474	1843	2073
	750	16.7	19	25	36	45	59	75	105	131	154	191	268	303	350	420	525	603	734	822	979	1119	1399	1574
50	1500	30	35	46	64	80	107	135	188	236	276	342	481	543	628	754	942	1084	1319	1476	1759	2010	2513	2827
	1000	20	23	30	43	53	71	90	126	157	184	228	320	362	419	503	628	723	880	984	1173	1340	1675	1885
	750	15	17	23	32	40	53	68	94	118	138	171	240	272	314	377	471	542	660	738	880	1005	1257	1414
56	1500	27	31	41	58	72	96	122	170	212	249	308	433	489	565	679	848	975	1187	1329	1583	1809	2262	2545
	1000	17.9	21	27	38	48	64	81	112	141	165	204	287	324	375	450	562	647	787	881	1050	1200	1499	1687
	750	13.4	15	20	29	36	48	60	84	105	123	153	215	243	281	337	421	484	589	659	786	898	1123	1263
63	1500	24	28	36	52	64	85	108	151	188	221	274	385	435	503	603	754	867	1055	1181	1407	1608	2010	2262
	1000	15.9	18	24	34	42	57	72	100	125	147	181	255	288	333	400	499	574	699	783	932	1066	1332	1498
	750	11.9	14	18	26	32	42	54	75	93	110	136	191	216	249	299	374	430	523	586	698	797	997	1121
71	1500	21	24	32	45	56	75	95	132	165	194	240	336	380	440	528	660	759	924	1034	1231	1407	1759	1979
	1000	14.1	16	21	30	38	50	63	89	111	130	161	226	255	295	354	443	509	620	694	827	945	1181	1329
	750	10.6	12	16	23	28	38	48	67	83	98	121	170	192	222	266	333	383	466	522	622	710	888	999
80	1500	18.8	22	29	40	50	67	85	118	148	173	215	301	341	394	472	591	679	827	925	1102	1260	1575	1772
	1000	12.5	14	19	27	33	45	56	79	98	115	143	200	226	262	314	393	452	550	615	733	838	1047	1178
	750	9.4	11	14	20	25	33	42	59	74	87	107	151	170	197	236	295	340	413	463	551	630	787	886
90	1500	16.7	19	25	35	45	59	75	105	131	154	191	268	303	350	420	507	603	717	822	979	1119	1399	1574
	1000	11.1	13	17	23	30	39	50	70	87	102	127	178	201	232	279	337	401	477	546	651	744	930	1046
	750	8.3	10	13	17	22	29	37	52	65	76	95	133	150	174	209	252	300	356	408	487	556	695	782
100	1500	15		23	32	40	53	68	94	118	138	171	240	272	314	355	471	526	660	730	880	1005	1257	1414
	1000	10		15	21	27	36	45	63	79	92	114	160	181	209	237	314	351	440	487	586	670	838	942
	750	7.5		11	16	20	27	34	47	59	69	86	120	136	157	177	236	263	330	365	440	503	628	707
112	1500	13.4		20	29	35	48	59	84	105	123	153	215	243	281	337	421	484	589	659	786	898	1123	1263
	1000	8.9		13	19	23	32	39	56	70	82	102	143	161	186	224	280	322	391	438	522	596	746	839
	750	6.7		10	14	18	24	29	42	53	62	76	107	121	140	168	210	242	295	330	393	449	561	631
125	1500	12			26	32	43	54	75	94	111	137	192	217	251	302	377	434	528	591	704	804	1005	1131
	1000	8			17	21	28	36	50	63	74	91	128	145	168	201	251	289	352	394	469	536	670	754
	750	6			13	16	21	27	38	47	55	68	96	109	126	151	188	217	264	295	352	402	503	565
140	1500	10.7			23	29	38	48	67	84	99	122	171	194	224	269	336	387	471	527	627	717	896	1008
	1000	7.1			15	19	25	32	45	56	65	81	114	129	149	178	223	256	312	349	416	476	595	669
	750	5.4			12	14	19	24	34	42	50	62	87	98	113	136	170	195	237	266	317	362	452	509
160	1500	9.4			20	25	33	42	59	74	87	107	151	170	197	236	295	340	413	463	551	630	787	886
	1000	6.3			14	17	22	28	40	49	58	72	101	114	132	158	198	228	277	310	369	422	528	594
	750	4.7			10	13	17	21	30	37	43	54	75	85	98	118	148	170	207	231	276	315	394	443
180	1500	8.3			18	22	30	37	52	65	76	95	133	150	174	209	261	300	365	408	487	556	695	782
	1000	5.6			12	15	20	25	35	44	52	64	90	101	117	141	176	202	246	276	328	375	469	528
	750	4.2			9.0	11	15	19	26	33	39	48	67	76	88	106	132	152	185	207	264	281	352	396
200	1500	7.5			16	20	27	34	47	59	69	86	120	136	157	188	236	271	330	369	440	503	628	707
	1000	5			11	13	18	23	31	39	46	57	80	91	105	126	157	181	220	246	293	335	419	471
	750	3.8			8.2	10	14	17	24	30	35	43	61	69	80	95	119	137	167	187	223	255	318	358
224	1500	6.7			14	18	24	30	42	53	62	76	107	121	140	168	210	242	295	330	393	449	561	631
	1000	4.5			10	12	16	20	28	35	41	51	72	82	94	113	141	163	198	221	264	302	377	424
	750	3.3			7.1	8.8	12	15	21	26	30	38	53	60	69	83	104	119	145	162	194	221	276	311
250	1500	6			13	16	21	27	38	47	55	68	96	109	126	151	188	217	264	295	352	402	503	565
	1000	4			8.6	11	14	18	25	31	37	46	64	72	84	101	126	145	176	197	235	268	335	377
	750	3			6.4	8.0	11	14	19	24	28	34	48	54	63	75	94	108	132	148	176	201	251	283
280	1500	5.4			12	14	19	24	34	42	50	62	87	98	113	136	170	195	237	266	317	362	452	509
	1000	3.6			7.7	9.6	13	16	23	28	33	41	58	65	75	90	113	130	158	177	211	241	302	339
	750	2.7			5.8	7.2	10	12	17	21	25	31	43	49	57	68	85	98	119	133	158	181	226	254
315	1500	4.8			10.3	13	17	22	30	38	44	55	77	87	101	121	151	173	211	236	281	322	402	452
	1000	3.2			7	8.5	11	14	20	25	29	37	51	58	67	80	101	116	141	157	188	214	268	302
	750	2.4			5.2	64	8.5	11	15	19	22	27	38	43	50	60	75	87	106	118	141	161	201	226
355	1500	4.2			8.6	11	15	19	26	33	39	48	62	76	84	106	128	152	180	207	246	281	352	396
	1000	2.8			5.7	7.5	9.7	13	17	22	26	32	41	51	56	70	85	101	120	138	164	188	235	264
	750	2.1			4.3	5.6	7.3	9.5	13	16	19	24	31	38	42	53	64	76	90	103	123	141	176	198
400	1500	3.8				10.1		17		30		43		63		89		133		185		255		358
	1000	2.5				6.7		11		20		29		41		58		88		122		168		236
	750	1.9				5.1		8.6		15		22		31		44		67		93		127		179
450	1500	3.3				8.6		14		26		38												
	1000	2.2				5.7		9.6		17		25												
	750	1.7				4.4		7.4		13		19												

平行轴齿轮箱 Helical Gear Units 热容量 Thermal Capacities
类型 Types H3.., H4.. 规格 Sizes 5...26

热容量 Thermal Capacities PG in kW																							
IN		齿轮箱规格 Gear unit sizes																					
		5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
		热容量 PG（单位为 KW）取决于冷却方式： PG1：无辅助冷却装置； PG2：带冷却风扇； PG3：带冷却盘管； PG4：带风扇和冷却盘管。 Thermal capacity PG(in KW)dependent on kind of cooling: PG1:without auxiliary cooling. PG2:fan cooling,PG3:cooling coil,PG4:fan and cooling coil.																					
40	PG1	48.1	56.6	74.6	86.8	101	110	149	180	204	236	284	304	300	322	390	416	517	537	754	784	902	938
	PG2	58.3	68.6	92.8	107	127	137	190	228	251	291	371	398	382	409								
	PG3	79.3	92.4	132	151	191	248	312	359	403	467	639	686	641	683								
	PG4	88.6	103	149	170	214	272	349	402	446	517	717	770	711	760								
45	PG1	46.0	54.9	71.8	84.1	97.2	107	148	173	195	227	282	293	297	309	386	401	501	524	745	775	891	927
	PG2	55.7	66.2	89	104	121	133	189	219	240	280	368	381	377	392								
	PG3	74.9	88.3	126	145	181	238	305	341	379	444	626	648	627	644								
	PG4	83.8	98.7	142	163	203	261	342	382	419	491	702	725	695	716								
50	PG1	44.4	51.7	67.6	79.8	94.9	101	145	166	191	219	281	291	292	306	379	395	500	508	736	765	880	915
	PG2	53.6	62.2	83.7	98.0	118	125	184	210	233	269	362	378	368	386								
	PG3	72.3	82	118	136	177	221	299	322	369	419	619	634	613	628								
	PG4	80.9	91.7	133	152	197	242	334	360	408	465	691	710	681	701								
56	PG1	42.1	49.6	64.4	76.7	90.3	97.0	134	165	184	209	267	289	278	300	362	388	477	506	720	749	861	895
	PG2	50.7	59.5	79.4	94.1	112	120	170	208	225	256	343	371	350	377								
	PG3	67.9	77.6	111	129	165	209	271	315	349	394	577	626	574	617								
	PG4	75.6	86.9	125	145	185	229	302	353	386	437	645	698	636	684								
63	PG1	39.6	47.7	60.0	72.4	85.3	94.7	127	161	174	204	252	275	262	286	338	371	456	482	697	724	834	867
	PG2	47.6	57.1	73.8	88.5	105	116	160	202	212	249	323	353	329	357								
	PG3	62.9	74.9	102	121	153	204	251	309	325	384	533	582	530	576								
	PG4	70.2	83.8	114	136	172	224	280	345	359	425	596	653	589	640								
71	PG1	39.2	45.2	58.2	68.9	83.4	90.1	124	150	169	197	245	260	252	270	333	346	431	461	669	696	800	832
	PG2	47.0	54.0	71.3	84.1	103	111	155	187	205	239	313	332	315	337								
	PG3	62.2	70.2	97.9	113	150	191	242	279	310	364	513	540	507	534								
	PG4	69.4	78.3	110	127	167	209	270	312	343	403	573	604	564	592								
80	PG1	37.2	42.6	56.8	64.3	78.9	85.1	117	141	164	186	236	252	242	259	315	341	411	435	655	681	783	814
	PG2	44.5	50.6	69.6	78.2	96.8	104	146	176	199	226	300	321	302	323								
	PG3	57.8	65.2	94.2	104	139	177	223	259	299	338	484	519	479	511								
	PG4	64.6	72.8	106	117	156	194	250	290	330	375	542	580	532	567								
90	PG1	36.7	42.2	53.7	62.2	74.9	83.0	113	138	153	180	222	243	228	248	299	322	399	415	627	652	750	780
	PG2	43.9	50.2	65.7	75.4	91.8	101	141	171	186	218	282	308	284	309								
	PG3	56.2	64.6	87.1	100	129	173	214	250	274	323	448	490	443	483								
	PG4	63.0	72.1	98.3	113	145	189	240	280	304	357	501	549	493	537								
100	PG1		40.0	48.1	60.9	67.1	78.8	99.5	130	133	175	179	228	201	234	282	306	388	403	509	632	611	756
	PG2		47.5		73.8		95.9		161		212		289		290								
	PG3		60.0		96.7		161		231		311		453		447								
	PG4		67.2		109		176		259		344		507		497								
112	PG1		39.5	46.3	57.6	64.2	74.9	98.7	126	130	164	171	184	192	206	270	289	379	392	498	518	596	620
	PG2		47.0		69.8		91.2		156		198												
	PG3		58.5		89.6		149		222		286												
	PG4		65.5		101		164		249		317												
125	PG1			44.9	51.6	62.1	67.3	94.6	110	126	142	165	177	185	197	261	276	367	383	488	508	584	607
140	PG1			42.6	49.5	60.1	64.4	91.5	109	122	138	159	170	178	190	251	267	347	371	475	494	568	591
160	PG1			41.0	48.0	56.8	62.4	87.0	105	115	134	153	164	171	183	241	257	333	351	455	473	544	566
180	PG1			39.4	45.6	54.4	60.4	83.9	101	111	130	150	157	167	175	230	247	328	336	439	457	525	546
200	PG1			37.9	43.9	52.6	57.0	79.2	96.4	108	123	146	154	161	172	222	236	309	331	432	449	516	537
224	PG1			35.7	42.0	50.5	54.6	75.9	92.8	103	118	136	150	150	166	213	227	295	312	428	445	512	532
250	PG1			34.1	40.7	48.2	53.0	72.1	87.6	98.0	115	129	139	143	155	202	218	279	297	409	425	489	509
280	PG1			33.1	38.2	46.8	50.8	69.4	84.3	94.9	109	125	132	139	147	194	207	268	281	388	404	467	486
315	PG1			32.4	36.6	44.6	48.5	67.7	79.9	91.0	105	119	128	133	143	190	199	257	270	374	389	447	465
355	PG1			30.9	35.5	43.8	47.1	64.4	76.9	86.8	101	117	123	130	137	181	195	245	260	363	378	435	452
400	PG1				34.8		44.9		75.1		97.1		120		134		185		248		359		429
450	PG1				33.1		44.1		71.4		92.6												

直交轴齿轮箱 Bevel–helical Gear Units　额定功率 Nominal Power Ratings
类型 Types B2.., B3..　规格 Sizes 1…26

额定功率 Nominal Power Ratings

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
	r/min		额定功率 PN.KW Nominal power ratings PN in kW																									
5	1500	300	36	63	97	182	295		559		880		1351		2073													
	1000	200	24	42	65	121	197		373		586		901		1382		2555											
	750	150	18	31	49	91	148		280		440		675		1037		1916											
5.6	1500	268	32	56	87	163	264		500		786		1263		1880													
	1000	179	22	37	58	109	176		334		525		843		1256		2287											
	750	134	16	28	43	81	132		250		393		631		940		1712	1894	2736									
6.3	1500	238	29	50	77	145	234	299	444	556	698	887	1171	1371	1769	2044												
	1000	159	19	33	52	97	157	200	296	371	466	593	783	916	1182	1365	2164	2348										
	750	119	14	25	39	72	117	150	222	278	349	444	586	685	885	1022	1620	1757	2430									
7.1	1500	211	25	44	68	128	208	265	393	493	619	787	1083	1259	1613	1856												
	1000	141	17	30	46	86	139	177	263	329	413	526	723	842	1078	1240	1949	2141	2879									
	750	106	13	22	34	64	104	133	198	248	311	395	544	633	810	932	1465	1609	2164	2553								
8	1500	188	23	39	61	114	185	236	350	439	551	701	994	1161	1516	1732	2598											
	1000	125	15	26	41	76	123	157	233	292	366	466	661	772	1008	1152	1728	1937	2552									
	750	94	11	20	31	57	93	118	175	219	276	350	497	581	758	866	1299	1457	1919	2264								
9	1500	167	20	35	54	101	164	210	311	390	490	623	883	1067	1364	1591	2309	2588										
	1000	111	13	23	36	67	109	139	207	259	325	414	587	709	907	1058	1534	1720	2266	2673								
	750	83	10	17	27	50	82	104	155	194	243	309	439	530	678	791	1147	1286	1695	1999								
10	1500	150	18	31	49	91	148	188	280	350	440	559	793	974	1225	1492	2073	2325										
	1000	100	12	21	32	61	98	126	186	234	293	373	529	649	817	995	1382	1550	2042	2408								
	750	75	9	16	24	46	74	94	140	175	220	280	397	487	613	746	1037	1162	1531	1806								
11.2	1500	134	16	28	43	81	132	168	250	313	393	500	709	870	1094	1368	1852	2077										
	1000	89	11	19	29	54	88	112	166	208	261	332	471	578	727	909	1230	1379	1817	2143								
	750	67	8.1	14	22	41	66	84	125	156	196	250	354	435	547	684	926	1038	1368	1614								
12.5	1500	120	14	25	39	69	118	151	214	280	352	447	635	779	980	1225	1659	1860	2450									
	1000	80	10	17	26	46	79	101	142	187	235	298	423	519	653	817	1106	1240	1634	1927	2094		2848					
	750	60	7.2	13	19	35	59	75	107	140	176	224	317	390	490	613	829	930	1225	1445	1571		2136					
14	1500	107	13	22	35	67	110	134	204	250	331	399	594	695	896	1092	1535	1658	2185	2577								
	1000	71	8.5	15	23	45	73	89	135	166	219	265	394	461	595	725	1019	1100	1450	1710	1948	2193	2676					
	750	54	6.5	11	18	34	55	68	103	126	167	201	300	351	452	551	775	837	1103	1301	1481	1668	2036	2290				
16	1500	94	11	19	31	61	100	118	188	212	305	350	551	610	817	960	1398	1516	1969	2264								
	1000	63	7.3	13	20	41	67	79	126	142	205	235	369	409	548	643	937	1016	1319	1517	1814	2032	2507	2784				
	750	47	5.4	9.6	15	31	50	59	94	106	153	175	276	305	408	480	699	758	984	1132	1353	1516	1870	2077				
18	1500	83	9	16	26	56	92	110	172	201	282	326	504	565	739	869	1286	1391	1738	2086								
	1000	56	6	11	18	38	62	74	116	135	191	220	340	381	498	586	868	938	1173	1407	1689	1876	2346	2568				
	750	42	4.5	7.9	13	28	47	55	87	102	143	165	255	286	374	440	651	704	880	1055	1267	1407	1759	1926				
20	1500	75			28	52	86	104	161	188	267	309	471	534	691	809	1202	1312	1571	1885								
	1000	50			19	35	58	69	107	125	178	206	314	356	461	539	801	874	1047	1257	1571	1738	2199	2382	2932			
	750	38			14	26	44	53	82	95	135	156	239	271	350	410	609	665	796	955	1194	1321	1671	1810	2228			
22.4	1500	67			25	46	77	97	144	174	239	288	421	505	617	744	1073	1214	1403	1684	2105	2420						
	1000	45			17	31	52	65	97	117	160	193	283	339	415	499	721	815	942	1131	1414	1626	1979	2215	2639	3015		
	750	33			12	23	38	48	71	86	117	142	207	249	304	366	529	598	691	829	1037	1192	1451	1624	1935	2212	2764	
25	1500	60			23	41	69	91	129	160	214	270	377	471	553	685	961	1087	1257	1508	1885	2168						
	1000	40			15	28	46	61	86	107	142	180	251	314	369	457	641	725	838	1005	1257	1445	1759	1969	2346	2681		
	750	30			11	21	35	46	64	80	107	135	188	236	276	342	481	543	628	754	942	1084	1319	1476	1759	2010	2513	2827
28	1500	54			20	37	62	82	116	144	192	243	339	424	498	616	865	978	1131	1357	1696	1950	2375					
	1000	36			14	25	41	55	77	96	128	162	226	283	332	411	577	652	754	905	1131	1301	1583	1772	2111	2413	3016	
	750	27			10.2	19	31	41	58	72	96	122	170	212	249	308	433	489	565	679	848	975	1187	1329	1583	1809	2262	2545

采用强制润滑 Forced lubrication required

直交轴齿轮箱 Bevel–helical Gear Units　热容量 Thermal Capacities
类型 Types B2.., B3..　规格 Sizes 1…26

热容量 PG, kW Thermal Capacities PG in kW

齿轮箱规格 Gear unit sizes

热容量 PG（单位为 KW）取决于冷却方式：PG1：无辅助冷却装置；PG2：带冷却风扇；PG3：带冷却盘管；PG4：带风扇和冷却盘管。
Thermal capacity PG(in KW)dependent on kind of cooling; PG1:without auxiliary cooling, PG2:fan cooling,PG3:cooling coil,PG4:fan and cooling coil.

iN		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
5	PG1	34.9	45.6	59.7	66.3	86.9		122		150		233		286		330											
	PG2	38.1	50.6	73.1	101	140		223		272		458		662		797											
	PG3	41.1	59.2	109	135	202		313		391		664		1318		1786											
	PG4	45.0	67.5	118	166	250		403		500		862		1632		2158											
5.6	PG1	33.4	44.0	57.6	64.1	85.2		117		144		233		295		349		328									
	PG2	36.0	48.5	70.4	96.9	137		209		256		446		653		789		862									
	PG3	41.6	58.4	104	130	196		288		360		631		1264		1729		2015									
	PG4	45.0	64.8	112	160	242		371		461		821		1573		2084		2427									
6.3	PG1	32.0	39.7	52.2	62.4	81.9	96.5	110	134	137	155	218	277	282	337	351	374	353									
	PG2	34.7	43.7	63.5	93.8	130	152	194	235	240	272	406	516	597	726	752	815	836									
	PG3	38.1	51.2	91.8	124	182	259	261	381	327	451	555	957	1110	1384	1596	1748	1872									
	PG4	41.0	57.3	99.0	153	225	307	337	471	421	554	723	1166	1377	1712	1922	2105	2262									
7.1	PG1	30.7	39.4	51.5	58.8	77.7	94.7	104	127	130	148	217	275	284	341	346	372	364	388								
	PG2	35.4	43.5	62.7	87.6	122	148	182	221	225	256	397	501	589	712	715	775	804	867								
	PG3	37.0	50.4	90.9	114	168	252	240	350	300	414	535	913	1076	1326	1479	1613	1752	1882								
	PG4	39.0	57.0	97.8	140	208	298	310	433	387	510	697	1106	1339	1649	1781	1941	2109	2269								
8	PG1	28.5	36.6	48.0	55.4	73.3	90.6	98.9	120	124	141	201	254	268	322	330	365	356	393								
	PG2	31.2	40.2	58.2	82.1	114	140	171	205	212	240	362	454	539	648	659	736	750	832								
	PG3	33.8	48.0	83.5	105	154	233	222	317	278	376	473	801	959	1162	1330	1501	1590	1758								
	PG4	35.8	52.5	89.8	130	192	277	287	393	359	464	619	974	1190	1441	1598	1802	1909	2115								
9	PG1	25.0	34.2	45.8	52.7	69.6	85.8	94.6	113	119	134	193	252	260	322	321	347	351	381								
	PG2	26.6	37.6	55.2	77.5	108	132	162	192	202	225	345	444	515	638	633	678	723	773								
	PG3	29.9	43.2	78.4	96.9	142	214	208	292	262	346	446	776	897	1130	1258	1342	1512	1593								
	PG4	33.0	48.3	84.0	120	176	255	270	362	339	428	583	941	1118	1403	1513	1614	1815	1915								
10	PG1	22.2	28.6	38.4	44.3	64.6	80.6	88.6	107	112	127	183	232	249	301	307	337	342	374								
	PG2	23.0	31.2	46.4	64.2	98.9	123	150	180	189	212	323	403	485	583	591	650	684	745								
	PG3	25.0	36.0	64.3	77.4	127	197	189	269	240	319	409	687	830	999	1148	1271	1403	1516								
	PG4	26.2	39.8	69.1	95.9	158	235	246	335	310	395	537	835	1033	1244	1383	1528	1684	1818								
11.2	PG1	21.3	27.8	37.6	42.8	57.9	76.6	79.3	102	101	122	164	223	224	290	280	322	315	363								
	PG2	22.1	30.4	44.8	61.9	88.0	116	133	171	167	202	285	384	431	555	532	608	618	705								
	PG3	24.0	34.7	62.1	73.9	111	180	165	252	208	301	354	647	720	934	1010	1159	1243	1411								
	PG4	27.2	38.6	66.4	91.7	138	215	215	314	270	374	465	788	900	1167	1221	1400	1494	1688								
12.5	PG1	20.5	29.4	37.3	45.0	61.1	70.9	97.2	95.7	129	115	183	210	238	277	334	293	377	334								
	PG2	21.4	32.0	45.1	58.5	83.0	106	133	159	182	189	288	359	379	522	533	546	684	636								
	PG3	25.9	38.1	62.2	72.5	117	160	206	230	305	275	431	593	674	865	1054	1019	1264	1251								
	PG4	27.5	40.6	66.7	85.2	137	192	239	287	353	342	526	724	795	1078	1222	1235	1518	1500								
14	PG1	19.4	25.6	33.3	43.7	59.2	63.4	93.9	85.8	125	103	180	187	240	248	322	349	363	411								
	PG2	21.0	27.8	39.7	56.8	80.3	94.4	128	141	176	168	282	316	382	462	512	552	657	734								
	PG3	22.6	32.8	54.4	70.3	113	140	199	201	296	239	422	512	679	749	1006	1066	1214	1331								
	PG4	23.8	35.0	58.1	82.6	132	167	230	250	341	297	514	627	801	937	1166	1241	1455	1598								
16	PG1	18.6	24.0	31.2	41.5	57.2	66.4	89.5	105	122	137	171	203	221	259	318	334	365	379								
	PG2	19.8	25.9	37.1	54.0	77.3	88.6	122	140	172	190	268	311	349	404	503	528	652	672								
	PG3	21.8	30.4	50.2	66.8	109	121	189	211	287	324	401	526	617	699	984	1018	1194	1219								
	PG4	23.0	32.5	53.6	78.3	127	141	219	243	331	371	487	621	727	824	1142	1181	1433	1460								
18	PG1	17.1	21.8	28.3	40.3	55.4	64.3	86.4	101	118	126	168	203	222	261	306	332	351	399								
	PG2	18.2	23.7	33.6	52.4	74.9	85.8	118	136	166	175	262	311	352	407	482	521	626	698								
	PG3	19.5	27.5	45.1	64.7	105	116	182	205	277	298	393	527	621	703	945	1003	1142	1257								
	PG4	20.8	29.3	48.0	76.0	123	136	211	236	320	341	477	622	732	829	1091	1161	1371	1506								
20	PG1			33.0	38.0	53.1	61.9	82.8	96	113	129	160	189	209	239	296	317	340	366	411		475		795			
	PG2			37.1	49.4	71.8	82.6	113	129	159	180	250	289	329	371	464	497	602	639	745		838		993			
	PG3			58.4	61.2	101	112	174	193	265	305	374	487	581	639	907	953	1099	1146								
	PG4			61.1	71.6	118	131	201	223	307	350	454	575	684	753	1047	1104	1316	1375								
22.4	PG1			32.8	37.1	52.2	60.0	80.0	93.2	110	119	153	189	201	242	289	306	337	354	409	431	473	492	814	847	974	
	PG2			37.1	48.1	70.6	80.1	109	125	155	165	237	289	313	374	450	478	586	614	725	762	818	849	993	1033	1188	
	PG3			58.6	59.5	99.8	109	168	187	257	279	347	486	542	645	859	912	1051	1099								
	PG4			61.1	69.8	117	127	193	216	297	320	423	574	639	759	994	1057	1261	1318								
25	PG1			30.7	35.2	49.4	57.5	77.3	89.3	105	114	145	181	190	226	273	300	322	350	399	427	461	487	783	814	936	983
	PG2			34.7	45.5	66.6	76.6	105	119	147	158	222	275	294	349	419	462	548	598	692	741	778	828	955	993	1142	1199
	PG3			54.1	56.1	93.8	104	160	179	239	268	318	462	498	602	777	867	956	1053								
	PG4			56.5	65.7	109	121	185	207	276	306	388	547	588	708	899	1004	1147	1264								
28	PG1			29.9	33.8	47.7	56.5	73.4	86.3	100	111	138	173	181	217	266	283	318	334	388	415	446	473	762	793	912	958
	PG2			33.6	43.5	64.0	75.3	98.8	115	139	154	211	262	278	332	406	430	535	559	659	706	740	786	952	991	1140	1197
	PG3			51.8	52.9	88.7	103	148	173	222	259	296	431	462	560	745	785	925	958								
	PG4			54.2	62.1	103	120	171	199	257	297	362	509	547	660	863	909	1109	1148								

直交轴齿轮箱 Bevel–helical Gear Units　　额定功率 Nominal Power Ratings
类型 Types B3.., B4..　　规格 Sizes 3...26

额定功率 Nominal Power Ratings

iN	n1	n2	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 PN.KW Nominal power ratings PN in kW																							
31.5	1500	48	18	33	55	73	103	128	171	216	302	377	442	548	769	870	1005	1206	1508	1734	2111					
	1000	32	12.1	22	37	49	69	85	114	144	201	251	295	365	513	580	670	804	1005	1156	1407	1575	1876	2145	2681	3016
	750	24	9.0	17	28	36	52	64	85	108	151	188	221	274	385	435	503	603	754	867	1055	1181	1407	1608	2010	2262
35.5	1500	42	15.8	29	48	64	90	112	150	189	264	330	387	479	673	761	880	1055	1319	1517	1847	2067	2463	2815		
	1000	28	11	19	32	43	60	75	100	126	176	220	258	320	449	507	586	704	880	1012	1231	1378	1642	1876	2346	2639
	750	21	7.9	15	24	32	45	56	75	95	132	165	194	240	336	380	440	528	660	759	924	1034	1231	1407	1759	1979
40	1500	38	14	26	44	58	82	101	135	171	239	298	350	434	609	688	796	955	1194	1373	1671	1870	2228	2597		
	1000	25	9	17	29	38	54	67	89	113	157	196	230	285	401	453	524	628	785	903	1099	1230	1486	1675	2094	2356
	750	18.8	7.1	13	22	29	40	50	67	85	118	148	173	215	301	341	394	472	591	679	827	925	1102	1260	1575	1772
45	1500	33	12	23	38	50	71	88	117	149	207	259	304	377	529	598	691	829	1037	1192	1451	1624	1935	2212	2764	
	1000	22	8.3	15	25	33	47	59	78	99	138	173	203	251	352	399	461	553	691	795	968	1083	1290	1474	1843	2073
	750	16.7	6.3	12	19	25	36	45	59	75	105	131	164	191	268	303	350	420	525	603	734	822	979	1119	1399	1574
50	1500	30	11	21	35	46	64	80	107	135	188	236	276	342	481	543	628	754	942	1083	1319	1476	1759	2010	2513	2827
	1000	20	8	14	23	30	43	53	71	90	126	157	184	228	320	362	419	503	628	723	880	984	1173	1340	1675	1885
	750	15	6	10.4	17	23	32	40	53	68	94	118	138	171	240	272	314	377	471	542	660	738	880	1005	1257	1414
56	1500	27	10.2	19	31	41	58	72	96	122	170	212	249	308	433	489	565	679	848	975	1187	1329	1583	1809	2262	2545
	1000	17.9	6.7	12	21	27	38	48	64	81	112	141	165	204	287	324	375	450	562	647	787	881	1050	1200	1499	1687
	750	13.4	5.1	9.3	15	20	29	36	48	60	84	105	123	153	215	243	281	337	421	484	589	659	786	898	1123	1263
63	1500	24	9	17	28	36	50	64	85	108	151	188	221	274	385	435	503	603	754	867	1055	1181	1407	1608	2010	2262
	1000	15.9	6	11	18	24	33	42	57	72	100	125	147	181	255	288	333	400	499	574	699	783	932	1066	1332	1498
	750	11.9	4.5	8.2	14	18	25	32	42	54	75	93	110	136	191	216	249	299	374	430	523	586	698	797	997	1121
71	1500	21	7.9	14.5	24	32	44	56	75	95	132	165	194	240	336	380	440	528	660	759	924	1034	1231	1407	1759	1979
	1000	14.1	5.3	9.7	16	21	30	38	50	63	89	111	130	161	226	255	295	354	443	509	620	694	827	945	1181	1329
	750	10.6	4	7.3	12	16	22	28	38	48	67	83	98	121	170	192	222	266	333	383	466	522	622	710	888	999
80	1500	18.8			22	28	40	50	67	85	118	148	173	215	301	341	394	472	591	679	827	925	1102	1260	1575	1772
	1000	12.5			14	18	27	33	45	56	79	98	115	143	200	226	262	314	393	452	550	615	733	838	1047	1178
	750	9.4			11	14	20	25	33	42	59	74	87	107	151	170	197	236	295	340	413	463	551	630	787	888
90	1500	16.7			19	24	36	44	59	75	105	131	154	191	268	303	350	420	525	603	734	822	979	1119	1399	1574
	1000	11.1			13	16	24	29	40	50	70	87	102	127	178	201	232	279	349	401	488	546	651	744	930	1046
	750	8.3			9.6	12	18	22	30	37	52	65	76	95	133	150	174	209	261	300	365	408	487	556	695	782
100	1500	15			17.3	23	32	40	53	68	94	118	138	171	240	272	314	377	471	542	660	738	880	1005	1257	1414
	1000	10			12	15	21	27	36	45	63	79	92	114	160	181	209	251	314	361	440	492	586	670	838	942
	750	7.5			8.6	11.4	16	20	27	34	47	59	69	86	120	136	157	188	236	271	330	369	440	503	628	707
112	1500	13.4			15	20	29	36	48	60	84	105	123	153	215	243	281	337	421	484	589	659	786	898	1123	1263
	1000	8.9			10.3	13.5	19	24	32	40	56	70	82	102	143	161	186	224	280	322	391	438	522	596	746	839
	750	6.7			7.7	10	14	18	24	30	42	53	62	76	107	121	140	168	210	242	295	330	393	449	561	631
125	1500	12			14	18	26	32	43	54	75	94	111	137	192	217	251	302	377	434	528	591	704	804	1005	1131
	1000	8			9.2	12	17	21	28	36	50	63	74	91	128	145	168	201	251	289	352	394	469	536	670	754
	750	6			6.9	9.1	13	16	21	27	38	47	55	68	96	109	126	151	188	217	264	295	352	402	503	565
140	1500	10.7			12	16.2	23	29	38	48	67	84	99	122	171	194	224	269	336	387	471	527	627	717	896	1008
	1000	7.1			8.2	11	15	19	25	32	45	56	65	81	114	129	149	178	223	256	312	349	416	476	595	669
	750	5.4			6.2	8.2	12	14.4	19	24	34	42	50	62	87	98	113	136	170	195	237	266	317	362	452	509
160	1500	9.4			11	14.3	20	25	33	42	59	74	87	107	151	170	197	236	295	340	413	463	551	630	787	886
	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	528	594
	750	4.7			5.4	7.1	10	13	17	21	30	37	43	54	75	85	98	118	148	170	207	231	276	315	394	443
180	1500	8.3			9.6	13	18	22	30	37	52	65	76	95	133	150	174	209	261	300	365	408	487	556	695	782
	1000	5.6			6.5	8.5	12	15	20	25	35	44	52	64	90	101	117	141	175	202	246	276	328	375	469	528
	750	4.2			4.8	6.4	9.0	11.2	15	19	26	33	39	48	67	76	88	106	132	152	185	207	246	281	352	396
200	1500	7.5			8.6	11.4	16	20	27	34	47	59	69	86	120	136	157	188	236	271	330	369	440	503	628	707
	1000	5			5.8	7.6	11	13.4	18	23	31	39	46	57	80	91	105	126	157	181	220	246	293	335	419	471
	750	3.8			4.4	5.8	8.2	10	14	17	24	30	35	43	61	69	80	95	119	137	167	187	223	255	318	358
224	1500	6.4			7.7	10	14.4	18	24	30	42	53	62	76	107	121	140	168	210	242	295	330	393	449	561	631
	1000	4.5			5.2	6.8	9.7	12	16	20	28	35	41	51	72	82	94	113	141	163	198	221	264	302	377	424
	750	3.3			3.8	5.0	7.1	9	12	15	21	26	30	38	53	60	69	83	104	119	145	162	194	221	276	311
250	1500	6			6.9	9.1	13	16	21	27	38	47	55	68	96	109	126	151	188	217	264	295	352	402	503	565
	1000	4			4.6	6.1	8.6	11	14	18	25	31	37	46	64	72	84	101	126	145	176	197	235	268	335	377
	750	3			3.5	4.6	6.4	8.0	11	14	19	24	28	34	48	54	63	75	94	108	132	148	176	201	251	283
280	1500	5.4			6.2	8.2	12	14.4	19	24	34	42	50	62	87	98	113	136	170	195	237	266	317	362	452	509
	1000	3.6			4.1	5.5	7.7	9.6	13	16	23	28	33	41	58	65	75	90	113	130	158	177	211	241	302	339
	750	2.7			3.1	4.1	5.8	7.2	10	12	17	21	25	31	43	49	57	68	85	98	119	133	158	181	226	254
315	1500	4.8			5.5	7.3	10.3	13	17	22	30	38	44	55	77	87	101	121	151	173	211	236	281	322	402	452
	1000	3.2			3.7	4.9	6.9	8.5	11	14	20	25	29	37	51	58	67	80	101	116	141	157	188	214	268	302
	750	2.4			2.8	3.6	5.2	6.4	8.5	11	15.1	19	22	27	38	43	50	60	75	87	106	118	141	161	201	226
355	1500	4.2				6.4		11.2		19		33		48		77		106		152		207		281		396
	1000	2.8				4.3		7.5		13		22		32		51		70		101		138		188		264
	750	2.1				3.2		5.6		9.5		16		24		38		53		76		103		141		198
400	1500	3.8				5.8		10		17		30		43												
	1000	2.5				3.8		6.7		11.3		20		29												
	750	1.5				2.9		5.1		8.6		15		22												

采用强制润滑　Forced lubrication required

直交轴齿轮箱 Bevel–helical Gear Units　　热容量 Thermal Capacities
类型 Types B3.., B4..　　规格 Sizes 3...26

热容量 PG, kW Thermal Capacities PG in kW

齿轮箱规格 Gear unit sizes

热容量 PG（单位为 KW）取决于冷却方式：PG1：无辅助冷却装置；PG2：带冷却风扇；PG3：带冷却盘管；PG4：带风扇和冷却盘管。
Thermal capacity PG(in KW)dependent on kind of cooling:
PG1:without auxiliary cooling, PG2:fan cooling,PG3:cooling coil,PG4:fan and cooling coil.

iN		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
31.5	PG1	28.2	32.0	45.2	53.4	69.7	83.1	95.6	106	131	163	172	205	250	276	301	328	370	403	423	458	742	772	888	932
	PG2	31.7	41.2	60.5	71.0	93.6	111	132	146	199	245	263	311	378	418	499	545	618	673	688	748	927	965	1110	1165
	PG3	48.0	49.6	82.7	96.7	138	165	208	240	275	394	428	513	675	752	846	927								
	PG4	50.2	58.2	96.5	113	160	189	240	276	337	467	508	606	784	873	1014	1111								
35.5	PG1	26.7	30.1	42.6	51.5	66.2	78.9	90.8	101	126	155	166	195	241	259	291	311	361	383	409	433	726	755	868	911
	PG2	29.8	38.5	56.6	68.2	88.4	105	125	138	190	232	252	295	363	388	480	509	596	630	660	695	885	921	1059	1111
	PG3	44.8	45.6	75.7	91.4	128	153	190	224	261	367	407	478	642	684	805	847								
	PG4	47.0	53.6	88.7	107	148	176	221	257	318	434	483	565	746	794	966	1017								
40	PG1	23.5	26.3	37.0	48.9	57.9	75.3	84.9	96.4	119	147	156	186	228	250	278	301	343	373	388	419	703	731	841	883
	PG2	26.2	33.5	48.8	64.5	76.7	99.4	118	132	178	218	237	297	341	373	453	489	560	607	618	667	844	877	1009	1060
	PG3	38.9	38.4	63.0	85.3	106	143	172	210	239	340	375	445	592	649	749	805								
	PG4	40.8	45.2	73.9	99.8	123	164	200	241	293	403	446	526	690	755	900	968								
45	PG1	23.2	25.7	36.0	45.9	56.2	71.4	78.0	91.5	109	141	144	178	211	236	285	287	321	355	359	396	665	692	796	836
	PG2	25.6	32.7	47.5	60.3	74.0	93.8	106	124	163	209	216	267	313	351	418	463	519	570	569	624	778	810	931	978
	PG3	38.4	37.3	60.7	78.3	102	132	155	192	215	321	336	421	533	599	679	753								
	PG4	40.0	44.0	71.3	91.6	118	152	180	221	265	382	398	499	621	698	816	903								
50	PG1	22.7	25.9	35.8	40.0	55.4	62.5	76.6	85.6	109	133	146	169	216	218	268	266	317	331	386	367	611	635	730	767
	PG2	25.3	32.9	46.9	52.2	72.6	81.4	103	116	160	195	216	250	315	322	424	427	498	529	596	574	670	724	832	874
	PG3	37.0	37.3	59.1	65.3	98.6	110	148	174	210	295	333	389	535	539	686	684								
	PG4	38.7	43.8	69.5	76.6	114	127	173	201	256	350	397	462	620	629	820	821								
56	PG1	20.3	23.9	33.0	39.0	51.4	60.6	70.7	78.9	99.1	122	134	155	198	223	247	276	305	326	365	393	599	623	717	753
	PG2	22.4	30.2	43.3	50.8	67.4	78.8	95.3	106	145	179	197	228	287	323	388	432	478	506	560	601	683	710	817	858
	PG3	32.3	33.6	53.3	63.0	89.4	105	133	157	186	264	298	346	479	541	617	688								
	PG4	33.9	39.7	62.9	74.0	104	122	155	181	228	315	354	413	555	628	738	823								
63	PG1	20.0	23.0	31.7	38.7	49.7	59.8	68.2	77.4	95.5	121	129	157	189	204	237	254	295	314	353	371	567	590	697	713
	PG2	21.8	29.1	41.6	50.2	65.1	77.4	91.9	103	139	175	189	229	273	294	370	395	460	486	540	563	635	661	760	798
	PG3	31.5	31.8	50.3	61.4	84.8	102	125	150	175	256	280	345	449	482	581	620								
	PG4	32.8	37.6	59.5	72.2	99.0	119	147	173	215	304	334	409	521	561	698	740								
71	PG1	18.6	21.3	30.2	35.7	47.3	55.5	63.9	71.7	88.4	111	121	144	180	195	224	244	297	304	333	360	547	569	654	687
	PG2	20.0	27.0	39.5	46.2	62	71.8	86.0	95.6	129	159	177	208	285	281	347	377	431	486	505	544	602	626	719	756
	PG3	28.6	28.9	46.6	55.5	78.4	92.8	113	135	157	227	253	309	413	454	537	585								
	PG4	29.8	34.3	55.3	65.4	92.1	108	134	156	194	271	303	366	482	528	644	701								
80	PG1			32.5	34.2	48.2	53.6	68.2	69.2	103	106	138	138	185	186	208	231	285	287	399	339	560	538	670	650
	PG2				44.5		69.4		92.3		153		200		266		353		438		509		592		715
	PG3				52.3		88.0		127		212		290		417		538								
	PG4				61.8		103		148		255		346		487		647								
90	PG1			31.8	32.6	46.7	51.0	66.7	64.9	99.9	98.7	135	129	177	190	199	214	273	292	386	404	554	576	662	695
	PG2				42.3		66.0		86.5		142		187												
	PG3				48.5		81.5		115		190		262												
	PG4				57.6		95.4		135		230		314												
100	PG1			30.3	34.8	44.2	51.5	63.2	68.7	90.6	115	128	148	167	182	187	205	258	280	363	391	549	571	657	690
112	PG1			29.2	34.0	42.5	50.0	60.8	67.1	91.4	111	122	144	159	172	179	193	246	264	352	367	497	517	595	625
125	PG1			27.9	32.5	40.6	47.3	58.0	63.7	87.5	106	117	136	151	159	170	184	234	252	331	356	497	517	595	625
140	PG1			26.6	31.3	38.6	45.6	54.7	61.3	82.8	101	111	130	146	151	164	175	225	240	320	325	467	486	559	587
160	PG1			24.5	29.9	35.2	43.5	50.0	58.4	75.5	96.8	105	125	138	146	155	169	213	231	302	323	453	471	542	569
180	PG1			24.0	28.6	34.3	41.4	48.8	55.4	73.5	91.6	99.2	118	130	138	146	159	199	218	282	306	433	450	518	544
200	PG1			23.2	26.3	34.0	37.8	47.8	50.7	71.9	83.7	96.9	112	128	130	144	151	198	204	273	286	401	417	480	504
224	PG1			21.6	25.8	31.7	36.9	44.7	49.4	67.6	81.6	90.8	106	120	128	134	148	186	191	255	277	400	416	478	502
250	PG1			21.1	24.8	30.6	36.5	43.1	48.4	65.4	79.7	87.9	103	116	120	130	139	180	184	247	259	371	386	444	466
280	PG1			20.1	23.2	28.7	34.1	41.1	45.3	62.5	74.8	83.0	96.9	108	116	122	134	169	174	236	250	354	368	398	444
315	PG1			18.8	22.6	26.9	32.8	386	43.7	58.4	72.4	79.2	93.7	102	108	115	126	160	164	220	239	333	346		418
355	PG1				21.6		30.8		41.7		69.1		88.5		105		119				223		317		383
400	PG1				20.2		28.9		39.3		64.5		84.3												

平行齿轮箱 Helical Gear Units　　额定输出扭矩 Nominal Outpu Torques
类型 Types H1.., H2.., H3.., H4..　　规格 Sizes 1...26

IN	传动比 iN，额定输出扭矩 T_{2N} Transmission ratios iN,nomonal output torques T_{2N}																							
	齿轮箱规格 Gear unit sizes																							
	1	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	额定输出扭矩 T2N（KNm）Nominal output torques T2N																							
1.25	0.79	2.6		7		13.3		21.5																	
1.4	0.83	2.7		7.2		13.9		22.3																	
1.6	0.87	2.9		7.5		14.2		23.6		40		63													
1.8	0.91	2.4		7.7		15.2		24.4		41.4		663													
2	0.93	2.5		8.2		15.5		25		42.7		68.2		121											
2.24	0.96	2.5		8.4		15.5		25		44		70.3		122											
2.5	1	2.6		8.4		15.5		25		44		72		110											
2.8	1	2.7		8.4		14.9		23.7		44		72		113		171									
3.15	1	2.7		8.4		15.2		24.5		41.9		68.4		116		173									
3.55	1	2.8		8.3		15.5		24.9		43.7		69.6		118		173									
4	1	2.8		8.4		15.5		25		44		70.8		122		173		245							
4.5	0.82	2.2		6.7		13.8		21.4		40		57.6		102		146		216							
5	0.78	2.1		6.3		12		20.5		33.7		54.5		88.8		124		174							
5.6	0.62	2		6		11.4		17.5		31.8		51.8		84.5		118		150							
6.3		3.5	6.3	10.5		19		31.5		55.5		86		143		195		292							
7.1		3.5	6.3	10.5		19		31.5		55.5		86		143	160	195	230	292	335	410					
8		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	107	143	160	195	230	292	335	410	458				
9		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	107	143	160	195	230	292	335	410	458	540			
10		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	107	143	160	195	230	292	335	410	458	540	620		
11.2		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	107	143	160	195	230	292	335	410	458	540	620	780	
12.5		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	107	143	160	195	230	292	335	410	458	540	620	780	880
14		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	107	143	160	195	230	292	335	410	458	540	620	780	880
16		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	107	143	160	195	230	292	335	410	458	540	620	780	880
18		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	107	143	160	195	230	292	335	410	458	540	620	780	880
20		3.5	6.3	10.5	13.5	19	24	31.5	39.5	55.5	69	86	107	143	160	195	230	292	335	410	458	540	620	780	880
22.4		3.5	6.2	10.2	13.5	18.6	24	31	39.5	54.5	69	88	107	153	160	200	230	300	335	420	458	560	620	800	880
25				11	13.5	20.5	24	34	39.5	60	69	88	107	153	173	200	240	300	345	420	470	560	640	800	900
28				11	13	20.5	23.5	34	38.9	60	67.8	88	109	153	173	200	240	300	345	420	470	560	640	800	900
31.5				11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
35.5				11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
40				11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
45				11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
50				11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
56				11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
63				11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
71				11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
80				11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
90				11	14.5	20	25.5	33.5	43	60	75	88	109	153	173	200	240	290	345	410	470	560	640	800	900
100					14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	335	420	465	560	640	800	900
112					14.1	20.5	25.2	34	42	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
125						20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
140						20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
160						20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
180						20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
200						20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
224						20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
250						20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
280						20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
315						20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
355						19.6	25.5	33	43	59	75	88	109	140	173	192	240	290	345	410	470	560	640		900
400							25.5		43		75		109		158		223		335		465		640		900
450							24.8		41.6		74		109												

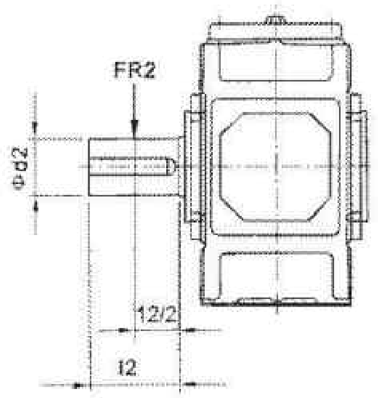
直交轴齿轮箱 Bevel–helical Gear Units　　额定输出扭矩 Nominal Outpu Torques
类型 Types B2.., B3.., B4..　　规格 Sizes 1...26

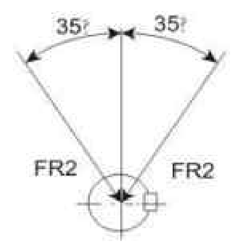
IN	传动比 iN，额定输出扭矩 T_{2N} Transmission ratios iN,nomonal output torques T_{2N}																								
	齿轮箱规格 Gear unit sizes																								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
	额定输出扭矩 T2N（KNm）Nominal output torques T2N																								
5	1.15	2	3.1	5.8	9.4		17.8		28		43		66		122											
5.6	1.15	2	3.1	5.8	9.4		17.8		28		45		67		122	135	195									
6.3	1.15	2	3.1	5.8	9.4	12	17.8	22.3	28	35.6	47	55	71	82	130	141	195									
7.1	1.15	2	3.1	5.8	9.4	12	17.8	22.3	28	35.6	49	57	73	84	132	145	195	230								
8	1.15	2	3.1	5.8	9.4	12	17.8	22.3	28	35.6	50.5	59	77	88	132	148	195	230								
9	1.15	2	3.1	5.8	9.4	12	17.8	22.3	28	35.6	50.5	61	78	91	132	148	195	230								
10	1.15	2	3.1	5.8	9.4	12	17.8	22.3	28	35.6	50.5	62	78	95	132	148	195	230								
11.2	1.15	2	3.1	5.8	9.4	12	17.8	22.3	28	35.6	50.5	62	78	97.5	132	148	195	230								
12.5	1.15	2	3.1	5.5	9.4	12	17.0	22.3	28	35.6	50.5	62	78	97.5	132	148	195	230	250		340					
14	1.15	2	3.1	6	9.8	12	18.2	22.3	29.5	35.6	53	62	80	97.5	137	148	195	230	262	295	360	405				
16	1.1	1.95	3.1	6.2	10.2	12	19.1	21.5	31	35.6	56	62	83	97.5	142	154	200	230	275	308	380	422				
18	1.03	1.8	3	6.4	10.6	12.6	19.8	23.1	32.5	37.5	58	65	85	100	142	160	200	240	288	320	400	438				
20			3.6	6.6	11	13.2	20.5	23.9	34	39.3	60	68	88	103	153	167	200	240	300	332	420	455	560		800	
22.4			3.6	6.6	11	13.8	20.5	24.8	34	41	60	72	88	106	153	173	200	240	300	345	420	470	560	640	800	900
25			3.6	6.6	11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
28			3.6	6.6	11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
31.5			3.6	6.6	11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
35.5			3.6	6.6	11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
40			3.6	6.6	11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
45			3.6	6.6	11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
50			3.6	6.6	11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
56			3.6	6.6	11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
63			3.6	6.6	11	14.5	20	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
71			3.6	6.6	11	14.5	20	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
80					11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
90					11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
100					11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
112					11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
125					11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
140					11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
160					11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
180					11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
200					11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
224					11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
250					11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
280					11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
315					11	14.5	20.5	25.5	34	43	60	75	88	109	153	173	200	240	300	345	420	470	560	640	800	900
355						14.5		25.5		43		75		109		173		240		345		470		640		900
400						14.5		25.5		43		75		109												

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

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

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





允许的作用力方向
Permissible direction of force

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

类型 Type	布置形式 Design	齿轮箱规格 1 ），4 ） Gear unit sizes 1 ）,4																	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
H1SH	A/B	2)	–	2)	–	2)	–	2)	–	2)	–	2)	–	2)	–	2)		2)	
H2S.	A/B/G/H	–	–	8	10	22	22	30	30	30	45	64	64	150	150	140	205	205	205
	C/D	–	–	8	10	13	13	18	18	10	28	35	35	112	112	85	135	135	135
H3S.	A/B/G/H	–	–	–	–	29	29	40	40	40	60	85	85	190	190	185	265	265	265
	C/D	–	–	–	–	18	18	26	26	18	40	50	50	150	150	120	185	185	190
H4S.	A/B	–	–	–	–	–	–	26	26	18	40	50	50	150	150	120	185	185	190
	C/D	–	–	–	–	–	–	40	40	40	60	85	85	190	190	185	265	265	265
B2S.	A/C	7	10	10	13	27	27	37	37	38	55	78	78	160	160	150	210	210	210
	B/D	4	7	9	12	15	15	17	17	10	30	38	38	110	110	75	145	100	100
B3S.	A/C	–	–	9	14	29	29	40	40	40	60	85	85	190	190	185	265	265	265
	B/D	–	–	7	9	18	18	26	26	18	40	50	50	150	150	120	185	185	190
B4S.	A/C	–	–	–	–	29	29	40	40	40	60	85	85	190	190	185	265	265	265
	B/D	–	–	–	–	18	18	26	26	18	40	50	50	150	150	120	185	185	190

1) 表中数据为最小值。如果给定了力的作用角和旋转方向，通常情况下，可允许承受较大的附加力。请与我们取得联系。
Values in tables are minimum values. If the angle of application of force and the direction of rotation are given, signif-icantly higher additional forces can mostly beallowed. Please consult us.

2) 根据用户要求供货。On request.

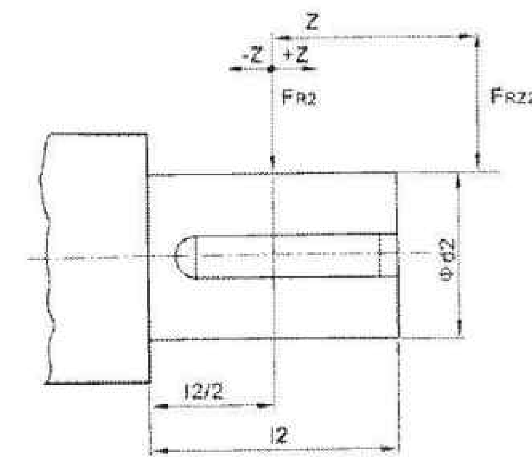
3) 当作用力不在轴端中部时，请参见第36页。For aplication of force outside the center of the shaft end ,see page 36.

4) 基础螺栓的最低性能等级为8.8级。基础必须干燥，不得有油脂。如用户要求，允许输入轴d1 上附加径向力。
Use foundation bolts of min. Property class 8.8. Foundation must be dry and grease-free,
Permissible additional radial forces on input shaft d1 on request.

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

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

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



$F_{RZ2}=F_{R2}$ X K

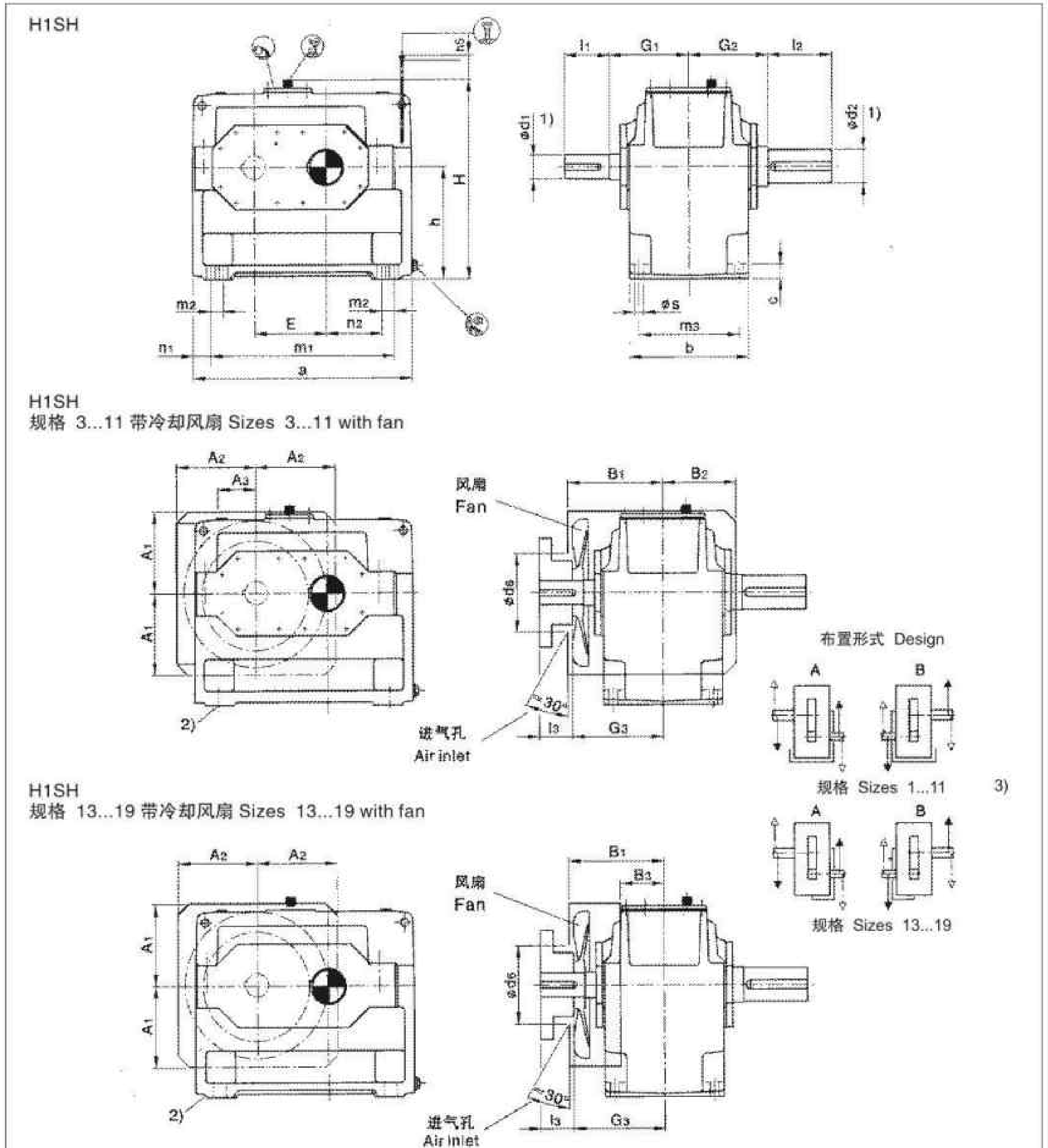
FRZ2 允许的轴端外部径向力
FRZ2 Permissible external radial force

FR2 允许的附加径向力根据 81 页上的表确定
FR2 Permissible additional radial force acc.to toble page 81

K 作用力系数根据下表确定
K Factor of application of force acc.to table

作用力系数 K Factor of application of farce K															
规格 Size	距离 Z （ mm ） Distance Z in mm														
	–200	–150	–100	–75	–50	–25	0	25	50	75	100	105	200	250	300
1						1.11	1.00	0.81	0.68	0.58	0.51				
2						1.11	1.00	0.83	0.71	0.63	0.56				
3					1.21	1.09	1.00	0.85	0.74	0.65	0.58	0.48			
4					1.17	1.08	1.00	0.86	0.76	0.68	0.62	0.52	0.44		
5+6				1.22	1.14	1.06	1.00	0.88	0.79	0.72	0.66	0.56	0.49	0.43	
7+8				1.19	1.12	1.06	1.00	0.89	0.81	0.74	0.68	0.58	0.51	0.46	0.41
9+10			1.22	1.15	1.10	1.05	1.00	0.90	0.82	0.76	0.70	0.61	0.54	0.48	0.44
11+12			1.18	1.13	1.08	1.04	1.00	0.91	0.84	0.78	0.73	0.64	0.57	0.51	0.47
13+14		1.24	1.15	1.11	1.07	1.03	1.00	0.92	0.86	0.80	0.75	0.67	0.60	0.55	0.50
15+16		1.20	1.12	1.09	1.06	1.03	1.00	0.93	0.87	0.82	0.77	0.69	0.63	0.58	0.53
17+18	1.25	1.17	1.11	1.08	1.05	1.03	1.00	0.94	0.88	0.84	0.79	0.72	0.66	0.60	0.56

平行轴齿轮箱 Helical Gear Units 单级传动 Single Stage 卧式安装 Horizontal
类型 Types H1SH 规格 Sizes 1...19



1） $k_s \leq \Phi 50$ $m_s > \Phi 50$
有关平键GB/T1095-1979型和中心孔，参见第98-99页。For parallel key GB/T1095-1979 and for centre hole, see page 98-99.
2）在安装基础螺栓前，应拆下风扇罩。Remove air guide cover before fitting the foundation bolts.
3）规格1号不带风扇。Sizes 1 without fan.

平行轴齿轮箱 Helical Gear Units 单级传动 Single Stage 卧式安装 Horizontal
类型 Types H1SH 规格 Sizes 1...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			G1	G3
	d1[1]	l1	l3	d1[1]	l1	l3	d1[1]	l1	l3	d1[1]	l1	l3	d1[1]	l1	l3		
1	40	70	–							30	50		24	40	–	110	
3	60	125	105							45	100	80	32	80	60	170	190
5	85	160	130							60	135	105	50	110	80	210	240
7	100	200	165							75	140	105	60	140	105	250	285
9	110	200	165							90	165	130	75	140	105	280	315
11				130	240	205				110	205	170	90	170	135	325	360
13				150	245	200				130	245	200	100	210	165	365	410
15							180	290	240	150	250	200	125	250	200	360	410
17							200	330	280	170	290	240	140	250	200	400	450
19							220	340	290	190	340	290	160	300	250	440	490

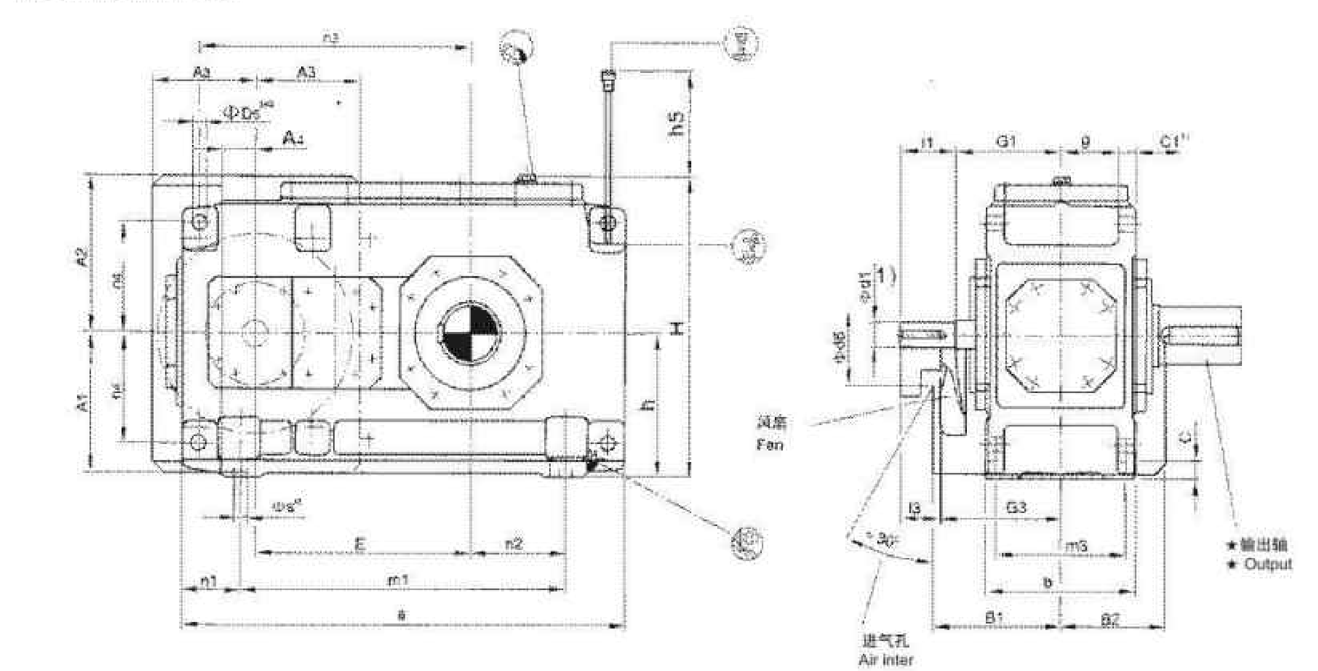
规格 Size	尺寸 mm Dimensions in mm 齿轮箱 Gear units																		
	a	A1	A2	A3	b	B1	B2	B3	c	d6	E	h	h5	H	m1	m2	m3	n1	n2	s
1	295	–	–	–	150	–	–	–	18	–	90	140	55	275	220	–	120	37.5	80	12
3	420	150	145	80	200	205	130	–	28	130	130	200	82	375	310	–	160	55	110	19
5	580	225	215	115	285	255	185	–	35	190	185	290	100	525	440	–	240	70	160	24
7	690	255	250	120	375	300	230	–	45	245	225	350	75	625	540	–	315	75	195	28
9	805	300	265	140	425	330	265	–	50	280	265	420	50	735	625	–	350	90	225	35
11	960	360	330	190	515	375	320	–	60	350	320	500	40	875	770	–	440	95	280	35
13	1100	415	350		580	430		150	70	350	370	580	40	1020	870	–	490	115	315	42
15	1295	500	430	–	545	430	–	120	80	450	442	600	10	1115	1025	–	450	135	370	48
17	1410	550	430	–	615	470	–	150	80	445	490	670	–	1235	1170	130	530	120	425	42
19	1590	630	475	–	690	510	–	190	90	445	555	760	–	1395	1290	150	590	150	465	48

规格 Size	尺寸 mm Dimensions in mm 输出轴 Output			润滑油 Lubrication (L)	重量 Weight (kg)
	d2[1]	G2	l_2		
1	45	110	80	2.5	55
3	60	170	125	7	128
5	85	210	160	22	302
7	105	250	200	42	547
9	125	270	210	68	862
11	150	320	240	120	1515
13	180	360	310	175	2395
15	220	360	350	190	3200
17	240	400	400	270	4250
19	270	440	450	390	5800

平行轴齿轮箱 Helical Gear Units　两级传动 Two Stage　卧式安装 Horizontal

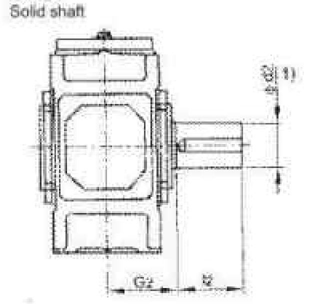
类型 Types H2.H　规格 Sizes 3...12

H2SH H2HH H2DH

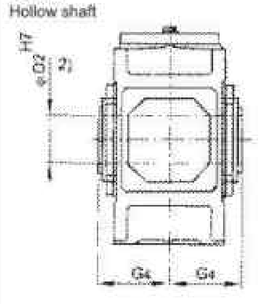


★ 输出轴 Output

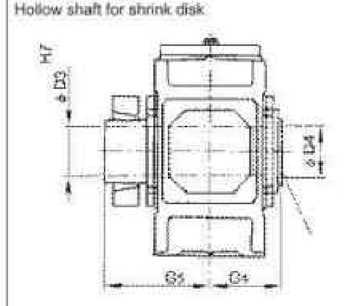
H2SH
实心轴
Solid shaft



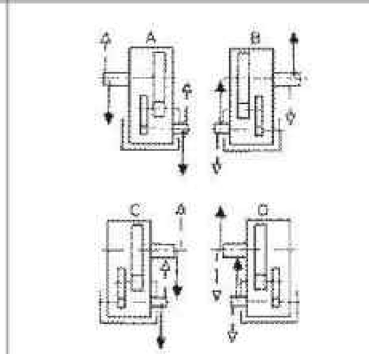
H2HH
空心轴
Hollow shaft



H2DH
带胀紧盘的空心轴
Hollow shaft for shrink disk



布置形式 Design



1）$k_6 \le \Phi 50$　$m_6 > \Phi 50$

有关平键GB/T1095-1979型和中心孔，参见第98-99页。For parallel key GB/T1095-1979 and for centre hole, see page 98-99.

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

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

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

H/B工业齿轮箱 GEAR UNITS

平行轴齿轮箱 Helical Gear Units　两级传动 Two Stage　卧式安装 Horizontal

类型 Types H2.H　规格 Sizes 3...12

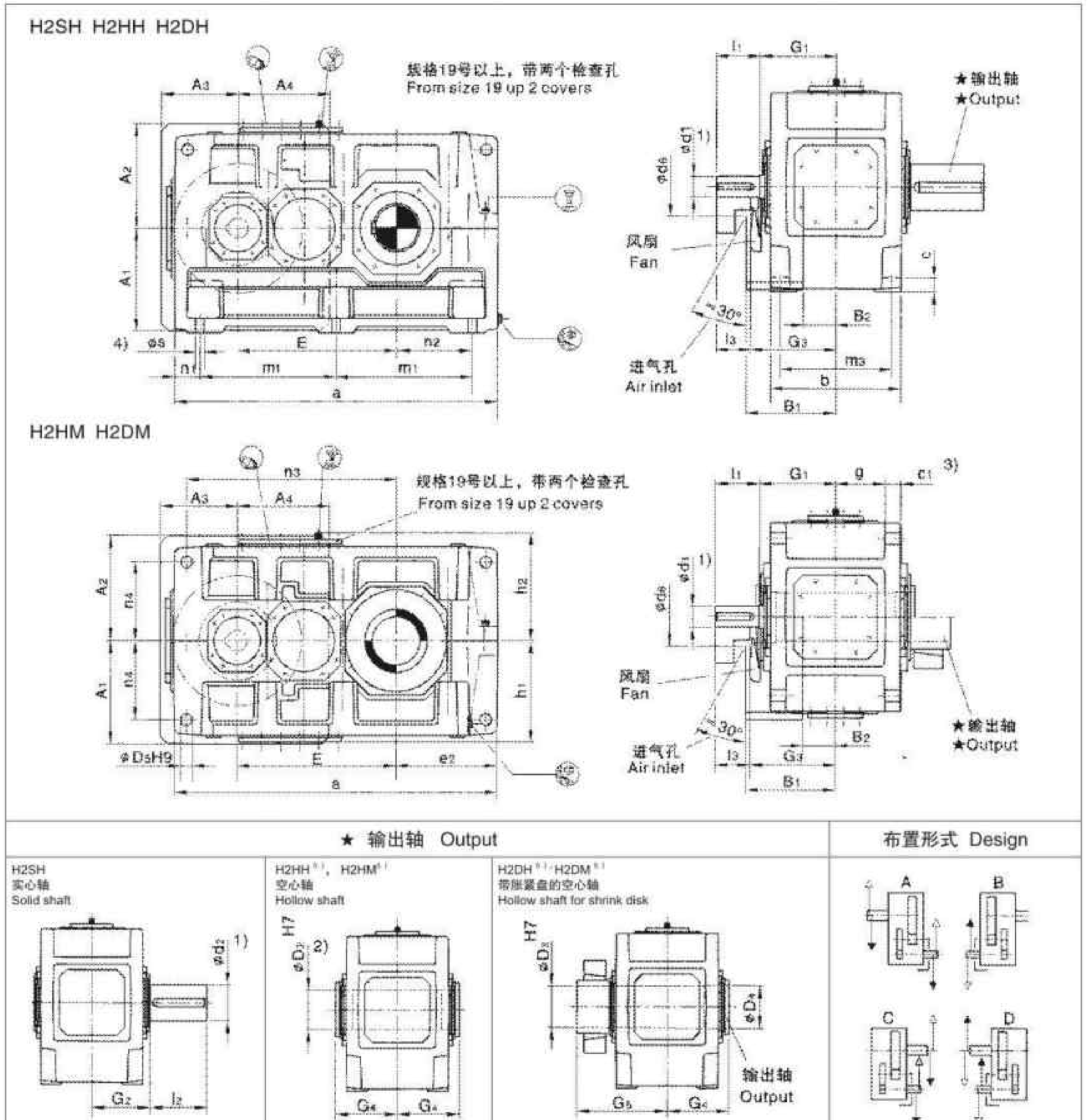
规格 Size	尺寸 mm Dimensions in mm													
	输入轴 Input													
	iN=6.3-11.2			iN=8-14			iN=12.5-22.4			iN=16-28			G1	G3
	d1[1]	l1	l3	d1[1]	l1	l3	d1[1]	l1	l3	d1[1]	l1	l3		
3	35	60	–				28	50					135	–
4	45	100	80				32	80	60				170	190
5	50	100	80				38	80	60				195	215
6				50	100	80				38	80	60	195	215
7	60	135	105				50	110	80				210	240
8				60	135	105				50	110	80	210	240
9	75	140	110				60	140	110				240	270
10				75	140	110				60	140	110	240	270
11	90	165	130				70	140	105				275	310
12				90	165	130				70	140	105	275	310

规格 Size	尺寸 mm Dimensions in mm											
	齿轮箱 Gear units											
	a	A1	A2	A3	A4	b	B1	B2	c	C1	D5	d6
3	450	–	–	–	–	190	–	–	22	24 ± 1	18	–
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	h5	H	m1	m3	n1	n2	n3	n4	s
3	220	71	175	110	360	290	160	80	65	285	132.5	15
4	270	77.5	200	110	415	355	180	105	85	345	150	19
5	315	97.5	230	150	482	430	220	105	100	405	180	19
6	350	97.5	230	150	482	510	220	105	145	440	180	19
7	385	114	280	190	572	545	260	120	130	500	215	24
8	430	114	280	190	582	650	260	120	190	545	215	24
9	450	140	320	205	662	635	320	145	155	585	245	28
10	500	140	320	215	662	735	320	145	205	635	245	28
11	545	161	380	250	782	775	370	165	180	710	300	35
12	615	161	380	250	790	930	370	165	265	780	300	35

规格 Size	尺寸 mm Dimensions in mm									润滑油 Lubrication	重量 Weight (kg)
	输出轴 Output									(L)	
	H2SH			H2HH		H2DH					
	d2[1]	G2	l2	D2[2]	G4	D3	D4	G4	G5		
3	65	125	140	65	125	70	70	125	180	6	115
4	80	140	170	80	140	85	85	140	205	10	190
5	100	165	210	95	165	100	100	165	240	15	300
6	110	165	210	105	165	110	110	165	240	16	355
7	120	195	210	115	195	120	120	195	280	27	505
8	130	195	250	125	195	130	130	195	285	30	590
9	140	235	250	135	235	140	145	235	330	42	830
10	160	235	300	150	235	150	155	235	350	45	960
11	170	270	300	165	270	165	170	270	400	71	1335
12	180	270	300	180	270	180	185	270	405	76	1615

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



1）$k_6 \le \Phi 50$ $m_6 > \Phi 50$
有关平键GB/T1095-1979型和中心孔，参见第98-99页。For parallel key GB/T1095-1979 and for centre hole,see page 98-99.
2）键槽GB/T1095-1979。Keyway GB/T1095-1979.
3）扭力支撑位于工作机侧。Torque support on driven machine side.
4）在安装螺栓前，应拆下风扇罩。Remove air guide cover before fitting the foundation bolts.
5）规格13和15：速比只有iN=6.3-18；规格17号和19号：速比只有iN=6.3-16
Size 13 and 15: only iN=6.3-18; Size 17 and 19: only iN=6.3-16.

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

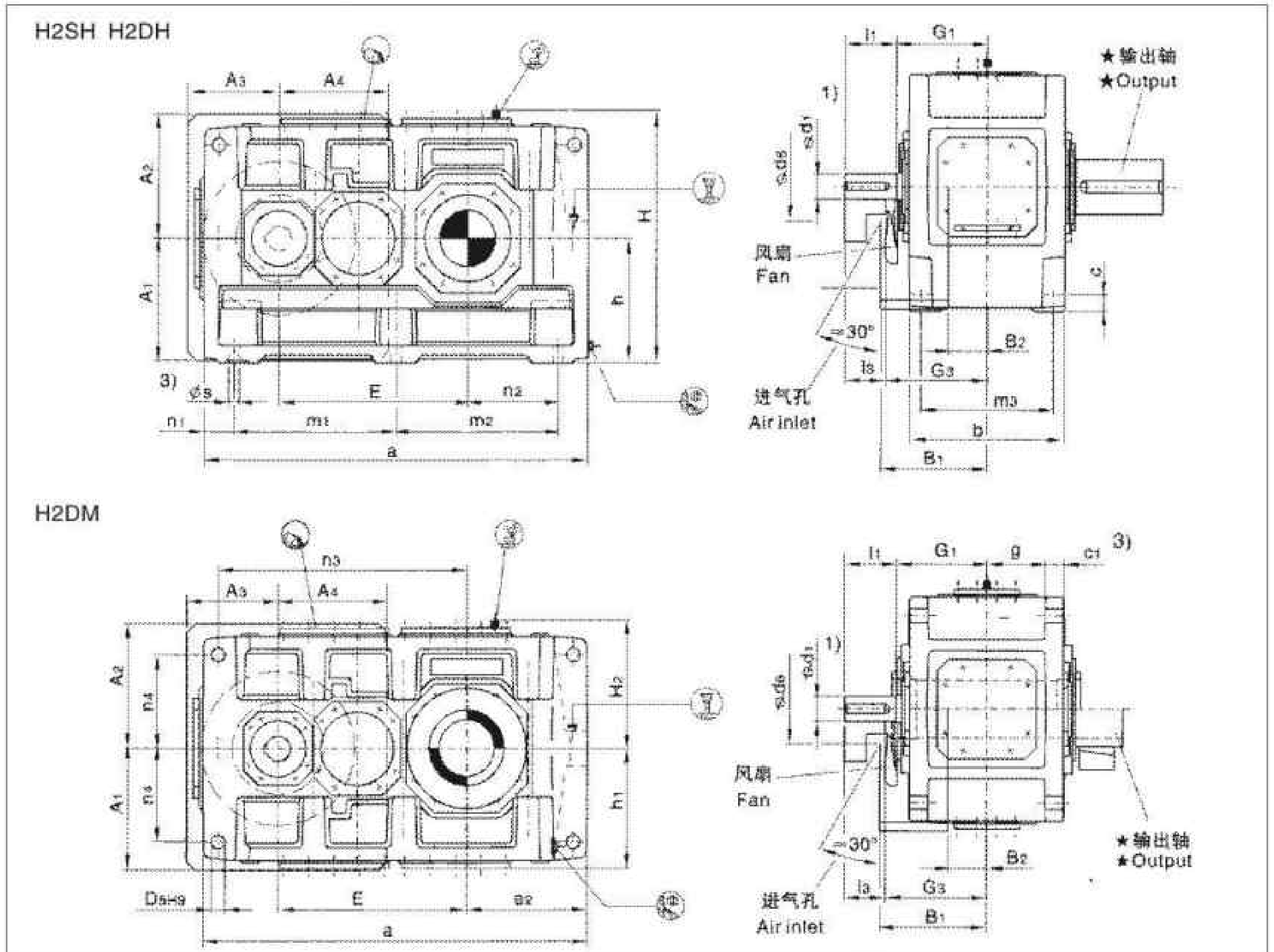
规格 Size	尺寸 mm Dimensions in mm 输入轴 Input																			
	iN=6.3-11.2			iN=7.1-12.5			iN=8-14			iN=12.5-20			iN=14-22.4			iN=16-25			G1	G3
	d1 1)	l1	l3	d1 1)	l1	l3	d1 1)	l1	l3	d1 1)	l1	l3	d1 1)	l1	l3	d1 1)	l1	l3		
13	100	205	170							85	170	135							330	365
14							100	205	170							85	170	135	330	365
15	120	210	165							100	210	165							365	410
16				120	210	165							100	210	165				365	410
17	125	245	200							110	210	165							420	465
18				125	245	200							110	210	165				420	465
19	150	245	200							120	210	165							475	520
20				150	245	200							120	210	165				475	520
21	170	290	240							140	250	200							495	545
22				170	290	240							140	250	200				495	545

规格 Size	尺寸 mm Dimensions in mm 齿轮箱 Gear units													
	a	A1	A2	A3	A4	b	B1	B2	c	c1	d6	D5	e2	E
13	1290	430	460	330	365	550	385	135	60	61 ± 2	250	48	405	635
14	1430	430	460	330	365	550	385	135	60	61 ± 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	1057
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	h1	h2	H	m1	m2	m3	n1	n2	n3	n4	s
13	211.5	440	450	460	900	545	545	475	100	305	835	340	35
14	211.5	440	450	460	900	545	685	475	100	375	905	340	35
15	238	500	490	500	1000	655	655	535	120	365	1005	375	42
16	238	500	490	500	1000	655	745	535	120	410	1050	375	42
17	259	550	555	560	1110	735	735	600	135	390	1145	425	42
18	259	550	555	560	1110	735	855	600	135	450	1205	425	42
19	299	620	615	620	1240	850	850	690	155	435	1345	475	48
20	299	620	615	620	1240	850	970	690	155	495	1405	475	48
21	310	700	685	690	1390	900	900	720	170	485	1400	520	56
22	310	700	685	690	1390	900	1010	720	170	540	1455	520	56

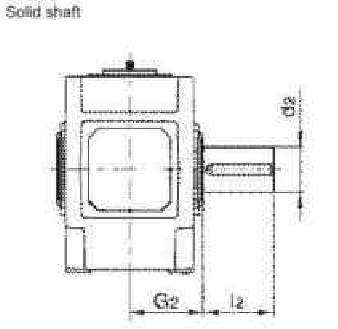
规格 Size	尺寸 mm Dimensions in mm 输出轴 Output									润滑油 Lubrication		重量 Weight	
	H2SH			H2HH 5) H2HM 5)		H2DH 5) H2DM 5)				H2.H	H2.M	H2.H	H2.M
	d2 1)	G2	L2	D2 2)	G4	D3	D4	G4	G5	(L)		(kg)	(kg)
13	200	335	350	190	335	190	195	335	480	135	110	2000	1880
14	210	335	350	210	335	210	215	335	480	140	115	2570	2430
15	230	380	410	230	380	230	235	380	550	210	160	3430	3240
16	240	380	410	240	380	240	245	380	550	215	165	3655	3465
17	250	415	410	250	415	250	260	415	600	290	230	4650	4420
18	270	415	470	275	415	280	285	415	600	300	240	5125	4870
19	290	465	470	–	–	285	295	465	670	320	300	6600	6300
20	300	465	500	–	–	310	315	465	670	340	320	7500	7200
21	320	490	500	–	–	330	335	490	715	320	350	8900	8400
22	340	490	550	–	–	340	345	490	725	340	370	9600	9200

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

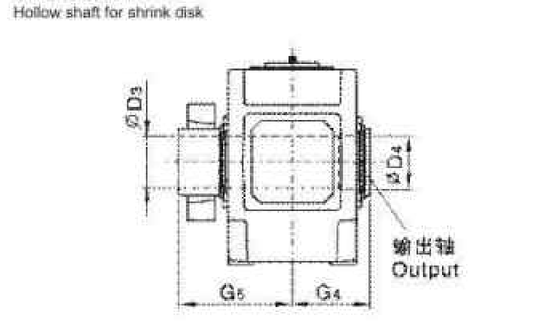


★ 输出轴 Output

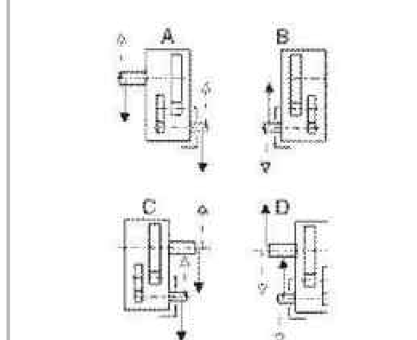
H2SH
实心轴
Solid shaft



H2DH，H2DM
带胀紧盘的空心轴
Hollow shaft for shrink disk



布置形式 Design



1）$k_6 \leq \Phi 50$ $m_6 > \Phi 50$
有关平键GB/T1095-1979型和中心孔，参见第98-99页。For parallel key GB/T1095-1979 and for centre hole, see page 98-99.
2）键槽GB/T1095-1979。Keyway GB/T1095-1979.
3）扭力支撑位于工作机侧。Torque support on driven machine side.

H/B工业齿轮箱 GEAR UNITS

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

规格 Size	尺寸 mm Dimensions in mm													
	输入轴 Input													
	iN=6.3-11.2			iN=7.1-11.5			iN=12.5-20			iN=14-22.4			G1	G3
	d1[1]	l1	l3	d1[1]	l1	l3	d1[1]	l1	l3	d1[1]	l1	l3		
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

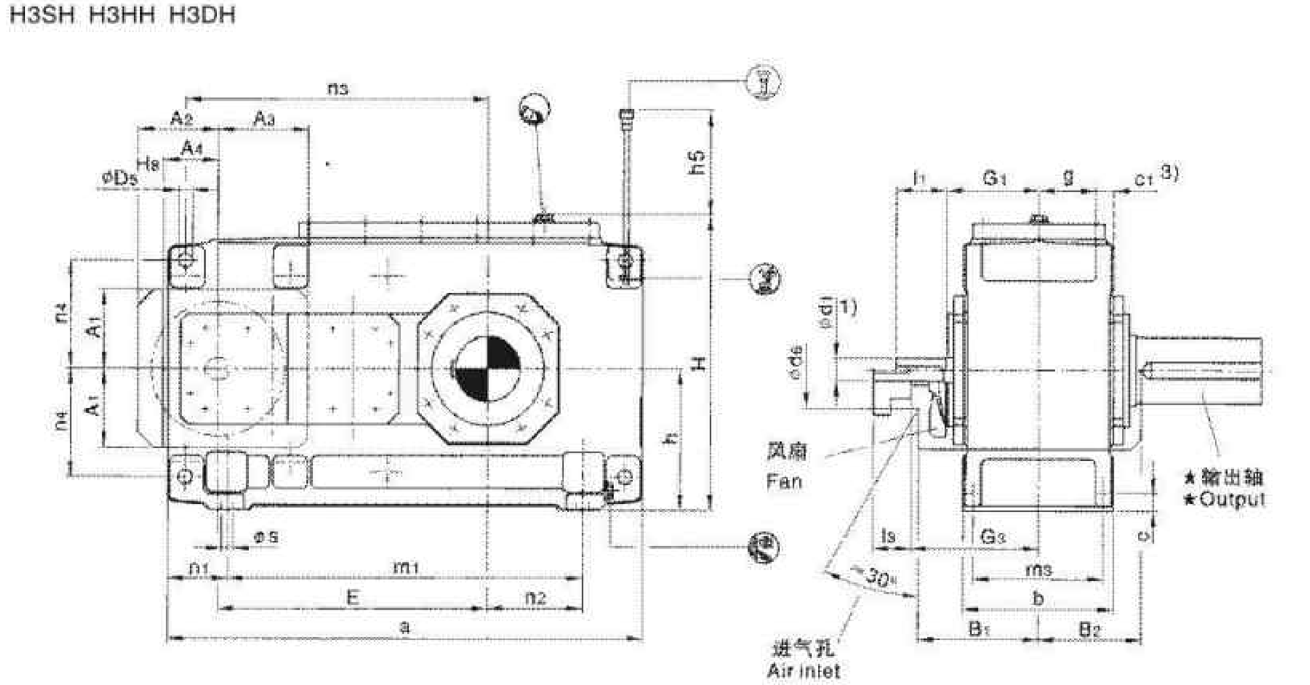
规格 Size	尺寸 mm Dimensions in mm													
	齿轮箱 Gear units													
	a	A1	A2	A3	A4	b	B1	B2	c	c1	d6	D5	e2	E
23	2380	770	770	550	550	930	630	220	115	120 ± 2	450	80	730	1185
24	2510	770	770	550	550	930	630	220	115	120 ± 2	450	80	795	1250
25	2580	845	865	550	550	1045	670	240	130	120 ± 2	450	90	790	1325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

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

规格 Size	尺寸 mm Dimensions in mm							润滑油 Lubrication		重量 Weight	
	输出轴 Output										
	H2SH			H2DH H2DM				H2.H	H2.M	H2.H	H2.M
	d2[1]	G2	l2	D3	D4	G4	G5	(L)	(L)	(kg)	(kg)
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

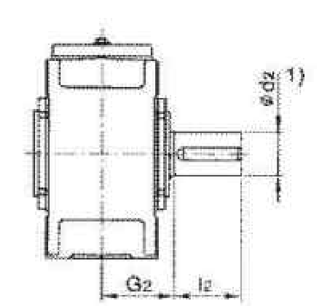
平行轴齿轮箱 Helical Gear Units　三级传动 Three Stage　卧式安装 Horizontal
类型 Types H3.H　规格 Sizes 5...12

H3SH H3HH H3DH

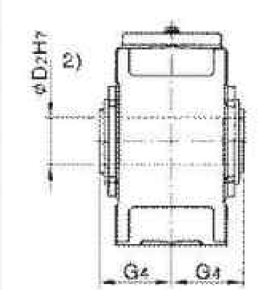


★ 输出轴 Output

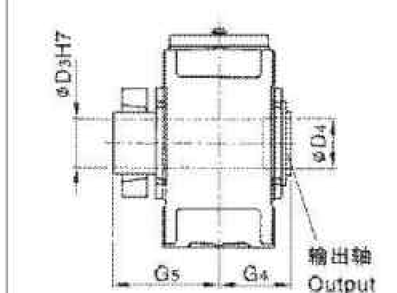
H3SH
实心轴
Solid shaft



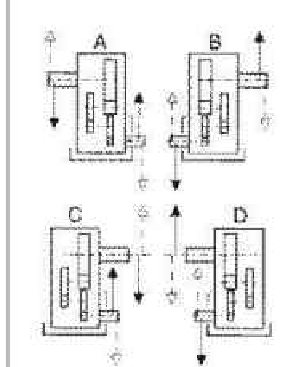
H3HH
空心轴
Hollow shaft



H3DH
带胀紧盘的空心轴
Hollow shaft for shrink disk



布置形式 Design



1）$k_6 \leq \Phi 50$　$m_6 > \Phi 50$
有关平键GB/T1095-1979型和中心孔，参见第98~99页。For parallel key GB/T1095-1979 and for centre hole, see page 98~99.
2）键槽GB/T1095-1979。Keyway GB/T1095-1979.
3）扭力支撑位于工作机侧。Torque support on driven machine side.

平行轴齿轮箱 Helical Gear Units　三级传动 Three Stage　卧式安装 Horizontal
类型 Types H3.H　规格 Sizes 5...12

规格 Size	尺寸 mm Dimensions in mm 输入轴 Input																			
	iN=24-45			iN=31.5-56			iN=50-63			iN=63-80			iN=71-90			iN=90-112			G1	G3
	d1[1]	l1	l3	d1[1]	l1	l3	d1[1]	l1	l3	d1[1]	l1	l3	d1[1]	l1	l3	d1[1]	l1	l3		
5	40	70	70				30	50	50				24	40	40				160	220
6				40	70	70				30	50	50				24	40	40	160	220
7	45	80	80				35	60	60				28	50	50				185	250
8				45	80	80				35	60	60				28	50	50	185	250
9	60	125	105				45	100	80				32	80	60				230	300
10				60	125	105				45	100	80				32	80	60	230	300
11	70	120	120				50	80	80				42	70	70				255	330
12				70	120	120				50	80	80				42	70	70	255	330

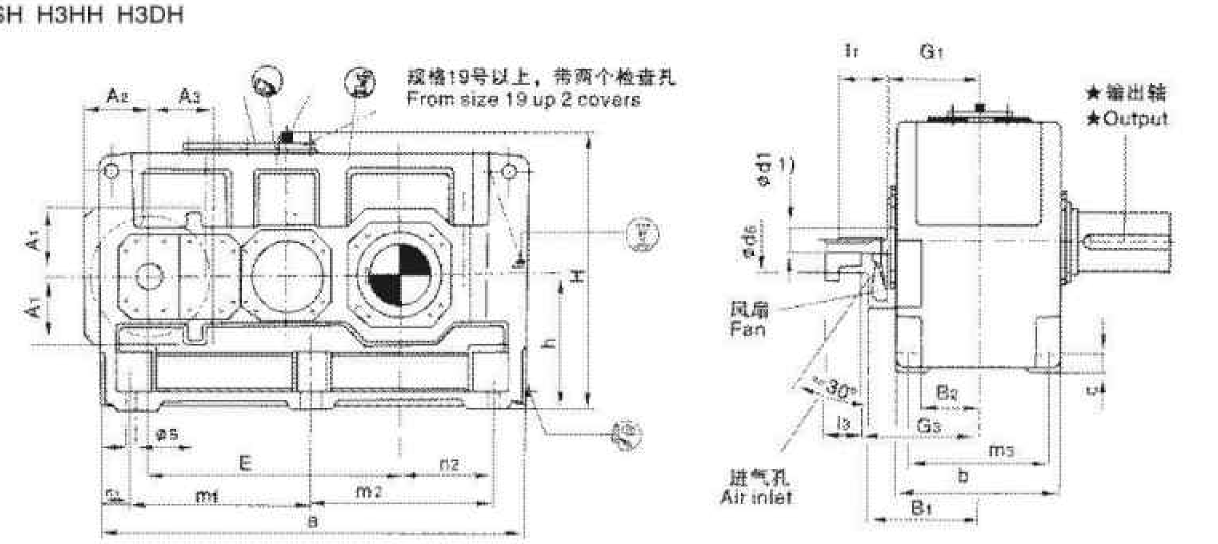
规格 Size	尺寸 mm Dimensions in mm 齿轮箱 Gear units											
	a	A1	A2	A3	A4	b	B1	B2	c	c1	d6	D5
5	690	137	135	140	80	255	215	175	28	30 ± 1	60	24
6	770	137	135	140	80	255	215	175	28	30 ± 1	60	24
7	845	157	160	180	100	300	245	205	35	36 ± 1	75	28
8	950	157	160	180	100	300	245	205	35	36 ± 1	75	28
9	1000	182	190	205	120	370	295	240	40	45 ± 1.5	90	36
10	1100	182	190	205	120	370	295	240	40	45 ± 1.5	90	36
11	1200	218	220	255	150	430	325	280	50	54 ± 1.5	100	40
12	1355	218	220	255	150	430	325	280	50	54 ± 1.5	100	40

规格 Size	尺寸 mm Dimensions in mm 齿轮箱 Gear units											
	E	g	h	h5	H	m1	m3	n1	n2	n3	n4	s
5	405	97.5	230	130	482	480	220	105	100	455	180	19
6	440	97.5	230	130	482	560	220	105	145	490	180	19
7	495	114	280	170	572	605	260	120	130	560	215	24
8	540	114	280	160	582	710	260	120	190	605	215	24
9	580	140	320	185	662	710	320	145	155	660	245	28
10	630	140	320	185	662	810	320	145	205	710	245	28
11	705	161	380	180	782	870	370	165	180	805	300	35
12	775	161	380	170	790	1025	370	165	265	875	300	35

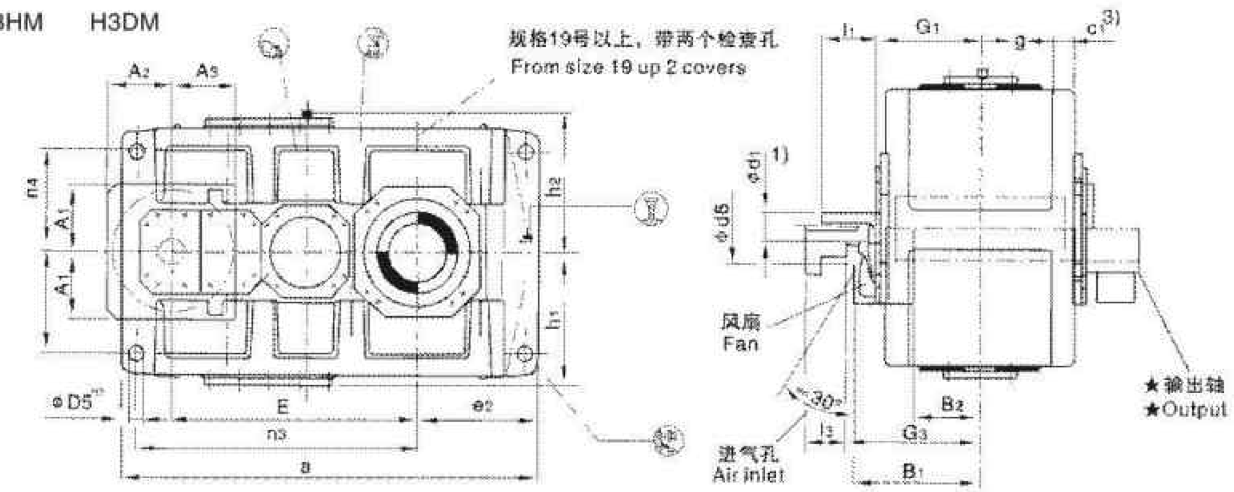
规格 Size	尺寸 mm Dimensions in mm 输出轴 Output									润滑油 Lubrication (L)	重量 Weight (kg)
	H3SH			H3HH		H3DH					
	d2[1]	G2	l2	D2[2]	G4	D3	D4	G4	G5		
5	100	165	210	95	165	100	100	165	240	15	320
6	110	165	210	105	165	110	110	165	240	17	365
7	120	195	210	115	195	120	120	195	280	28	540
8	130	195	250	125	195	130	130	195	285	30	625
9	140	235	250	135	235	140	145	235	330	45	875
10	160	235	300	150	235	150	155	235	350	46	1020
11	170	270	300	165	270	165	170	270	400	85	1400
12	180	270	300	180	270	180	185	270	405	90	1675

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

H3SH H3HH H3DH

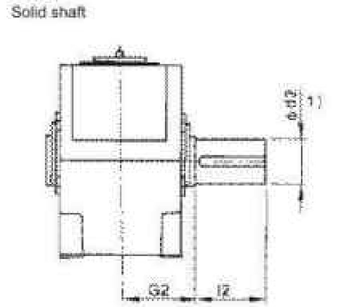


H3HM H3DM

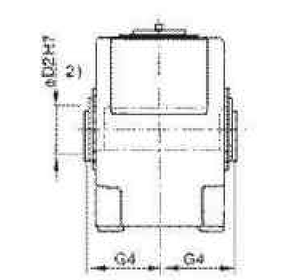


★ 输出轴 Output

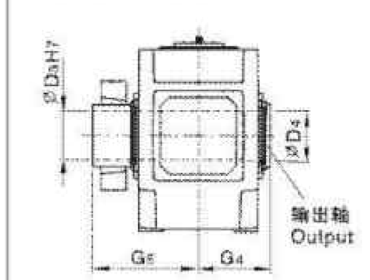
H3SH
实心轴
Solid shaft



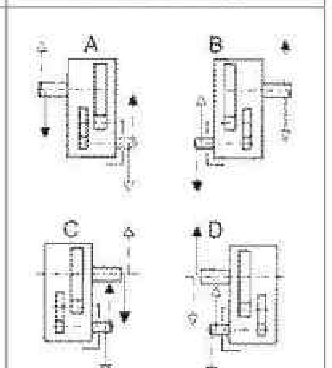
H3HH,H3HM
空心轴
Hollow shaft



H3DH, H3DM
带胀紧盘的空心轴
Hollow shaft for shrink disk



布置形式 Design



1）$k_6 \leq \Phi 50$　$m_6 > \Phi 50$
有关平键GB/T1095-1979型和中心孔，参见第98-99页。For parallel key GB/T1095-1979 and for centre hole, see page 98-99.
2）键槽GB/T1095-1979。Keyway GB/T1095-1979.
3）扭力支撑位于工作机侧。Torque support on driven machine side.

H/B工业齿轮箱 GEAR UNITS

平行轴齿轮箱 Helical Gear Units　三级传动 Three Stage　卧式安装 Horizontal
类型 Types H3.H, H3.M　规格 Sizes 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=50-63			iN=56-71 iN=63-80 *)			iN=71-90			iN=80-100 iN=90-112 *)			G1	G3
	d1 1)	l1	l3	d1 1)	l1	l3	d1 1)	l1	l3	d1 1)	l1	l3	d1 1)	l1	l3	d1 1)	l1	l3		
13	85	160	130				60	135	105				50	110	80				310	385
14				85	160	130				60	135	105				50	110	80	310	385
15	100	200	165				75	140	105				60	140	105				350	420
16				100	200	165				75	140	105				60	140	105	350	420
17	100	200	165				75	140	105				60	140	105				380	450
18				100	200	165				75	140	105				60	140	105	380	450
19	110	200	4)				90	165	4)				75	140	4)				430	4)
20				110	200	4)				90	165	4)				75	140	4)	430	4)
21	130	240	4)				110	205	4)				90	170	4)				470	4)
22				130	240	4)				110	205	4)				90	170	4)	470	4)

* 仅指规格 14 号齿轮箱　Only size 14

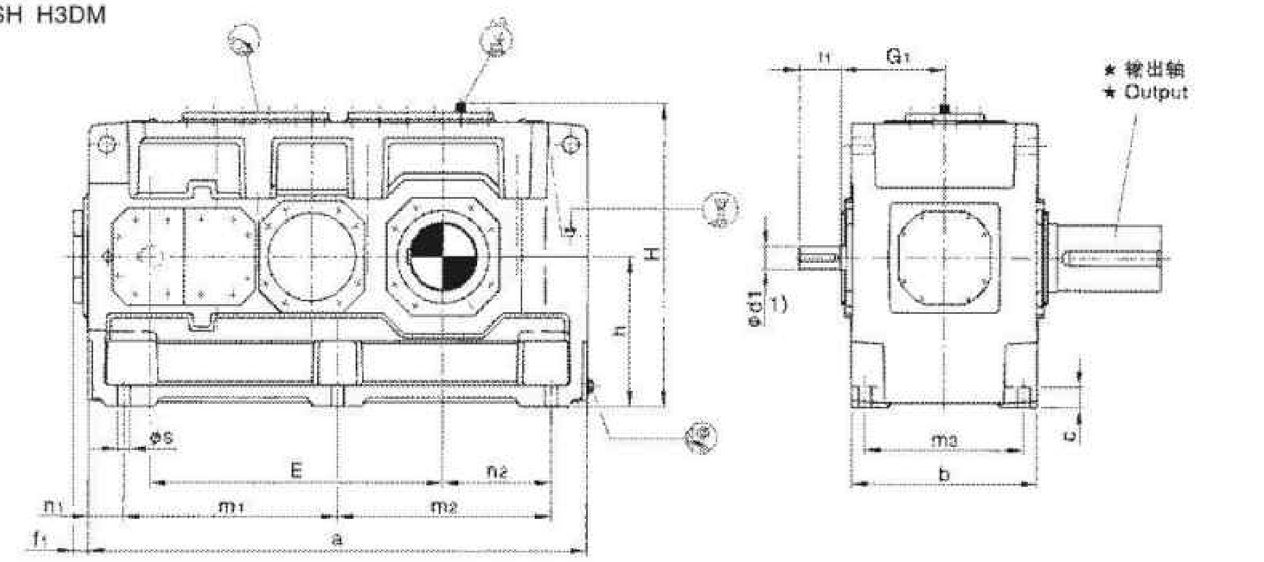
规格 Size	尺寸 mm Dimensions in mm												
	齿轮箱 Gear units												
	a	A1	A2	A3	b	B1	B2	c	c1	d6	D5	e2	E
13	1395	225	225	212	550	380	195	60	61 ± 2	120	48	405	820
14	1535	225	225	212	550	380	195	60	61 ± 2	120	48	475	890
15	1680	270	265	252	625	415	205	70	72 ± 2	150	55	485	987
16	1770	270	265	252	625	415	205	70	72 ± 2	150	55	530	1033
17	1770	270	265	252	690	445	235	80	81 ± 2	150	55	525	1035
18	1890	270	265	252	690	445	235	80	81 ± 2	150	55	585	1095
19	2030	4)	4)	4)	790	4)	4)	90	91 ± 2	4)	65	590	1190
20	2150				790			90	91 ± 2		65	650	1250
21	2340				830			100	100 ± 2		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	h1	h2	H	m1	m2	m3	n1	n2	n3	n4	s
13	211.5	440	450	460	900	597.5	597.5	475	100	305	940	340	35
14	211.5	440	450	460	900	597.5	737.5	475	100	375	1010	340	35
15	238	500	490	500	1000	720	720	535	120	365	1135	375	42
16	238	500	490	500	1000	720	810	535	120	410	1180	375	42
17	259	550	555	560	1110	750	750	600	135	390	1175	425	42
18	259	550	555	560	1110	750	870	600	135	450	1235	425	42
19	299	620	615	620	1240	860	860	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	1615	520	56
22	310	700	685	690	1390	1000	1110	720	170	540	1670	520	56

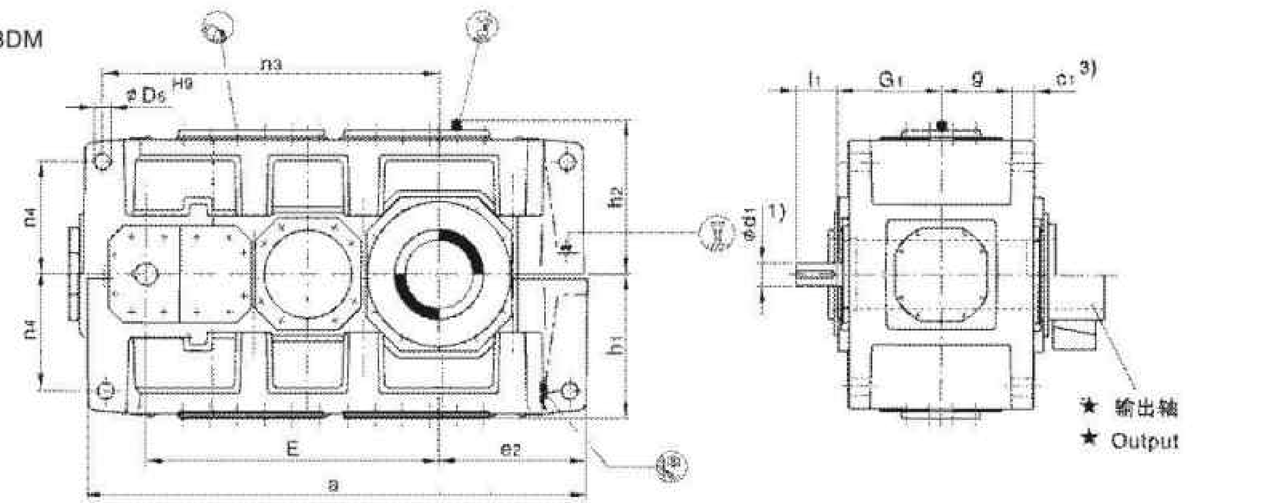
规格 Size	尺寸 mm Dimensions in mm									润滑油 Lubrication		重量 Weight	
	输出轴 Output												
	H3SH			H3HH H3HM		H3DH H3DM				H3.H	H3.M	H3.H	H3.M
	d2 1)	G2	l2	D2 2)	G4	D3	D4	G4	G5	(L)	(L)	(kg)	(kg)
13	200	335	350	190	335	190	195	335	480	160	125	2295	2155
14	210	335	350	210	335	210	215	335	480	165	130	2625	2490
15	230	380	410	230	380	230	235	380	550	235	190	3475	3260
16	240	380	410	240	380	240	245	380	550	245	195	3875	3625
17	250	415	410	250	415	250	260	415	600	305	240	4560	4250
18	270	415	470	275	415	280	285	415	600	315	250	5030	4740
19	290	465	470	–	–	285	295	465	670	420	390	6700	6200
20	300	465	500	–	–	310	315	465	670	450	415	8100	7600
21	320	490	500	–	–	330	335	490	715	470	515	9100	8500
22	340	490	550	–	–	340	345	490	725	490	540	9800	9300

平行轴齿轮箱 Helical Gear Units 三级传动 Three Stage 卧式安装 Horizontal
类型 Types H3.H, H3.M 规格 Sizes 23...26

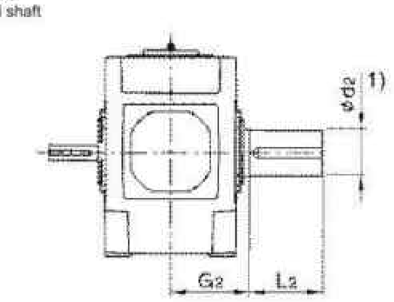
H3SH H3DM

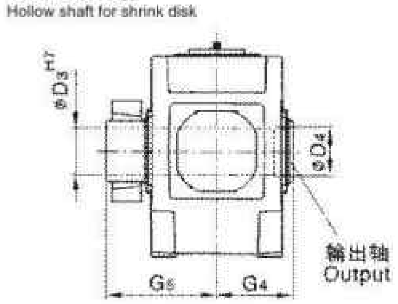


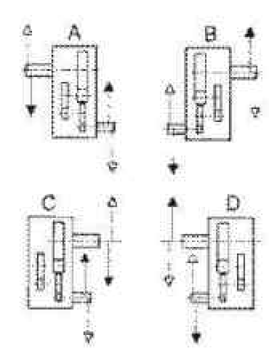
H3DM



★ 输出轴 Output		布置形式 Design
H3SH 实心轴 Solid shaft	H3DH，H3DH 带胀紧盘的空心轴 Hollow shaft for shrink disk	







1) $k_6 \leq \Phi 50$ $m_6 > \Phi 50$
有关平键GB/T1095-1979型和中心孔，参见第98-99页。For parallel key GB/T1095-1979 and for centre hole, see page 98-99.
2) 键槽GB/T1095-1979。Keyway GB/T1095-1979.
3) 扭力支撑位于工作机侧。Torque support on driven machine side.

平行轴齿轮箱 Helical Gear Units 三级传动 There Stage 卧式安装 Horizontal
类型 Types TH3.H, TH3.M 规格 Sizes 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		G1
	d1[1]	l1	d1[1]	l1	d1[1]	l1	d1[1]	l1	d1[1]	l1	d1[1]	l1	
23	130	240			110	205			90	170			510
24			130	240			110	205			90	170	510
25	150	245			130	245			100	210			570
26			150	245			130	245			100	210	570

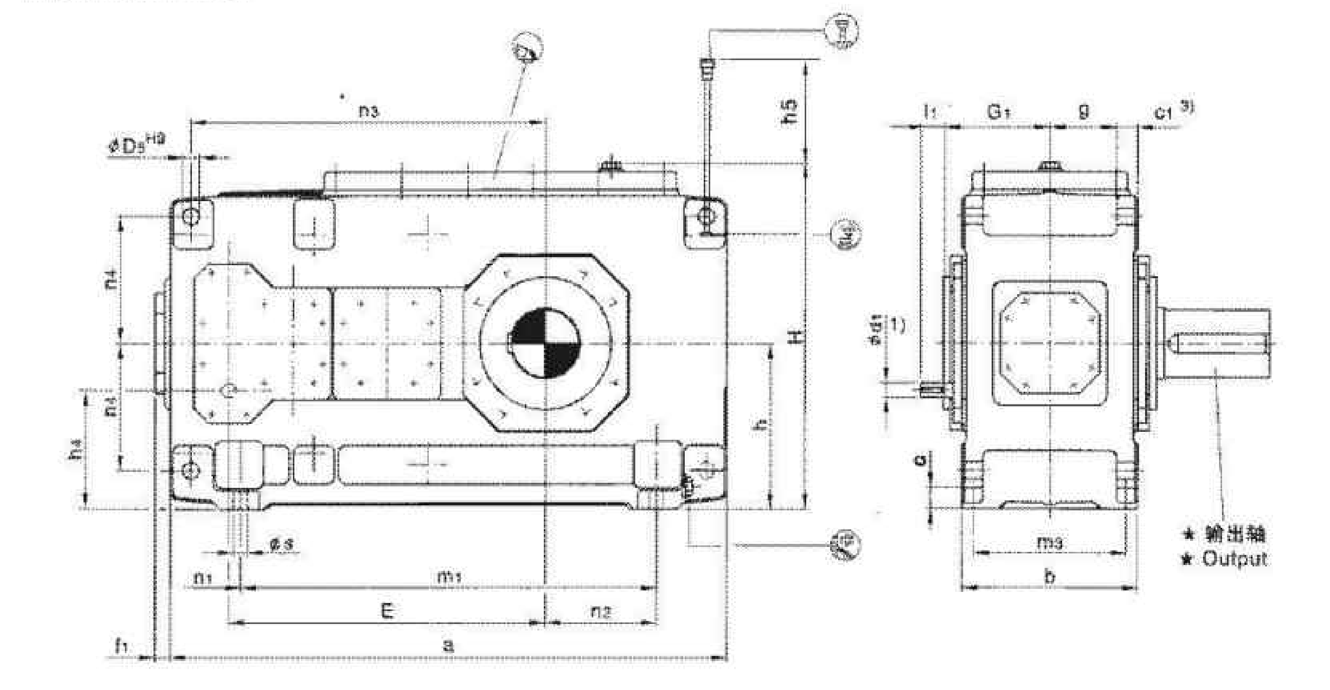
规格 Size	尺寸 mm Dimensions in mm										
	齿轮箱 Gear units										
	a	b	c	c1	D5	e2	E	f1	g	h	h1
23	2530	930	115	120 ± 2	80	730	1505	35	342	780	770
24	2660	930	115	120 ± 2	80	795	1570	35	342	780	770
25	2830	1045	130	120 ± 2	90	790	1695	65	400	860	860
26	3010	1045	130	120 ± 2	90	880	1785	65	400	860	860

规格 Size	尺寸 mm Dimensions in mm									
	齿轮箱 Gear 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	66

规格 Size	尺寸 mm Dimensions in mm							润滑油 Lubrication		重量 Weight	
	输出轴 Output										
	H2SH			H3SH H3SM				H3.H	H3.M	H3.H	H3.M
	D2[1]	G2	L2	D3	D4	G4	G5	(L)	(L)	(kg)	(kg)
23	360	540	590	360	365	540	785	620	690	11500	10600
24	380	540	590	380	365	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

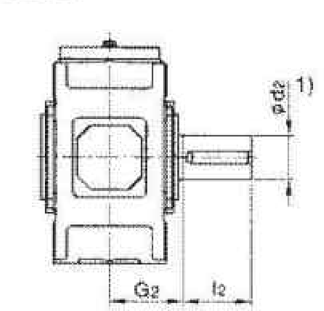
平行轴齿轮箱 Helical Gear Units　四级传动 Four Stage　卧式安装 Horizontal
类型 Types H4.H　规格 Sizes 7...12

H4SH H4HH H4DH

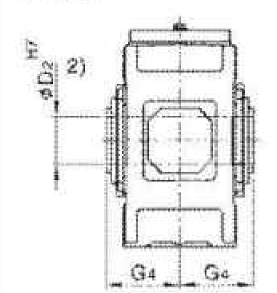


★ 输出轴 Output

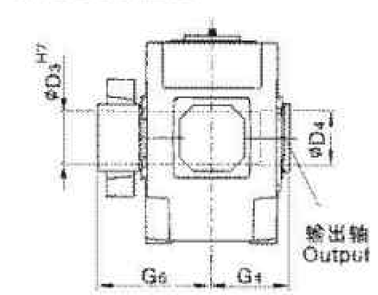
H4SH
实心轴
Solid shaft



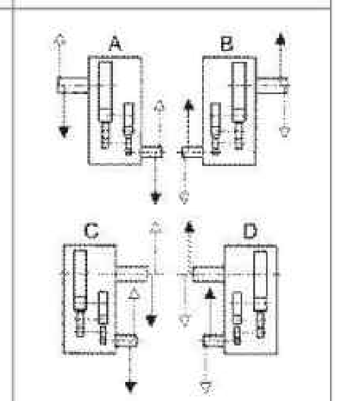
H4HH
空心轴
Hollow shaft



H4DH
带胀紧盘的空心轴
Hollow shaft for shrink disk



布置形式 Design



1) $k_6 \leq \Phi 50$ $m_6 > \Phi 50$
有关平键GB/T1095-1979型和中心孔，参见第98-99页。For parallel key GB/T1095-1979 and for centre hole, see page 98-99.
2) 键槽GB/T1095-1979。Keyway GB/T1095-1979.
3) 扭力支撑位于工作机侧。Torque support on driven machine side.

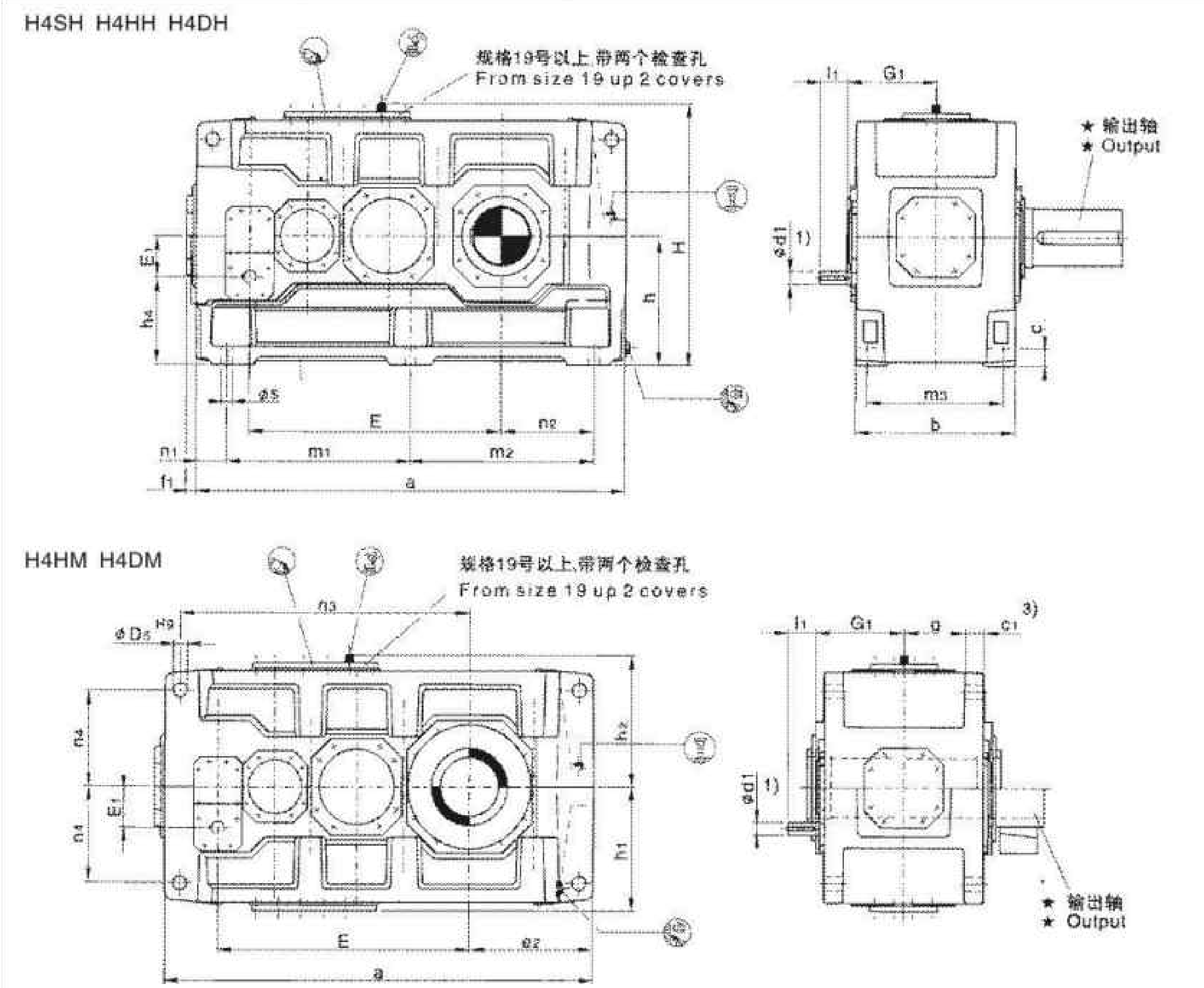
平行轴齿轮箱 Helical Gear Units　四级传动 Four Stage　卧式安装 Horizontal
类型 Types H4.H　规格 Sizes 7...12

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

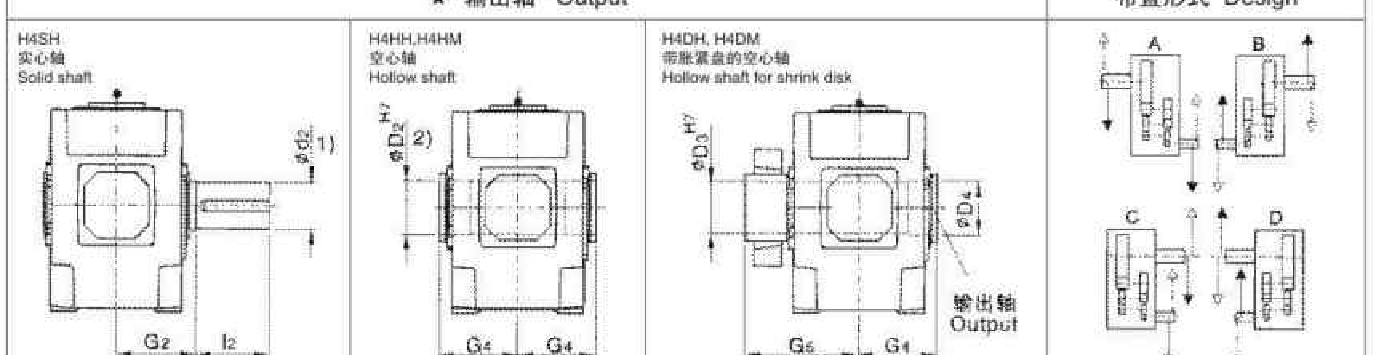
规格 Size	尺寸 mm Dimensions in mm 齿轮箱 Gear units a	b	c	c1	D5	E	f1	g	h	h4	h5	H	m1	m3	n1	n2	n3	n4	s
7	845	300	35	36 ± 1	28	495	37	114	280	200	140	572	605	260	120	130	560	215	24
8	950	300	35	36 ± 1	28	540	37	114	280	200	140	582	710	260	120	190	605	215	24
9	1000	370	40	45 ± 1.5	36	580	43	140	320	230	150	662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

规格 Size	尺寸 mm Dimensions in mm 输出轴 Output H4SH			H4HH		H4DH				润滑油 Lubrication (L)	重量 Weight (kg)
	d2 1)	G2	l2	D2 2)	G4	D3	D4	G4	G5		
7	120	195	210	115	195	120	120	195	280	25	550
8	130	195	250	125	195	130	130	195	285	27	645
9	140	235	250	135	235	140	145	235	330	48	875
10	160	235	300	150	235	150	155	235	350	50	1010
11	170	270	300	165	270	165	170	270	400	80	1460
12	180	270	300	180	270	180	185	270	405	87	1725

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



★ 输出轴 Output　　布置形式 Design



1) $k_6 \le \Phi 50$ $m_6 > \Phi 50$ $m_6 \le 100$ $U_6 > 100$
有关平键GB/T1095-1979型和中心孔，参见第98-99页。For parallel key GB/T1095-1979 and for centre hole, see page 98-99.
2) 键槽GB/T1095-1979。Keyway GB/T1095-1979.
3) 扭力支撑位于工作机侧。Torque support on driven machine side.

H/B工业齿轮箱 GEAR UNITS

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

规格 Size	尺寸 mm Dimensions in mm 输入轴 Input												
	iN=100-180		iN=112-200		iN=125-224		iN=200-355		iN=224-400		iN=250-450		G1
	d1[1)]	l1	d1[1)]	l1	d1[1)]	l1	d1[1)]	l1	d1[1)]	l1	d1[1)]	l1	
13	50	100					38	80					305
14					50	100					38	80	305
15	60	135					50	110					345
16			60	135					50	110			345
17	60	105					50	80					380
18			60	105					50	80			380
19	75	105					60	105					440
20			75	105					60	105			440
21	90	165					70	140					460
22			90	165					70	140			460

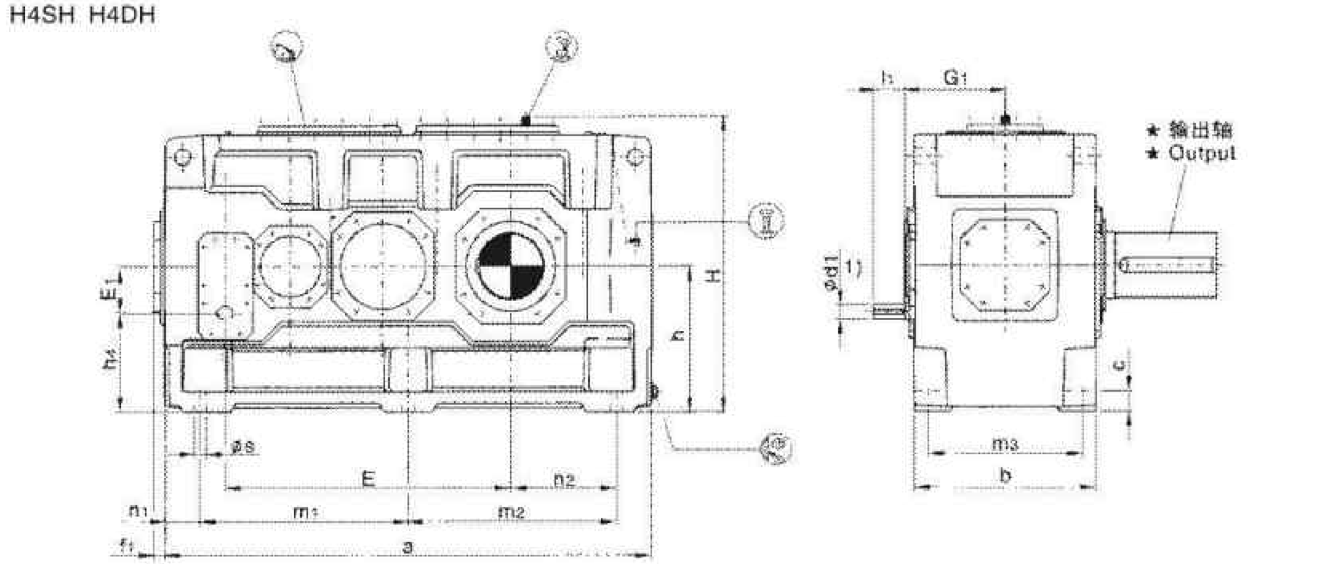
规格 Size	尺寸 mm Dimensions in mm 齿轮箱 Gear units										
	a	b	c	c1	D5	e2	E	E1	f1	g	h
13	1395	550	60	61 ± 2	48	405	820	130	47	211.5	440
14	1535	550	60	61 ± 2	48	475	890	130	47	211.5	440
15	1680	625	70	72 ± 2	55	485	987	160	56	238	500
16	1770	625	70	72 ± 2	55	530	1033	160	56	238	500
17	1770	690	80	81 ± 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	h4	H	m1	m2	m3	n1	n2	n3	n4	s
13	450	460	310	900	597.5	597.5	475	100	305	940	340	35
14	450	460	310	900	597.5	737.5	475	100	375	1010	340	35
15	490	500	340	1000	720	720	535	120	365	1135	375	42
16	490	500	340	1000	720	810	535	120	410	1180	375	42
17	555	560	390	1110	750	750	600	135	390	1175	425	42
18	555	560	390	1110	750	870	600	135	450	1235	425	42
19	615	620	435	1240	860	860	690	155	435	1365	475	48
20	615	620	435	1240	860	980	690	155	495	1425	475	48
21	685	690	475	1390	1000	1000	720	170	485	1615	520	56
22	685	690	475	1390	1000	1110	720	170	540	1670	520	56

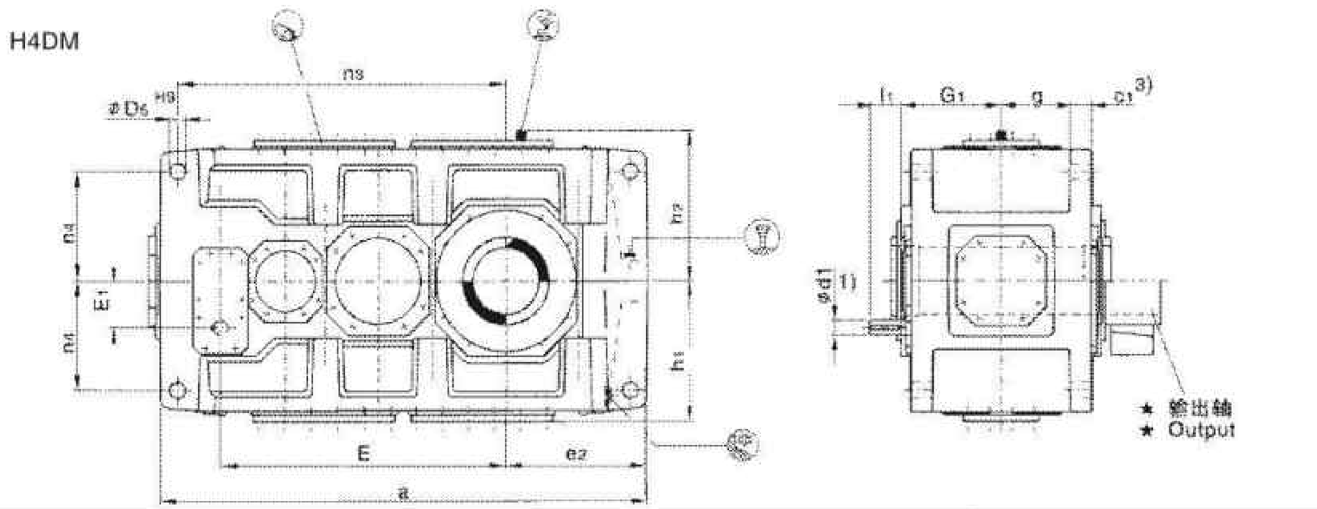
规格 Size	尺寸 mm Dimensions in mm 输出轴 Output									润滑油 Lubrication		重量 Weight	
	H4SH			H4HH	H4HM	H3DH H3DM				H4.H	H4.M	H4.H	H4.M
	d2[1)]	G2	l2	D2[2)]	G4	D3	D4	G4	G5	(L)	(L)	(kg)	(kg)
13	200	335	350	190	335	190	195	335	480	130	120	2390	2270
14	210	335	350	210	335	210	215	335	480	140	125	2730	2600
15	230	380	410	230	380	230	235	380	550	230	170	3635	3440
16	240	380	410	240	380	240	245	380	550	235	175	3965	3740
17	250	415	410	250	415	250	260	415	600	290	225	4680	4445
18	270	415	470	275	415	280	285	415	600	305	230	5685	4915
19	290	465	470	–	–	285	295	465	670	360	310	6800	6300
20	300	465	500	–	–	310	315	465	670	380	330	8200	7700
21	320	490	500	–	–	330	335	490	715	395	430	9200	8600
22	340	490	550	–	–	340	345	490	725	420	450	9900	9400

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

H4SH H4DH

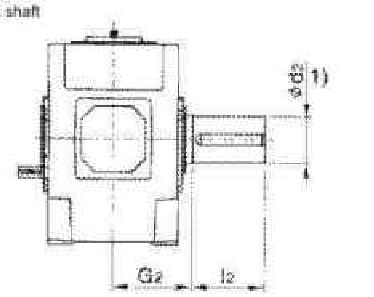


H4DM

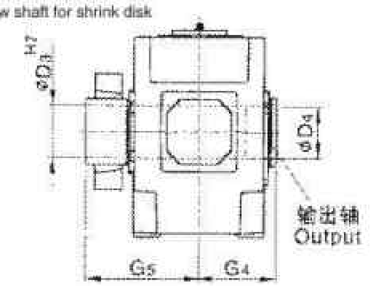


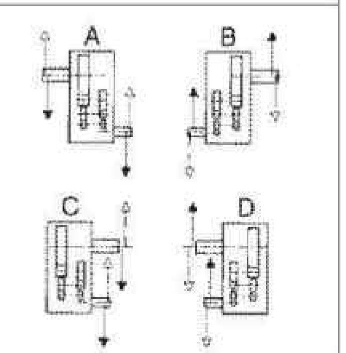
★ 输出轴 Output　　布置形式 Design

H4SH
实心轴
Solid shaft



H4DH, H4DM
带胀紧盘的空心轴
Hollow shaft for shrink disk





1）$k_6 \leq \Phi 50$ $m_6 > \Phi 50$
有关平键GB/T1095-1979型和中心孔，参见第98-99页。For parallel key GB/T1095-1979 and for centre hole, see page 98-99.
2）键槽GB/T1095-1979。Keyway GB/T1095-1979.
3）扭力支撑位于工作机侧。Torque support on driven machine side.

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

规格 Size	尺寸 mm Dimensions in mm								
	输入轴 Input								
	iN=100-180		iN=112-200		iN=200-355		iN=224-400		G1
	d1[1]	l1	d1[1]	l1	d1[1]	l1	d1[1]	l1	
23	90	130			70	105			505
24			90	130			70	105	505
25	100	205			85	170			565
26			100	205			85	170	565

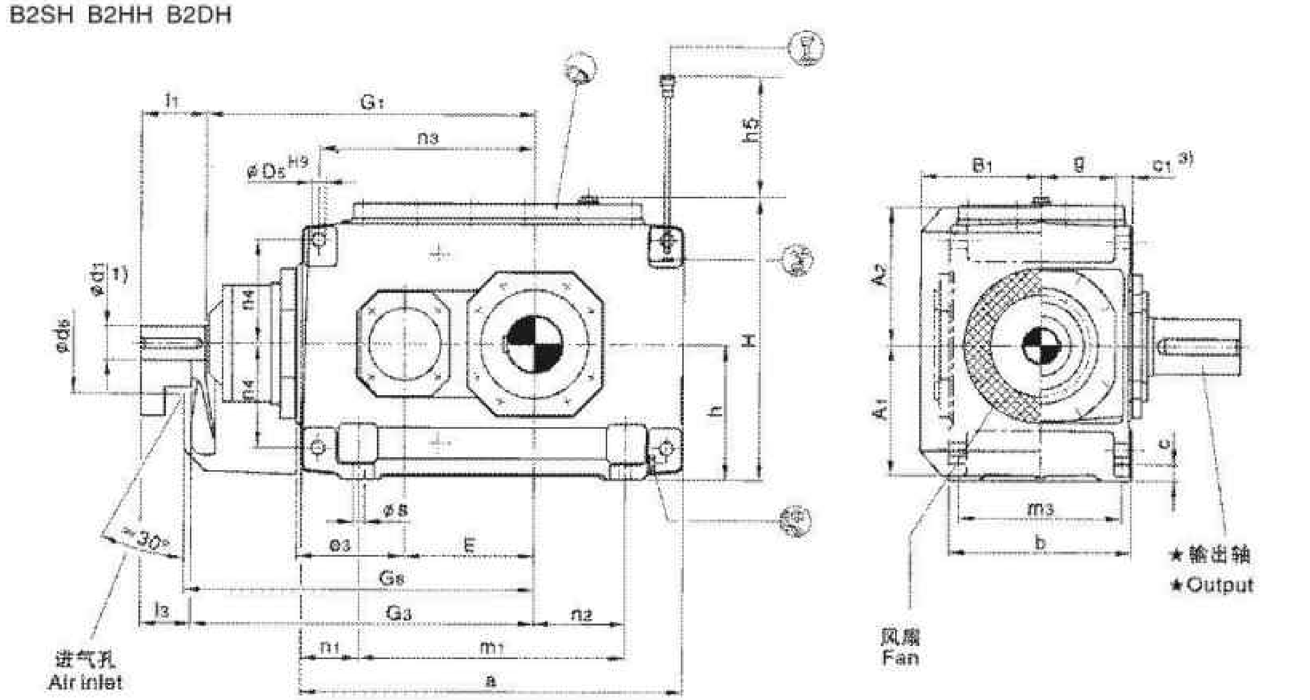
规格 Size	尺寸 mm Dimensions in mm										
	齿轮箱 Gear units										
	a	b	c	c1	D5	e2	E	E1	f1	g	h
23	2530	930	115	120 ± 2	80	730	1505	225	35	342	780
24	2660	930	115	120 ± 2	80	795	1570	225	35	342	780
25	2830	1045	130	120 ± 2	90	790	1695	265	65	400	860
26	3010	1045	130	120 ± 2	90	880	1785	265	65	400	860

规格 Size	尺寸 mm Dimensions in mm											
	齿轮箱 Gear units											
	h1	h2	h4	H	m1	m2	m3	n1	n2	n3	n4	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 Lubrication		重量 Weight	
	输出轴 Output										
	H4SH			H4DH H4DM				H4.H	H4.M	H4.H	H4.M
	d2[1]	G2	l2	D3	D4	G4	G5	(L)	(L)	(kg)	(kg)
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

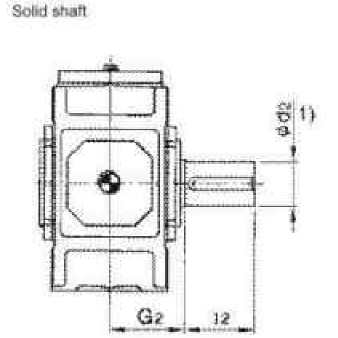
直交轴齿轮箱 Bevel–helical Gear Units　　二级传动 Two Stage　　卧式安装 Horizontal
类型 Types B2.H　　规格 Sizes 1...12

B2SH B2HH B2DH

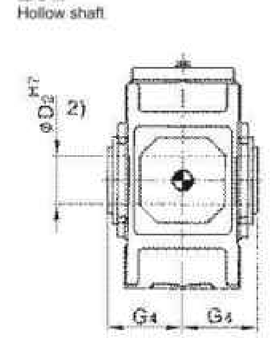


★ 输出轴 Output　　布置形式 Design

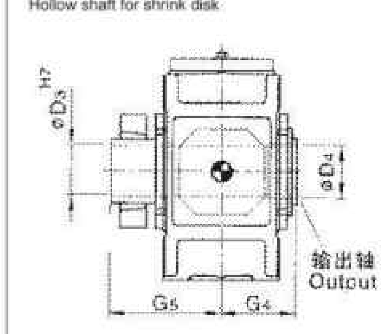
B2SH
实心轴
Solid shaft

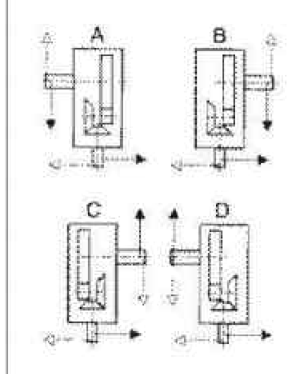


B2HH
空心轴
Hollow shaft



B2DH
带胀紧盘的空心轴
Hollow shaft for shrink disk





1）$k_6 \leq \Phi 50$ $m_6 > \Phi 50$
有关平键GB/T1095-1979型和中心孔，参见第98-99页。For parallel key GB/T1095-1979 and for centre hole, see page 98-99.
2）键槽GB/T1095-1979。Keyway GB/T1095-1979.
3）扭力支撑位于工作机侧。Torque support on driven machine side.

直交轴齿轮箱 Bevel–helical Gear Unit　　二级传动 Two Stage　　卧式安装 Horizontal
类型 Types B2.H　　规格 Sizes 1...12

规格 Size	尺寸 mm Dimensions in mm 输入轴 Input										
	iN=5–11.2			iN=6.3–14			iN=12.5–18			G1	G3
	d1[1]	l1	l3	d1[1]	l1	l3	d1[1]	l1	l3		
1	28	55	40				20	50	35	300	315
2	30	70	50				25	60	40	340	360
3	35	80	60				28	60	40	390	410
4	45	100	80							465	485
5	55	110	80							535	565
6				55	110	80				570	600
7	70	135	105							640	670
8				70	135	105				685	715
9	80	165	130							755	790
10				80	165	130				805	840
11	90	165	130							925	960
12				90	165	130				995	1030

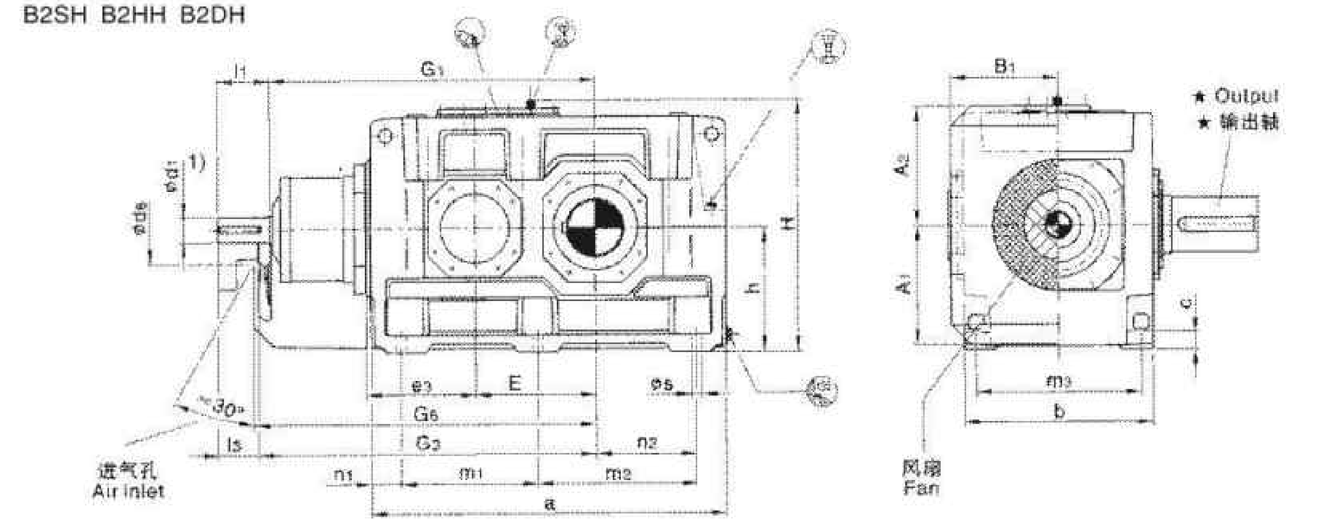
规格 Size	尺寸 mm Dimensions in mm 齿轮箱 Gear units										
	a	A1	A2	b	B1	c	c1	D5	d6	e3	E	g
1	305	125	130	180	128	18	16 ± 1	12	110	90	90	74
2	355	140	145	205	143	18	20 ± 1	14	110	110	110	82.5
3	405	170	170	225	163	22	24 ± 1	18	120	130	130	88.5
4	505	195	200	270	188	28	30 ± 1	24	150	160	160	105
5	565	220	235	320	215	28	30 ± 1	24	160	185	185	130
6	645	220	235	320	215	28	30 ± 1	24	160	185	220	130
7	690	270	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	328	50	54 ± 1.5	40	210	320	320	211
12	1130	370	385	530	328	50	54 ± 1.5	40	210	320	390	211

规格 Size	尺寸 mm Dimensions in mm 齿轮箱 Gear units										
	G6	h	h5	H	m1	m3	n1	n2	n3	n4	s
1	325	130	80	275	185	155	60	70	160	105	12
2	370	145	80	305	225	180	65	75	195	115	12
3	420	175	90	360	245	195	80	85	235	132.5	15
4	495	200	80	415	295	235	105	85	285	150	19
5	575	230	150	482	355	285	105	100	330	180	19
6	610	230	150	482	435	285	105	145	365	180	19
7	685	280	180	582	450	340	120	130	405	215	24
8	730	280	190	582	555	340	120	190	450	215	24
9	805	320	205	662	530	390	145	155	480	245	28
10	855	320	215	662	630	390	145	205	530	245	28
11	980	380	240	790	645	470	165	180	580	300	35
12	1050	380	250	790	800	470	165	265	650	300	35

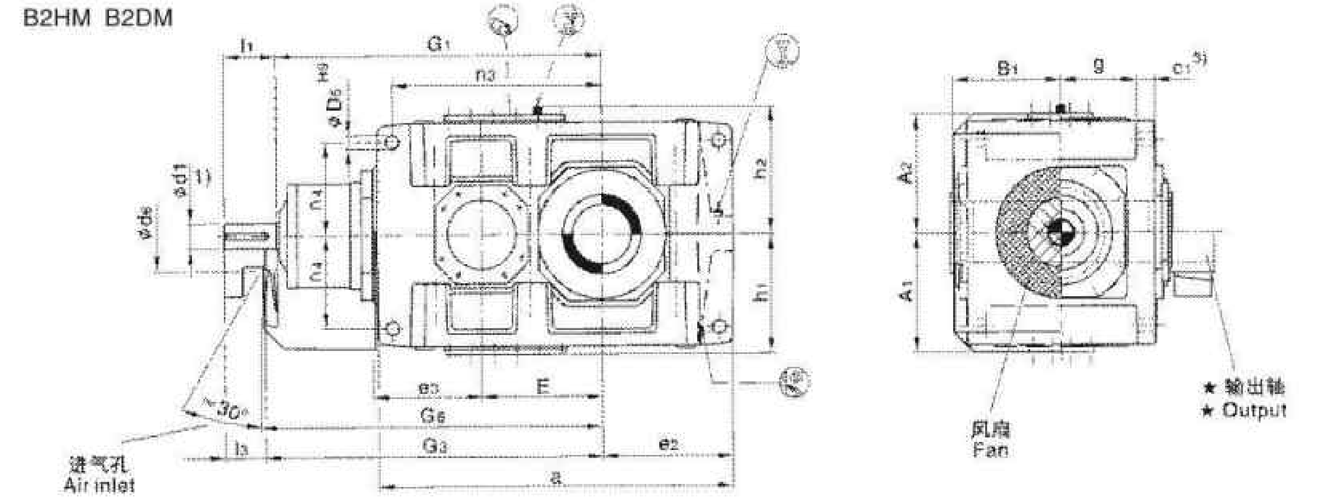
规格 Size	尺寸 mm Dimensions in mm 输出轴 Output									润滑油 Lubrication (L)	重量 Weight (kg)
	B2SH			B2HH		B2DH					
	d2[1]	G2	l2	D2[2]	G4	D3	D4	G4	G5		
1	45	120	80	–	–	–	–	–	–	2	65
2	55	135	110	55	135	60	60	135	180	4	90
3	65	145	140	65	145	70	70	145	200	6	140
4	80	170	170	80	170	85	85	170	235	10	235
5	100	200	210	95	200	100	100	200	275	16	360
6	110	200	210	105	200	110	110	200	275	19	410
7	120	235	210	115	235	120	120	235	320	31	615
8	130	235	250	125	235	130	130	235	325	34	700
9	140	270	250	135	270	140	145	270	365	48	1000
10	160	270	300	150	270	150	155	270	385	50	1155
11	170	320	300	165	320	165	170	320	450	80	1640
12	180	320	300	180	320	180	185	320	455	95	1910

直交轴齿轮箱 Bevel–helical Gear Units　二级传动 Two Stage　卧式安装 Horizontal
类型 Types B2.H, B2.M　规格 Sizes 13...18

B2SH B2HH B2DH

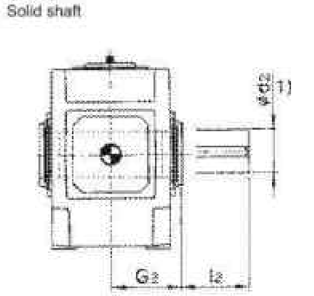


B2HM B2DM

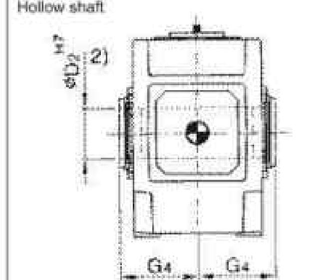


★ 输出轴 Output　　布置形式 Design

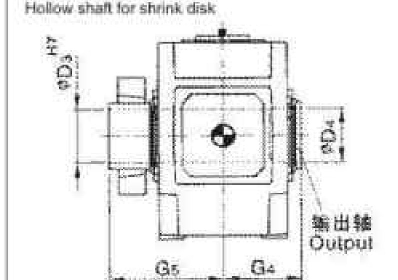
B2SH
实心轴
Solid shaft

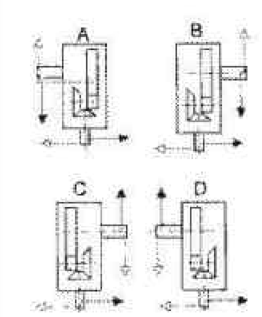


B2HH B2HM
空心轴
Hollow shaft



B2DH B2DM
带胀紧盘的空心轴
Hollow shaft for shrink disk





1）$k_6 \le \Phi 50$　$m_6 > \Phi 50$
有关平键GB/T1095–1979型和中心孔，参见第98–99页。For parallel key GB/T1095–1979 and for centre hole, see page 98–99.
2）键槽GB/T1095–1979。Keyway GB/T1095–1979.
3）扭力支撑位于工作机侧。Torque support on driven machine side.

H/B工业齿轮箱 GEAR UNITS

直交轴齿轮箱 Bevel–helical Gear Units　二级传动 Two Stage　卧式安装 Horizontal
类型 Types B2.H, B2.M　规格 Sizes 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			G1	G3
	d1[1]	l1	l3	d1[1]	l1	l3	d1[1]	l1	l3	d1[1]	l1	l3	d1[1]	l1	l3		
13	110	205	165													1070	1110
14										110	205	165				1140	1180
15	130	245	200													1277	1322
16							130	245	200							1323	1368
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	A1	A2	b	B1	c	c1	d6	D5	e2	e3	E	g
13	1130	430	450	655	375	60	61 ± 2	245	48	405	380	370	264
14	1270	430	450	655	375	60	61 ± 2	245	48	475	380	440	264
15	1350	490	495	765	435	70	72 ± 2	280	55	485	450	442	308
16	1440	490	495	765	435	70	72 ± 2	280	55	530	450	488	308
17	1490	540	555	885	505	80	81 ± 2	380	65	525	510	490	356
18	1610	540	555	885	505	80	81 ± 2	380	65	585	510	550	356

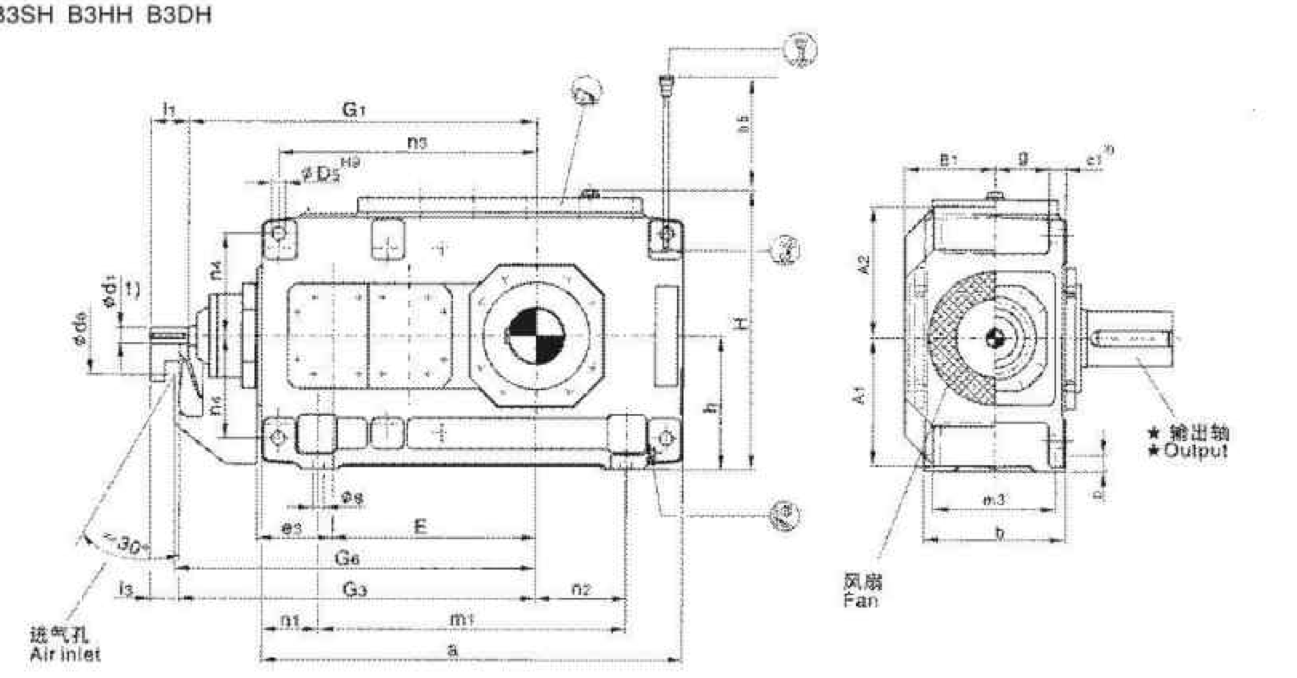
规格 Size	尺寸 mm Dimensions in mm — 齿轮箱 Gear units												
	G6	h	h1	h2	H	m1	m2	m3	n1	n2	n3	n4	s
13	1130	440	450	460	900	465	465	580	100	305	675	340	35
14	1200	440	450	460	900	465	605	580	100	375	745	340	35
15	1340	500	490	500	1000	555	555	670	120	365	805	375	42
16	1385	500	490	500	1000	555	645	670	120	410	850	375	42
17	1500	550	555	560	1110	610	610	780	135	390	895	420	48
18	1560	550	555	560	1110	610	730	780	135	450	955	420	48

规格 Size	尺寸 mm Dimensions in mm — 输出轴 Output									润滑油 Lubrication		重量 Weight (kg)	
	B2SH			B2HH B2HM		B2DH B2DM				B2.H	B2.M		
	d2[1]	G2	l2	D2[2]	G4	D3	D4	G4	G5	轴封（L） Shaft seal			
13	200	390	350	–	–	–	–	–	–	140	120	2450	2350
14	210	390	350	210	390	210	215	390	535	155	130	2825	2725
15	230	460	410	–	–	–	–	–	–	220	180	3990	3795
16	240	460	410	240	450	240	245	450	620	230	190	4345	4160
17	250	540	410	–	–	–	–	–	–	320	260	5620	5320
18	270	540	470	275	510	280	285	510	700	335	275	6150	5860

直交轴齿轮箱 Bevel–helical Gear Units 三级传动 Three Stage 卧式安装 Horizontal

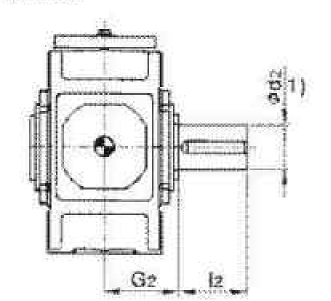
类型 Types B3.H 规格 Sizes 3...12

B3SH B3HH B3DH

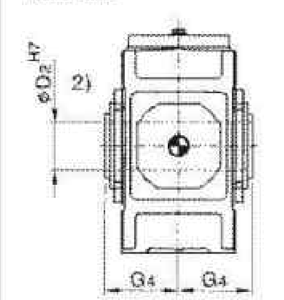


★ 输出轴 Output			布置形式 Design

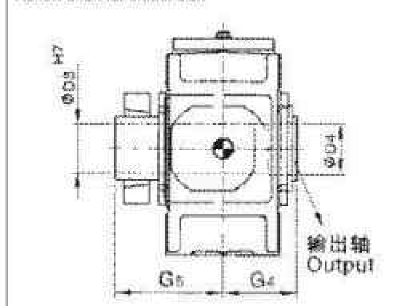
B3SH
实心轴
Solid shaft

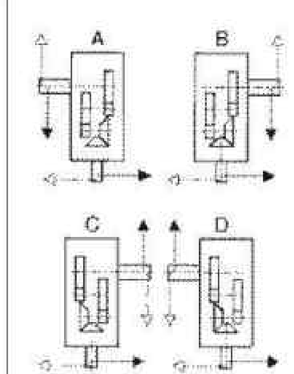


B3HH
空心轴
Hollow shaft



B3DH
带胀紧盘的空心轴
Hollow shaft for shrink disk





1）$k_6 \leq \Phi 50$ $m_6 > \Phi 50$
有关平键GB/T1095–1979型和中心孔，参见第98–99页。For parallel key GB/T1095–1979 and for centre hole, see page 98–99.
2）键槽GB/T1095–1979。Keyway GB/T1095–1979.
3）扭力支撑位于工作机侧。Torque support on driven machine side.

H/B工业齿轮箱 GEAR UNITS

直交轴齿轮箱 Bevel–helical Gear Units 三级传动 Three Stage 卧式安装 Horizontal

类型 Types B3.H 规格 Sizes 3...12

规格 Size	尺寸 mm Dimensions in mm 输入轴 Input																
	iN=12.5–45			iN=16–56			iN=20–45			iN=50–71			iN=63–90			G1	G3
	d1 [1]	l1	l3	d1 [1]	l1	l3	d1 [1]	l1	l3	d1 [1]	l1	l3	d1 [1]	l1	l3		
3							28	55	40	20	50	35				430	445
4	30	70	50							25	60	40				500	520
5	35	80	60							28	60	40				575	595
6				35	80	60							28	60	40	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

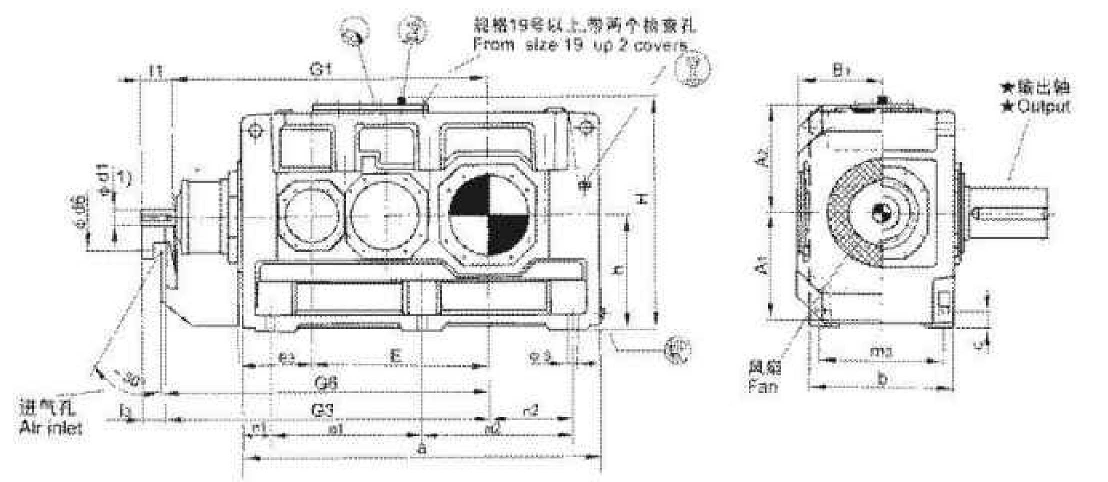
规格 Size	尺寸 mm Dimensions in mm 齿轮箱 Gear units										
	a	A1	A2	b	B1	c	c1	d6	D5	e3	E	g
3	450	170	170	190	128	22	24 ± 1	90	18	90	220	71
4	565	195	200	215	143	28	30 ± 1	110	24	110	270	77.5
5	640	220	235	255	168	28	30 ± 1	130	24	130	315	97.5
6	720	220	235	255	168	28	30 ± 1	130	24	130	350	97.5
7	785	275	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										
	G6	h	h5	H	m1	m3	n1	n2	n3	n4	s
3	455	175	100	360	290	160	80	65	285	132.5	15
4	530	200	100	415	355	180	105	85	345	150	19
5	605	230	130	482	430	220	105	100	405	180	19
6	640	230	130	482	510	220	105	145	440	180	19
7	720	280	170	572	545	260	120	130	500	215	24
8	765	280	160	582	650	260	120	190	545	215	24
9	845	320	175	662	635	320	145	155	585	245	28
10	895	320	175	662	735	320	145	205	635	245	28
11	1010	380	220	782	775	370	165	180	710	300	35
12	1080	380	210	790	930	370	165	265	780	300	35

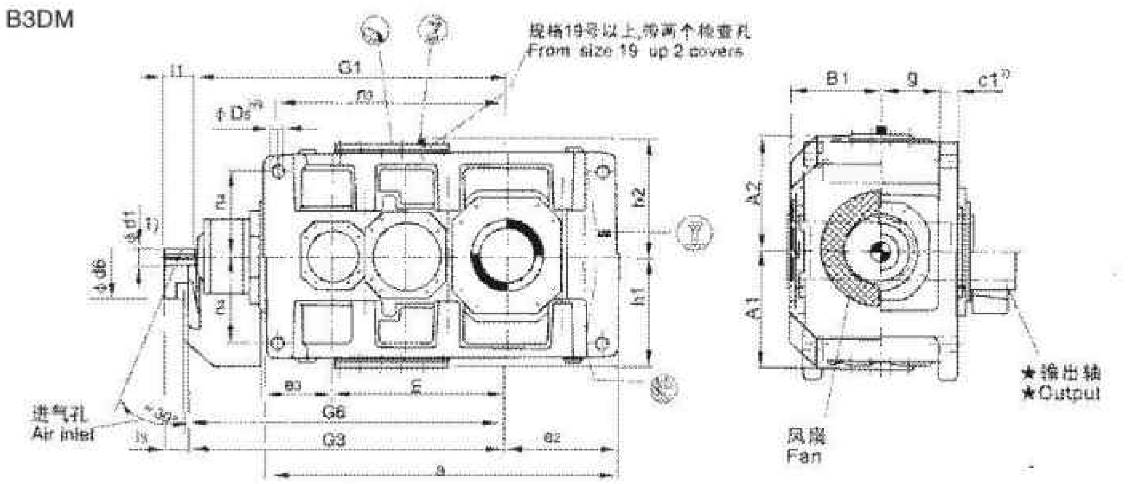
规格 Size	尺寸 mm Dimensions in mm 输出轴 Output									润滑油 Lubrication (L)	重量 Weight (kg)
	B3SH			B3HH		B3DH					
	d2 [1]	G2	l2	D2 [2]	G4	D3	D4	G4	G5		
3	65	125	140	65	125	70	70	125	180	6	130
4	80	140	170	80	140	85	85	140	205	9	210
5	100	165	210	95	165	100	100	165	240	14	325
6	110	165	210	105	165	110	110	165	240	15	380
7	120	195	210	115	195	120	120	195	280	25	550
8	130	195	250	125	195	130	130	195	285	28	635
9	140	235	250	135	235	140	145	235	330	40	890
10	160	235	300	150	235	150	155	235	350	42	1020
11	170	270	300	165	270	165	170	270	400	66	1455
12	180	270	300	185	270	180	185	270	405	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 Types B3.H B3.M 规格 Sizes 13...22

B3SH B3HH B3DH

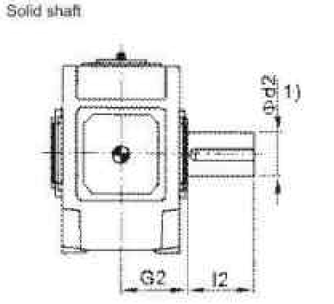


B3HM B3DM

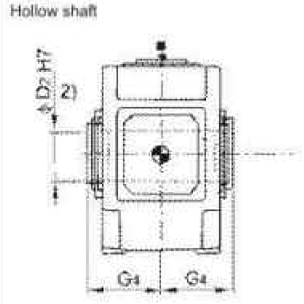


★ 输出轴 Output

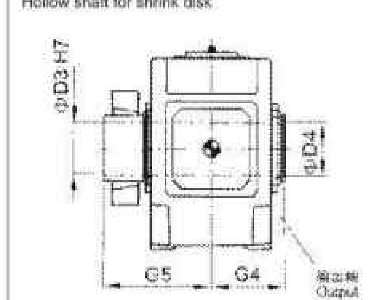
B3SH
实心轴
Solid shaft



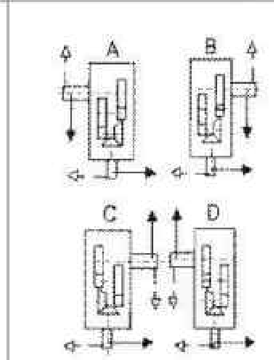
B3HH,B3HM
空心轴
Hollow shaft



B3DH,B3DM
带胀紧盘的空心轴
Hollow shaft for shrink disk



布置形式 Design



1) $k_6 \le \Phi50$ $m_6 > \Phi50$
有关平键GB/T1095-1979型和中心孔，参见第98-99页。For parallel key GB/T1095-1979 and for centre hole, see page 98-99.
2) 键槽GB/T1095-1979。Keyway GB/T1095-1979.
3) 扭力支撑位于工作机侧。Torque support on driven machine side.

直交轴齿轮箱 Bevel–helical Gear Units 三级传动 Three Stage 卧式安装 Horizontal
类型 Types B3.H B3.M 规格 Sizes 13...22

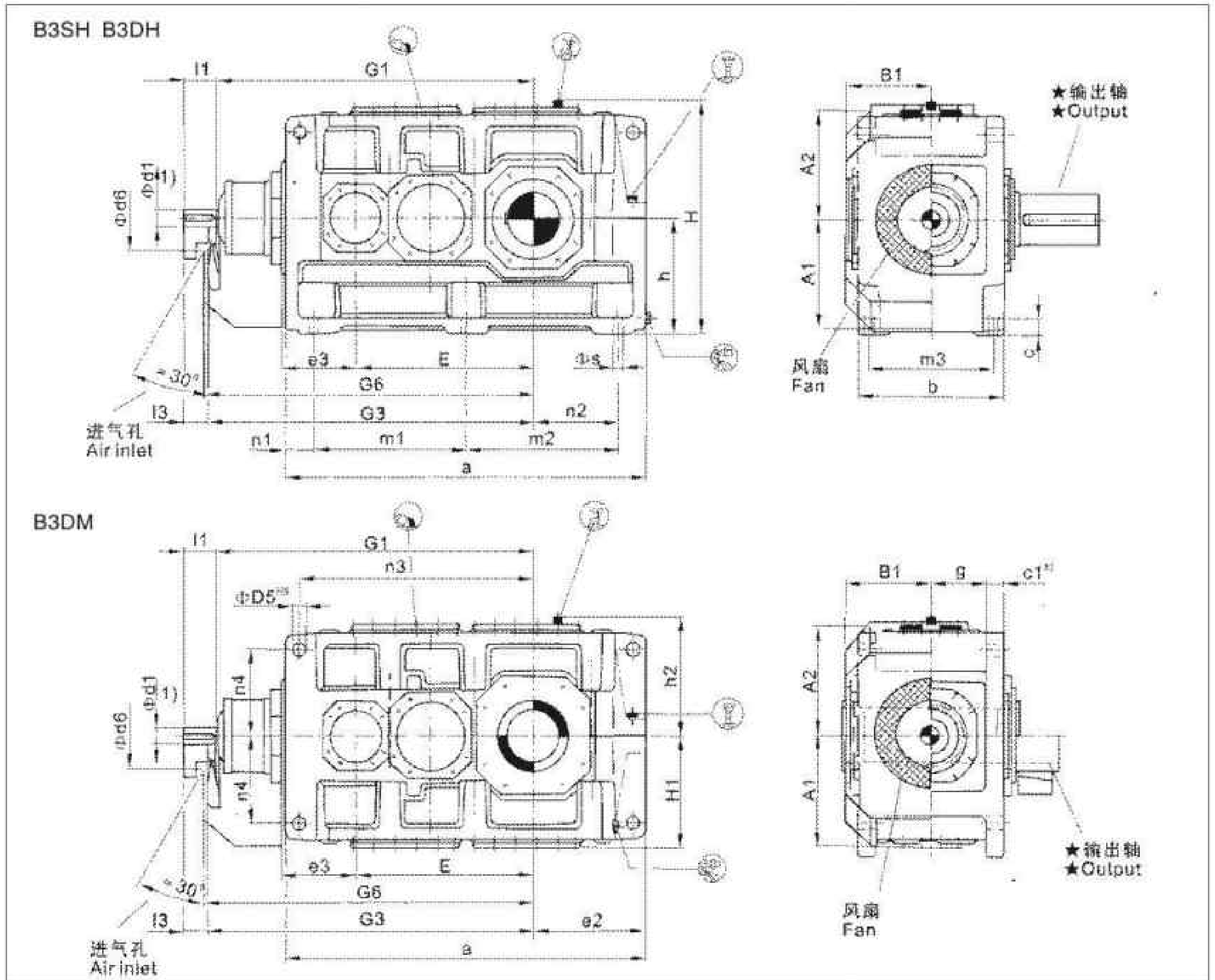
规格 Size	尺寸 mm Dimensions in mm																			
	输入轴 Input																			
	iN=12.5–45			iN=14–50			iN=16–56			iN=50–71			iN=56–80			iN=63–90			G1	G3
	d1[1]	l1	l3	d1[1]	l1	l3	d1[1]	l1	l3	d1[1]	l1	l3	d1[1]	l1	l3	d1[1]	l1	l3		
13	80	165	130							60	140	105							1125	1160
14							80	165	130							60	140	105	1195	1203
15	90	165	130							70	140	105							1367	1402
16				90	165	130							70	140	105				1413	1448
17	110	205	165							80	170	130							1560	1600
18				110	205	165							80	170	130				1620	1660
19	130	245	200							100	210	165							1832	1877
20				130	245	200							100	210	165				1892	1937
21	130	245	200							100	210	165							1902	1947
22				130	245	200							100	210	165				1957	2002

规格 Size	尺寸 mm Dimensions in mm												
	齿轮箱 Gear units												
	a	A1	A2	b	B1	c	c1	d6	D5	e2	e3	E	g
13	1290	425	435	550	325	60	61 ± 2	210	48	405	265	635	211.5
14	1430	425	435	550	325	60	61 ± 2	210	48	475	265	705	211.5
15	1550	485	520	625	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	420	997	299
20	2130	610	630	790	448	90	91 ± 2	245	65	650	420	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

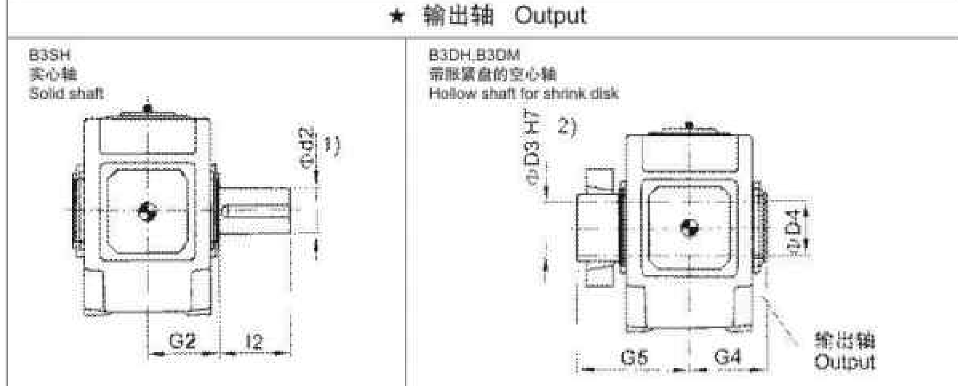
规格 Size	尺寸 mm Dimensions in mm												
	齿轮箱 Gear units												
	G6	h	h1	h2	H	m1	m2	m3	n1	n2	n3	n4	s
13	1180	440	450	460	900	545	545	475	100	305	835	340	35
14	1250	440	450	460	900	545	685	475	100	375	905	340	35
15	1420	500	490	500	1000	655	655	535	120	365	1005	375	42
16	1470	500	490	500	1000	655	745	535	120	410	1050	375	42
17	1620	550	555	560	1110	735	735	600	135	390	1145	425	42
18	1680	550	555	560	1110	735	855	600	135	450	1205	425	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

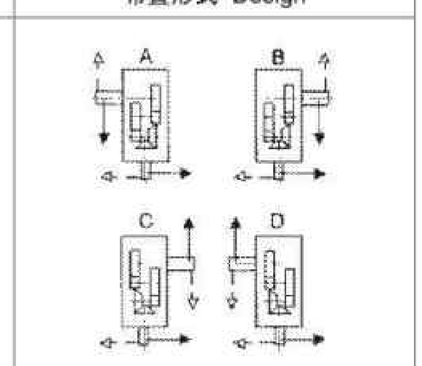
规格 Size	尺寸 mm Dimensions in mm									润滑油 Lubrication		重量 Weight	
	输出轴 Output												
	B3SH			B3HH B3HM		B3DH B3DM				B3.H	B3.M	B3.H	B3.M
	d2[1]	G2	l2	D2[2]	G4	D3	D4	G4	G5	(L)	(L)	(kg)	(kg)
13	200	335	350	190	335	190	195	335	480	130	10	2380	2260
14	210	335	350	210	335	210	215	335	480	140	115	2750	2615
15	230	380	410	230	380	230	235	380	550	210	160	3730	3540
16	240	380	410	240	380	240	245	380	550	220	165	3955	3765
17	250	415	410	250	415	250	260	415	600	290	230	4990	4760
18	270	415	470	275	415	280	285	415	600	300	235	5495	5240
19	290	465	470			285	295	465	670	380	360	7000	6500
20	300	465	500			310	315	465	670	440	420	8100	7600
21	320	490	500			330	335	490	715	370	420	9200	8600
22	340	490	550			340	345	490	725	430	490	9900	9400

直交轴齿轮箱 Bevel–helical Gear Units　三级传动 Three Stage　卧式安装 Horizontal
类型 Types B3.H B3.M　规格 Sizes 23...26



★ 输出轴 Output	布置形式 Design





1）$k_6 \leq \Phi 50$　$m_6 > \Phi 50$
有关平键GB/T1095–1979型和中心孔，参见第98–99页。For parallel key GB/T1095–1979 and for centre hole, see page 98–99.
2）键槽GB/T1095–1979。Keyway GB/T1095–1979.
3）扭力支撑位于工作机侧。Torque support on driven machine side.

直交轴齿轮箱 Bevel–helical Gear Units　三级传动 Three Stage　卧式安装 Horizontal
类型 Types B3.H B3.M　规格 Sizes 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			G1	G3
	d1 1)	l1	l3	d1 1)	l1	l3	d1 1)	l1	l3	d1 1)	l1	l3		
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

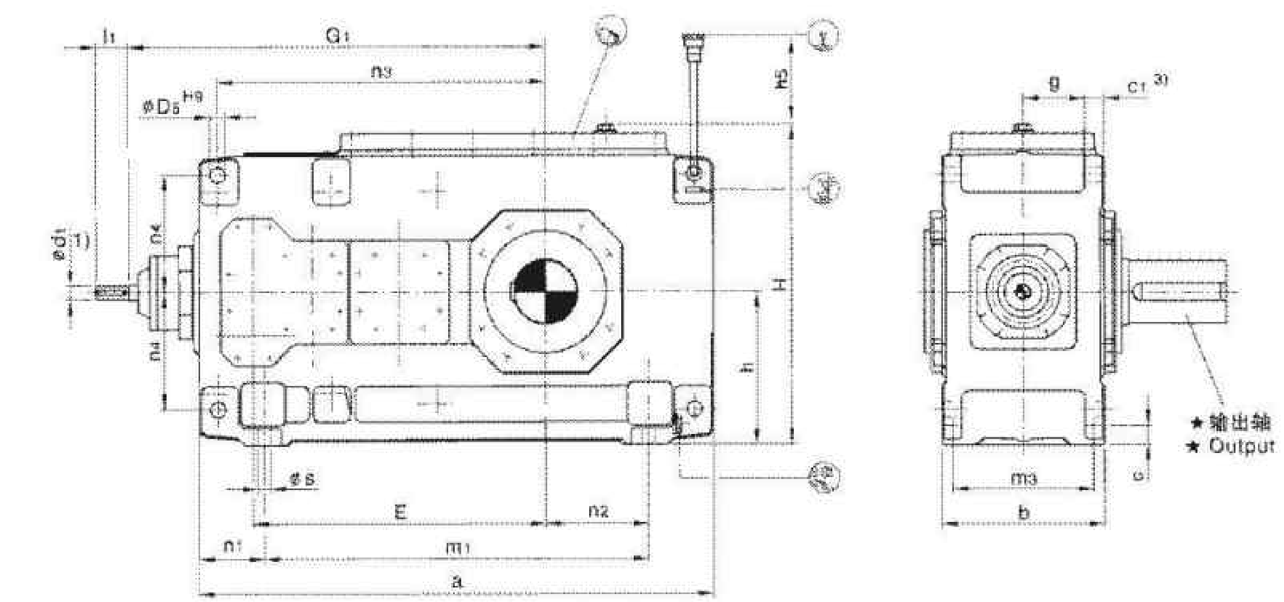
规格 Size	尺寸 mm Dimensions in mm 齿轮箱 Gear units												
	a	A1	A2	b	B1	c	c1	d6	D5	e2	e3	E	g
23	2380	770	770	930	528	115	120 ± 2	350	80	730	490	1185	342
24	2510	770	770	930	528	115	120 ± 2	350	80	795	490	1250	342
25	2580	845	865	1045	585	130	120 ± 2	380	90	790	490	1325	400
26	2760	845	865	1045	585	130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

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

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

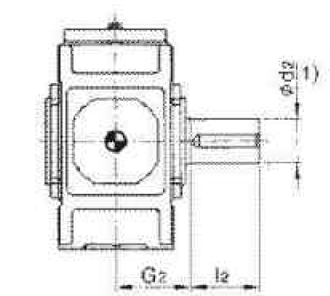
直交轴齿轮箱 Bevel–helical Gear Units　四级传动 Four Stage　卧式安装 Horizontal
类型 Types B4.H　规格 Sizes 5...12

B4SH B4HH B4DH

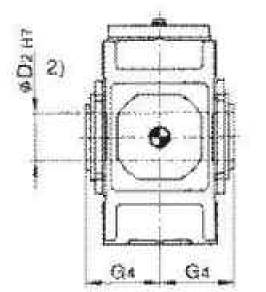


★ 输出轴 Output　　布置形式 Design

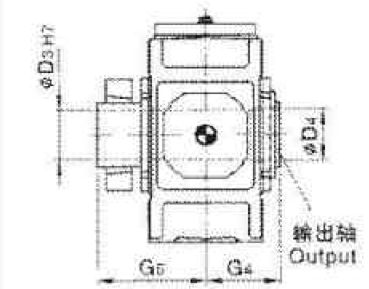
B4SH
实心轴
Solid shaft

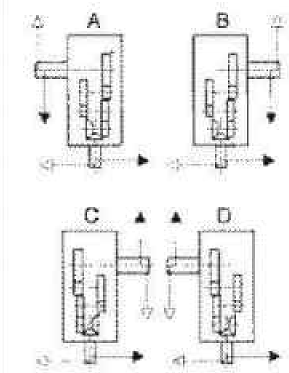


B4HH
空心轴
Hollow shaft



B4DH
带胀紧盘的空心轴
Hollow shaft for shrink disk





1) $k_6 \leq \Phi 50$　$m_6 > \Phi 50$
有关平键GB/T1095-1979型和中心孔，参见第98-99页。For parallel key GB/T1095~1979 and for centre hole, see page 98-99.
2) 键槽GB/T1095-1979。Keyway GB/T1095-1979.
3) 扭力支撑位于工作机侧。Torque support on driven machine side.

H/B工业齿轮箱 GEAR UNITS

直交轴齿轮箱 Bevel–helical Gear Units　四级传动 Four Stage　卧式安装 Horizontal
类型 Types B4.H　规格 Sizes 5...12

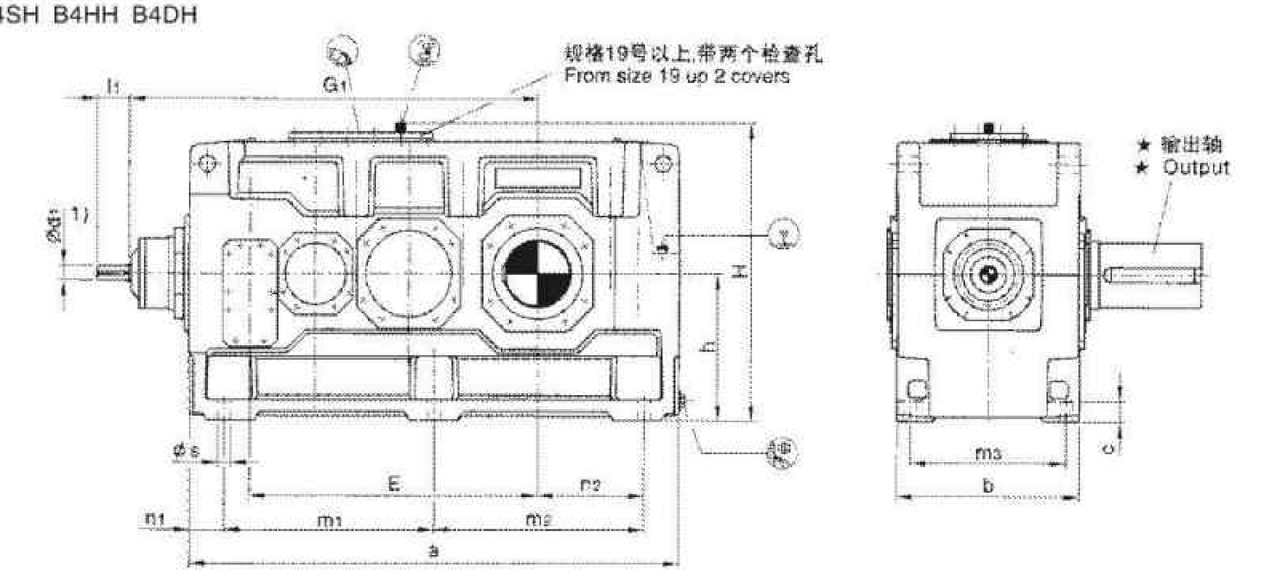
规格 Size	尺寸 mm Dimensions in mm								
	输入轴 Input								
	iN=80–180		iN=100–224		iN=200–315		iN=250–400		G1
	d1 1)	l1	d1 1)	l1	d1 1)	l1	d1 1)	l1	
5	28	55			20	50			615
6			28	55			20	50	650
7	30	70			25	60			725
8			30	70			25	60	770
9	35	80			28	60			840
10			35	80			28	60	890
11	45	100			35	80			1010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

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

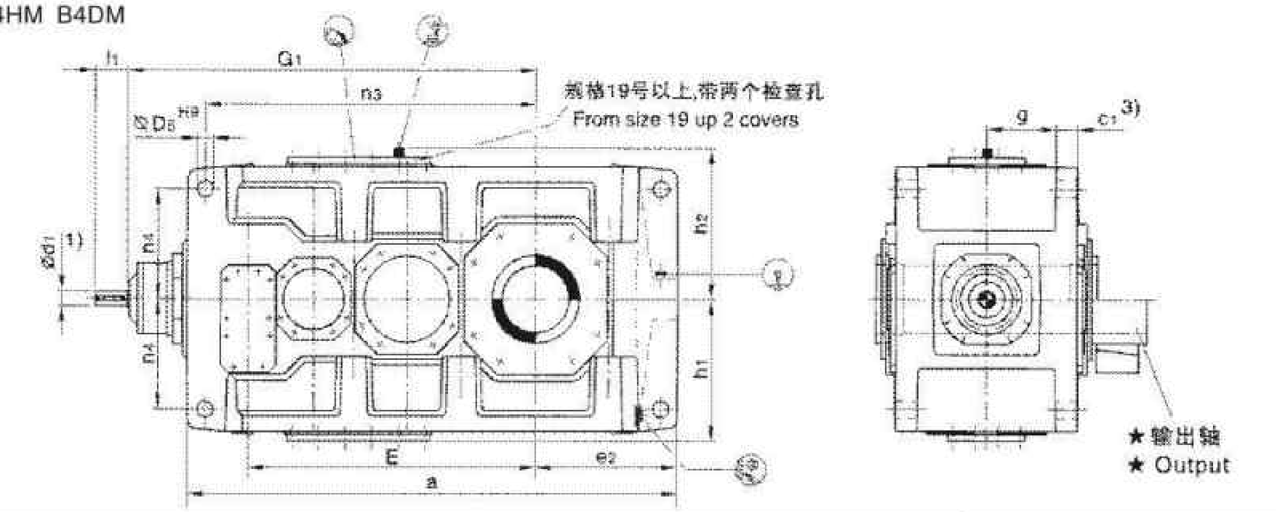
规格 Size	尺寸 mm Dimensions in mm									润滑油 Lubrication (L)	重量 Weight (kg)
	输出轴 Output										
	B4SH			B4HH		B4DH					
	d2 1)	G2	l2	D2 2)	G4	D3	D4	G4	G5		
5	100	165	210	95	165	100	100	165	240	16	335
6	110	165	210	105	165	110	110	165	240	18	385
7	120	195	210	115	195	120	120	195	280	30	555
8	130	195	250	125	195	130	130	195	285	33	655
9	140	235	250	135	235	140	145	235	330	48	890
10	160	235	300	150	235	150	155	235	350	50	1025
11	170	270	300	165	270	165	170	270	400	80	1485
12	180	270	300	180	270	180	185	270	405	90	1750

直交轴齿轮箱 Bevel–helical Gear Units　四级传动 Four Stage　卧式安装 Horizontal
类型 Types B4.H B4.M　规格 Sizes 13...22

B4SH B4HH B4DH

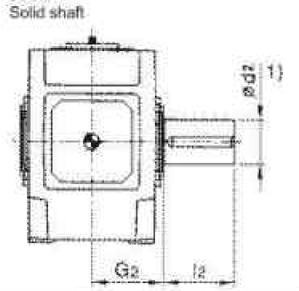


B4HM B4DM

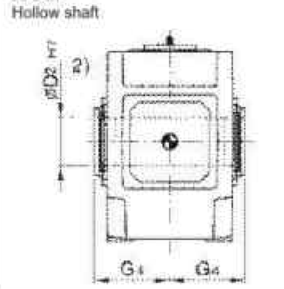


★ 输出轴 Output

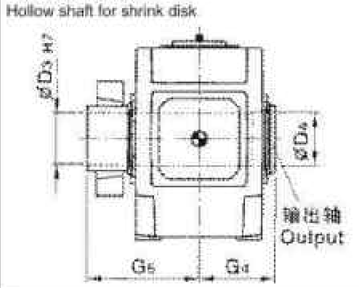
B4SH
实心轴
Solid shaft



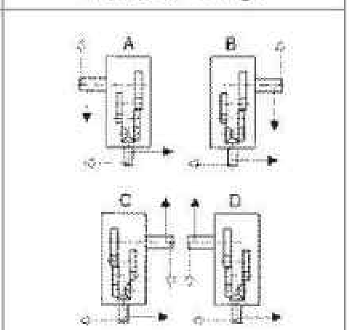
B4HH B4HM
空心轴
Hollow shaft



B4DH,B4DM
带胀紧盘的空心轴
Hollow shaft for shrink disk



布置形式 Design



1) $k_6 \leqslant \Phi 50$ $m_6 > \Phi 50$
有关平键GB/T1095–1979型和中心孔，参见第98–99页。For parallel key GB/T1095–1979 and for centre hole, see page 98–99.
2) 键槽GB/T1095–1979。Keyway GB/T1095–1979.
3) 扭力支撑位于工作机侧。Torque support on driven machine side.

直交轴齿轮箱 Bevel–helical Gear Units　四级传动 Four Stage　卧式安装 Horizontal
类型 Types B4.H B4.M　规格 Sizes 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		G1
	d1[1]	l1	d1[1]	l1	d1[1]	l1	d1[1]	l1	d1[1]	l1	d1[1]	l1	
13	55	110					40	100					1170
14					55	110					40	100	1240
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					60	140			1740
21	90	165					70	140					1992
22			90	165					70	140			2047

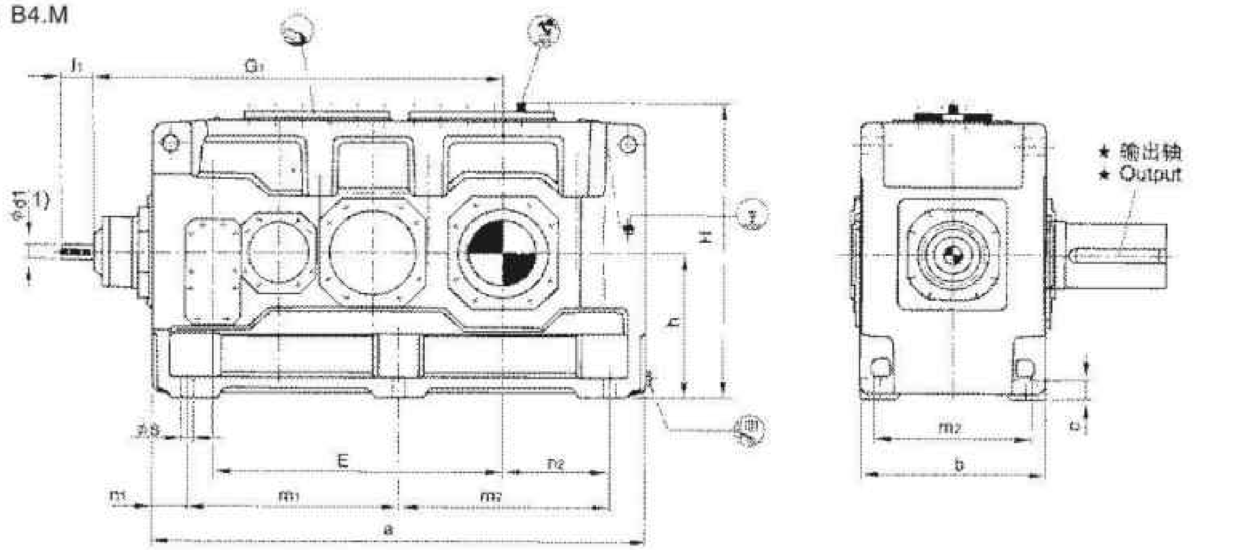
规格 Size	尺寸 mm Dimensions in mm									
	齿轮箱 Gear units									
	a	b	c	c1	D5	e2	E	g	h	h1
13	1395	550	60	61 ± 2	48	405	820	211.5	440	450
14	1535	550	60	61 ± 2	48	475	890	211.5	440	450
15	1680	625	70	72 ± 2	55	485	987	238	500	490
16	1770	625	70	72 ± 2	55	530	1033	238	500	490
17	1770	690	80	81 ± 2	55	525	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	1250	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									
	h2	H	m1	m2	m3	n1	n2	n3	n4	s
13	460	900	597.5	597.5	475	100	305	940	340	35
14	460	900	597.5	737.5	475	100	375	1010	340	35
15	500	1000	720	720	535	120	365	1135	375	42
16	500	1000	720	810	535	120	410	1180	375	42
17	560	1110	750	750	600	135	390	1175	425	42
18	560	1110	750	870	600	135	450	1235	425	42
19	620	1240	860	860	690	155	435	1365	475	48
20	620	1240	860	980	690	155	495	1425	475	48
21	690	1390	1000	1000	720	170	485	1615	520	56
22	690	1390	1000	1110	720	170	540	1670	520	56

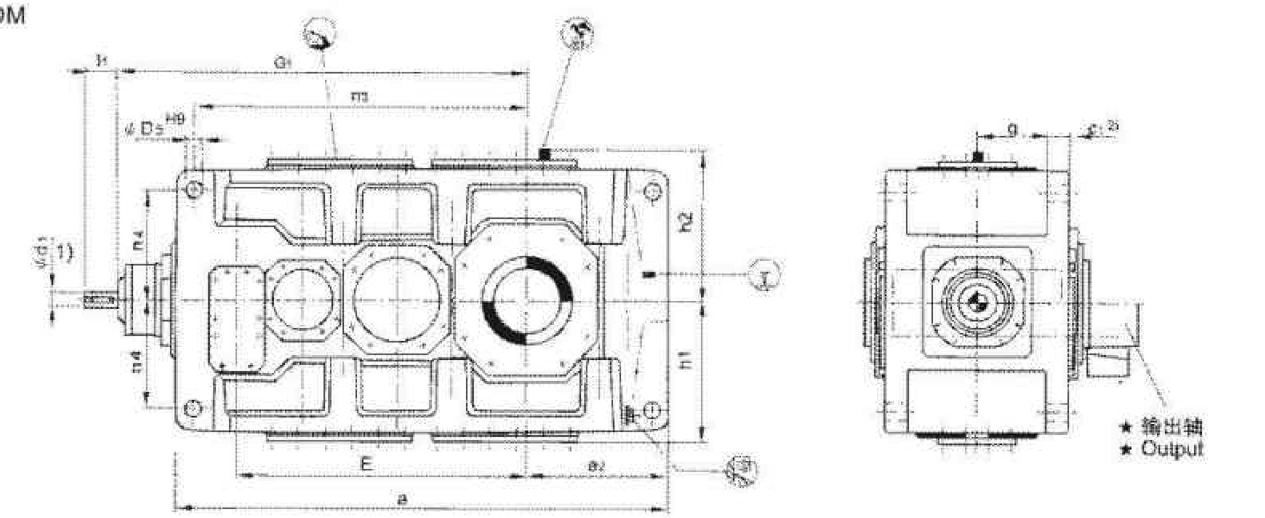
规格 Size	尺寸 mm Dimensions in mm									润滑油 Lubrication		重量 Weight	
	输出轴 Output												
	B4SH			B4HH B4HM		B4DH B4DM				B4.H	B4.M	B4.H	B4.M
	d2[1]	G2	l2	D2[2]	G4	D3	D4	G4	G5	(L)	(L)	(kg)	(kg)
13	200	335	350	190	335	190	195	335	480	145	120	2395	2280
14	210	335	350	210	335	210	215	335	480	150	125	2735	2605
15	230	380	410	230	380	230	235	380	550	230	170	3630	3435
16	240	380	410	240	380	240	245	380	550	235	175	3985	3765
17	250	415	410	250	415	250	260	415	600	295	230	4695	4460
18	270	415	470	275	415	280	285	415	600	305	235	5200	4930
19	290	465	470	–	–	285	295	465	670	480	440	6800	6300
20	300	465	500	–	–	310	315	465	670	550	510	8200	7700
21	320	490	500	–	–	330	335	490	715	540	590	9200	8600
22	340	490	500	–	–	340	345	490	725	620	680	9900	9400

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

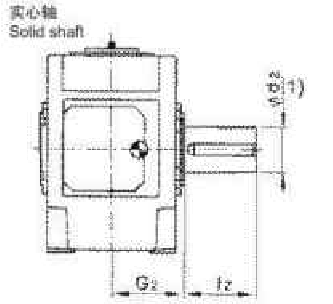
B4.H B4.M

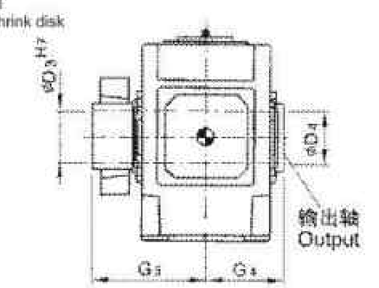


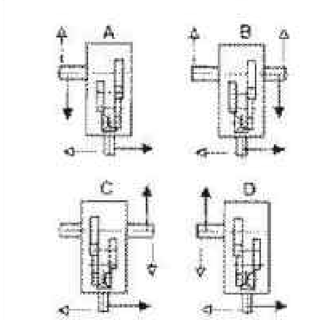
B4DM



★ 输出轴 Output		布置形式 Design
B4SH 实心轴 Solid shaft	B4DH,B4DM 带胀紧盘的空心轴 Hollow shaft for shrink disk	







1) $k_6 \leqslant \Phi 50$ $m_6 > \Phi 50$
有关平键GB/T1095-1979型和中心孔，参见第98-99页。For parallel key GB/T1095-1979 and for centre hole, see page 98-99.
2) 键槽GB/T1095-1979。Keyway GB/T1095-1979.
3) 扭力支撑位于工作机侧。Torque support on driven machine side.

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

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

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

规格 Size	尺寸 mm Dimensions in mm — 齿轮箱 Gear 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	66

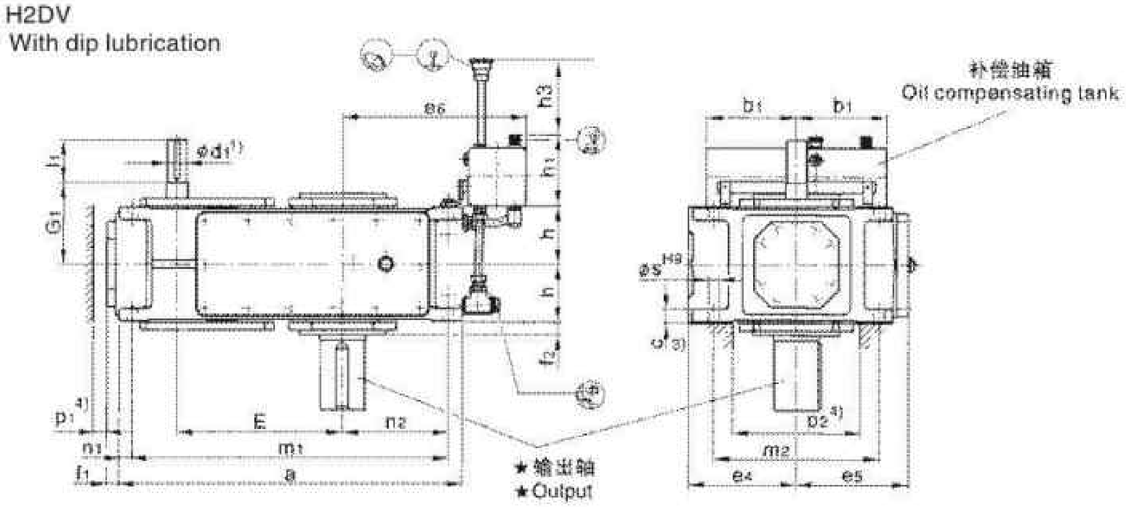
规格 Size	尺寸 mm Dimensions in mm — 输出轴 Output							润滑油 Lubrication		重量 Weight	
	B4SH			B4DH B4DM				B4.H	B4.M	B4.H	B4.M
	d2[1]	G2	l2	D3	D4	G4	G5	(L)	(L)	(kg)	(kg)
23	360	540	590	360	365	540	785	710	790	11600	10700
24	380	540	590	380	385	540	805	810	910	13500	12600
25	400	605	650	400	405	605	875	1000	1110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

平行轴齿轮箱 Helical Gear Units　二级传动 Two Stage　立式安装 Vertical

类型 Types H2.V　规格 Sizes 3...12

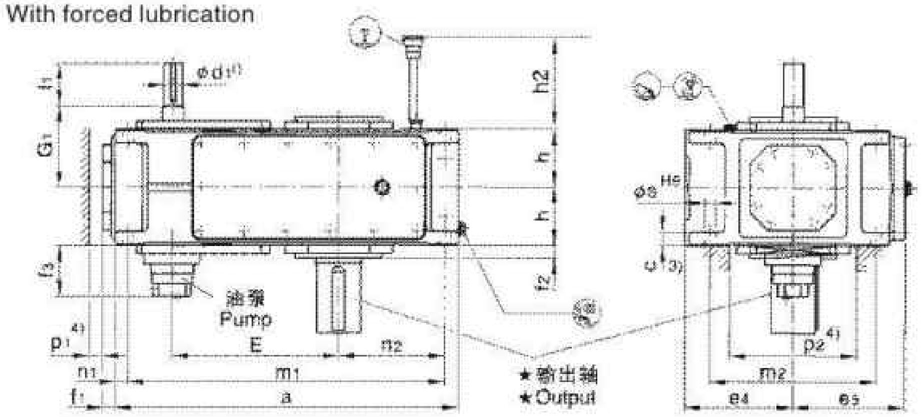
H2SV H2HV H2DV

采用浸油润滑 With dip lubrication



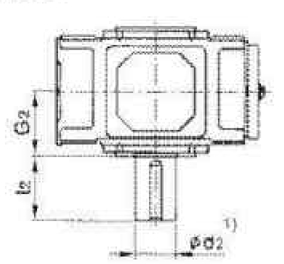
H2SV H2HV H2DV

采用强制润滑 With forced lubrication

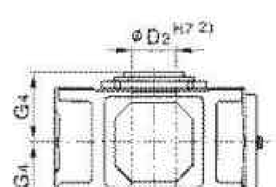


★ 输出轴 Output　　布置形式 Design

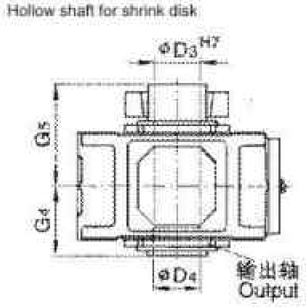
H2SV
实心轴
Solid shaft



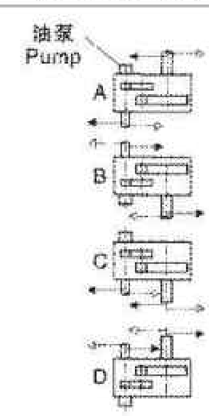
H2HV
空心轴
Hollow shaft



H2DV
带胀紧盘的空心轴
Hollow shaft for shrink disk



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



1) $k_6 \leq \Phi 50$ $m_6 > \Phi 50$
   有关平键GB/T1095-1979型和中心孔，参见第98-99页。For parallel key GB/T1095-1979 and for centre hole,see page 98-99.
2) 键槽GB/T1095-1979。Keyway GB/T1095-1979.
3) 扭力支撑位于工作机侧。Torque support on driven machine side.
4) 有关油泵，油管和护盖的安装空间及确切尺寸，请与我们联系。
   Space for pump, pipes and cover, for exact dimension, please refer to us.

平行轴齿轮箱 Helical Gear Units　二级传动 Two Stage　立式安装 Vertical

类型 Types H2.V　规格 Sizes 3...12

规格 Size	尺寸 mm Dimensions in mm 输入轴 Input iN=6.3-11.2		iN=8-14		iN=12.5-22.4		iN=16-28		G1
	d1[1]	l1	d1[1]	l1	d1[1]	l1	d1[1]	l1	
3	35	60			28	50			135
4	45	100			32	80			170
5	50	100			38	80			195
6			50	100			38	80	195
7	60	135			50	110			210
8			60	135			50	110	210
9	75	140			60	140			240
10			75	140			60	140	240
11	90	165			70	140			275
12			90	165			70	140	275

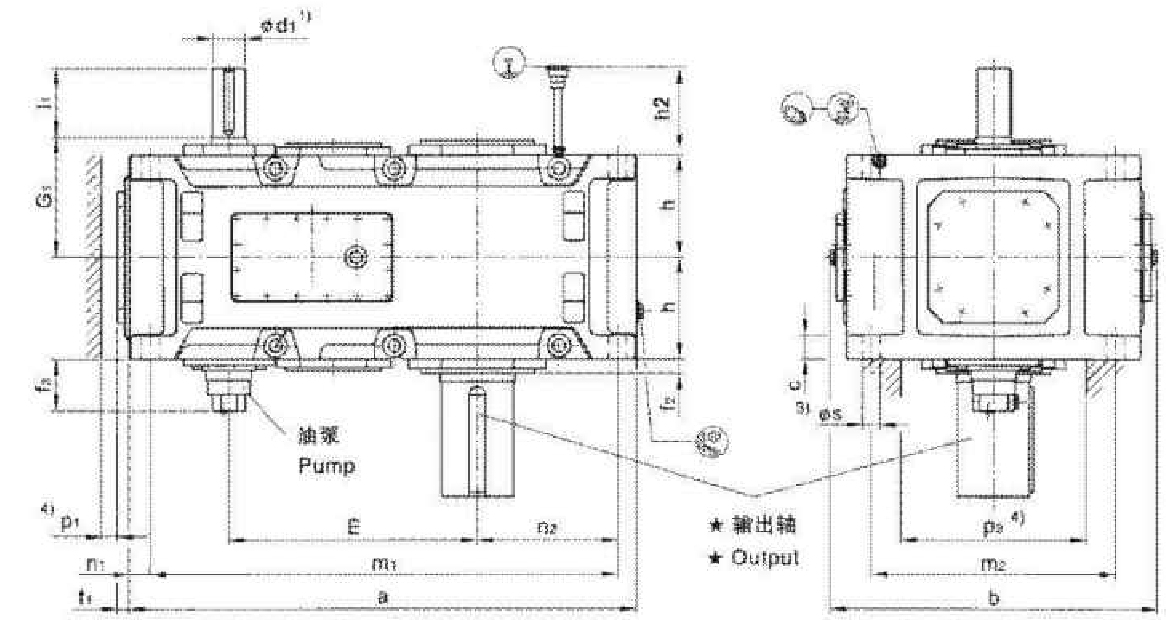
规格 Size	尺寸 mm Dimensions in mm 齿轮箱 Gear units a	b1	c	e4	e5	e6	E	f1	f2	f3
3	450	150	24 ± 1	175	185	290	220	28	20	–
4	565	150	30 ± 1	200	215	320	270	28	22	–
5	640	240	30 ± 1	230	252	385	315	38	28	150
6	720	240	30 ± 1	230	252	425	350	38	28	150
7	785	240	36 ± 1	280	292	425	385	42	30	145
8	890	240	36 ± 1	280	302	485	430	42	32	145
9	925	330	45 ± 1.5	320	342	560	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	h1	h2	h3	m1	m2	n1	n2	p1[4]	p2[4]	s
3	95	165	–	180	410	265	20	125	35	210	18
4	107.5	165	–	180	505	300	30	160	35	220	24
5	127.5	205	190	240	580	360	30	175	35	270	24
6	127.5	205	190	240	660	360	30	220	35	270	24
7	150	205	165	250	715	430	35	215	35	330	28
8	150	205	165	250	820	430	35	275	35	330	28
9	185	275	205	330	845	490	40	260	40	370	36
10	185	275	205	330	945	490	40	310	40	370	36
11	215	275	240	340	1005	600	50	295	50	440	40
12	215	275	240	340	1160	600	50	380	50	440	40

规格 Size	尺寸 mm Dimensions in mm 输出轴 Output H2SV			H2HV		H2DV				润滑油 Lubrication 浸油润滑 Dip lubrication (L)	强制润滑 Forced lubrication (L)	重量 Weight (kg)
	d2[1]	G2	l2	D2[2]	G4	D3	D4	G4	G5			
3	65	125	140	65	125	70	70	125	180	14	–	115
4	80	140	170	80	140	85	85	140	205	25	–	190
5	100	165	210	95	165	100	100	165	240	23	10	300
6	110	165	210	105	165	110	110	165	240	27	11	355
7	120	195	210	115	195	120	120	195	280	58	22	505
8	130	195	250	125	195	130	130	195	285	62	25	590
9	140	235	250	135	235	140	145	235	330	100	42	830
10	160	235	300	150	235	150	155	235	350	110	46	960
11	170	270	300	165	270	165	170	270	400	160	60	1335
12	180	270	300	180	270	180	185	270	405	180	70	1615

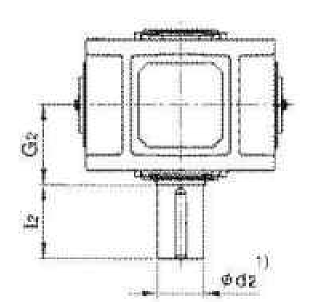
平行轴齿轮箱 Helical Gear Units　二级传动 Two Stage　立式安装 Vertical
类型 Types H2.V　规格 Sizes 13...18

H2SV H2HV H2DV
采用强制润滑 With forced lubrication

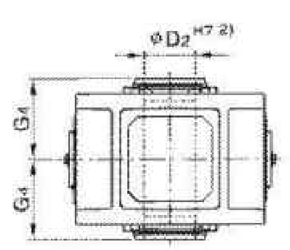


★ 输出轴 Output

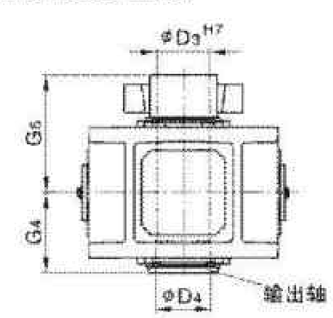
H2SV
实心轴
Solid shaft



H2HV
空心轴
Hollow shaft

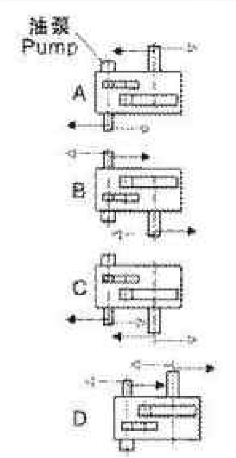


H2DV
带胀紧盘的空心轴
Hollow shaft for shrink disk



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

布置形式 Design



1) $k_s \leq \Phi 50$ $m_s > \Phi 50$
有关平键GB/T1095-1979型和中心孔，参见第98-99页。For parallel key GB/T1095-1979 and for centre hole,see page 98-99.
2) 键槽GB/T1095-1979。Keyway GB/T1095-1979.
3) 扭力支撑位于工作机侧。Torque support on driven machine side.
4) 有关油泵，油管和护盖的安装空间及确切尺寸，请与我们联系。Space for pump, pipes and cover, for exact dimension, please refer to us.
5) 规格13和15号速比只有iN=6.3-18；规格17号：iN=6.3-16 Size 13 and 15: only iN=6.3-18,Size 17: only iN=6.3-16

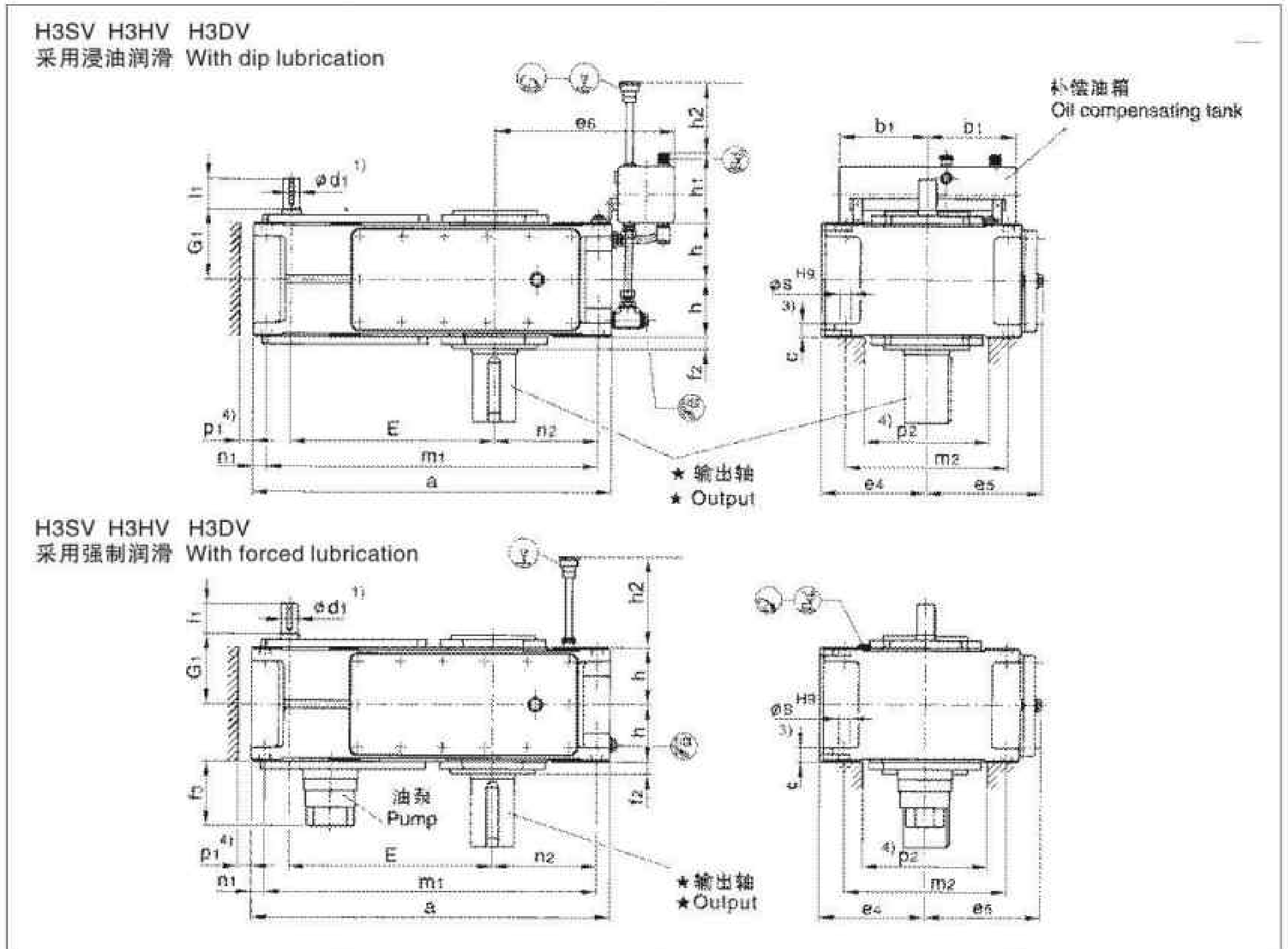
平行轴齿轮箱 Helical Gear Units　二级传动 Two Stage　立式安装 Vertical
类型 Types H2.V　规格 Sizes 13...18

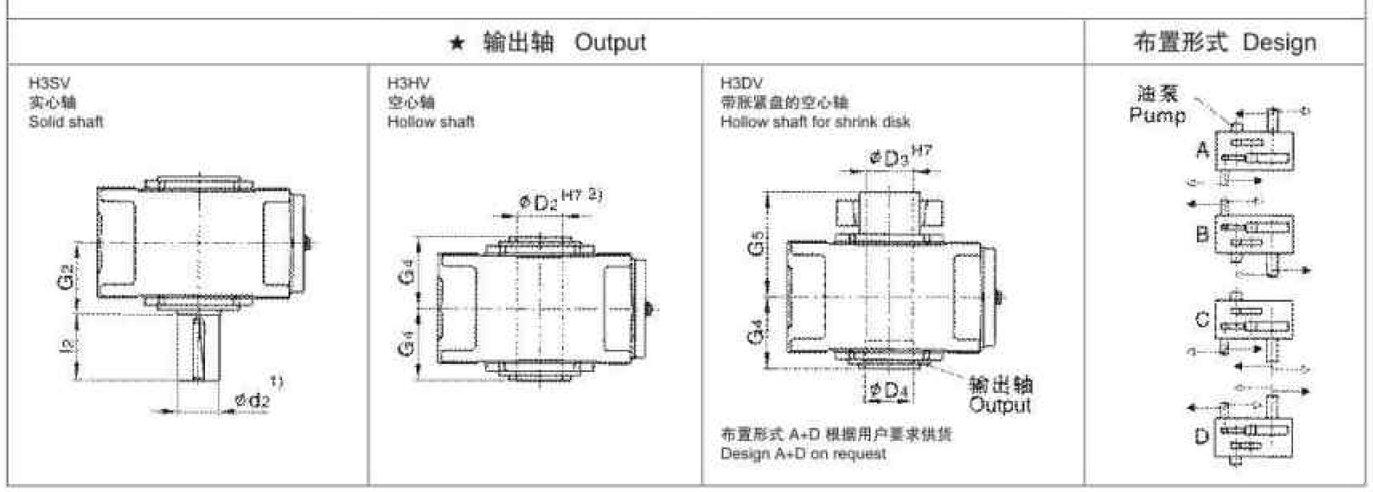
规格 Size	尺寸 mm Dimensions in mm 输入轴 Input												
	iN=6.3-11.2		iN=7.1-12.5		iN=8-14		iN=12.5-20		iN=14-22.4		iN=16-25		G1
	d1 1)	l1	d1 1)	l1	d1 1)	l1	d1 1)	l1	d1 1)	l1	d1 1)	l1	
13	100	205					85	170					330
14					100	205					85	170	330
15	120	210					100	210					365
16			120	210					100	210			365
17	125	245					110	210					420
18			125	245					110	210			420
19					根据用户要求供货 On request								
20													
21													
22													

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

规格 Size	尺寸 mm Dimensions in mm 输出轴 Output									润滑油 Lubrication (L)	重量 Weight (kg)
	H2SV			H2HV 5)		H2DV 5)					
	d2 1)	G2	l2	D2 2)	G4	D3	D4	G4	G5		
13	200	335	350	190	335	190	195	335	480	80	1880
14	210	335	350	210	335	210	215	335	480	90	2430
15	230	380	410	230	380	230	235	380	550	140	3240
16	240	380	410	240	380	240	245	380	550	150	3465
17	250	415	410	250	415	250	260	415	600	175	4420
18	270	415	470	275	415	280	285	415	600	185	4870
19					根据用户要求供货 On request						
20											
21											
22											

平行轴齿轮箱 Helical Gear Units　三级传动 Three Stage　立式安装 Vertical
类型 Types H3.V　规格 Sizes 5...12





1) $k_6 \le \Phi 50$ $m_6 > \Phi 50$
有关平键GB/T1095-1979型和中心孔，参见第98-99页。For parallel key GB/T1095-1979 and for centre hole,see page 98-99.
2) 键槽GB/T1095-1979。Keyway GB/T1095-1979.
3) 扭力支撑位于工作机侧。Torque support on driven machine side.
4) 有关油泵，油管和护盖的安装空间及确切尺寸，请与我们联系。Space for pump, pipes and cover, for exact dimension, please refer to us.

H/B工业齿轮箱 GEAR UNITS

平行轴齿轮箱 Helical Gear Units　三级传动 Three Stage　立式安装 Vertical
类型 Types H3.V　规格 Sizes 5...12

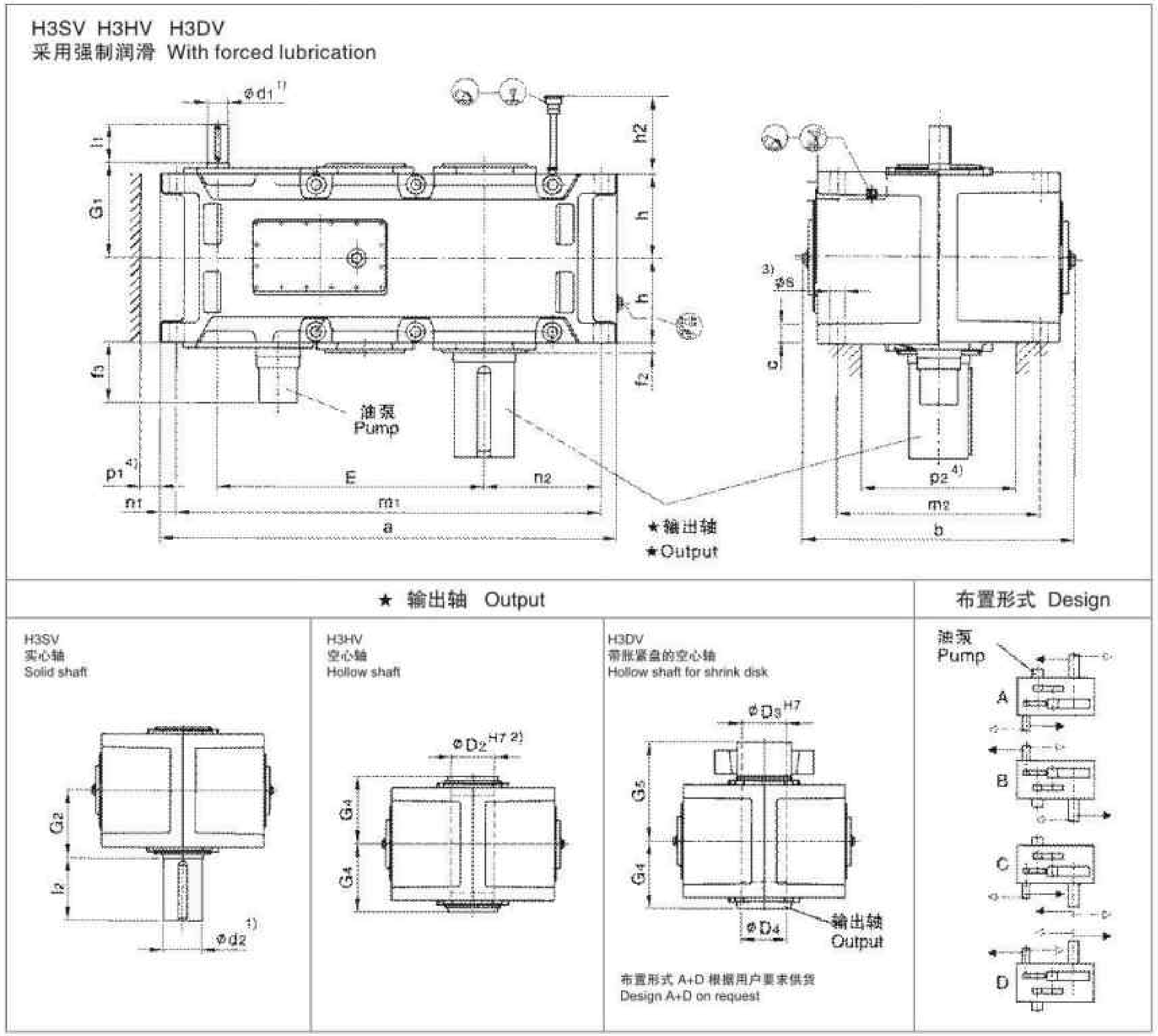
规格 Size	尺寸 mm Dimensions in mm												
	输入轴 Input												
	iN=24-45		iN=31.5-56		iN=50-63		iN=63-80		iN=71-90		iN=90-112		G1
	d1 1)	l1	d1 1)	l1	d1 1)	l1	d1 1)	l1	d1 1)	l1	d1 1)	l1	
5	40	70			30	50			24	40			160
6			40	70			30	50			24	40	160
7	45	80			35	60			28	50			185
8			45	80			35	60			28	50	185
9	60	125			45	100			32	80			230
10			60	125			45	100			32	80	230
11	70	120			50	80			42	70			255
12			70	120			50	80			42	70	255

规格 Size	尺寸 mm Dimensions in mm									
	齿轮箱 Gear units									
	a	b1	c	e4	e5	e6	E	f2	f3	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	312	485	540	32	185	150
9	1000	330	45 ± 1.5	320	342	560	580	32	170	185
10	1100	330	45 ± 1.5	320	342	610	630	32	170	185
11	1200	330	54 ± 1.5	380	402	595	705	35	170	215
12	1355	330	54 ± 1.5	380	410	680	775	35	170	215

规格 Size	尺寸 mm Dimensions in mm									
	齿轮箱 Gear units									
	h1	h2	h3	m1	m2	n1	n2	p1 4)	p2 4)	s
5	205	190	240	630	360	30	175	35	270	24
6	205	190	240	710	360	30	220	35	270	24
7	205	165	250	775	430	35	215	35	330	28
8	205	165	250	880	430	35	275	35	330	28
9	275	205	330	920	490	40	260	40	370	36
10	275	205	330	1020	490	40	310	40	370	36
11	275	240	340	1100	600	50	295	50	440	40
12	275	240	340	1255	600	50	380	50	440	40

规格 Size	尺寸 mm Dimensions in mm									润滑油 Lubrication		重量 Weight (kg)
	输出轴 Output									浸油润滑 Dip lubrication (L)	强制润滑 Forced lubrication (L)	
	H3SV			H3HV		H3DV						
	d2 1)	G2	l2	D2 2)	G4	D3	D4	G4	G5			
5	100	165	210	95	165	100	100	165	240	35	13	320
6	110	165	210	105	165	110	110	165	240	37	15	365
7	120	195	210	115	195	120	120	195	280	60	25	540
8	130	195	250	125	195	130	130	195	285	72	30	625
9	140	235	250	135	235	140	145	235	330	100	40	875
10	160	235	300	150	235	150	155	235	350	110	45	1020
11	170	270	300	165	270	165	170	270	400	170	66	1400
12	180	270	300	180	270	180	185	270	405	190	75	1675

平行轴齿轮箱 Helical Gear Units　三级传动 Three Stage　立式安装 Vertical
类型 Types H3.V　规格 Sizes 13...18



1）$k_6 \leq \Phi 50$ $m_6 > \Phi 50$
有关平键GB/T1095–1979型和中心孔，参见第98–99页。For parallel key GB/T1095–1979 and for centre hole,see page 98–99.
2）键槽GB/T1095–1979。Keyway GB/T1095–1979.
3）扭力支撑位于工作机侧。Torque support on driven machine side.
4）有关油泵，油管和护盖的安装空间及确切尺寸，请与我们联系。Space for pump, pipes and cover, for exact dimension, please refer to us.

H/B工业齿轮箱 GEAR UNITS

平行轴齿轮箱 Helical Gear Units　三级传动 Three Stage　立式安装 Vertical
类型 Types H3.V　规格 Sizes 13...18

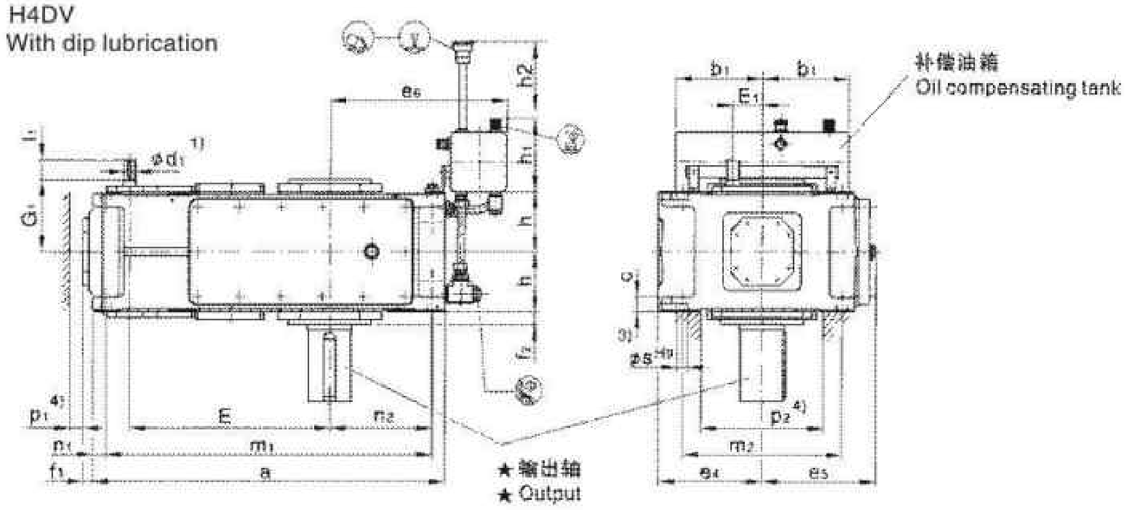
规格 Size	尺寸 mm Dimensions in mm 输入轴 Input																		
	iN=22.4–45		iN=25–50		iN=28–56		iN=50–63		iN=56–71		iN=63–80		iN=71–90		iN=80–100		iN=90–112		G1
	d1 1)	l1	d1 1)	l1	d1 1)	l1	d1 1)	l1	d1 1)	l1	d1 1)	l1	d1 1)	l1	d1 1)	l1	d1 1)	l1	
13	85	160					60	135					50	110					310
14					85	160					60	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					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	b	c	E	f2	f3	h	h2	m1	m2	n1	n2	p1 4)	p2 4)	s
13	1395	900	61 ± 2	820	35	170	272.5	300	1300	680	50	360	50	500	48
14	1535	900	61 ± 2	890	35	170	272.5	300	1440	680	50	430	50	500	48
15	1680	980	72 ± 2	987	42	170	310	340	1565	750	60	430	50	570	55
16	1770	980	72 ± 2	1033	42	170	310	340	1655	750	60	475	50	570	55
17	1770	1110	81 ± 2	1035	42	210	340	374	1640	850	70	465	70	630	55
18	1890	1110	81 ± 2	1095	42	210	340	374	1760	850	70	525	70	630	55
19															
20						根据用户要求供货 On request									
21															
22															

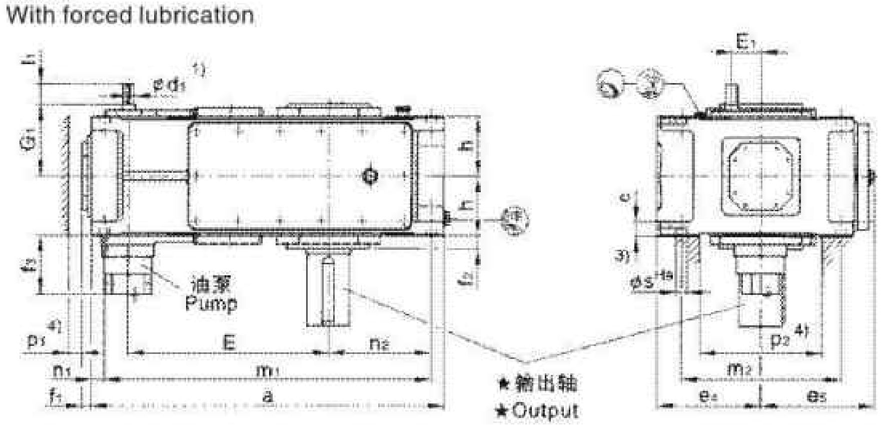
规格 Size	尺寸 mm Dimensions in mm 输出轴 Output									润滑油 Lubrication (L)	重量 Weight (kg)
	H3SV			H3HV		H3DV					
	d2 1)	G2	l2	D2 2)	G4	D3	D4	G4	G5		
13	200	335	350	190	335	190	195	335	480	115	2155
14	210	335	350	210	335	210	215	335	480	126	2490
15	230	380	410	230	380	230	235	380	550	180	3260
16	240	380	410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

平行轴齿轮箱 Helical Gear Units　四级传动 Four Stage　立式安装 Vertical
类型 Types H4.V　规格 Sizes 7...12

H4SV H4HV H4DV
采用浸油润滑 With dip lubrication

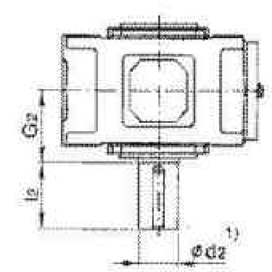


H4SV H4HV H4DV
采用强制润滑 With forced lubrication

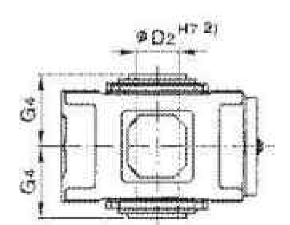


★ 输出轴 Output　　布置形式 Design

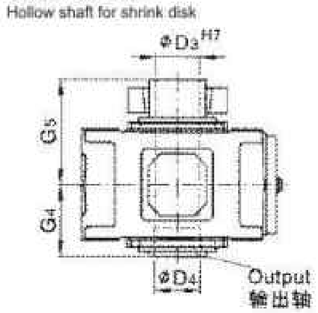
H4SV
实心轴
Solid shaft



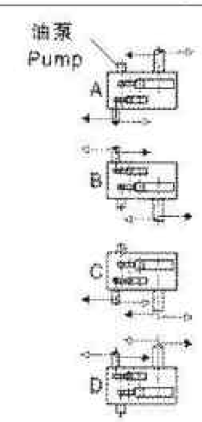
H4HV
空心轴
Hollow shaft



H4DV
带胀紧盘的空心轴
Hollow shaft for shrink disk



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



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有关平键GB/T1095–1979型和中心孔，参见第98–99页。For parallel key GB/T1095–1979 and for centre hole,see page 98–99.
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4) 有关油泵，油管和护盖的安装空间及确切尺寸，请与我们联系。Space for pump, pipes and cover, for exact dimension, please refer to us.

H/B工业齿轮箱 GEAR UNITS

平行轴齿轮箱 Helical Gear Units　四级传动 Four Stage　立式安装 Vertical
类型 Types H4.V　规格 Sizes 7...12

规格 Size	尺寸 mm Dimensions in mm28 输入轴 Input								
	iN=100–180		iN=125–224		iN=200–355		iN=250–450		G1
	d1[1]	l1	d1[1]	l1	d1[1]	l1	d1[1]	l1	
7	30	50			24	40			180
8			30	50			24	40	180
9	35	60			28	50			215
10			35	60			28	50	215
11	45	100			32	80			250
12			45	100			32	80	250

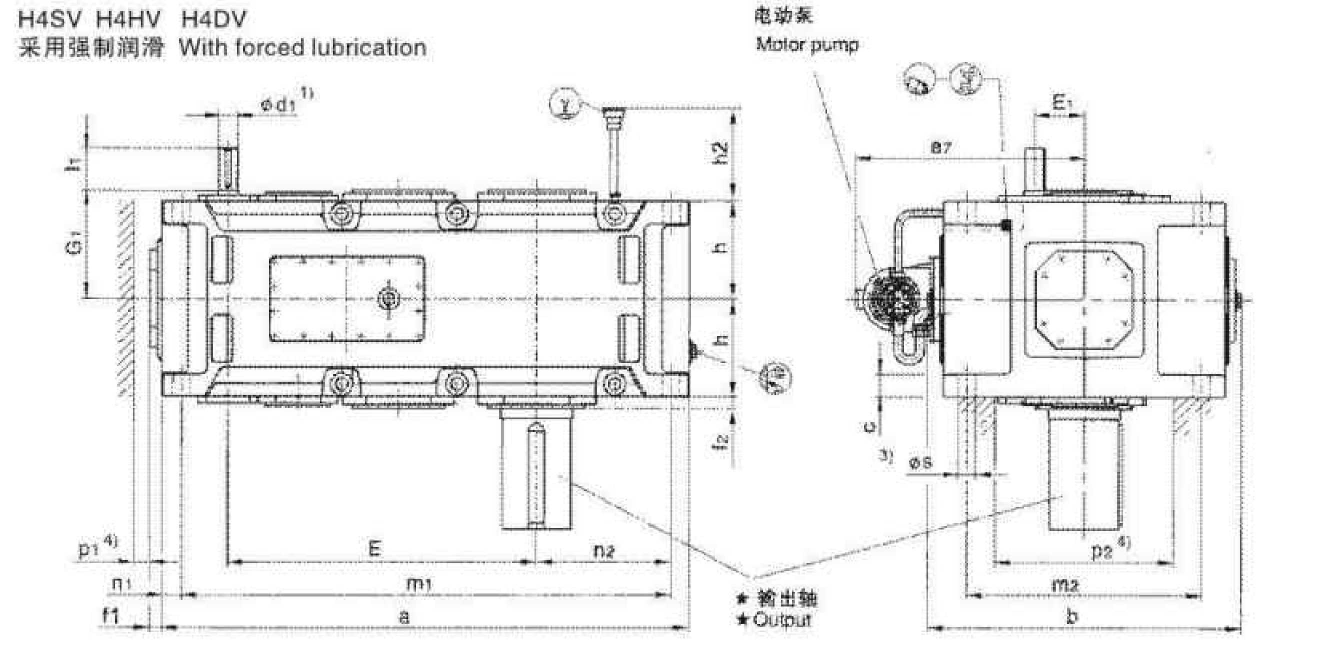
规格 Size	尺寸 mm Dimensions in mm 齿轮箱 Gear units										
	a	b1	c	e4	e5	e6	E	E1	l1	f2	f3
7	845	240	36 ± 1	280	292	425	495	80	37	30	160
8	950	240	36 ± 1	280	302	485	540	80	37	32	160
9	1000	330	45 ± 1.5	320	342	560	580	90	43	32	170
10	1100	330	45 ± 1.5	320	342	610	630	90	43	32	170
11	1200	330	54 ± 1.5	380	402	595	705	110	47	35	170
12	1355	330	54 ± 1.5	380	410	680	775	110	47	35	170

规格 Size	尺寸 mm Dimensions in mm 齿轮箱 Gear units										
	h	h1	h2	h3	m1	m2	n1	n2	p1[4]	p2[4]	s
7	150	205	165	250	775	430	35	215	35	330	28
8	150	205	165	250	880	430	35	275	35	330	28
9	185	275	205	330	920	490	40	260	40	370	36
10	185	275	205	330	1020	490	40	310	40	370	36
11	215	275	240	340	1100	600	50	295	50	440	40
12	215	275	240	340	1255	600	50	380	50	440	40

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

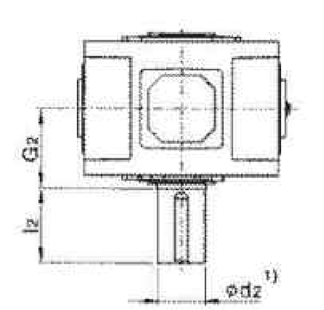
平行轴齿轮箱 Helical Gear Units　四级传动 Four Stage　立式安装 Vertical
类型 Types H4.V　规格 Sizes 13...18

H4SV H4HV H4DV
采用强制润滑 With forced lubrication

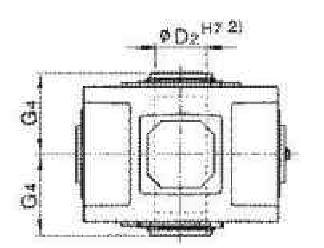


★ 输出轴 Output　　布置形式 Design

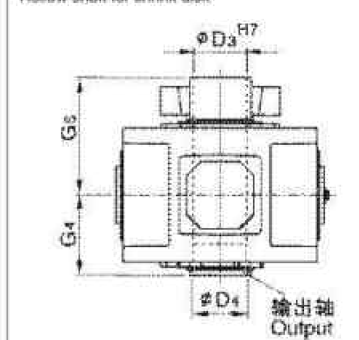
H4SV
实心轴
Solid shaft



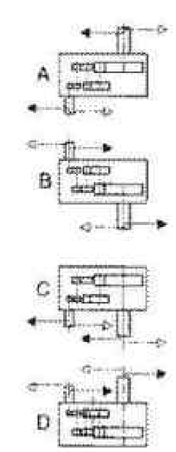
H4HV
空心轴
Hollow shaft



H4DV
带胀紧盘的空心轴
Hollow shaft for shrink disk



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



1) $k_s \le \Phi 50$ $m_s > \Phi 50$
有关平键GB/T1095-1979型和中心孔，参见第98-99页。For parallel key GB/T1095-1979 and for centre hole,see page 98-99.
2) 键槽GB/T1095-1979。Keyway GB/T1095-1979.
3) 扭力支撑位于工作机侧。Torque support on driven machine side.
4) 有关油泵，油管和护盖的安装空间及确切尺寸，请与我们联系。Space for pump, pipes and cover, for exact dimension, please refer to us.

平行轴齿轮箱 Helical Gear Units　四级传动 Four Stage　立式安装 Vertical
类型 Types H4.V　规格 Sizes 13...18

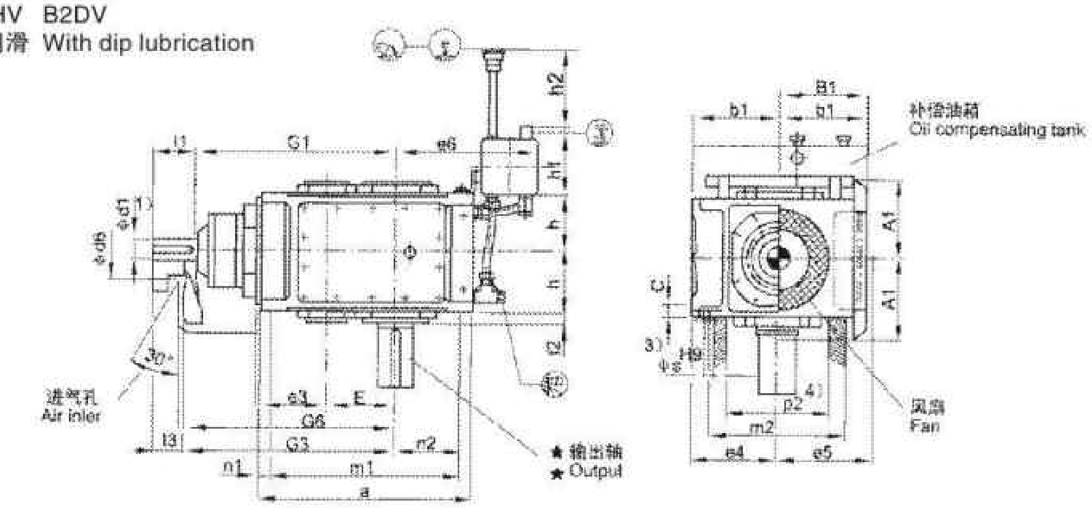
规格 Size	尺寸 mm Dimensions in mm 输入轴 Input												
	iN=100-180		iN=112-200		iN=125-224		iN=200-355		iN=224-400		iN=250-450		G1
	d1[1]	l1	d1[1]	l1	d1[1]	l1	d1[1]	l1	d1[1]	l1	d1[1]	l1	
13	50	100					38	80					305
14					50	100					38	80	305
15	60	135					50	110					345
16			60	135					50	110			345
17	60	105					50	80					380
18			60	105					50	80			380
19													
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	b	c	e7	E	E1	f1	f2	h	h2	m1	m2	n1	n2	p1[4]	p2[4]	s
13	1395	900	61 ± 2	695	820	130	47	35	272.5	300	1300	680	50	360	50	500	48
14	1535	900	61 ± 2	695	890	130	47	35	272.5	300	1440	680	50	430	50	500	48
15	1680	980	72 ± 2	735	987	160	56	42	310	340	1565	750	60	430	50	570	55
16	1770	980	72 ± 2	735	1033	160	56	42	310	340	1655	750	60	475	50	570	55
17	1770	1110	81 ± 2	795	1035	160	53	42	340	374	1640	850	70	465	70	630	55
18	1890	1110	81 ± 2	795	1095	160	53	42	340	374	1760	850	70	525	70	630	55
19																	
20									根据用户要求供货 On request								
21																	
22																	

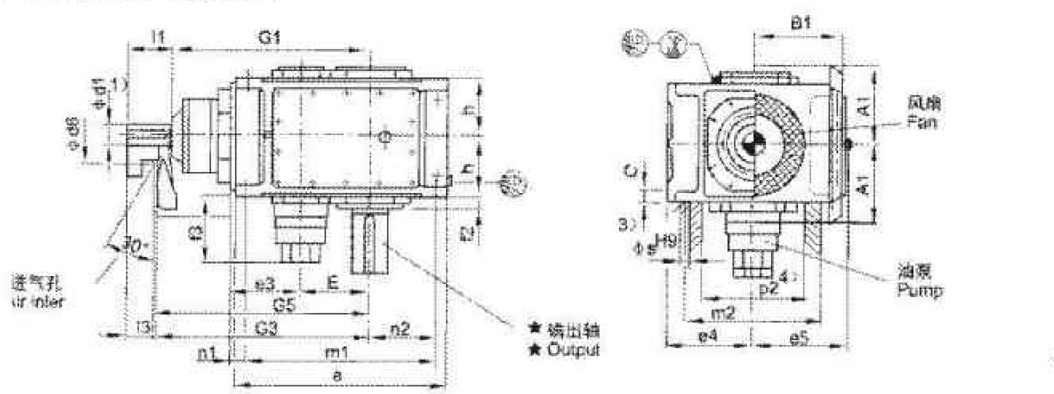
规格 Size	尺寸 mm Dimensions in mm 输出轴 Output									润滑油 Lubrication (L)	重量 Weight (kg)
	H4SV			H4HV		H4DV					
	d2[1]	G2	l2	D2[1]	G4	D3	D4	G4	G5		
13	200	335	350	190	335	190	195	335	480	95	2270
14	210	335	350	210	335	210	215	335	480	105	2600
15	230	380	410	230	380	230	235	380	550	150	3440
16	240	380	410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

直交轴齿轮箱 Bevel–helical Gear Units　二级传动 Two Stage　立式安装 Vertical
类型 Types B2.V　规格 Sizes 1...12

B2SV B2HV B2DV
采用浸油润滑 With dip lubrication

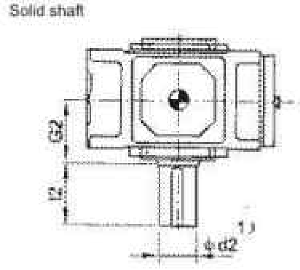


B2SV B2HV B2DV
采用强制润滑 With forced lubrication

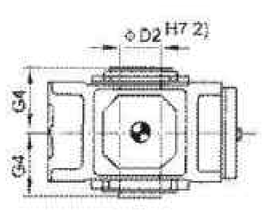


★ 输出轴 Output　　布置形式 Design

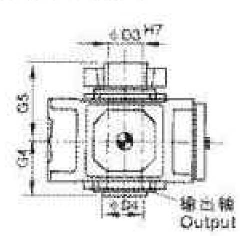
B2SV
实心轴
Solid shaft



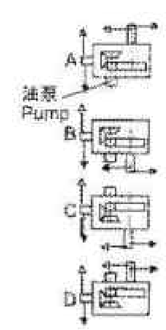
B2HV
空心轴
Hollow shaft



B2DV
带胀紧盘的空心轴
Hollow shaft for shrink disk



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



1) $k_6 \le \Phi 50$　$m_6 > \Phi 50$
有关平键GB/T1095–1979型和中心孔，参见第98–99页。For parallel key GB/T1095–1979 and for centre hole,see page 98–99.
2) 键槽GB/T1095–1979。Keyway GB/T1095–1979.
3) 扭力支撑位于工作机侧。Torque support on driven machine side.
4) 有关油泵，油管和护盖的安装空间及确切尺寸，请与我们联系。Space for pump, pipes and cover, for exact dimension, please refer to us.

H/B工业齿轮箱 GEAR UNITS

直交轴齿轮箱 Bevel–helical Gear Units　二级传动 Two Stage　立式安装 Vertical
类型 Types B2.V　规格 Sizes 1...12

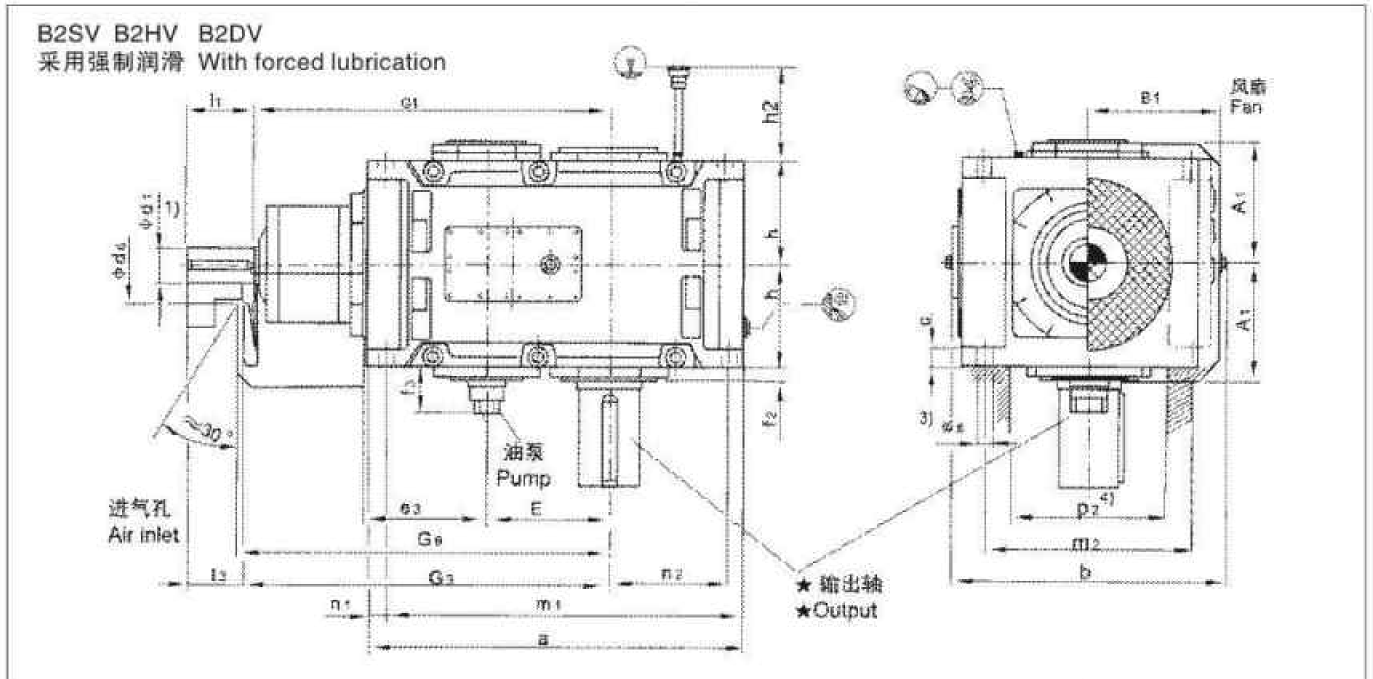
规格 Size	尺寸 mm Dimensions in mm										
	输入轴 Input										
	iN=5–11.2			iN=6.3–14			iN=12.5–18			G1	G3
	d1[1]	l1	l3	d1[1]	l1	l3	d1[1]	l1	l3		
1	28	55	40				20	50	35	300	315
2	30	70	50				25	60	40	340	360
3	35	80	60				28	60	40	390	410
4	45	100	80							465	485
5	55	110	80							535	565
6				55	110	80				570	600
7	70	135	105							640	670
8				70	135	105				685	715
9	80	165	130							755	790
10				80	165	130				805	840
11	90	165	130							925	960
12				90	165	130				995	1030

规格 Size	尺寸 mm Dimensions in mm										
	齿轮箱 Gear units										
	a	A1	b1	B1	c	d6	e3	e4	e5	e6	E	f2
1	305	128	150	130	16 ± 1	100	90	130	145	280	90	22
2	355	143	150	145	20 ± 1	110	110	145	160	285	110	22
3	405	163	150	170	24 ± 1	120	130	175	185	290	130	24
4	505	188	150	200	30 ± 1	150	160	200	215	320	160	26
5	565	215	240	235	30 ± 1	160	185	230	252	385	185	30
6	645	215	240	235	30 ± 1	160	185	230	252	425	220	30
7	690	250	240	285	36 ± 1	210	225	280	302	425	225	32
8	795	250	240	285	36 ± 1	210	225	280	302	485	270	32
9	820	270	330	325	48 ± 1.5	195	265	320	342	560	265	45
10	920	270	330	325	48 ± 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											
	齿轮箱 Gear units											
	f3	G6	h	h1	h2	h3	m1	m2	n1	n2	p2[4]	s
1	–	325	90	165	–	170	275	210	15	115	150	12
2	–	370	102.5	165	–	170	315	315	20	120	170	14
3	–	420	112.5	165	–	180	365	365	20	130	200	18
4	–	495	135	165	–	180	445	300	30	160	220	24
5	190	575	160	205	245	240	505	360	30	175	270	24
6	190	610	160	205	245	240	585	360	30	220	270	24
7	200	685	190	205	220	250	620	430	35	215	330	28
8	200	730	190	205	220	250	725	430	35	275	330	28
9	200	805	220	275	250	330	740	490	40	260	370	36
10	200	855	220	275	250	330	840	490	40	310	370	36
11	200	980	265	275	300	340	875	600	50	295	440	40
12	200	1050	265	275	300	340	1030	600	50	380	440	40

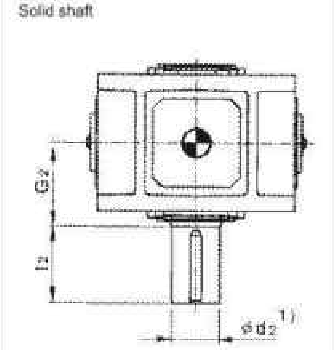
规格 Size	尺寸 mm Dimensions in mm									润滑油 Lubrication		重量 Weight (kg)
	输出轴 Output									浸油润滑 Dip lubrication (L)	强制润滑 Forced lubrication (L)	
	B2SV			B2HV		B2DV						
	d2[1]	G2	l2	D2[2]	G4	D3	D4	G4	G5			
1	45	120	80	–	–	–	–	–	–	7	–	65
2	55	135	110	55	135	60	60	135	180	11	–	90
3	65	145	140	65	145	70	70	145	200	16	–	140
4	80	170	170	80	170	85	85	170	235	28	–	235
5	100	200	210	95	200	100	100	200	275	41	20	360
6	110	200	210	105	200	110	110	200	275	50	23	410
7	120	235	210	115	235	120	120	235	320	75	35	615
8	130	235	250	125	235	130	130	235	325	90	38	700
9	140	270	250	135	270	140	145	270	360	115	53	1000
10	160	270	300	150	270	150	155	270	385	135	60	1155
11	170	320	300	165	320	165	170	320	450	190	86	1640
12	180	320	300	180	320	180	185	320	455	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 Types B2.V　规格 Sizes 13...18

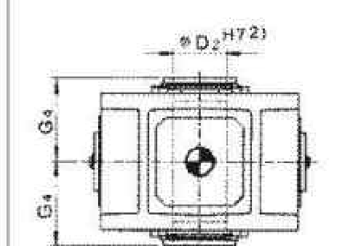


★ 输出轴 Output　　布置形式 Design

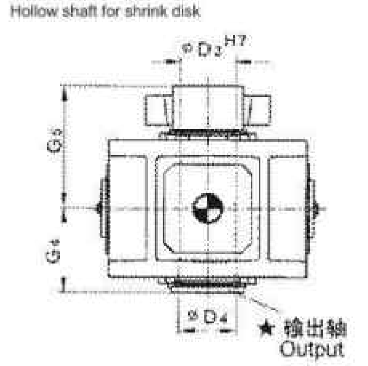
B2SV
实心轴
Solid shaft



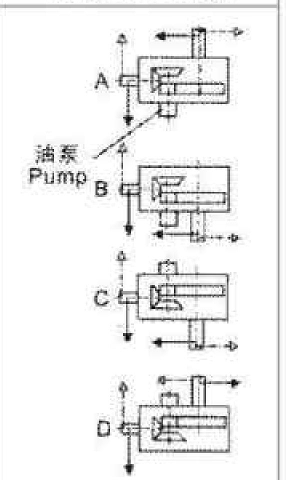
B2HV
空心轴
Hollow shaft



B2DV
带胀紧盘的空心轴
Hollow shaft for shrink disk



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



1）$k_6 \le \Phi 50$ $m_6 > \Phi 50$
有关平键GB/T1095–1979型和中心孔，参见第98–99页。For parallel key GB/T1095–1979 and for centre hole,see page 98–99.
2）键槽GB/T1095–1979。Keyway GB/T1095–1979.
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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 Types B2.V　规格 Sizes 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			G1	G3
	d1[1]	l1	l3	d1[1]	l1	l3	d1[1]	l1	l3	d1[1]	l1	l3	d1[1]	l1	l3		
13	110	205	165													1070	1110
14										110	205	165				1140	1180
15	130	245	200													1277	1322
16							130	245	200							1323	1368
17				150	245	200										1435	1480
18													150	245	200	1495	1540

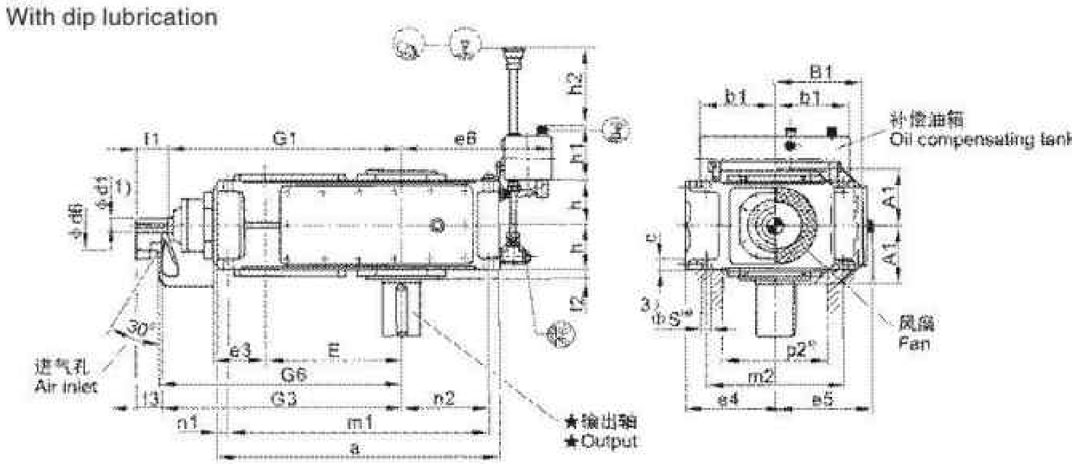
规格 Size	尺寸 mm Dimensions in mm									
	齿轮箱 Gear units									
	a	A1	b	B1	c	d6	e3	E	f2	f3
13	1130	375	900	450	61 ± 2	245	380	370	38	200
14	1270	375	900	450	61 ± 2	245	380	440	45	200
15	1350	435	980	495	72 ± 2	280	450	442	75	200
16	1440	435	980	495	72 ± 2	280	450	488	75	200
17	1490	505	1110	555	81 ± 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								
	G6	h	h2	m1	m2	n1	n2	p2[4]	s
13	1130	325	350	1035	680	50	360	500	48
14	1200	325	350	1175	680	50	430	500	48
15	1340	380	430	1235	750	60	430	570	55
16	1385	380	430	1325	750	60	475	570	55
17	1500	437.5	480	1360	840	70	465	630	65
18	1560	437.5	480	1480	840	70	525	630	65

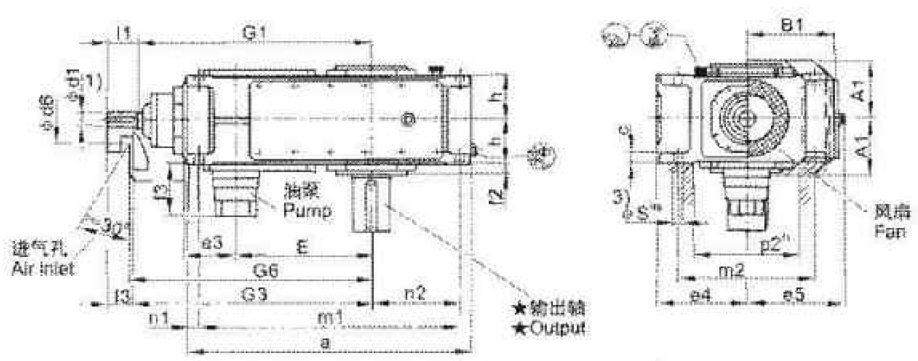
规格 Size	尺寸 mm Dimensions in mm									润滑油 Lubrication (L)	重量 Weight (kg)
	输出轴 Output										
	B2SV			B2HV		B2DV					
	d2[1]	G2	l2	D2[2]	G4	D3	D4	G4	G5		
13	200	390	350	–	–	–	–	–	–	100	2350
14	210	390	350	210	390	210	215	390	535	110	2725
15	230	460	410	–	–	–	–	–	–	145	3795
16	240	460	410	240	450	240	245	450	620	160	4160
17	250	540	410	–	–	–	–	–	–	210	5320
18	270	540	470	275	510	280	285	510	700	220	5860

直交轴齿轮箱 Bevel–helical Gear Units　　三级传动 Three Stage　　立式安装 Vertical
类型 Types B3.V　　规格 Sizes 3...12

B3SV B3HV B3DV
采用浸油润滑 With dip lubrication

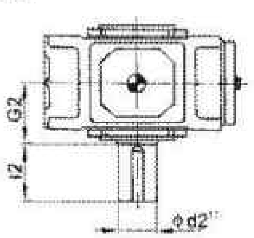


B3SV B3HV B3DV
采用强制润滑 With forced lubrication

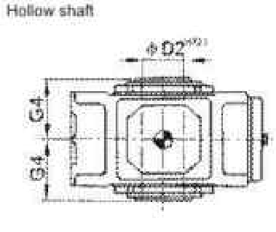


★ 输出轴 Output　　　　布置形式 Design

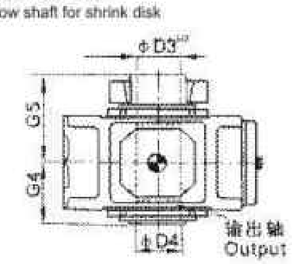
B3SV
实心轴
Solid shaft



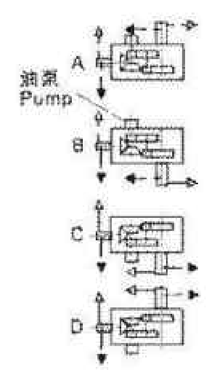
B3HV
空心轴
Hollow shaft



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



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



1) $k_6 \leq \Phi 50$ $m_6 > \Phi 50$
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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 shree Stage　　立式安装 sVertical
类型 Types B3.V　　规格 Sizes 3...12

规格 Size	尺寸 mm Dimensions in mm																
	输入轴 Input																
	iN=12.5–45			iN=16–56			iN=20–45			iN=50–71			iN=63–90			G1	G3
	d1 1)	l1	l3	d1 1)	l1	l3	d1 1)	l1	l3	d1 1)	l1	l3	d1 1)	l1	l3		
3							28	55	40	20	50	35				430	445
4	30	70	50							25	60	40				500	520
5	35	80	60							28	60	40				575	595
06				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

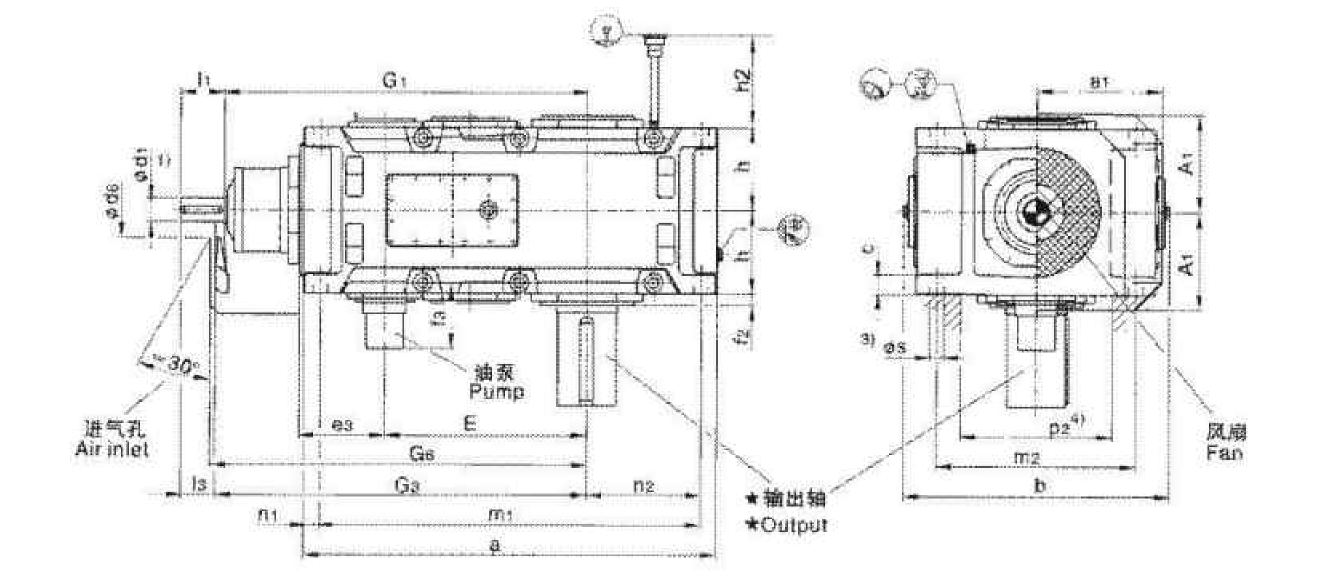
规格 Size	尺寸 mm Dimensions in mm											
	齿轮箱 Gear units											
	a	A1	b1	B1	c	d6	e3	e4	e5	e6	E	f2
3	450	128	150	170	24 ± 1	90	90	175	185	290	220	20
4	565	143	150	200	30 ± 1	110	110	200	215	320	270	22
5	640	168	240	235	30 ± 1	130	130	230	252	385	315	28
6	720	168	240	235	30 ± 1	130	130	230	252	425	350	28
7	785	193	240	275	36 ± 1	165	160	280	292	425	385	30
8	890	193	240	275	36 ± 1	165	160	280	302	485	430	32
9	925	231	330	325	45 ± 1.5	175	185	320	342	560	450	32
10	1025	231	330	325	45 ± 1.5	175	185	320	342	610	500	32
11	1105	263	330	385	54 ± 1.5	190	225	380	402	595	545	35
12	1260	263	330	385	54 ± 1.5	190	225	380	410	680	615	35

规格 Size	尺寸 mm Dimensions in mm											
	齿轮箱 Gear units											
	f3	G6	h	h1	h2	h3	m1	m2	n1	n2	p2 4)	s
3	–	455	95	165	–	180	410	265	20	125	210	18
4	–	530	107.5	165	–	180	505	300	30	160	220	24
5	190	605	127.5	205	180	240	580	360	30	175	270	24
6	190	640	127.5	205	180	240	660	360	30	220	270	24
7	190	720	150	205	165	250	715	430	35	215	330	28
8	190	765	150	205	165	250	820	430	35	275	330	28
9	180	845	185	275	205	330	845	490	40	260	370	36
10	180	895	185	275	205	330	945	490	40	310	370	36
11	180	1010	215	275	240	340	1005	600	50	295	440	40
12	180	1080	215	275	240	340	1160	600	50	380	440	40

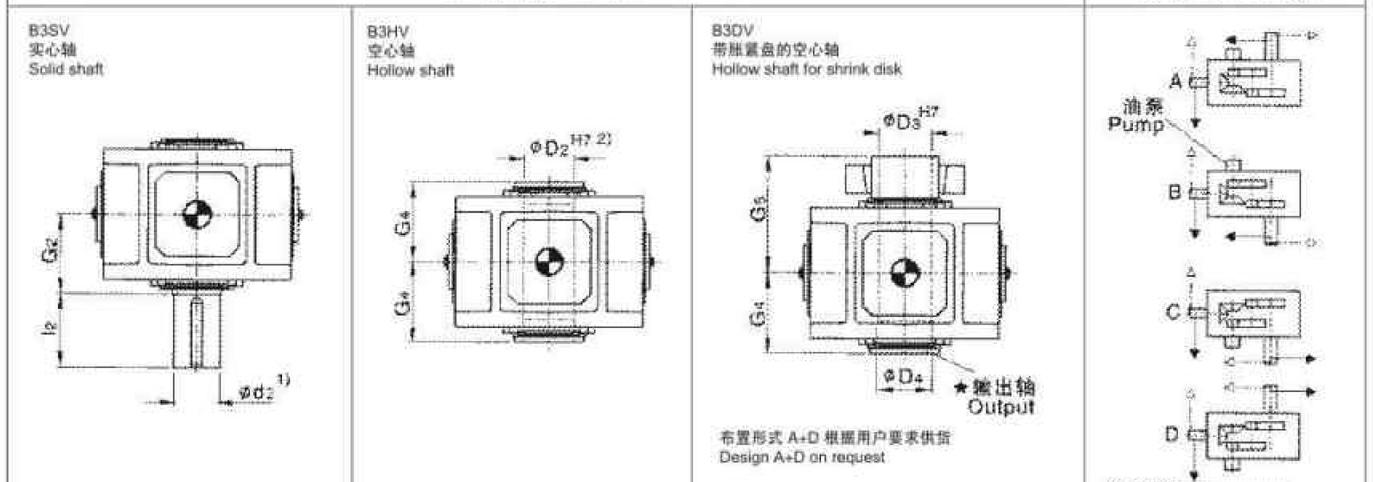
规格 Size	尺寸 mm Dimensions in mm									润滑油 Lubrication		重量 Weight (kg)
	输出轴 Output									浸油润滑 Dip lubrication (L)	强制润滑 Forced lubrication (L)	
	B3SV			B3HV		B3DV						
	d2 1)	G2	l2	D2 2)	G4	D3	D4	G4	G5			
3	65	125	140	65	125	70	70	125	180	15	–	130
4	80	140	170	80	140	85	85	140	205	28	–	210
5	100	165	210	95	165	100	100	165	240	32	12	325
6	110	165	210	105	165	110	110	165	240	35	13	380
7	120	195	210	115	195	120	120	195	280	52	22	550
8	130	195	250	125	195	130	130	195	285	67	28	635
9	140	235	250	135	235	140	145	235	330	115	48	890
10	160	235	300	150	235	150	155	235	350	125	52	1020
11	170	270	300	165	270	165	170	270	400	180	75	1455
12	180	270	300	180	270	180	185	270	405	200	85	1730

直交轴齿轮箱 Bevel–helical Gear Units　三级传动 Three Stage　立式安装 Vertical
类型 Types B3.V　规格 Sizes 13...18

B3SV B3HV B3DV
采用强制润滑 With forced lubrication



★ 输出轴 Output　布置形式 Design



1）$k_6 \leq \Phi 50$　$m_6 > \Phi 50$
有关平键GB/T1095–1979型和中心孔，参见第98–99页。For parallel key GB/T1095–1979 and for centre hole,see page 98–99.
2）键槽GB/T1095–1979。Keyway GB/T1095–1979.
3）扭力支撑位于工作机侧。Torque support on driven machine side.
4）有关油泵，油管和护盖的安装空间及确切尺寸，请与我们联系。Space for pump, pipes and cover, for exact dimension, please refer to us.

直交轴齿轮箱 Bevel–helical Gear Units　三级传动 Three Stage　立式安装 Vertical
类型 Types B3.V　规格 Sizes 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			G1	G3
	d1 1)	l1	l3	d1 1)	l1	l3	d1 1)	l1	l3	d1 1)	l1	l3	d1 1)	l1	l3	d1 1)	l1	l3		
13	80	165	130							60	140	105							1125	1160
14							80	165	130							60	140	105	1195	1230
15	90	165	130							70	140	105							1367	1402
16				90	165	130							70	140	105				1413	1448
17	110	205	165							80	170	130							1560	1600
18				110	205	165							80	170	130				1620	1660
19										根据用户要求供货 On request										
20																				
21																				
22																				

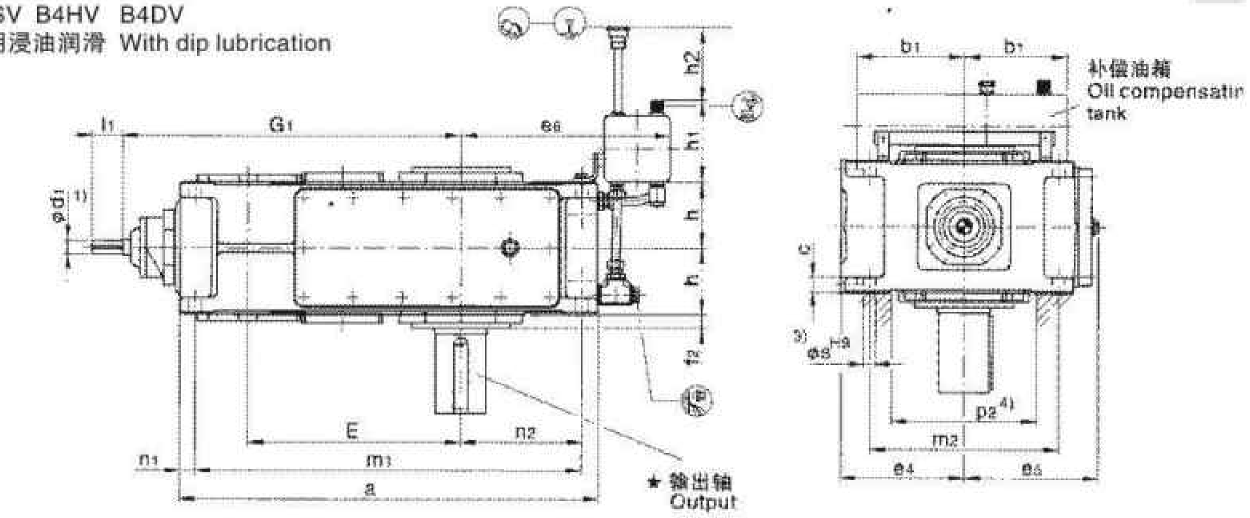
规格 Size	尺寸 mm Dimensions in mm 齿轮箱 Gear units									
	a	A1	b	B1	c	d6	e3	E	f2	f3
13	1290	325	900	475	61 ± 2	210	265	635	35	170
14	1430	325	900	475	61 ± 2	210	265	705	35	170
15	1550	365	980	520	72 ± 2	210	320	762	42	170
16	1640	365	980	520	72 ± 2	210	320	808	42	170
17	1740	395	1110	570	81 ± 2	230	370	860	42	170
18	1860	395	1110	570	81 ± 2	230	370	920	42	170
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								
	G6	h	h2	m1	m2	n1	n2	p2 4)	s
13	1180	272.5	300	1195	680	50	360	500	48
14	1250	272.5	300	1335	680	50	430	500	48
15	1420	310	340	1435	750	60	430	570	55
16	1470	310	340	1525	750	60	475	570	55
17	1620	340	380	1610	850	70	465	630	55
18	1680	340	380	1730	850	70	525	630	55
19				根据用户要求供货 On request					
20									
21									
22									

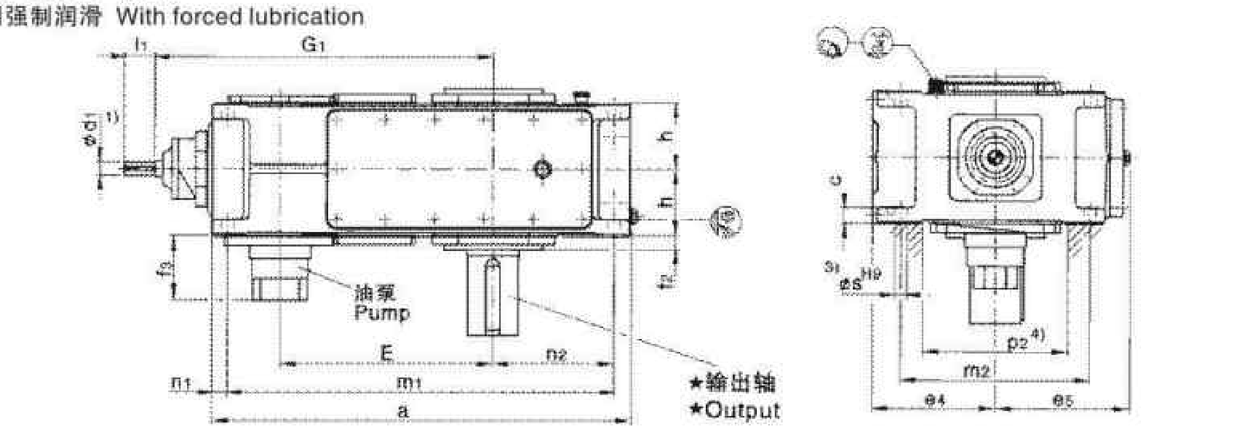
规格 Size	尺寸 mm Dimensions in mm 输出轴 Output									润滑油 Lubrication (L)	重量 Weight (kg)
	B3SV			B3HV		B3DV					
	d2 1)	G2	l2	D2 1)	G4	D3	D4	G4	G5		
13	200	335	350	190	335	190	195	335	480	95	2260
14	210	335	350	210	335	210	215	335	480	110	2615
15	230	380	410	230	380	230	235	380	550	165	3540
16	240	380	410	240	380	240	245	380	550	190	3765
17	250	415	410	250	415	250	260	415	600	210	4760
18	270	415	470	275	415	280	285	415	600	240	5240
19						根据用户要求供货 On request					
20											
21											
22											

直交轴齿轮箱 Bevel–helical Gear Units　四级传动 Four Stage　立式安装 Vertical
类型 Types B4.V　规格 Sizes 5...12

B4SV B4HV B4DV
采用浸油润滑 With dip lubrication

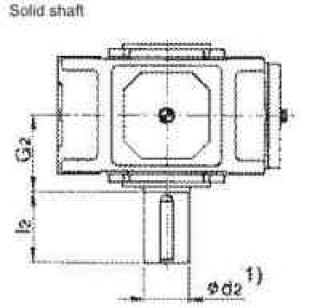


B4SV B4HV B4DV
采用强制润滑 With forced lubrication

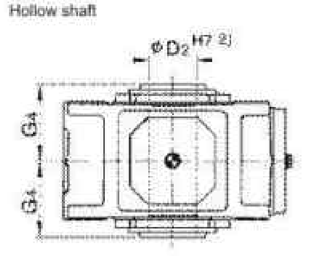


★ 输出轴 Output　布置形式 Design

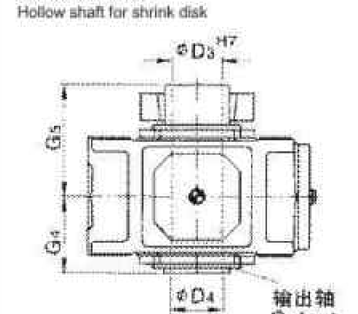
B4SV
实心轴
Solid shaft



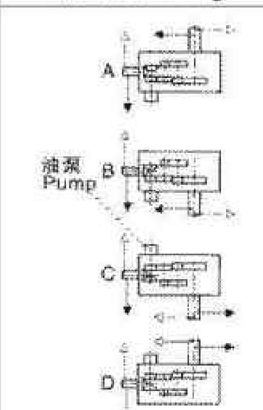
B4HV
空心轴
Hollow shaft



B4DV
带胀紧盘的空心轴
Hollow shaft for shrink disk



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



1）$k_s \le \Phi 50$ $m_s > \Phi 50$
有关平键GB/T1095–1979型和中心孔，参见第98–99页。For parallel key GB/T1095–1979 and for centre hole,see page 98–99.
2）键槽GB/T1095–1979。Keyway GB/T1095–1979.
3）扭力支撑位于工作机侧。Torque support on driven machine side.
4）有关油泵，油管和护盖的安装空间及确切尺寸，请与我们联系。Space for pump, pipes and cover, for exact dimension, please refer to us.

H/B工业齿轮箱 GEAR UNITS

直交轴齿轮箱 Bevel–helical Gear Units　四级传动 Four Stage　立式安装 Vertical
类型 Types B4.V　规格 Sizes 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		G1
	d1[1]	l1	d1[1]	l1	d1[1]	l1	d1[1]	l1	
5	28	55			20	50			615
6			28	55			20	50	650
7	30	70			25	60			725
8			30	70			25	60	770
9	35	80			28	60			840
10			35	80			28	60	890
11	45	100			35	80			1010
12			45	100			35	80	1080

规格 Size	尺寸 mm Dimensions in mm 齿轮箱 Gear units								
	a	b1	c	e4	e5	e6	E	f2	f3
5	690	240	30 ± 1	230	252	385	405	28	200
6	770	240	30 ± 1	230	252	425	440	28	200
7	845	240	36 ± 1	280	292	425	495	30	120
8	950	240	36 ± 1	280	302	485	540	32	120
9	1000	330	45 ± 1.5	320	342	560	580	32	120
10	1100	330	45 ± 1.5	320	342	610	630	32	120
11	1200	330	54 ± 1.5	380	402	595	705	35	130
12	1355	330	54 ± 1.5	380	410	680	775	35	130

规格 Size	尺寸 mm Dimensions in mm 齿轮箱 Gear units									
	h	h1	h2	h3	m1	m2	n1	n2	p2	s
5	127.5	205	190	240	630	360	30	175	270	24
6	127.5	205	190	240	710	360	30	220	270	24
7	150	205	165	250	775	430	35	215	330	28
8	150	205	165	250	880	430	35	275	330	28
9	185	275	205	330	920	490	40	260	370	36
10	185	275	205	330	1020	490	40	310	370	36
11	215	275	240	340	1100	600	50	295	440	40
12	215	275	240	340	1255	600	50	380	440	40

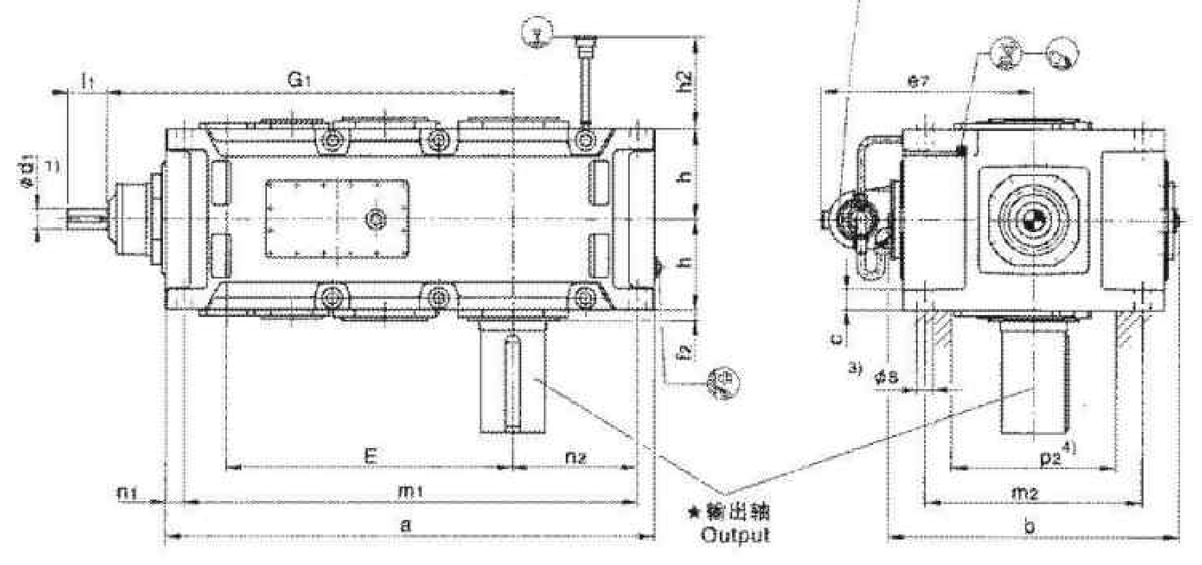
规格 Size	尺寸 mm Dimensions in mm 输出轴 Output									润滑油 Lubrication		重量 Weight (kg)
	B4SV			B4HV		B4DV				浸油润滑 Dip lubrication (L)	强制润滑 Forced lubrication (L)	
	d2[1]	G2	l2	D2[2]	G4	D3	D4	G4	G5			
5	100	165	210	95	165	100	100	165	240	36	15	335
6	110	165	210	105	165	110	110	165	240	40	16	385
7	120	195	210	115	195	120	120	195	280	60	30	555
8	130	195	250	125	195	130	130	195	285	70	35	655
9	140	235	250	135	235	140	145	235	330	110	60	890
10	160	235	300	150	235	150	155	235	350	130	67	1025
11	170	270	300	165	270	165	170	270	400	180	75	1485
12	180	270	300	180	270	180	185	270	405	195	85	1750

直交轴齿轮箱 Bevel–helical Gear Units　　四级传动 Four Stage　　立式安装 Vertical

类型 Types B4.V　　规格 Sizes 13...18

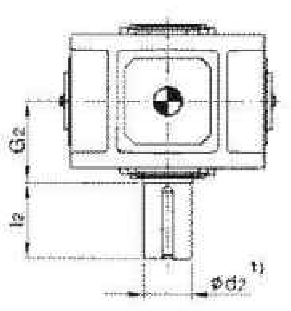
B4SV B4HV B4DV

采用浸油润滑 With dip lubrication

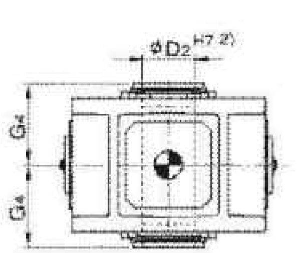


★ 输出轴 Output　　布置形式 Design

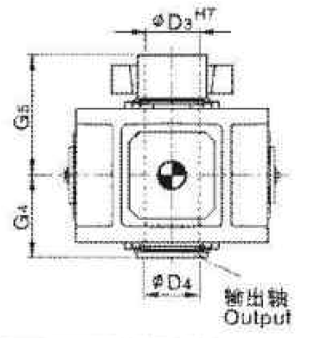
B4SV
实心轴
Solid shaft



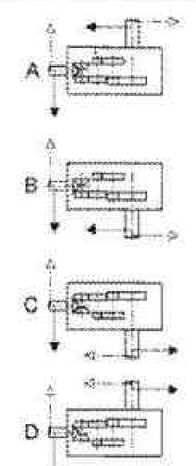
B4HV
空心轴
Hollow shaft



B4DV
带胀紧盘的空心轴
Hollow shaft for shrink disk



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



1）$k_6 \le \Phi 50$ $m_6 > \Phi 50$

有关平键GB/T1095–1979型和中心孔，参见第98–99页。For parallel key GB/T1095–1979 and for centre hole,see page 98–99.

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

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

4）有关油泵，油管和护盖的安装空间及确切尺寸，请与我们联系。Space for pump, pipes and cover, for exact dimension, please refer to us.

直交轴齿轮箱 Bevel–helical Gear Units　　四级传动 Four Stage　　立式安装 Vertical

类型 Types B4.V　　规格 Sizes 13...18

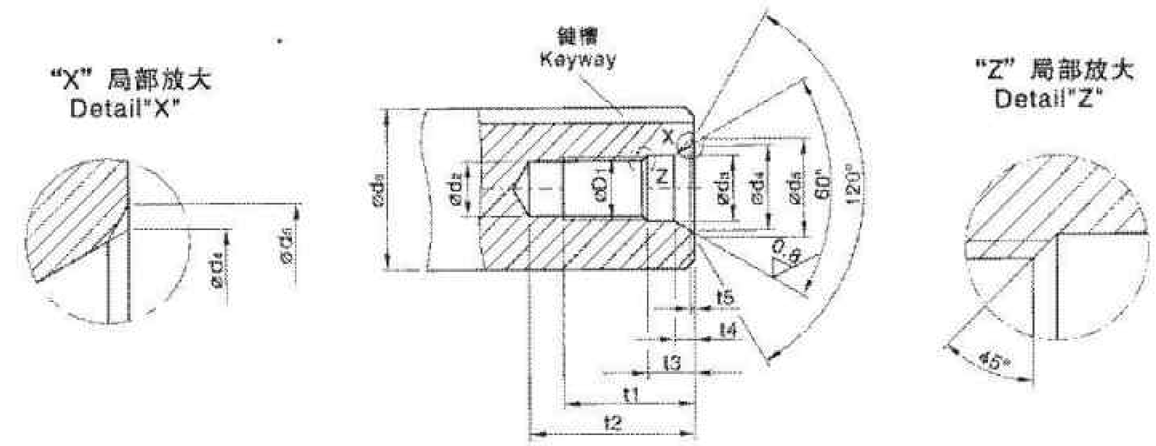
规格 Size	尺寸 mm Dimensions in mm 输入轴 Input												
	iN=80–180		iN=90–200		iN=100–224		iN=200–315		iN=224–355		iN=250–400		G1
	d1[1]	l1	d1[1]	l1	d1[1]	l1	d1[1]	l1	d1[1]	l1	d1[1]	l1	
13	55	110					40	100					1170
14					55	110					40	100	1240
15	70	135					50	110					1402
16			70	135					50	110			1448
17	70	135					50	110					1450
18			70	135					50	110			1510
19					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	e7	E	f2	h	h2	m1	m2	n1	n2	p2	s
13	1395	900	61 ± 2	695	820	35	272.5	300	1300	680	50	360	500	48
14	1535	900	61 ± 2	695	890	35	272.5	300	1440	680	50	430	500	48
15	1680	980	72 ± 2	735	987	42	310	340	1565	750	60	430	570	55
16	1770	980	72 ± 2	735	1033	42	310	340	1655	750	60	475	570	55
17	1770	1110	81 ± 2	795	1035	42	340	374	1640	850	70	465	630	55
18	1890	1110	81 ± 2	795	1095	42	340	374	1760	850	70	525	630	55
19							根据用户要求供货 On request							
20														
21														
22														

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

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

C 型中心孔　From C
锥孔，带一段直孔和护锥沉孔　Tapped hole,with straight running face and counterbore



推荐尺寸 Recommended diameters d6[1]		C 型 Fromc											
大于 above	至 to	C 中心孔 C_ Centering	d1	d2	d3	d4	d5	t1 +2	t2 min.	t2 max.	t3 +1	t4 ≈	t5 ≈
mm			mm										
16	21	C 6	M6	5	6.4	9.6	10.5	16	20	22	5	2.8	0.4
21	24	C 8	M8	6.8	8.4	12.2	13.2	19	25	28	6	3.3	0.4
24	30	C 10	M10	8.5	10.5	14.9	16.3	22	30	34	7.5	3.8	0.6
30	38	C 12	M12	10.2	13	18.1	19.8	28	37	42	9.5	4.4	0.7
38	50	C 16	M16	14	17	23	25.3	36	45	50	12	5.2	1.0
50	85	C 20	M20	17.5	21	28.4	31.3	42	53	59	15	6.4	1.3
85	130	C 24	M24	21	25	34.2	38	50	63	68	18	8	1.6
130*	225*	C 30	M30*	26.5	31	44	48	60	77	83	17	11	1.9
225*	320*	C 36	M36*	32	37	55	60	74	93	99	22	15	2.3
220*	500*	C 42	M42*	37.5	43	65	71	84	105	111	26	19	2.7

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

齿轮箱 Gear Units
选择 ISO 配合精度 Selection of ISO fits
平键和键槽 Parallel keys keyways

选择 ISO 配合精度　Selection of ISO fits

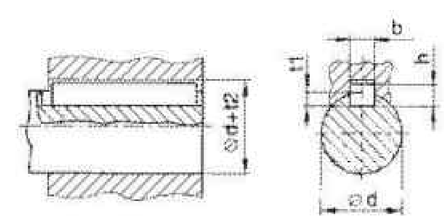
选择 ISO 配合精度 Selection of ISO fits	轴 Shaft d 大于 Above mm	轴 Shaft d 至 To mm	轴公差 Shaft tolerance	孔公差 Bore tolerance
轴公差根据 OMITER 标准确定 Shaft tolerance acc. To OMITER standard		50	k6	H7
	50		m6	

对于重载工件条件，如带载反向回转，建议采用比较紧密的配合，轮毂键槽宽度亦应选择 ISO P9 公差级别。
For heavy-duty operating conditions, e.g. reversing under load, it is recommended that a tighter fit and for the hub keyway width the ISO P9 tolerance is selected.

平键 parallel keys

平键紧固方式，采用无锥度联接。
Drive type fastening without taper action

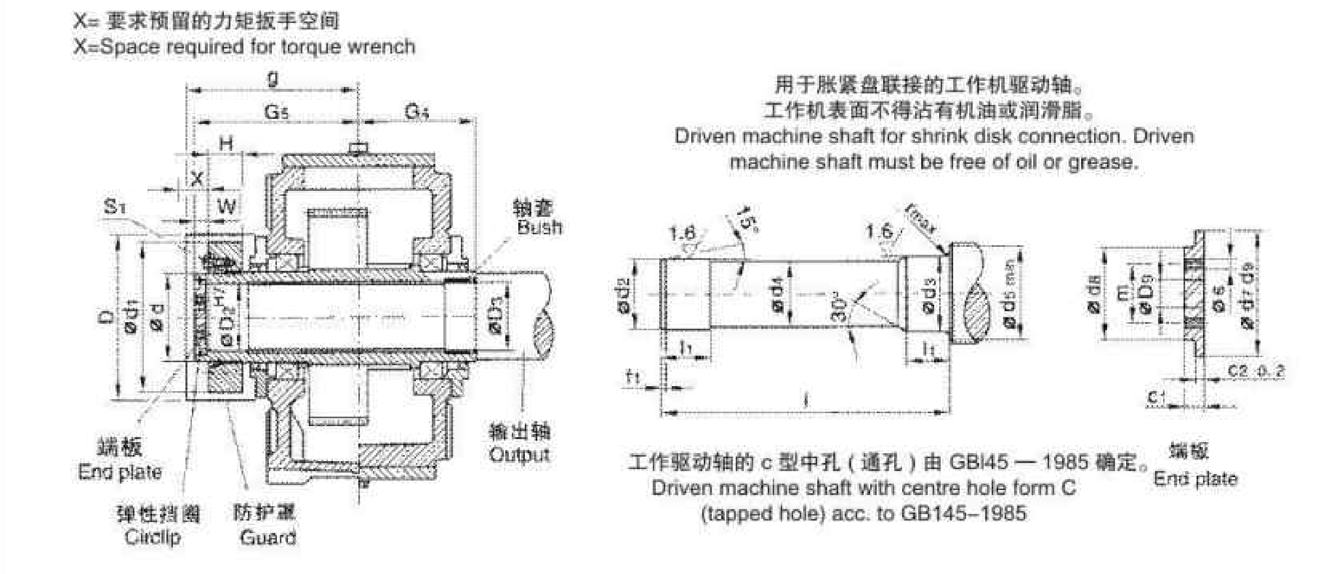
平键和键槽根据 GB ／ T1095-1979 标准确
Parallel key and keyway acc. to GB/T1095-1979



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

直径 Diameter d 大于 Above mm	直径 Diameter d 至 To mm	宽度 1) Width1) b 1) mm	高度 Height h mm	轴键槽深度 Depth of key-way in shaft t1 mm	轮毂槽深度 Depth of key-way in hub d+t2 GB/T1095-1979 mm
17	22	6	6	3.5	d+2.8
22	30	8	7	4	d+3.3
30	38	10	8	5	d+3.3
38	44	12	8	5	d+3.3
44	50	14	9	5.5	d+3.8
50	58	16	10	6	d+4.3
58	65	18	11	7	d+4.4
65	75	20	12	7.5	d+4.9
75	85	22	14	9	d+5.4
85	95	25	14	9	d+5.4
95	110	28	16	10	d+6.4
110	130	32	18	11	d+7.4
130	150	36	20	12	d+8.4
150	170	40	22	13	d+9.4
170	200	45	25	15	d+10.4
200	230	50	28	17	d+11.4
230	260	56	32	20	d+12.4
260	290	63	32	20	d+12.4
290	330	70	36	22	d+14.4
330	380	80	40	25	d+15.4
380	440	90	45	28	d+17.4

齿轮箱 Gear Units　带胀紧盘的空心轴 Hollow Shaft For Shrink Disk
类型 Types H2, H3, H4, B3, B4　规格 Sizes 3...26

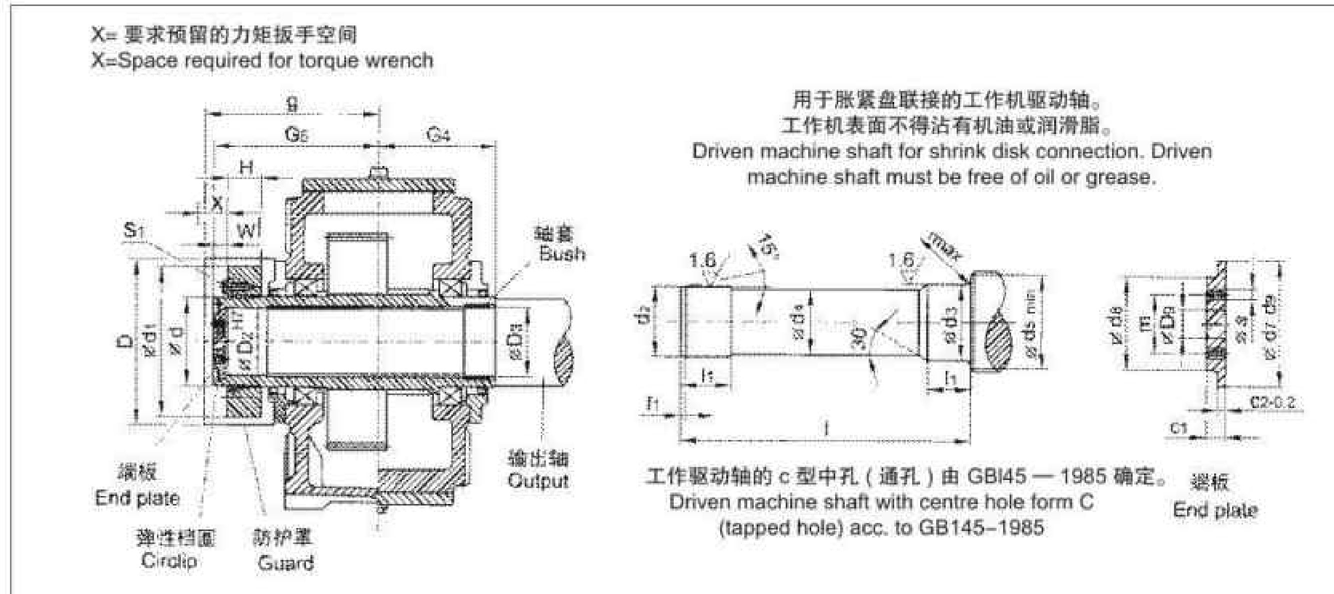


类型 H2、H3、H4、B3、B4 Type H2、H3、H4、B3、B4																											
齿轮箱规格 Gear units size	工作机驱动轴 2) Driven machine shaft								端板 End plate								弹性挡圈 Ring Circlip	空心轴 Hollow shaft				胀紧盘 1) Shrink disk					螺钉 Screw
	d_2	d_3	d_4	d_5	f_1	l	l_1	r	c_1	c_2	d_7	d_8	D_4	m	s	数量 Qty.	GB89/ 3.2-86	D2	D3	G4	G5	类型 Type	d	d1	H	W	s1
	mm																mm										
3	70 g6	70 g6	69.5	80	4	286	38	2	17	7	75	55	22	40	M8	2	75 × 2.5	70	70	125	180	90–32	90	155	38	20	M10
4	85 g6	85 h6	84.5	95	4	326	48	2	17	7	90	70	22	50	M8	2	90 × 3	85	85	140	205	110–32	110	185	49	20	M12
5	100 g6	100h6	99.5	114	4	383	53	2	20	8	105	80	26	55	M10	2	105 × 4	100	100	165	240	125–32	125	215	53	20	M12
6	110 g6	110h6	109.5	124	5	383	58	3	20	8	115	85	26	60	M10	2	115 × 4	110	110	165	240	140–32	140	230	58	20	M14
7	120 g6	120h6	119.5	134	5	453	68	3	20	8	125	90	26	65	M12	2	125 × 4	120	120	195	280	155–32	155	263	62	23	M14
8	130 g6	130h6	129.5	145	5	458	73	3	20	8	135	100	26	70	M12	2	135 × 4	130	130	195	285	165–32	165	290	68	23	M16
9	140 g6	145m6	139.5	160	6	539	82	4	23	10	150	110	33	80	M12	2	150 × 4	140	145	235	330	175–32	175	300	68	28	M16
10	150 g6	155m6	149.5	170	6	559	92	4	23	10	160	120	33	90	M12	2	160 × 4	150	155	235	350	200–32	200	340	85	28	M16
11	165 f6	170m6	164.5	185	7	644	112	4	23	10	175	130	33	90	M12	2	175 × 4	165	170	270	400	220–32	220	370	103	30	M20
12	180 f6	185m6	179.5	200	7	649	122	4	23	10	190	140	33	100	M16	2	190 × 4	180	185	270	405	240–32	240	405	107	30	M20
13	190 f6	195m6	189.5	213	7	789	137	5	23	10	200	150	33	110	M16	2	200 × 4	190	195	335	480	260–32	260	430	119	30	M20
14	210 f6	215m6	209.5	233	8	784	147	5	28	14	220	170	33	130	M16	2	220 × 5	210	215	335	480	280–32	280	460	132	30	M20
15	230 f6	235m6	229.5	253	8	899	157	5	28	14	240	180	39	140	M16	2	240 × 5	230	235	380	550	300–32	300	485	140	35	M24
16	240 f6	245m6	239.5	263	8	899	157	5	28	14	250	190	39	150	M20	2	250 × 5	240	245	380	550	320–32	320	520	140	35	M24
17	250 f6	260m6	249.5	278	8	982	177	5	30	14	265	200	39	150	M20	2	265 × 5	250	260	415	600	340–32	340	570	155	35	M24
18	280 f6	285m6	279.5	306	9	982	177	5	30	14	290	210	39	160	M20	2	290 × 5	280	285	415	600	360–32	360	590	162	35	M24
19	285 f6	295m6	284.5	316	9	1100	187	5	32	15	300	220	39	170	M24	2	300 × 5	285	295	465	670	380–32	380	640	166	40	M27
20	310 f6	315m6	309.5	336	9	1100	187	5	32	15	320	230	39	180	M24	2	320 × 6	310	315	465	670	390–32	390	650	166	40	M27
21	330 f6	335m6	329	358	9	1160	205	5	40	20	340	250	45	190	M24	2	340 × 6	330	335	490	715	420–32	420	670	186	45	M27
22	340 f6	345m6	339	368	9	1170	215	5	40	20	350	260	45	200	M24	2	350 × 6	340	345	490	725	440–32	440	720	194	45	M27
23	根据用户要求供货 On requset																										
24																											
25																											
26																											

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：60或强度更高的钢。根据用户要求，胀紧盘可布置在工作机侧。工作机驱动轴尺寸函索即复。
Material of driver machine shaft:60 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 Types B2D　规格 Sizes 2...18

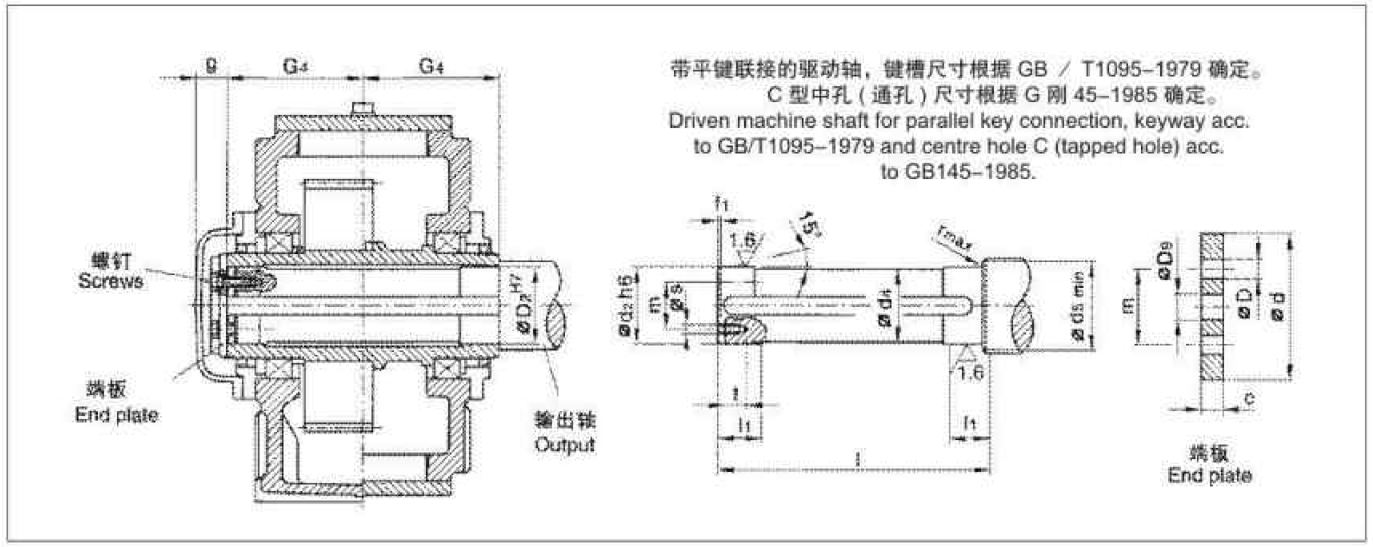


类型 B2D Type B2D																													
齿轮箱规格 Gear units size	工作机驱动轴 2) Driven machine shaft								端板 End plate								弹性挡圈 Ring Circlip	空心轴 Hollow shaft				胀紧盘 1) Shrink disk					螺钉 Screw	防护罩 Guard	
	d_2	d_3	d_4	d_5	f_1	l	l_1	r	c_1	c_2	d_7	d_8	d_6	m	s	数量 Qty.	GB89/ 3.2-86	D2	D3	G4	G5	类型 Type	d	d1	H	W	s1	D	g
	mm																mm												
2	60 g6	60 g6	59.5	70	3	300	36	2	13	6	65	47	22	35	M6	2	65 × 2.5	60	60	135	180	80–32	80	141	31	16	M10	180	200
3	70g6	70 h6	69.5	80	4	326	38	2	17	7	75	55	22	40	M8	2	75 × 2.5	70	70	145	200	90–32	90	155	38	20	M10	200	220
4	85g6	85h6	84.5	95	4	386	48	2	17	7	90	70	22	50	M8	2	90 × 3	85	85	170	235	110–32	110	185	49	20	M12	235	250
5	100g6	100h6	99.5	114	5	453	53	2	20	8	105	80	26	55	M10	2	105 × 4	100	100	200	275	125–32	125	215	53	20	M12	275	285
6	110g6	110h6	109.5	124	5	453	58	3	20	8	115	85	26	60	M10	2	15 × 4	110	110	200	275	140–32	140	230	58	20	M14	285	285
7	120g6	120h6	119.5	134	5	533	68	3	20	8	125	90	26	65	M12	2	125 × 4	120	120	235	320	155–32	155	263	62	23	M14	330	335
8	130g6	130h6	129.5	145	6	538	73	3	20	8	135	100	26	70	M12	2	135 × 4	130	130	235	325	165–32	165	290	68	23	M16	340	340
9	140g6	145m6	139.5	160	6	609	82	4	23	10	150	110	33	80	M12	2	150 × 4	140	145	270	365	175–32	175	300	68	28	M16	360	380
10	150g6	155m6	149.5	170	6	629	92	4	23	10	160	120	33	90	M12	2	160 × 4	150	155	270	385	200–32	200	340	85	28	M16	395	400
11	165f6	170m6	164.5	185	7	744	112	4	23	10	175	130	33	90	M12	2	175 × 4	165	170	320	450	220–32	220	370	103	30	M20	435	470
12	180f6	185m6	179.5	200	7	749	122	4	23	10	190	140	33	100	M16	2	190 × 4	180	185	320	455	240–32	240	405	107	30	M20	450	470
14	210f6	215m6	209.5	233	8	894	147	5	28	14	220	170	33	130	M16	2	220 × 5	210	215	390	535	280–32	280	460	132	30	M20	525	555
16	240f6	245m6	239.5	263	8	1039	157	5	28	14	250	190	39	150	M20	2	250 × 5	240	245	450	620	320–32	320	520	140	35	M24	595	645
18	280f6	285m6	279.5	306	9	1177	177	5	30	14	290	210	39	160	M20	2	290 × 5	280	285	510	700	360–32	360	590	162	35	M24	635	725

1）胀紧盘不在我们的供货范围之内。如有需要的话，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：60或强度更高的钢。根据用户要求，胀紧盘可布置在工作机侧。工作机驱动轴尺寸函索即复。
Material of driver machine shaft:60 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 Shafts for Parallel Key Connections
类型 Types H2, H3, H4, B3, B4　　规格 Sizes 2...18

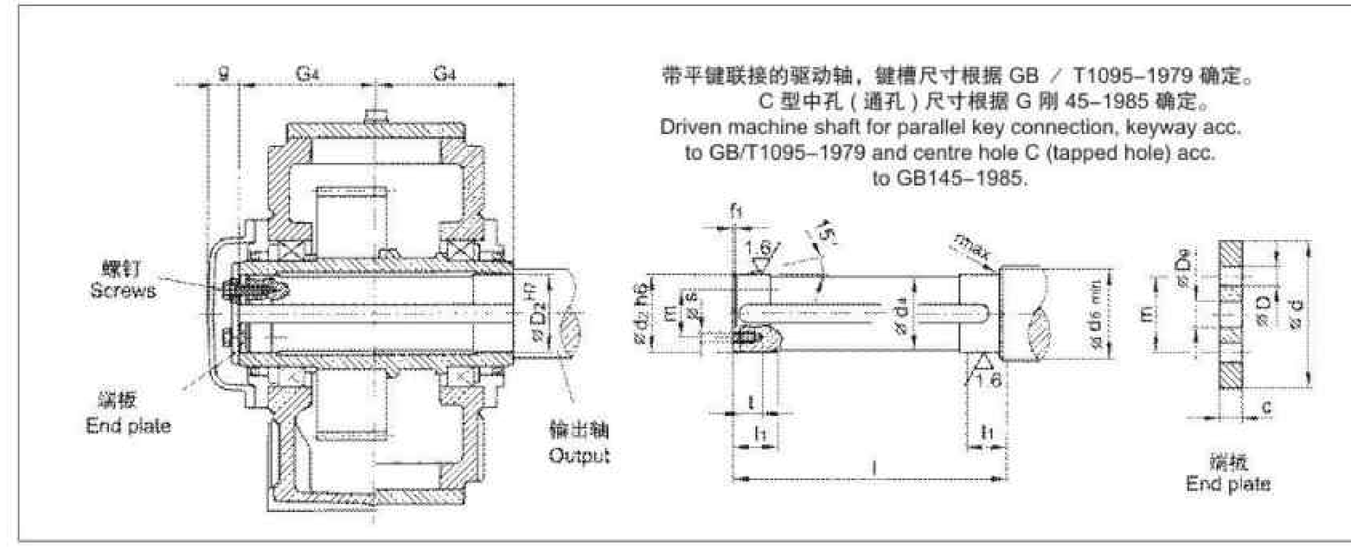


类型 H2，H3，H4，B3，B4 Type H2，H3，H4，B3，B4

齿轮箱规格 Gear units size	工作机驱动轴[1] Driven machine shaft									端板 End plate					螺钉 Screw		空心轴 Hollow shaft		
	d_2	d_4	d_5	f_1	l	l_1	r	s	t	c	D	D_9	d	m	规格 Size	数量 Qty.	D2	G4	g
	mm																mm		
3	65	64.5	73	4	248	30	1.2	M10	18	8	11	18	78	45	M10 × 25	2	65	125	35
4	80	79.5	88	4	278	35	1.2	M10	18	10	11	22	100	60	M10 × 25	2	80	140	35
5	95	94.5	105	5	328	40	1.6	M10	18	10	11	26	120	70	M10 × 25	2	95	165	40
6	105	104.5	116	5	328	45	1.6	M10	18	10	11	26	120	70	M10 × 25	2	105	165	40
7	115	114.5	126	5	388	50	1.6	M12	20	12	13.5	26	140	80	M12 × 30	2	115	195	40
8	125	124.5	136	6	388	55	2.5	M12	20	12	13.5	26	150	85	M12 × 30	2	125	195	40
9	135	134.5	147	6	467	60	2.5	M12	20	12	13.5	33	160	90	M12 × 30	2	135	235	45
10	150	149.5	162	6	467	65	2.5	M12	20	12	13.5	33	185	110	M12 × 30	2	150	235	45
11	165	164.5	177	7	537	70	2.5	M16	28	15	17.5	33	195	120	M16 × 40	2	165	270	45
12	180	179.5	192	7	537	75	2.5	M16	28	15	17.5	33	220	130	M16 × 40	2	180	270	45
13	190	189.5	206	7	667	80	3	M16	28	18	17.5	33	230	140	M16 × 40	2	190	335	45
14	210	209.5	226	8	667	85	3	M16	28	18	17.5	33	250	160	M16 × 40	2	210	335	45
15	230	229.5	248	8	756	100	3	M20	38	25	22	39	270	180	M20 × 55	4	230	380	60
16	240	239.5	258	8	756	100	3	M20	38	25	22	39	280	180	M20 × 55	4	240	380	60
17	250	249.5	270	8	826	110	4	M20	38	25	22	39	300	190	M20 × 55	4	250	415	60
18	275	274.5	295	9	826	120	4	M20	38	25	22	39	330	210	M20 × 55	4	275	415	60

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

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



类型 B2H　　Type B2H

齿轮箱规格 Gear units size	工作机驱动轴[1] Driven machine shaft									端板 End plate					螺钉 Screw		空心轴 Hollow shaft		
	d_2	d_4	d_5	f_1	l	l_1	r	s	t	c	D	D_9	d	m	规格 Size	数量 Qty.	D2	G4	g
	mm																mm		
2	55	54.5	63	3	268	30	1.2	M8	15	8	9	18	70	40	M8 × 20	2	55	135	35
3	65	64.5	73	4	288	30	1.2	M10	18	8	11	18	78	45	M10 × 25	2	65	145	35
4	80	79.5	88	4	338	35	1.2	M10	18	10	11	22	100	60	M10 × 25	2	80	170	35
5	95	94.5	105	5	398	40	1.6	M10	18	10	11	26	120	70	M10 × 25	2	95	200	40
6	105	104.5	116	5	398	45	1.6	M10	18	10	11	26	120	70	M10 × 25	2	105	200	40
7	115	114.5	126	5	468	50	1.6	M12	20	12	13.5	26	140	80	M12 × 30	2	115	235	40
8	125	124.5	136	6	468	55	2.5	M12	20	12	13.5	26	150	85	M12 × 30	2	125	235	40
9	135	134.5	147	6	537	60	2.5	M12	20	12	13.5	33	160	90	M12 × 30	2	135	270	45
10	150	149.5	162	6	537	65	2.5	M12	20	12	13.5	33	185	110	M12 × 30	2	150	270	45
11	165	164.5	177	7	637	70	2.5	M16	28	15	17.5	33	195	120	M16 × 40	2	165	320	45
12	180	179.5	192	7	637	75	2.5	M16	28	15	17.5	33	220	130	M16 × 40	2	180	320	45
14	210	209.5	226	8	777	85	3	M16	28	18	17.5	33	250	160	M16 × 40	2	210	390	45
16	240	239.5	258	8	896	100	3	M20	38	25	22	39	280	180	M20 × 55	4	240	450	60
18	275	274.5	295	9	1016	120	4	M20	38	25	22	39	330	210	M20 × 55	4	275	510	60

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

平行轴齿轮箱 Helical Gear Units　　实际速比 Actual Ratios
类型 Types H1.., H2.., H3.., H4..　　规格 Sizes 1...13

iN	实际速比 Actual Ratios 齿轮箱规格 Gear unit size 1	2	3	4	5	6	7	8	9	10	11	12	13
1.25	1.250		1.243		1.256		1.263		1.270				
1.4	1.415		1.371		1.378		1.389		1.400				
1.6	1.605		1.594		1.588		1.606		1.625		1.636		1.588
1.8	1.829		1.829		1.839		1.774		1.800		1.806		1.839
2.0	2.000		2.000		2.034		1.966		2.000		2.000		2.034
2.24	2.194		2.194		2.259		2.308		2.231		2.222		2.259
2.5	2.536		2.536		2.520		2.583		2.500		2.480		2.520
2.8	2.808		2.808		2.826		2.800		2.741		2.783		2.826
3.15	3.125		3.125		3.190		3.130		3.208		3.080		3.208
3.55	3.500		3.500		3.591		3.524		3.591		3.478		3.591
4.0	3.950		3.950		4.050		4.000		4.050		3.905		4.050
4.5	4.476		4.435		4.619		4.400		4.381		4.421		4.619
5.0	5.053		4.952		4.900		4.905		4.947		5.150		4.900
5.6	5.571		5.579		5.556		5.526		5.684		5.474		5.556
6.3			6.232	6.319	6.286		6.088		6.260		6.246		6.410
7.1			7.099	6.857	7.213		7..048		7.247		6.900		7.100
8.0			7.765	7.778	7.889	7.792	7.799	7.676	8.018	7.848	7.644	7.941	7.889
9.0			8.516	8.485	8.652	8.940	8.660	8.887	8.904	9.085	8.974	8.772	8.799
10			9.845	9.722	10.002	9.778	9.660	9.833	9.932	10.053	10.046	9.718	9.861
11.2			10.900	10.694	11.075	10.724	10.648	10.920	11.138	11.163	10.889	11.410	10.811
12.5			12.132	12.444	12.326	12.397	11.807	12.180	12.574	12.452	12.174	12.773	12.655
14			13.588	13.865	13.806	13.726	13.939	13.426	14.152	13.964	13.704	13.844	14.164
16			15.335	15.556	15.581	15.278	15.717	14.887	15.962	15.765	15.556	15.478	15.975
18			17.378	17.602	17.493	17.111	17.598	17.576	18.204	17.743	17.111	17.423	17.280
20			19.616	19.444	19.534	19.311	19.742	19.817	19.312	20.012	19.074	19.778	19.515
22.4			21.630	22.037	22.006	21.681	20.982	22.189	21.895	22.824	21.491	21.756	22.020
25					25.011	24.212	25.540	24.892	25.439	24.212	24.706	24.251	25.372
28					28.490	27.275	27.711	26.456	29.187	27.451	28.602	27.325	29.373
31.5					31.161	30.999	31.433	32.202	31.924	31.894	31.648	31.412	32.501
35.5					34.177	35.312	34.291	34.940	35.013	36.593	35.144	36.366	36.092
40					39.508	38.622	39.292	39.633	40.474	40.024	39.200	40.238	40.257
45					43.745	42.360	43.221	43.236	44.816	43.897	43.210	44.683	45.147
50					48.689	48.967	50.293	49.542	49.881	50.744	47.911	49.840	50.968
56					54.532	54.220	56.033	54.496	55.866	56.187	56.566	54.938	57.365
63					61.543	60.347	62.867	63.413	63.049	62.537	63.778	60.916	64.699
71					69.742	67.589	71.139	70.651	70.787	70.041	71.414	71.919	73.789
80					78.723	76.279	78.583	79.267	79.049	79.046	80.111	81.089	78.278
90					86.806	86.440	89.061	89.696	89.050	88.748	85.146	90.798	88.750
100						97.572	101.554	99.083	101.210	99.106	103.639	101.856	103.114
112						107.590	115.256	112.294	115.290	111.645	112.450	108.257	118.306
125							125.733	128.046	126.098	126.890	127.556	131.769	129.398
140							143.985	145.322	138.301	144.542	139.152	142.973	141.920
160							158.251	158.533	159.874	158.093	159.444	162.178	164.058
180							174.630	181.546	177.022	173.392	175.389	176.921	181.654
200							193.629	199.533	197.028	200.439	204.089	202.722	202.184
224							228.606	220.185	220.671	221.938	227.382	222.994	226.446
250							257.753	244.141	249.043	247.020	255.111	259.484	255.560
280							288.615	288.242	282.219	276.663	288.678	289.100	286.925
315							305.352	324.993	318.563	312.234	318.889	324.356	320.413
355							344.112	363.906	351.273	353.827	361.407	367.034	360.951
400								385.010		399.393		405.444	
450								433.881		440.402		459.504	

H/B工业齿轮箱 GEAR UNITS

平行轴齿轮箱 Helical Gear Units　　实际速比 Actual Ratios
类型 Types H1.., H2.., H3.., H4..　　规格 Sizes 14...26

实际速比 i Actual Ratios i 齿轮箱规格 Gear unit size 14	15	16	17	18	19	20	21	22	23	24	25	26	iN
													1.25
													1.4
													1.6
													1.8
	2.000		2.000		1.967								2.0
	2.231		2.250		2.296								2.24
	2.481		2.481		2.560								2.5
	2.760		2.760		2.870								2.8
	3.087		3.087		3.238								3.15
	3.476		3.476		3.450								3.55
	3.947		3.947		3.944								4.0
	4.579		4.526		4.400								4.5
	5.100		4.900		4.950								5.0
	5.778		4.556		5.700								5.6
	6.449		6.154		6.410		6.500		6.306		6.280		6.3
	7.120	7.316	7.125	7.147	7.100	7.312	7.200	7.265	7.038	7.059	6.915	7.232	7.1
7.944	7.882	8.076	7.884	8.274	7.889	8.100	8.000	8.047	7.882	7.878	7.635	7.963	8.0
8.800	8.758	8.941	8.755	9.155	8.799	9.00	8.923	8.941	8.868	8.824	8.915	8.792	9.0
9.778	9.774	9.935	9.765	10.167	9.788	10.038	9.926	9.973	9.780	9.926	9.939	10.266	10
10.906	10.967	11.087	10.951	11.340	10.887	11.167	11.040	11.094	10.878	10.948	11.141	11.445	11.2
12.222	12.139	12.440	12.432	12.717	12.176	12.420	12.348	12.339	12.166	12.176	12.571	12.829	12.5
13.399	13.708	13.769	13.915	14.438	13.712	13.891	13.905	133.801	13.700	13.619	13.394	14.476	14
15.685	15.389	15.550	15.694	16.159	15.570	15.643	15.789	15.541	15.557	15.336	15.314	15.424	16
17.556	17.424	17.457	17.899	18.225	18.061	17.763	18.316	17.647	17.839	17.415	17.082	17.634	18
19.800	20.297	19.765	18.988	20.786	20.117	20.605	20.400	20.471	19.312	19.969	19.218	19.671	20
21.418	21.374	23.024	20.930	22.050	21.782	22.950	22.368	22.800	22.039	21.618	21.108	22.129	22.4
24.187	24.716	24.245	24.202	24.306	25.283	24.850	25.837	25.000	25.457	24.671	24.322	24.306	25
27.292	27.304	28.036	26.736	28.106	28.006	28.844	28.523	28.877	28.103	28.497	28.157	28.007	28
31.447	30.248	30.971	29.619	31.048	31.117	31.950	31.579	31.879	31.115	31.459	31.156	32.404	31.5
36.406	35.514	34.311	34.776	34.397	34.708	35.500	35.088	35.294	34.572	34.830	34.598	35.876	35.5
40.283	39.756	40.284	38.929	40.385	38.897	39.596	39.158	39.216	38.582	38.700	38.591	39.840	40
44.733	43.090	45.096	42.194	45.208	42.642	44.375	43.936	43.765	43.290	43.189	43.278	44.438	45
49.896	48.175	48.878	47.174	49.000	49.917	48.648	48.632	49.105	47.916	48.459	49.132	49.835	50
55.957	54.229	54.647	53.102	54.783	55.870	56.948	54.920	54.353	54.112	53.638	54.990	56.576	56
63.171	61.557	61.514	60.278	61.667	63.013	63.739	61.654	61.381	60.747	60.573	62.021	63.322	63
71.100	67.713	69.826	66.306	70.000	68.162	71.888	69.806	68.908	68.780	68.001	70.735	71.418	71
80.190	75.481	76.809	73.912	77.000	76.974	77.762	81.316	78.019	80.120	76.992	75.037	81.452	80
91.457	85.046	85.620	83.279	85.833	88.439	87.816	86.427	90.882	85.156	89.687	85.076	86.407	90
97.020	97.768	96.471	95.735	96.711	100.079	100.895	99.020	96.594	97.564	95.323	100.783	97.967	100
110.00	113.186	110.901	110.833	111.176	115.862	114.174	109.386	110.670	107.778	109.214	111.637	116.054	112
127.803	125.238	128.390	122.634	128.710	128.198	132.180	121.182	122.255	119.400	120.647	124.041	128.552	125
146.633	139.074	142.060	136.183	142.414	142.362	146.254	142.279	135.439	140.186	133.657	138.354	142.835	140
160.380	155.125	157.756	151.900	158.148	158.792	162.413	159.273	159.017	156.931	156.925	155.051	159.316	160
175.901	170.993	175.962	167.438	176.400	178.079	181.156	172.632	178.011	170.093	175.669	169.982	178.544	180
203.339	189.597	193.963	185.656	194.444	201.040	203.160	193.004	192.941	190.166	190.402	198.983	195.737	200
225.149	223.845	215.065	219.192	215.600	226.272	229.355	217.257	215.711	214.062	212.872	222.710	229.132	224
250.594	252.385	253.914	247.139	254.545	255.201	258.141	246.617	242.817	242.990	239.622	251.183	256.454	250
280.665	282.605	286.288	276.730	278.000	291.058	291.144	271.278	275.630	267.289	272.004	271.709	289.241	280
316.751	317.021	320.566	310.431	321.364	308.761	332.052	302.399	303.193	297.952	299.204	306.839	312.877	315
355.625	336.946	359.606	329.942	360.500	350.069	352.249	340.720	337.975	335.710	333.528	352.538	353.329	355
397.131		382.207		383.158		399.375		380.805		375.794		405.953	400
447.376													450

直交轴齿轮箱 Bevel–helical Gear Units　　实际速比 Actual Ratios
类型 Types B2.., B3.., B4..　　规格 Sizes 1...13

iN	实际速比 i Actual Ratios i 齿轮箱规格 Gear unit size 1	2	3	4	5	6	7	8	9	10	11	12	13
5.0	4.980	5.043	4.895	4.936	5.006		4.865		5.002		4.897		4.967
5.6	5.566	5.636	5.471	5.480	5.488		5.333		5.483		5.534		5.613
6.3	6.455	6.526	6.334	6.296	6.386	6.205	6.206	6.135	6.381	6.271	6.296	6.226	6.386
7.1	7.068	7.158	6.947	6.959	7.058	6.802	6.860	6.725	7.053	6.875	7.037	7.036	7.138
8.0	7.668	7.865	7.536	7.549	7.657	7.915	7.880	7.825	8.101	8.000	7.994	8.005	8.108
9.0	8.829	8.941	8.678	8.693	8.817	8.749	8.569	8.649	8.810	8.842	8.693	8.947	8.817
10	10.027	10.154	9.855	9.872	10.108	9.490	9.823	9.935	10.099	10.157	9.965	10.164	10.108
11.2	10.938	11.077	10.751	10.769	10.923	10.928	10.615	10.804	10.914	11.045	10.769	11.052	10.923
12.5	12.458	12.615	10.244	12.034	12.703	12.528	12.433	12.385	12.554	12.662	12.334	12.670	12.482
14	14.005	14.182	13.765	13.484	13.964	13.538	13.515	13.385	14.137	13.683	13.821	13.692	13.721
16	15.441	15.36	15.176	15.601	15.835	15.826	16.275	15.773	15.952	15.693	15.522	15.888	16.354
18	17.595	17.818	17.294	17.482	17.407	17.307	17.692	17.041	17.963	17.724	17.393	17.570	17.978
20			19.336	19.614	19.645	19.729	19.948	20.648	20.259	19.940	19.744	19.995	20.276
22.4			21.609	21.919	21.654	21.575	22.146	22.308	22.208	22.520	21.643	22.114	22.226
25			25.021	25.380	25.421	24.349	25.446	25.152	25.843	25.400	25.185	25.103	25.864
28			27.442	27.836	27.881	27.211	28.125	27.923	28.563	27.842	27.836	27.517	28.587
31.5			29.769	30.196	30.245	31.508	30.509	32.084	30.985	32.400	31.975	32.021	32.838
35.5			34.279	34.771	34.827	34.557	35.131	35.461	35.679	35.811	34.771	35.392	35.709
40			38.928	39.487	39.551	37.486	39.896	38.468	40.902	38.846	39.861	40.654	40.936
45			42.467	43.077	43.146	43.166	43.523	44.296	44.202	44.732	43.077	44.209	44.238
50			48.365	49.060	49.139	49.021	49.568	50.304	50.341	51.280	49.060	50.681	50.383
56			54.371	55.152	55.240	53.477	55.723	54.877	56.592	55.417	55.152	54.769	56.639
63			59.947	60.808	60.906	60.904	61.438	62.499	62.396	63.114	60.808	62.376	62.448
71			68.312	69.293	69.404	68.467	70.011	70.259	71.102	70.951	69.293	70.121	71.161
80					77.598	75.489	79.267	77.465	79.497	78.228	80.949	77.313	82.118
90					86.720	86.022	88.585	88.274	88.842	89.143	89.869	88.101	90.016
100					100.413	96.178	102.572	99.945	102.869	99.667	103.259	102.921	104.750
112					110.130	107.484	112.498	111.694	112.824	111.384	114.129	114.262	115.777
125					119.466	124.455	122.035	129.330	122.389	128.971	123.804	131.287	125.592
140					137.567	136.499	140.525	141.846	140.933	141.452	142.562	145.106	144.621
160					156.225	148.071	159.585	153.871	160.047	153.443	161.897	157.408	165.791
180					170.427	170.506	174.092	177.184	174.597	176.692	176.615	181.258	179.166
200					194.098	193.631	198.272	201.215	198.847	200.656	201.145	205.841	204.050
224					218.199	211.234	222.891	219.508	223.537	218.898	226.121	224.554	229.386
250					240.578	240.572	245.752	249.995	246.464	249.300	249.313	255.742	252.913
280					274.147	270.443	280.042	281.036	280.855	280.256	284.101	287.497	288.204
315					302.121	298.181	308.618	309.861	309.513	309.000	313.091	316.984	317.612
355						339.788		353.097		352.116		361.214	
400						374.460		389.127		388.046		398.073	
450													

H/B工业齿轮箱 GEAR UNITS

直交轴齿轮箱 Bevel–helical Gear Units　　实际速比 Actual Ratios
类型 Types B2.., B3.., B4..　　规格 Sizes 14...26

实际速比 i Actual Ratios i 齿轮箱规格 Gear unit size 14	15	16	17	18	19	20	21	22	23	24	25	26	iN
	4.963												5.0
	5.609	5.630	5.514										5.6
6.156	6.340	6.362	6.234										6.3
6.957	7.132	7.192	7.012	7.239									7.1
7.915	8.101	8.090	7.965	8.143									8.0
8.847	8.810	9.190	8.662	9.250									9.0
10.049	10.099	9.993	9.930	10.059									10
10.928	10.914	11.456	10.731	11.531									11.2
12.528	12.172	12.380	12.770	12.462	12.062		12.256						12.5
13.538	13.810	13.382	13.790	14.654	13.709	13.698	13.902	13.719					14
15.552	15.215	15.665	16.226	16.014	15.192	15.640	15.436	15.538					16
17.007	17.262	17.290	17.522	18.620	17.267	17.252	17.510	17.279					18
20.376	19.379	19.581	19.762	20.348	19.607	19.698	19.883	19.570	19.591		19.284		20
22.282	21.900	21.982	22.333	22.950	22.158	22.368	22.470	22.222	22.139	21.930	21.793	22.206	22.4
25.131	24.916	24.842	25.409	25.936	25.048	25.278	25.400	25.113	25.027	24.783	24.635	25.095	25
27.548	27.847	28.263	28.398	29.507	28.175	28.576	28.571	28.389	28.151	28.015	27.711	28.368	28
32.057	31.634	31.588	32.259	32.979	32.005	32.143	32.456	31.933	31.979	31.513	31.478	31.909	31.5
35.432	34.400	35.883	35.080	37.463	34.804	36.513	35.294	36.275	34.775	35.797	34.231	36.248	35.5
40.700	39.435	39.021	40.215	40.738	39.899	39.706	40.461	39.446	39.866	38.927	39.241	39.417	40
44.259	42.617	44.732	43.460	46.702	43.117	45.518	43.725	45.221	43.082	44.626	42.407	45.187	45
50.737	48.536	48.341	49.496	50.469	49.106	49.190	49.798	48.869	49.065	48.226	48.297	48.833	50
54.831	54.562	55.055	55.641	57.479	55.203	56.022	55.981	55.656	55.158	54.624	54.294	55.615	56
62.446	60.158	61.892	61.348	64.616	60.865	62.978	61.722	62.567	60.815	61.744	59.863	62.520	63
70.200	68.553	68.239	69.909	71.243	69.358	69.438	70.335	68.984	69.301	68.076	68.216	68.933	71
77.400	78.131	77.761	76.506	81.184	79.977	79.127	77.639	78.610	76.497	77.575	78.100	78.551	80
88.200	85.645	88.626	83.865	88.846	87.670	91.242	87.739	86.772	86.448	85.631	88.260	89.933	90
101.780	99.664	97.150	97.593	97.391	102.020	100.017	99.821	98.061	98.353	96.770	100.414	101.633	100
111.569	110.155	113.052	107.865	113.333	112.759	116.389	111.565	111.565	109.924	110.097	112.228	115.629	112
129.831	126.535	124.952	123.904	125.263	129.526	128.641	126.733	124.690	124.870	123.049	127.487	129.232	125
143.498	137.599	143.532	134.739	143.889	140.851	147.769	137.815	141.643	135.788	139.780	138.634	146.803	140
155.663	157.741	156.082	154.462	156.471	161.470	160.690	157.989	154.029	155.665	152.002	158.928	159.639	160
179.284	170.467	178.930	166.923	179.375	174.496	184.212	170.735	176.576	168.224	174.252	171.749	183.008	180
205.487	194.143	193.365	190.107	193.846	198.732	199.073	194.448	190.821	191.588	188.310	195.603	197.772	200
222.065	218.249	220.222	213.712	220.769	223.408	226.722	218.592	217.324	215.377	214.464	219.891	225.240	224
252.907	240.634	247.566	235.631	248.182	246.322	254.874	241.012	244.309	237.467	241.094	242.444	253.208	250
284.310	274.210	272.957	268.510	273.636	280.692	281.015	274.641	269.366	270.602	265.822	276.274	279.178	280
313.470	302.191	311.045	295.909	311.818	309.334	320.226	302.666	306.952	298.215	302.913	304.465	318.133	315
357.210		342.784		343.636		352.902		338.273		333.823		350.596	355
393.660													400
													450

平行轴齿轮箱 Helical Gear Units　　转动惯量 J1 Mass Moments of Inertia J1

类型 Types H1.., H2.., H3.., H4..　　规格 Sizes 1...13

转动惯量J_2（单位kgm²）是指相对于齿轮箱输出轴d2的转动惯量，可按下式计算：$J_2=iN^2 \times J_1$。
转动惯量J_1（单位kgm²）是指相对于齿轮箱输入轴d1的转动惯量，输入轴不带风扇。
如果输入轴d_1上带有风扇，则应加上J_L。

The mass moment of inertia J_2 in kgm² refers to the output shaft d_2 of a gear unit and is calculated with the following. formula:$J_2=iN^2 \times J_1$.
The mass moment of inertia J_1 in kgm² refers to the input shaft d_1 of a gear unit without fan.
For shaft d with fan, J_L has to be added.

转动惯量 J1（单位 kgm²）是指相对于减速机输出轴 d1 的转动惯量　Mass moment of inertia J in kgm² refering to shaft d_1													
iN	齿轮箱规格 Gear unit size												
	1	2	3	4	5	6	7	8	9	10	11	12	13
1.25	0.0048		0.0265		0.1570		0.4228		0.9271				
1.4	0.0042		0.0259		0.1432		0.3849		0.8413				
1.6	0.0037		0.0244		0.1249		0.3345		0.7272		1.7511		3.7389
1.8	0.0033		0.0197		0.1088		0.3045		0.6590		1.5889		3.2189
2.0	0.0030		0.0182		0.0991		0.2769		0.5960		1.4383		2.9044
2.24	0.0028		0.0167		0.0901		0.2390		0.5376		1.2975		2.6113
2.5	0.0023		0.0148		0.0816		0.2159		0.4830		1.1653		2.3370
2.8	0.0021		0.0134		0.0738		0.2010		0.4432		1.0408		2.0794
3.15	0.0015		0.0092		0.0500		0.1402		0.3105		0.8423		1.6719
3.55	0.0013		0.0081		0.0437		0.1225		0.2728		0.7361		1.4732
4.0	0.0012		0.0070		0.0380		0.1058		0.2373		0.6465		1.2855
4.5	0.00087		0.0052		0.0297		0..0861		0.1996		0.4956		0.9652
5.0	0.00074		0.0045		0.0276		0.0748		0.1707		0.4062		0.8932
5.6	0.00065		0.0038		0.0233		0.0640		0.1410		0.3747		0.7557
J_L			0.060		0.045		0.100		0.100		0.290		0.290
6.3			0.0055	0.0149	0.0329		0.0907		0.1995		0.5118		1.0873
7.1			0.0046	0.0134	0.0275		0.0746		0.1640		0.4473		0.9480
8.0			0.0041	0.0114	0.0245	0.0393	0.0655	0.1092	0.1438	0.2364	0.3906	0.6361	0.8255
9.0			0.0037	0.0102	0.0218	0.0323	0.0574	0.0884	0.1260	0.1916	0.3178	0.5491	0.7172
10			0.0030	0.0086	0.0182	0.0285	0.0500	0.0767	0.1097	0.1664	0.2760	0.4736	0.6211
11.2			0.0026	0.0076	0.0159	0.0252	0.0441	0.0665	0.0940	0.1443	0.2486	0.3780	0.5540
12.5			0.0020	0.0053	0.0116	0.0207	0.0334	0.0574	0.0712	0.1244	0.1899	0.3241	0.4217
14			0.0017	0.0045	0.0100	0.0179	0.0266	0.0501	0.0604	0.1057	0.1615	0.2895	0.3642
16			0.0014	0.0038	0.0084	0.0133	0.0224	0.0383	0.0508	0.0804	0.1348	0.2226	0.3117
18			0.0012	0.0032	0.0071	0.0113	0.0189	0.0302	0.0416	0.0676	0.1162	0.1872	0.2761
20			0.00099	0.0028	0.0060	0.0094	0.0160	0.0252	0.0382	0.0565	0.0992	0.1549	0.2330
22.4			0.00086	0.0023	0.0050	0.0079	0.0147	0.0211	0.0320	0.0460	0.0833	0.1328	
25						0.0067		0.0178		0.0421		0.1125	
28						0.0056		0.0163		0.0351		0.0938	
J_L				0.006	0.010	0.010	0.045	0.045	0.045	0.045	0.100	0.100	0.290
22.4													0.2807
25					0.0065		0.0162		0.0391		0.1026		0.2287
28					0.0054		0.0144		0.0325		0.0833		0.1866
31.5					0.0048	0.0069	0.0121	0.0173	0.0289	0.0414	0.0724	0.1105	0.1629
35.5					0.0042	0.0057	0.0107	0.0153	0.0256	0.0342	0.0629	0.0892	0.1421
40					0.0034	0.0050	0.0089	0.0128	0.0215	0.0303	0.0545	0.0773	0.1237
45					0.0030	0.0044	0.0078	0.0113	0.0189	0.0268	0.0481	0.0668	0.1075
50					0.0023	0.0036	0.0057	0.0093	0.0136	0.0223	0.0359	0.0577	0.0762
56					0.0019	0.0031	0.0049	0.0082	0.0117	0.0196	0.0283	0.0507	0.0644
63					0.0016	0.0024	0.0041	0.0060	0.0099	0.0142	0.0238	0.0380	0.0544
71					0.0012	0.0020	0.0032	0.0051	0.0074	0.0121	0.0190	0.0298	0.0420
80					0.0010	0.0017	0.0028	0.0043	0.0062	0.0102	0.0160	0.0250	0.0385
90					0.00087	0.0013	0.0023	0.0034	0.0052	0.0077	0.0145	0.0199	0.0318
100						0.0011		0.0029		0.0065		0.0167	
112						0.00090		0.0024		0.0054		0.0152	
J_L					0.006	0.006	0.010	0.010	0.020	0.020	0.045	0.045	0.045
100							0.0033		0.0067		0.0175		0.0396
112							0.0027		0.0055		0.0156		0.0325
125							0.0024	0.0033	0.0049	0.0068	0.0131	0.0179	0.0287
140							0.0020	0.0028	0.0043	0.0056	0.0116	0.0160	0.0253
160							0.0018	0.0025	0.0035	0.0050	0.0097	0.0134	0.0208
180							0.0015	0.0021	0.0030	0.0044	0.0085	0.0119	0.0180
200							0.0012	0.0018	0.0023	0.0035	0.0059	0.0099	0.0134
224							0.00097	0.0016	0.0019	0.0031	0.0051	0.0086	0.0113
250							0.00081	0.0013	0.0016	0.0023	0.0043	0.0061	0.0095
280							0.00065	0.00098	0.0013	0.0020	0.0035	0.0052	0.0079
315							0.00060	0.00082	0.0011	0.0016	0.0030	0.0043	0.0067
355							0.00050	0.00066	0.00096	0.0014	0.0025	0.0036	0.0056
400								0.00060		0.0011		0.0031	
450								0.00050		0.00097		0.0026	

平行轴齿轮箱 Helical Gear Units　　转动惯量 J1 Mass Moments of Inertia J1

类型 Types H1.., H2.., H3.., H4..　　规格 14...26　Sizes 14...26

转动惯量J_2（单位kgm²）是指相对于齿轮箱输出轴d2的转动惯量，可按下式计算：$J_2=iN^2 \times J_1$。
转动惯量J_1（单位kgm²）是指相对于齿轮箱输入轴d1的转动惯量，输入轴不带风扇。
如果输入轴d_1上带有风扇，则应加上J_L。

The mass moment of inertia J_2 in kgm² refers to the output shaft d_2 of a gear unit and is calculated with the following. formula:$J_2=iN^2 \times J_1$.
The mass moment of inertia J_1 in kgm² refers to the input shaft d_1 of a gear unit without fan.
For shaft d with fan, J_L has to be added.

转动惯量 J1（单位 kgm²）是指相对于减速机输出轴 d1 的转动惯量　Mass moment of inertia J in kgm² refering to shaft d_1													
齿轮箱规格 Gear unit size													iN
14	15	16	17	18	19	20	21	22	23	24	25	26	
													1.25
													1.4
													1.6
													1.8
	6.8655		11.6548		21.8584								2.0
	6.1491		10.3549		18.6429								2.24
	5.5216		9.3831		16.6673								2.5
	4.9573		8.4273		14.7965								2.8
	3.9096		6.7095		11.9834								3.15
	3.4057		5.8542		11.1368								3.55
	2.9306		5.0470		9.5179								4.0
	2.3019		4.0029		7.8709								4.5
	1.9601		3.5545		6.6571								5.0
	1.6568		3.0066		5.5019								5.6
	0.690		0.690		0.690								J_L
	2.6799		5.2845		10.5289								6.3
	2.3538	2.8931	4.3679	5.7591	9.2492	11.3721	12.2959						7.1
1.2839	2.0651	2.5287	3.8397	4.7220	8.1117	9.9364	10.7071	13.2150					8.0
1.1082	1.8080	2.2077	3.3666	4.1290	7.0946	8.6683	9.3069	11.4516					9.0
0.9553	1.5782	1.9236	2.9408	3.6012	6.2359	7.5421	8.1419	9.9054	13.82				10
0.8216	1.3718	1.6710	2.5560	3.1293	5.4896	6.5975	7.1415	8.6256	12.15	14.70			11.2
0.7014	1.1198	1.4455	2.0404	2.7059	4.4208	5.7819	5.6707	7.5325	9.45	12.87			12.5
0.6231	0.9578	1.1799	1.7645	2.1567	3.7953	4.6544	4.8559	5.9832	8.09	10.02	15.28		14
0.4721	0.8265	1.0050	1.5114	1.8573	3.2226	3.9795	4.1218	5.1024	6.86	8.54	12.83	16.31	16
0.4044	0.6730	0.8639	1.2153	1.5843	2.5603	3.3655	3.2191	4.3129	5.49	7.20	10.74	13.62	18
0.3434	0.5438	0.7022	1.1227	1.2714	2.2165	2.6665	2.7632	3.3611	4.90	5.75	8.99	11.37	20
0.3032		0.5653		1.1726		2.3021		2.8777		5.12		9.49	22.4
0.2542													25
													28
0.290	0.290	0.290	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690	.0.690	0.690	J_L
	0.7409		0.8137		1.6434		3.7138		5.010		10.05		22.4
	0.6011	0.7603	0.6552	0.8546	1.3216	1.7165	3.0172	3.8090	3.991	5.183	8.05	10.46	25
0.2974	0.5232	0.6156	0.5669	0.6857	1.1429	1.3759	2.6255	3.0886	3.426	4.121	6.43	8.36	28
0.2413	0.4553	0.5351	0.4909	0.5920	0.9874	1.1871	2.2815	2.6841	2.937	3.533	5.53	6.66	31.5
0.1960	0.3689	0.4650	0.3943	0.5113	0.8515	1.0232	1.9780	2.3293	2.511	3.024	4.74	5.72	35.5
0.1705	0.3198	0.3759	0.3398	0.4091	0.7323	0.8803	1.7091	2.0167	2.139	2.581	4.04	4.89	40
0.1483	0.2896	0.3254	0.3064	0.3516	0.6501	0.7552	1.4696	1.7402	1.813	2.195	3.44	4.17	45
0.1287	0.2106	0.2944	0.2241	0.3165	0.4647	0.6692	1.1988	1.4943	1.477	1.858	.2.73	3.53	50
0.1114	0.1782	0.2145	0.1886	0.2322	0.3961	0.4786	1.0146	1.2189	1.234	1.514	2.32	2.80	56
0.0793	0.1491	0.1812	0.1569	0.1949	0.3344	0.4073	0.8665	1.0304	1.042	1.263	1.95	2.38	63
0.0669	0.1216	0.1515	0.1289	0.1619	0.2818	0.3431	0.6700	0.8790	0.803	1.065	1.48	2.00	71
0.0564	0.1034	0.1235	0.1093	0.1330	0.2352	0.2893	0.5346	0.6798	0.633	0.821	1.35	1.51	80
0.0435	0.0865	0.1050	0.0911	0.1126	0.1898	0.2410	0.4883	0.5418	0.575	0.646	1.11	1.38	90
0.0398		0.0877		0.0937		0.1943		0.4946		0.587		1.13	100
0.0329													112
0.045	0.100	0.100	0.100	0.100									J_L
	0.1080		0.1130		0.2401		0.6098		0.679		1.344		100
	0.0875	0.1089	0.0916	0.1149	0.1936	0.2436	0.5276	0.6147	0.582	0.688	1.158	1.363	112
0.0403	0.0760	0.0881	0.0796	0.0930	0.1681	0.1962	0.4561	0.5316	0.501	0.590	0.995	1.172	125
0.0331	0.0660	0.0766	0.0691	0.0808	0.1457	0.1702	0.3653	0.4594	0.398	0.507	0.854	1.007	140
0.0292	0.0570	0.0664	0.0598	0.0701	0.1254	0.1474	0.3140	0.3677	0.340	0.403	0.730	0.863	160
0.0258	0.0498	0.0573	0.0524	0.0606	0.1065	0.1268	0.2809	0.3158	0.303	0.344	0.644	0.737	180
0.0211	0.0380	0.0501	0.0393	0.0530	0.0811	0.1076	0.2157	0.2825	0.233	0.306	0.488	0.651	200
0.0183	0.0299	0.0382	0.0310	0.0398	0.0681	0.0820	0.1819	0.2170	0.196	0.236	0.417	0.492	224
0.0136	0.0250	0.0301	0.0259	0.0314	0.0569	0.0688	0.1506	0.1829	0.162	0.198	0.353	0.421	250
0.0115	0.0210	0.0251	0.0218	0.0262	0.0463	0.0574	0.1297	0.1514	0.138	0.163	0.311	0.356	280
0.0096	0.0177	0.0211	0.0184	0.0221	0.0424	0.0467	0.1097	0.1299	0.117	0.139	0.261	0.314	315
0.0080	0.0162	0.0177	0.0169	0.0186	0.0363	0.0427	0.0916	0.1103	0.097	0.118	0.212	0.263	355
0.0068		0.0162		0.0170		0.0366		0.0920		0.098		0.213	400
0.0056													450

直交轴齿轮箱 Bevel–helical Gear Units　转动惯量 J1 Mass Moments of Inertia J1
类型 Types B2.., B3.., B4..　规格 Sizes 1...13

转动惯量J_2（单位kgm^2）是指相对于齿轮箱输出轴d2的转动惯量，可按下式计算：$J_2=iN^2 \times J_1$。
转动惯量J_1（单位kgm^2）是指相对于齿轮箱输入轴d1的转动惯量，输入轴不带风扇。
如果输入轴d_1上带有风扇，则应加上J_L。
The mass moment of inertia J_2 in kgm^2 refers to the output shaft d_2 of a gear unit and is calculated with the following. formula: $J_2=iN^2 \times J_1$.
The mass moment of inertia J_L in kgm^2 refers to the input shaft d_1 of a gear unit without fan.
For shaft d with fan, J_L has to be added.

转动惯量 J1（单位 kgm² 是指相对于减速机输出轴 d1 的转动惯量 Mass moment of inertia J_1 in kgm^2 refering to shaft d_1													
iN	齿轮箱规格 Gear unit size												
	1	2	3	4	5	6	7	8	9	10	11	12	13
5.0	0.0021	0.0049	0.0314	0.0314	0.0707		0.1988		0.4403		1.2743		2.7700
5.6	0.0019	0.0043	0.0096	0.0262	0.0604		0.1691		0.3744		1.0697		2.3418
6.3	0.0016	0.0035	0.0076	0.0228	0.0495	0.0805	0.1365	0.2276	0.2988	0.4986	0.8428	1.4755	1.8526
7.1	0.0014	0.0033	0.0071	0.0197	0.0420	0.0687	0.1207	0.1931	0.2543	0.4229	0.7257	1.2273	1.6222
8.0	0.0012	0.0027	0.0057	0.0152	0.0321	0.0555	0.0875	0.1542	0.1874	0.3346	0.5250	0.9645	1.1744
9.0	0.0010	0.0023	0.0052	0.0129	0.0295	0.0470	0.0786	0.1352	0.1709	0.2837	0.4753	0.8231	1.0617
10	0.00084	0.0018	0.0039	0.0104	0.0250	0.0363	0.0681	0.0985	0.1456	0.2097	0.4072	0.6005	0.9214
11.2	0.00079	0.0017	0.0037	0.0093	0.0214	0.0327	0.0590	0.0879	0.1241	0.1897	0.3493	0.5392	0.7959
12.5	0.00054	0.0012	0.0028			0.0274		0.0752		0.1599		0.4557	
14	0.00043	0.00098	0.0023			0.0235		0.0650		0.1363		0.3909	
16	0.00040	0.00082	0.0019										
18	0.00031	0.00063	0.0015										
J_L	0.005	0.006	0.010	0.020	0.045	0.045	0.100	0.100	0.100	0.100	0.290	0.290	0.690
12.5				0.0073	0.0159		0.0445		0.0995		0.2740		0.6152
14				0.0071	0.0156		0.0436		0.0967		0.2671		0.6026
16				0.0060	0.0136	0.0174	0.0368	0.0487	0.0842	0.1084	0.2344	0.3029	0.5141
18				0.0059	0.0133	0.0168	0.0363	0.0474	0.0825	0.1040	0.2300	0.2925	0.5068
20			0.0023	0.0055	0.0124	0.0145	0.0339	0.0393	0.0770	0.0897	0.2146	0.2527	0.4742
22.4			0.0021	0.0047	0.0105	0.0141	0.0282	0.0385	0.0657	0.0870	0.1822	0.2461	0.4026
25			0.0017	0.0039	0.0083	0.0130	0.0243	0.0356	0.0534	0.0805	0.1462	0.2270	0.3196
28			0.0015	0.0036	0.0077	0.0111	0.0209	0.0296	0.0452	0.0687	0.1286	0.1926	0.2714
31.5			0.0013	0.0029	0.0062	0.0087	0.0162	0.0253	0.0348	0.0555	0.0936	0.1539	0.2004
35.5			0.0011	0.0024	0.0055	0.0080	0.0137	0.0218	0.0315	0.0470	0.0837	0.1349	0.1819
40			0.00089	0.0019	0.0041	0.0065	0.0110	0.0169	0.0265	0.0363	0.0720	0.0983	0.1539
45			0.00083	0.0018	0.0039	0.0057	0.0098	0.0142	0.0227	0.0326	0.0626	0.0877	0.1312
50			0.00057	0.0013	0.0030	0.0043	0.0081	0.0114	0.0178	0.0274	0.0469	0.0751	0.1028
56			0.00046	0.0011	0.0025	0.0040	0.0068	0.0102	0.0146	0.0235	0.0384	0.0649	0.0853
63			0.00042	0.00087	0.0021	0.0031	0.0059	0.0084	0.0124	0.0184	0.0326	0.0489	0.0725
71			0.00033	0.00067	0.0016	0.0026	0.0047	0.0070	0.0100	0.0150	0.0262	0.0400	0.0585
80						0.0021		0.0061		0.0128		0.0339	
90						0.0016		0.0048		0.0102		0.0272	
J_L			0.005	0.006	0.010	0.010	0.020	0.020	0.045	0.045	0.100	0.100	0.290
80					0.0024		0.0057		0.0129		0.0350		0.0795
90					0.0021		0.0049		0.0110		0.0291		0.0678
100					0.0018	0.0024	0.0040	0.0058	0.0086	0.0131	0.0250	0.0358	0.0549
112					0.0016	0.0022	0.0037	0.0049	0.0079	0.0111	0.0215	0.0297	0.0465
125					0.0013	0.0018	0.0030	0.0040	0.0064	0.0087	0.0167	0.0254	0.0359
140					0.0011	0.0016	0.0025	0.0038	0.0057	0.0081	0.0141	0.0219	0.0323
160					0.00091	0.0013	0.0020	0.0031	0.0043	0.0065	0.0113	0.0170	0.0271
180					0.00085	0.0011	0.0018	0.0025	0.0040	0.0058	0.0101	0.0143	0.0233
200					0.00058	0.00092	0.0013	0.0020	0.0031	0.0043	0.0083	0.0114	0.0182
224					0.00047	0.00086	0.0011	0.0018	0.0025	0.0041	0.0070	0.0102	0.0149
250					0.00043	0.00059	0.00089	0.0014	0.0021	0.0031	0.0060	0.0084	0.0127
280					0.00033	0.00047	0.00069	0.0011	0.0016	0.0026	0.0048	0.0071	0.0102
315					0.00028	0.00043	0.00058	0.00091	0.0014	0.0021	0.0040	0.0061	0.0081
355						0.00034		0.00069		0.0016		0.0048	
400						0.00028		0.00059		0.0014		0.0041	

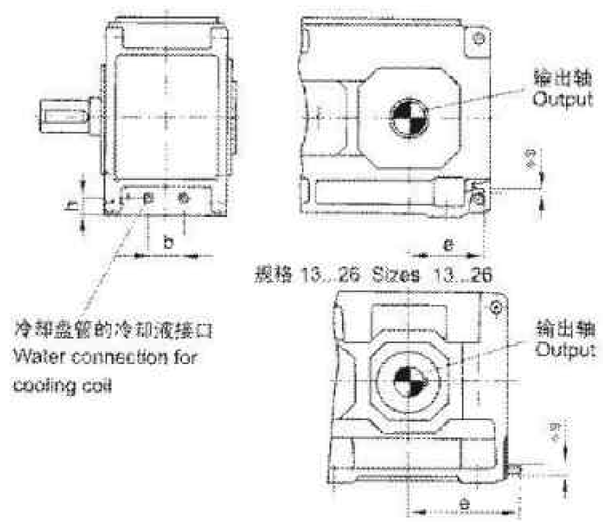
直交轴齿轮箱 Bevel–helical Gear Units　转动惯量 J1 Mass Moments of Inertia J1
类型 Types B2.., B3.., B4..　规格 Sizes 14...26

转动惯量J_2（单位kgm^2）是指相对于齿轮箱输出轴d2的转动惯量，可按下式计算：$J_2=iN^2 \times J_1$。
转动惯量J_1（单位kgm^2）是指相对于齿轮箱输入轴d1的转动惯量，输入轴不带风扇。
如果输入轴d_1上带有风扇，则应加上J_L。
The mass moment of inertia J_2 in kgm^2 refers to the output shaft d_2 of a gear unit and is calculated with the following. formula: $J_2=iN^2 \times J_1$.
The mass moment of inertia J_L in kgm^2 refers to the input shaft d_1 of a gear unit without fan.
For shaft d with fan, J_L has to be added.

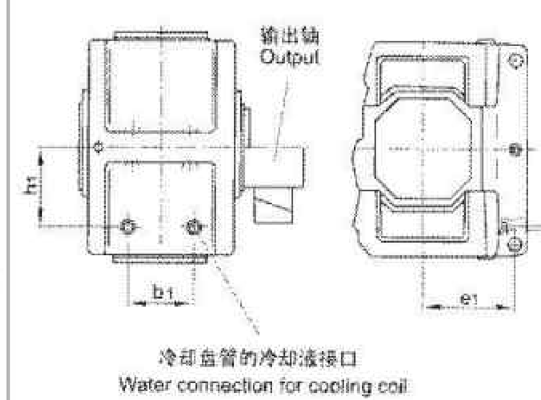
转动惯量 J1（单位 kgm² 是指相对于减速机输出轴 d1 的转动惯量 Mass moment of inertia J_1 in kgm^2 refering to shaft d_1													
齿轮箱规格 Gear unit size													iN
14	15	16	17	18	19	20	21	22	23	24	25	26	
	6.1753												5.0
	5.3415	6.6007	10.3549										5.6
3.0962	4.4466	5.6746	8.5744										6.3
2.5972	3.7296	4.7073	7.1324	9.0369									7.1
2.0500	2.7508	3.9356	5.0109	7.4979									8.0
1.7802	2.5048	2.9105	4.5186	5.2942									9.0
1.2968	2.1468	2.6398	3.8518	4.7581									10
1.1653	1.7964	2.2495	3.3164	4.0340									11.2
1.0001		1.8843		3.4725									12.5
0.8634													14
													16
													18
0.690	0.690	0.690	0.690	0.690									JL
	1.6952		3.4843		7.8896		8.3877						12.5
	1.6558	1.7505	3.4451	3.5988	7.7305	8.0659	8.2186	8.6052					14
0.6638	1.4797	1.7023	3.0661	3.5397	6.9989	7.8400	7.4408	8.3643					16
0.6456	1.4545	1.5152	3.0418	3.1370	6.8398	6.9560	7.2717	7.4142					18
0.5424	1.3716	1.4843	2.8806	3.1004	6.3626	6.8399	6.7643	7.2972	12.93				20
0.5318	1.1459	1.3952	2.4284	2.9267	5.4882	6.4527	5.8027	6.8842	10.90	13.15	13.51		22.4
0.4938	0.9016	1.1644	1.9196	2.4645	4.5614	5.5587	4.8075	5.8965	8.99	11.07	11.03		25
0.4189	0.7728	0.9159	1.6758	1.9474	3.8203	4.6166	4.0148	4.8809	7.45	9.12	9.06	11.34	28
0.3317	0.5615	0.7842	1.2159	1.6981	2.8212	3.8639	2.9719	4.0729	5.24	7.55	6.49	9.30	31.5
0.2812	0.5062	0.5703	1.0968	1.2332	2.5642	2.8550	2.6917	3.0169	4.70	5.32	5.76	6.68	35.5
0.2079	0.4306	0.5137	0.9481	1.1114	2.1920	2.5928	2.2890	2.7297	3.98	4.77	4.78	5.92	40
0.1882	0.3694	0.4363	0.8188	0.9592	1.8351	2.2138	–1.9182	2.3180	3.42	4.03	4.11	4.90	45
0.1587	0.2765	0.3743	0.5713	0.8283	1.4000	1.8537	1.4641	1.9429	2.58	3.46	3.11	4.21	50
0.1353	0.2284	0.2802	0.4692	0.5787	1.1439	1.4144	1.1946	1.4832	2.16	2.61	2.58	3.19	56
0.1060	0.1956	0.2314	0.4054	0.4750	1.0429	1.1553	1.0845	1.2097	1.98	2.19	2.33	2.65	63
0.0878	0.1587	0.1981	0.3333	0.4101	0.8730	1.0522	0.9051	1.0970	1.62	2.01	1.89	2.38	71
0.0745		0.1605		0.3369		0.8802		0.9147		1.64		1.93	80
0.0601													90
0.290	0.290	0.290	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690	0.690	JL
	0.2219		0.2276		0.4955		1.41 20		1.519		3.158		80
	0.1883	0.2234	0.1931	0.2307	0.4203	0.5009	1.1776	1.4199	1.261	1.533	2.645	3.188	90
0.0807	0.1507	0.1896	0.1542	0.1956	0.3327	0.4248	0.9261	1.1838	0.991	1.272	2.087	2.669	100
0.0688	0.1323	0.1516	0.1352	0.1561	0.2821	0.3360	0.7924	0.9309	0.844	0.999	1.810	2.106	112
0.0556	0.0964	0.1330	0.0985	0.1367	0.2085	0.2848	0.5767	0.7962	0.617	0.851	1.320	1.825	125
0.0471	0.0861	0.0969	0.0879	0.0997	0.1887	0.2106	0.5190	0.5796	0.553	0.622	1.185	1.331	140
0.0364	0.0738	0.0866	0.0752	0.0889	0.1591	0.1905	0.4404	0.5215	0.466	0.557	1.015	1.1 94	160
0.0327	0.0638	0.0742	0.0650	0.0760	0.1357	0.1605	0.3778	0.4423	0.400	0.470	0.876	1.022	180
0.0274	0.0481	0.0641	0.0490	0.0657	0.1063	0.1368	o.2829	0.3794	0.300	0.403	0.598	0.882	200
0.0235	0.0393	0.0483	0.0400	0.0495	0.0880	0.1071	0.2335	0.2842	0.247	0.302	0.504	0.620	224
0.0184	0.0333	0.0395	0.0339	0.0404	0.0747	0.0887	0.1998	0.2345	0.211	0.249	0.438	0.508	250
0.0151	0.0267	0.0335	0.0272	0.0343	0.0603	0.0753	0.1619	0.2007	0.170	0.212	0.355	0.441	280
0.0128	0.0217	0.0269	0.0221	0.0275	0.0493	0.0607	0.1289	0.1625	0.136	0.172	0.286	0.358	315
0.0103		0.0218		0.0223		0.0497		0.1294		0.137		0.288	355
0.0082													400

齿轮箱 Gear Units　冷却盘管 Cooling Coils　卧式安装 Horizontal
类型 Types H..H, H..M, B..H, B..M　规格 Sizes 1...26

H1SH,H2.H,H3.H,B2.H,B3.H
规格 1...12, Sizes 1...12



H2.M,H3.M,B2.M,B3.M
规格 13...26, Sizes 13...26



规格 Size	类型 H1SH Type H1SH					类型 H2.H/B3.H Type H2.H/B3.H					类型 H3.H Type H3.H					类型 B2.H Type B2.H				
	b mm	e mm	h mm	s	1)	b mm	e mm	h mm	s	1)	b mm	e mm	h mm	s	1)	b mm	e mm	h mm	s	1)
1	30	150	45	G1/4	4	–	–	–	–	–	–	–	–	–	–	64	125	40	G1/4	4
2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	78	130	40	G1/4	4
3	48	205	74	G1/2	4	34	130	55	G1/2	4	–	–	–	–	–	58	140	52	G1/4	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	60	G1/2	4	130	175	62	G1/2	8
6	–	–	–	–	–	70	215	68	G1/2	4	70	220	69	G1/2	4	120	220	68	G1/2	4
7	124	310	135	G1/2	4	100	210	83	G1/2	4	80	210	83	G1/2	4	140	210	80	G1/2	8
8	–	–	–	–	–	100	270	83	G1/2	4	80	270	83	G1/2	4	140	270	80	G1/2	4
9	116	365	110	G1/2	8	140	245	110	G1/2	8	150	245	107	G1/2	4	232	245	110	G1/2	8
10	–	–	–	–	–	100	295	95	G1/2	8	90	295	95	G1/2	4	150	295	90	G1/2	8
11	146	425	130	G1/2	8	110	275	95	G1/2	8	200	275	115	G1/2	8	312	275	115	G1/2	8
12	–	–	–	–	–	200	360	109	G1/2	8	200	360	115	G1/2	8	300	360	115	G1/2	8
13	152	480	150	G1/2	8	252	455	116	G1/2	8	252	460	116	G1/2	8	324	460	116	G1/2	8
14	–	–	–	–	–	252	525	116	G1/2	8	252	530	116	G1/2	8	324	530	116	G1/2	8
15	172	560	130	G1/2	8	290	535	119	G1/2	8	290	540	119	G1/2	8	396	540	119	G1/2	8
16	–	–	–	–	–	290	580	119	G1/2	8	290	585	119	G1/2	8	396	585	119	G1/2	8
17	202	600	145	G1/2	8	340	575	134	G1/2	8	300	580	134	G1/2	8	468	580	134	G1/2	8
18	–	–	–	–	–	340	635	134	G1/2	8	300	640	134	G1/2	8	468	640	134	G1/2	8
19	根据用户要求供货 On request					根据用户要求供货 On request					根据用户要求供货 On request					–				
20–26																				

规格 Size	类型 H2.M/B3 Type H2.M/B3					类型 H3.M Type H3.M					类型 B2.M Type B2.M				
	b1 mm	e1 mm	h1 mm	s1	1)	b1 mm	e1 mm	h1 mm	s1	1)	b1 mm	e1 mm	h1 mm	s1	1)
13	252	335	300	G1/2	8	252	335	300	G1/2	8	324	335	300	G1/2	8
14	252	405	300	G1/2	8	252	405	300	G1/2	8	324	405	300	G1/2	8
15	290	395	335	G1/2	8	290	395	340	G1/2	8	396	390	345	G1/2	8
16	290	440	335	G1/2	8	290	440	340	G1/2	8	396	435	345	G1/2	8
17	340	425	380	G1/2	8	300	425	380	G1/2	8	324	425	395	G1/2	8
18	340	485	380	G1/2	8	300	485	380	G1/2	8	324	485	395	G1/2	8
19–26	根据用户要求供货 On request					根据用户要求供货 On request					–				

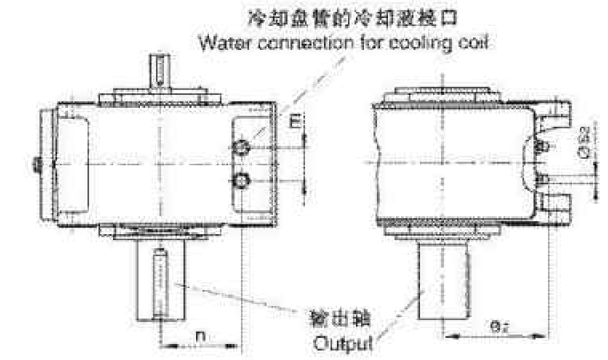
1) 冷却液需要量 (L/mm)
Required cooling water quantity (L/min)

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

齿轮箱 Gear Units　冷却盘管 Cooling Coils　立式安装 Vertical
类型 Types H..V,B..V　规格 Sizes 1...26

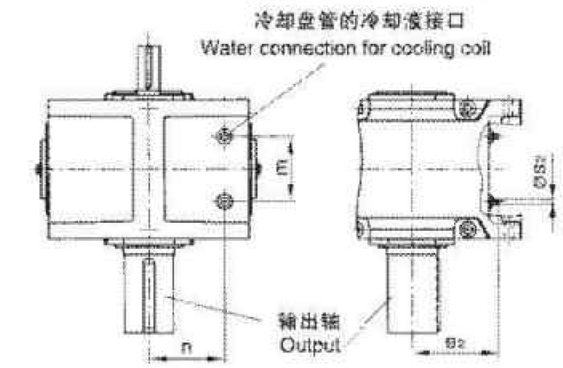
H2.V, H3.V, B2.V, B3.V

规格 1...12, Sizes 1...12



H2.V, H3.V, B2.V, B3.V

规格 13...26, Sizes 13...26



规格 Size	类型 H2.V/B/.V Type H2.V/B3.V					类型 H3.V Type H3.V					类型 B2.V Type B2.V				
	m mm	n mm	e2 mm	s2	1)	m mm	n mm	e2 mm	s2	1)	m mm	n mm	e2 mm	s2	1)
1	–	–	–	–	–	–	–	–	–	–	64	90	125	G1/4	4
2	–	–	–	–	–	–	–	–	–	–	78	105	130	G1/4	4
3	34	120	130	G1/2	4	–	–	–	–	–	58	123	140	G1/2	4
4	34	140	155	G1/2	4	–	–	–	–	–	74	146	160	G1/2	4
5	68	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	312	265	275	G1/2	8
12	200	271	360	G1/2	8	200	265	360	G1/2	8	300	265	360	G1/2	8
13	252	300	335	G1/2	8	252	300	335	G1/2	8	324	300	335	G1/2	8
14	252	300	405	G1/2	8	252	300	405	G1/2	8	324	300	405	G1/2	8
15	290	335	395	G1/2	8	290	340	395	G1/2	8	396	345	390	G1/2	8
16	290	335	440	G1/2	8	290	340	440	G1/2	8	396	345	435	G1/2	8
17	340	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	根据用户要求供货 On request					根据用户要求供货 On request					–				

冷却管盘适用于 Cooling coil for														
类型 Types	规格 Size	浸油润滑 Dip lubrication				法兰泵强制润滑 Forced lubrication with flanged on pump				电动泵强制润滑 Forced lubrication with motor pump				
		适用布置形式 For design				适用布置形式 For design				适用布置形式 For design				
		A	B	C	D	A	B	C	D	A	B	C	D	
H2.V	4	×	×	×	×	–	–	–	–					
	5–12	×	×	×	×	–	×	–	×					
	13–18	–	–	–	–	–	×	–	×					
H3.V	5–12	×	×	×	×	–	×	–	×		根据用户要求供货 On request			
	13–18	–	–	–	–	–	×	–	×					
B2.V	4	×	×	×	×	–	–	–	–					
	5–12	×	×	×	×	×	×	–	–					
	13–18	–	–	–	–	×	×	–	–					
B3.V	4	×	×	×	×	–	–	–	–					
	5–12	×	×	×	×	–	–	×	×					
	13–18	–	–	–	–	–	–	×	×					

X= 可供货　X = Possible variants
1) 冷却液需要量 (L ／ mm)　Required cooling water quantity (L/min)
冷却盘管适用于淡水、海水和半咸水。 Cooling coil suitable for fresh, sea and brackish.

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

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

表 1　Table 1

类型 Types	规格 Size	浸油润滑 Dip lubrication	法兰泵强制润滑 Forced lubrication flanged on pump	电动泵强制润滑 Forced lubrication motor pump
H2.V	4 5...12 13...18	× × –	– × ×	– – –
H3.V	5...12 13...18	× –	× ×	× ×
H4.V	5...12 13...18	× –	× –	× ×
B2.V	4 5...12 13...18	× × –	– × ×	– × ×
B3.V	4 5...12 13...18	× × –	– × ×	– × ×
B4.V	5...12 13...18	× –	× –	× ×

X= 可供货　X = Possible variants

1) 采用实心轴、带储油管的齿轮箱所用的各种润滑油供给方式见 120 页表 14。
1) For possible variants for gear units with solid shaft and oil retaining tube, see page120, table 14.

推荐供油方式 Prefer redorder：
规格 6 号 (含) 以下各型：浸油润滑，规格 7 号以上各型：强制润滑
Up to size 6– dip lubrication from size 7 up. forced lubrication

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

浸油润滑 Dip lubrication
当用浸油润滑时，所用需要润滑的零部件均需浸在润滑油液中。
附带的补偿油箱用于储藏涨溢的油液。
选择依据参见 114 页。
In case of dip lubrication, all parts to be lubricated are lying in the oil.
An oil compensating tank has been fitted for oil ex–pansion.
Criteria for selection, see page 114.

强制润滑 Forced lubrication:
当采用强制润滑时，所有未浸在润滑油液中的零部件均通过一个法兰联接油泵或单独的电动油泵进行飞溅润滑。
选择依据参见 115–119 页。
In case of forced lubrication, all parts which are not lying in oil are splash lubricated by means of a flanged–on pump or by a separate motor pump. Criteria for selection, see pages 115–119.

H/B工业齿轮箱 GEAR UNITS

齿轮箱 Gear Units　浸油润滑方式 Dip Lubrication for
类型 Types H2...H4, B2...B4　规格 Sizes 1...12　立式安装 Vertical

当选用浸油润滑方式时，应满足下列要求：a) 最大输入转速 N1，参见表 2；b) 允许油温参见表 3。
For the design with dip lubrication the following criteria have to be observed:
a)Maximum input speed n1 ,See table 2. b) Permissible oil temperatures, see table 3.

表 2　Table 2

规格 Size	类型 Type											
	H2.V		H3.V		H4.V		B2.V		B3.V		B4.V	
	iN	n1 max	iN	n1 max	iN	n1 max	iN	n1 max	iN	n1 max	iN	n1 max
1	–	–	–	–	–	–	5–6.3 7.1–8 9–18	1200 1500 1800	–	–	–	–
2	–	–	–	–	–	–	5–5.6 6.3–8 9–10 11.2–18	1000 1200 1500 1800	–	–	–	–
3	6.3–7.1 8–10 11.2–224	1200 1500 1800	–	–	–	–	5–7.1 8–9 10–12.5 14–18	1000 1200 1500 1800	20–71	1800	–	–
4	6.3–10 11.2–12.5 14–22.4	1200 1500 1800	–	–	–	–	5–5.6 6.3–7.1 8–9 10–11.2	750 900 1000 1200	12.5–71	1800	–	–
5	6.3–9 10–12.5 14–16 18–22.4	1000 1200 1500 1800	25–90	1800	–	–	6.3–7.1 8–9 10–11.2	750 900 1000	12.5–71	1800	80–315	1800
6	8–11.2 12.5–16 18–20 22.4–28	1000 1200 1500 1800	31.5–112	1800	–	–	9 10–11.2 12.5–14	750 900 1000	16–90	1800	100–400	1800
7	6.3–7.1 8–9 10–11.2 12.5–16 18–22.4	750 900 1000 1200 1500	25–90	1800	100–355	1800	9–10 11.2	750 900	12.5–25 28–71	1500 1800	80–315	1800
8	8–9 10–11.2 12.5–14 16–20 22.4–28	750 900 1000 1200 1500	31.5–112	1800	125–450	1800	11.2–12.5 14	750 900	16–31.5 35.5–90	1500 1800	100–400	1800
9	6.3–7.1 8–10 11.2–224	1200 1500 1800	25–90	1800	100–355	1800	5–5.6 6.3–7.1 8–10 11.2	900 1000 1200 1500	12.5–71	1800	80–315	1800
10	8–9 10–12.5 14–28	1200 1500 1800	31.5–112	1800	125–450	1800	6.3–7.1 8–9 10–12.5 14	900 1000 1200 1500	16–90	1800	100–400	1800
11	6.3–7.1 8–10 11.2–12.5 14–22.4	1000 1200 1500 1800	25–90	1800	100–355	1800	5.6–6.3 7.1–8 9–10 11.2	750 900 1000 1200	12.5–22.4 25–71	1500 1800	80–315	1800
12	8–9 10–12.5 14–16 18–28	1000 1200 1500 1800	31.5–112	1800	125–450	1800	7.1–8 9–10 11.2–12.5 14	750 900 1000 1200	16–28 31.5–90	1500 1800	100–400	1800

n1 和 iN 值不在表 2 所列范围内的齿轮箱必须采用强制润滑方式。
Gear units with nl and iN which are not listed in table 2 must be designed for forced lubrication

表 3　Table3

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

若油温低于表中所列数值，则必须对润滑油进行加热。
If the temperatures are below the values as listed in the table,the oil must be heated.
当采用浸油润滑时，油温不得低于所用润滑油的倾点。
In case of dip lubrication, the oil temperature must not blow the pour point of the selected oil.

平行轴齿轮箱 Helical Gear Units　　强制润滑方式 Forced Lubrication for
类型 Types H2...H4　　规格 Sizes 5...18　　立式安装 Vertical

表 4 Table4

40 ℃以下的 ISO — VG 粘度 mm²/s (cst) Viscosity ISO – VG at 40 ℃ in mm²/s(cst)	强制润滑允许极限温度℃ Permissible temperature limit in ℃ forced feed lubrication			
	矿物油 Mineral oil		合成油 Synthetic oil	
	最低 min	最高 max	最低 min	最高 max
VG 220	10	80	0	90
VG 320	15	90	5	100
VG 460	20	95	10	105

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

Forced lubrication :
In case of forced lubrication,the operating Viscosity 1800 cst must not be exceeded during starting.A minimum operating viscosity of 25cst must be ensured.If the temperatures are below the values as listed in table4,dip Lubrication has to be provided or the oil must Beheated.

表 5 Table 5

立式安装平行轴齿轮箱采用法兰泵
Assignment of flanged–on pumps to vertical helical gear units

类型 Types	n1 1/min	齿轮箱规格 Gear units size 5,7,9,11	齿轮箱规格 Gear units size 6,8,10,12	法兰泵规格 Flanged–on pumps size	齿轮箱规格 Gear units size 13,15,17	齿轮箱规格 Gear units size 14	齿轮箱规格 Gear units size 16,18	法兰泵规格 Flanged–on pumps size
		速比 Ratio iN			速比 Ratio iN			
H2.V[1]	750–1800	6.3–22.4	8–28	KSW1	6.3–22.4	8–28	7.1–25	KSW2
H3.V[1]	1201–1800	25–35.5	31.5–45	KSW2	22.4–35.5	28–45	25–40	KSW3
		40–71	50–90	KSW3	40–71	50–90	45–80	KSW4
		80–90	100–112	*	80–90	100–112	90–100	*
	901–1200	25–50	31.5–63	KSW3	22.4–25	28–31.5	25–28	KSW3
		56–90	71–112	*	28–45	35.5–56	31.5–50	KSW4
					50–90	63–112	56–100	*
	750–900	25–35.5	315–45	KSW3	22.4–35.5	28–45	25–40	KSW4
		40–90	50–112	*	40–90	50–112	45–100	*
H4.V[1]	1201–1800	100–180	125–224	KSW3	100–355	125–450	112–400	*
		200–335	250–450	*				
	901–1200	100–125	125–160	KSW3				
		140–335	180–450	*				
	750–900	100–335	125–450	*				

*= 所需电动泵，参见表 7
*= Motor pump require,see table 7.

1 ）布置形式 B.D　　Design B.D

平行轴齿轮箱 Helical Gear Units　　强制润滑方式 Forced Lubrication for
类型 Types H2...H4　　规格 Sizes 5...18　　立式安装 Vertical

表 6 Table 6

立式安装平行轴齿轮箱采用法兰泵
Assignment of flanged–on pumps to vertical helical gear units

类型 Types	n1 r/min	齿轮箱规格 Gear units size 5,7,9,11	齿轮箱规格 Gear units size 6,8,10,12	法兰泵规格 Flanged–on pumps size	齿轮箱规格 Gear units size 13,15,17	齿轮箱规格 Gear units size 14	齿轮箱规格 Gear units size 16,18	法兰泵规格 Flanged–on pumps size
		速比 Ratio iN			速比 Ratio iN			
H2.V[1]	750–1800	6.3–22.4	8–28	KSW1	6.3–22.4	8–28	7.1–25	KSW2
H3.V[1]	1201–1800	25–40	31.5–50	KSW2	22.4–50	28–63	25–56	KSW3
		45–90	56–112	KSW3	56–90	71–112	63–90	KSW4
							100	*
	901–1200	25–56	31.5–71	KSW3	22.4–31.5	28–40	25–35.5	KSW3
		63–90	80–112	*	35.5–56	45–71	40–63	KSW4
					63–90	80–112	71–100	*
	750–900	25–45	31.5–56	KSW3	22.4–25	28–31.5	25–28	KSW3
		50–90	63–112	*	28–45	35.5–56	31.5–50	KSW4
					50–90	63–112	56–100	*
H4.V[1]	1201–1800	100–224	125–280	KSW3	100–355	125–450	112–400	*
		250–355	315–450	*				
	901–1200	100–140	125–180	KSW3				
		160–355	200–450	*				
	750–900	100–112	125–140	KSW3				
		125–335	160–450	*				

*= 所需电动泵，参见表 7
*= Motor pump require,see table 7.

1 ）布置形式 A,C　　Design A,C

表 7 Table 7

立式安装平行轴齿轮箱采用法兰泵
Assignment of flanged–on pumps to vertical helical gear units

类型 Types	规格 Sizes	布置方式 Design	油泵 Pump
H2.V	5...18	A/B/C/D	1)
H3.V	5...18	A/C	SF 2/8
	5...12	B/D	SF 2/8
	13...18		SF 2/13
H4.V	7...12	A/C	SF 2/8
	13...18		SF 2/13
	7...18	B/D	SF 2/13

1 ）只提供法兰泵 Flanged–on pump only

直交轴齿轮箱 Bevel–helical Gear Units　强制润滑方式 Forced Lubrication for
类型 Types B2...B4　规格 Sizes 5...18　立式安装 Vertical

表 8 Table8

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

强制润滑　Forced lubrication :
当使用强制润滑时，工作粘度不得超过 1800 cSt。
最低工作粘度不得小于 25 cSt。
当油温低于表 8 所列的数值时，必须提供浸油润滑方式，或者对润滑油进行加热。
In case of forced lubrication,the operating Viscosity 1800 cst muSt not be exceeded during starting.A minimum operating viscosity of 25cst must be ensured.If the temperatures are below the values as listed in table8,dip Lubrication has to be provided or the oil must be heated.

表 9 Table 9

立式安装平行轴齿轮箱采用法兰泵
Assignment of flanged–on pumps to vertical helical gear units

类型 Types	n1 1/min	齿轮箱规格 Gear units size 5,7,9,11	齿轮箱规格 Gear units size 6,8,10,12	法兰泵规格 Flanged–on pump size	齿轮箱规格 Gear units size 13,15,17	齿轮箱规格 Gear units size 14	齿轮箱规格 Gear units size 16,18	法兰泵规格 Flanged–on pumps size
		速比 Ratio iN			速比 Ratio iN			
B2.V[1]	1201–1800	5–6.3	6.3–8	KSW1	5–8	6.3–10	5.6–9	KSW2
		7.1–11.2	9–14	KSW2	9–11.2	11.2–14	10–12.5	KSW3
	901–1200	5–8	6.3–10	KSW2	5	63	56	KSW2
		9–11.2	11.2–14	KSW3	5.6–11.2	7.1–14	6.3–12.5	KSW3
	750–900	5–6.3	6.3–8	KSW2	5–10	6.3–12.5	5.6–11.2	KSW3
		7.1–10	9–12.5	KSW3	112	14	125	*
		112	14	*				
B3.V[1]	1201–1800	12.5–35.5	16–45	KSW2	12.5–35.5	16–45	14–40	KSW3
		40–71	50–90	KSW3	40–71	50–90	45–80	KSW4
	901–1200	12.5–25	16–31.5	KSW2	12.5–25	16–31.5	14–28	KSW3
		28–50	35.5–63	KSW3	28–50	35.5–63	31.5–56	KSW4
		56–71	71–90	*	56–71	71–90	63–80	*
	750–900	12.5–35.5	16–45	KSW3	12.5–35.5	16–45	14–40	KSW4
		40–71	50–90	*	40–71	50–90	45–80	*
B4.V[1]	1201–1800	80–125	100–160	KSW2	80–315	100–400	90–355	*
		140–250	180–315	KSW3				
		280–315	355–400	*				
	901–1200	80–180	100–224	KSW3				
		200–315	250–400	*				
	750–900	80–125	100–160	KSW3				
		140–315	180–400	*				

*= 所需电动泵，参见表 11　　*= Motort pump requie,see table 11.

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

直交轴齿轮箱 Bevel–helical Gear Units　强制润滑方式 Forced Lubrication for
类型 Types B2...B4　规格 Sizes 5...18　立式安装 Vertical

表 10 Table 10

立式安装直交齿轮箱机采用法兰泵
Assignment of flanged–on pumps to vertical bevel–helical gear units

类型 Types	n1 r/min	齿轮箱规格 Gear units size 5,7,9,11	齿轮箱规格 Gear units size 6,8,10,12	法兰泵规格 Flanged–on pump size	齿轮箱规格 Gear units size 13,15,17	齿轮箱规格 Gear units size 14	齿轮箱规格 Gear units size 16,18	法兰泵规格 Flanged–on pumps size
		速比 Ratio iN			速比 Ratio iN			
B2.V[1]	1201–1800	5.6–6.3	6.3–8	KSW1	5–6.3	6.3–8	5.6–7.1	KSW2
		7.1–11.2	9–14	KSW2	7.1–11.2	9–14	8–12.5	KSW3
	901–1200	5–8	6.3–10	KSW2	5–10	6.3–12.5	5.6–11.2	KSW3
		9–11.2	11.2–14	KSW3	11.2	14	12.5	*
	750–900	5–6.3	6.3–8	KSW2	5–7.1	6.3–9	5.6–8	KSW3
		7.1–10	9–12.5	KSW3	8–11.2	10–14	9–12.5	*
		11.2	14	*				
B3.V[2]	1201–1800	12.5–35.5	16–45	KSW2	12.5–22.4	16–28	14–25	KSW2
		40–71	50–90	KSW3	25–40	31.5–63	28–56	KSW3
					56–71	71–90	63–80	KSW4
	901–1200	12.5–25	16–31.5	KSW2	12.5–35.5	16–45	14–40	KSW3
		28–50	35.5–63	KSW3	40–56	50–71	45–63	KSW4
		56–71	71–90	*	63–71	80–90	71–80	*
	750–900	12.5–35.5	16–45	KSW3	12.5–25	16–31.5	14–28	KSW3
		40–71	50–90	*	28–40	35.5–50	31.5–45	KSW4
					45–71	56–90	50–80	*
B4.V[1]	1201–1800	80–100	100–224	KSW3	80–315	100–400	90–355	*
		200–315	250–400					
	901–1200	80–125	100–160	KSW3				
		140–315	180–400	*				
	750–900	80–90	100–112	KSW3				
		100–315	125–400	*				

*= 所需电动泵，参见表 11　　*= Motor pump require,see table 11.

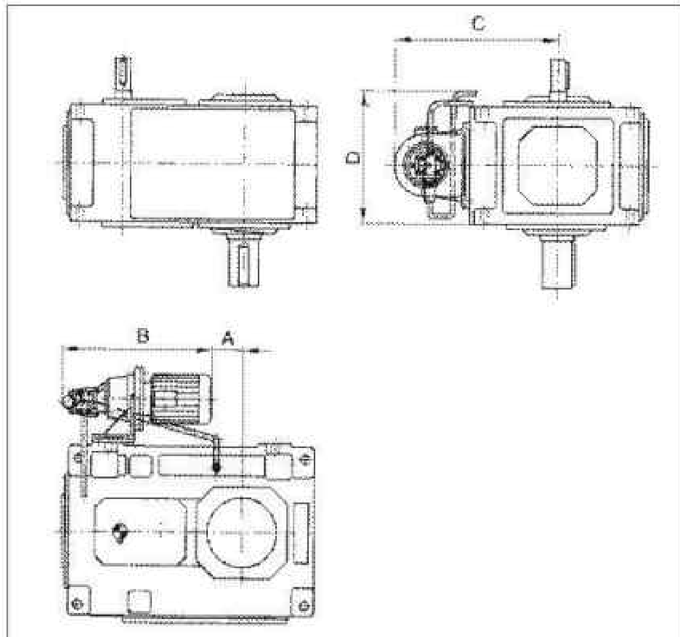
1 ）布置形式 C,D　Design C,D
2 ）布置形式 A,B　Design A,B

表 11 Table 11

立式安装直交齿轮箱机采用法兰泵
Assignment of flanged–on pumps to vertical bevel–helical gear units

类型 Types	规格 Size	布置方式 Design	油泵 Pump
B2.V	5...12	A/B	SF 2/5
	13...18		SF 2/8
	5...18	C/D	SF 2/8
B3.V	5...12	A/B	SF 2/8
	13...18		SF 2/13
	5...12	C/D	SF 2/8
	13...18		SF 2/13
B4.V	5...12	A/B	SF 2/8
	13...18		SF 2/13
	5...12	C/D	SF 2/8
	13...18		SF 2/13

齿轮箱 Gear Units　　电动泵强制润滑方式 Mounted Motor Pumps
类型 Types H3, H4, B2, B3, B4　　规格 5...18 Sizes 5...18　　立式安装 Vertical



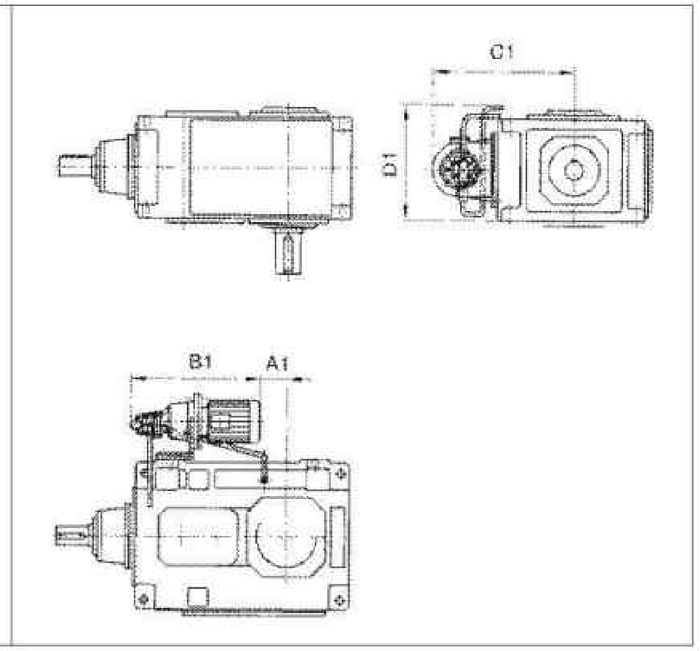


表 12 Table 12
安装尺寸 mounting dimensions on mm

类型 Tyoes	规格 Size	布置形式 Design	A	B	C	D
H3.V	5/6	A/B/C/D	–30/5	560	480	385
	7/8	A/B/C/D	55/100	585	550	430
	9/10	A/B/C/D	140/190	610	565	500
	11/12	A/B/C/D	375/445	530	625	560
	13/14	A/C	155/225	880	670	700
	13/14	B/D	100/170	935	670	700
	15/16	A/C	275/320	965	710	770
	15/16	B/D	220/265	1020	710	770
	17/18	A/C	250/310	1040	770	835
	17/18	B/D	195/255	1095	770	835
H4.V	7/8	A/C	55/100	600	550	430
	7/8	B/D	0/45	680	550	430
	9/10	A/C	140/190	625	565	500
	9/10	B/D	85/135	705	565	500
	11/12	A/C	375/445	550	625	560
	11/12	B/D	320/390	635	625	560
	13/14	A/B/C/D	135/205	910	670	700
	15/16	A/B/C/D	255/300	1000	710	775
	17/18	A/B/C/D	230/290	1070	775	835

表 13 Table 13
安装尺寸 mounting dimensions on mm

类型 Tyoes	规格 Size	布置形式 Design	A1	B1	C1	D1
B2.V	5/6	A/B/C/D	–160/–125	480	470	415
	7/8	A/B/C/D	5/50	480	525	510
	9/10	A/B/C/D	60/110	480	565	570
	11/12	A/B/C/D	150/220	480	625	660
	13/14	A/B/C/D	–70/0	755	670	805
	15/16	A/B/C/D	15/60	780	710	910
	17/18	A/B/C/D	–5/55	890	775	1025
B3.V	5/6	A/B/C/D	–85/–50	480	480	365
	7/8	A/B/C/D	–5/40	480	550	430
	9/10	A/B/C/D	65/115	480	565	500
	11/12	A/B/C/D	280/350	480	625	560
	13/14	A/B/C/D	35/105	810	670	700
	15/16	A/B/C/D	120/165	875	710	775
	17/18	A/B/C/D	165/225	970	775	835
B4.V	5/6	A/B/C/D	–35/0	480	480	385
	7/8	A/B/C/D	55/100	480	550	430
	9/10	A/B/C/D	140/190	615	565	500
	11/12	A/B/C/D	375/445	530	625	560
	13/14	A/B/C/D	135/205	905	670	700
	15/16	A/B/C/D	255/300	990	710	775
	17/18	A/B/C/D	230/290	1065	775	835

齿轮箱 Gear Units
采用实心轴、带有储油管的齿轮箱的润滑油供给方式
Oil Supply for Gear Units With Solid Shaft and Oil Retaining
类型 Types H2...H4,B2...B4　　规格 Sizes 5...18　　立式安装 Vertical

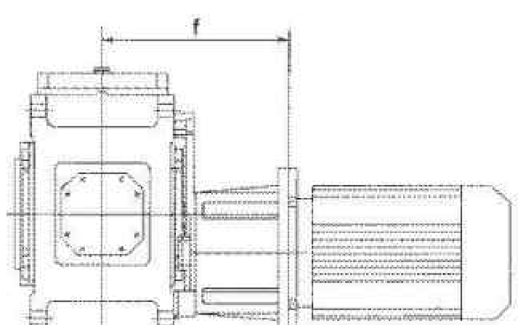
表 14 Table 14

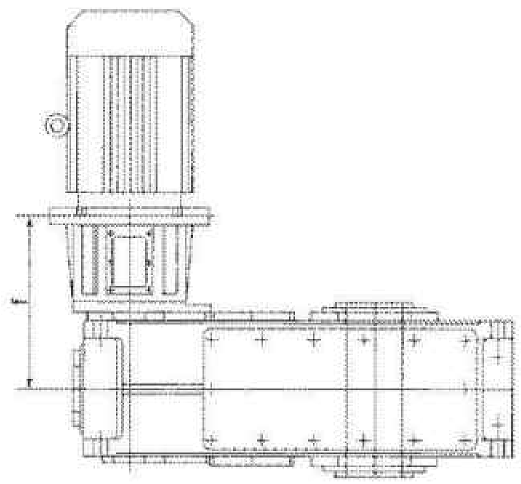
可选润滑油供给方式 possible oil supply variants

类型 Types	规格 Size	布置形式 Design B	布置形式 Design C
H2SV	5–6	O 1)	–
	7–12	O 2)	–
	13–18	O 3)	–
H3SV	5–7	O	–
	7–12	O	–
	13–18	O	–
B2SV	5–6	–	O
	7–12	–	O
	13–18	–	O
B3SV	5–6	–	O
	7–12	–	O
	13–18	–	O
B4SV	5–6	–	O
	7–12	–	O
	13–18	–	O

– = 布置形式不允许 Design not possible
O = 可选强制润滑 Forced lubrication possible
1) 对于规格 5 号齿轮箱，仅适用于速比 i ≤ 16 For size 5 only possible up to i ≤ 16
2) 对于规格 7 号齿轮箱，仅适用于速比 i ≤ 16 For size 7 only possible up to i ≤ 16
对于规格 11 号齿轮箱，仅适用于速比 i ≤ 18 For size 11 only possible up to i ≤ 18
3) 对于规格 13 号齿轮箱，仅适用于速比 i ≤ 18 For size 13 only possible up to i ≤ 18
对于规格 17 号齿轮箱，仅适用于速比 i ≤ 16 For size 17 only possible up to i ≤ 16

齿轮箱 Gear units
电机法兰联接 Motor mounting with flanges
类型 Types H2, H3, H4





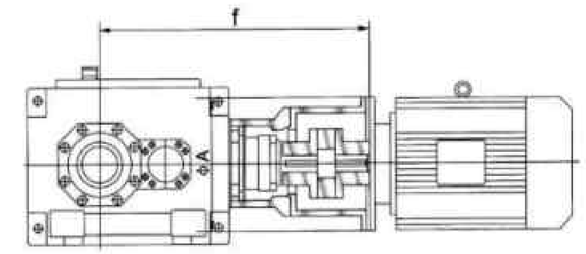
H2..		
电机功率 Motor Power	规格 Size	
	4	5/6
	f	mm
11–15kW	403	
18.5–22kW	403	428
30kW	405	430
37–45kW	442	467
55kW		467

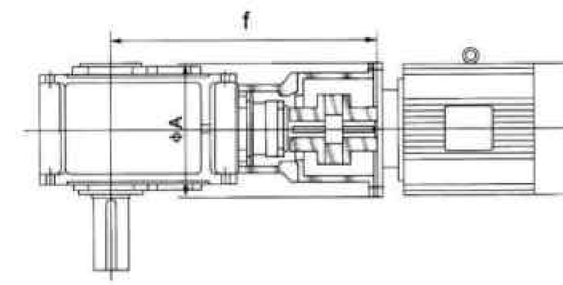
H4..						
电机功率 Motor Power	规格 Size					
	7/8	9		10		11/12
	f			mm		
		齿轮轴 1；传动比 iN/Ratio iN				
		≥ 3.15	≤ 2.8	≥ 3.15	≤ 2.8	
2.2–4kW	318					
5.5–7.5kW	341	379		384		
11–15kW	383	421	430	426	435	493
18.5–22kW		421	430	426	435	493
30kW			432		437	495
37–45kW			469		474	532
55kW						532

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

* 标准电机安装尺寸参见第 125 页。 Fitting dimensions for standard motors see page 125.

齿轮箱 Gear units
钟形罩法兰联接 Motor mounting with bell housing flanges
类型 Types B2, B3, B4





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

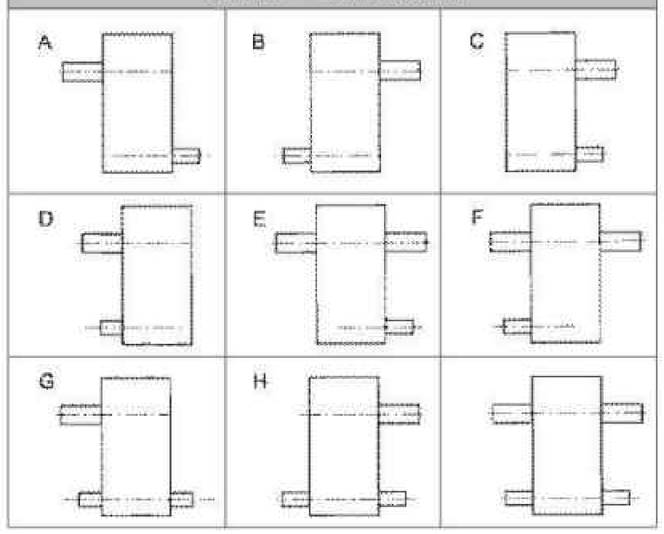
B3..														
电机功率 Motor Power	规格 / size													
	4		5	6		7	8		9	10		11	12	
	f	A	f	A	f	f	A	f	f	A	f	f	A	f
	mm													
2.2–4kW	648	250												
5.5–7.5kW	671	300	756	350	791									
11–15kW	713	350	788	350	823	933	400	978						
18.5–22kW	713	350	788	350	823	933	400	978	1053	420	1103			
30kW	715	400	780	400	825	935	400	980	1055	420	1105	1240	400	1310
37–45kW			827	450	862	972	450	1017	1092	450	1142	1277	450	1347
55kW						972	550	1017	1092	550	1142	1277	550	1347
75–90kW						972	550	1017	1092	550	1142	1277	550	1347

B4..																					
电机功率 Motor Power	规格 / size																				
	5	6		7		8	9	10		11	12		13		14	15	16	17		18	
	f	A	f	f	A	f	f	A	f	f	A	f	f	A	f	f	A	f	f	A	f
	mm																				
2.2–4kW	753	250	780	873	250	918		350													
5.5–7.5kW	776	330	811	896	300	941	1021	350	1071												
11–15kW	818	350	853	938	350	983	1053	350	1003	1253	400	1323									
18.5–22kW	818	350	853	938	350	983	1053	400	1103	1253	400	1323	1423	420	1493						
30kW				940	400	985	1055	450	1105	1255	400	1325	1423	420	1493	1682	400	1728	1730	400	1790
37–45kW							1092		1142	1292	450	1362	1462	450	1532	1719	450	1765	1767	450	1827
55kW										1292	550	1362	1462	550	1532	1719	550	1765	1767	550	1827
75–90kW										1292	550	1362	1462	550	1532	1719	550	1765	1767	550	1827

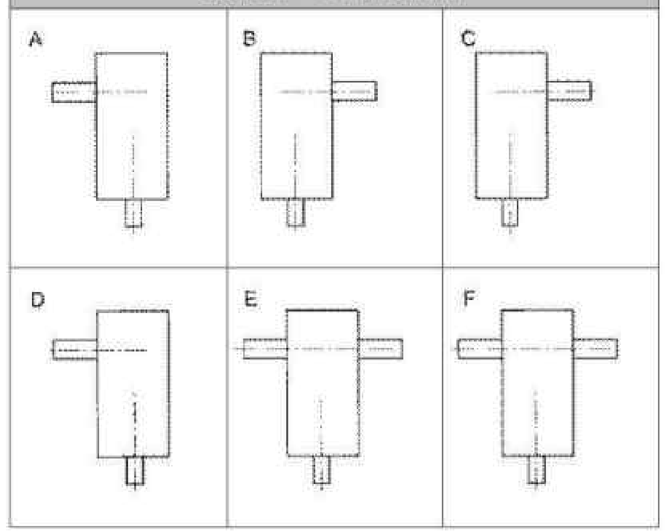
* 标准电机安装尺寸参见第 125 页。 Fitting dimensions for standard motors see page 125.

齿轮箱 Gear units　布置形式 Design
类型 Types H2...H4.., B2...B4　规格 Sizes 1...26

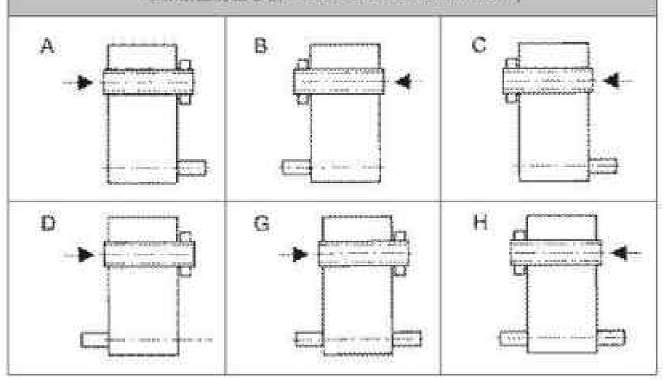
平行轴齿轮箱 Helical gear units
H.SH,H.SV 实心轴 Solid shaft



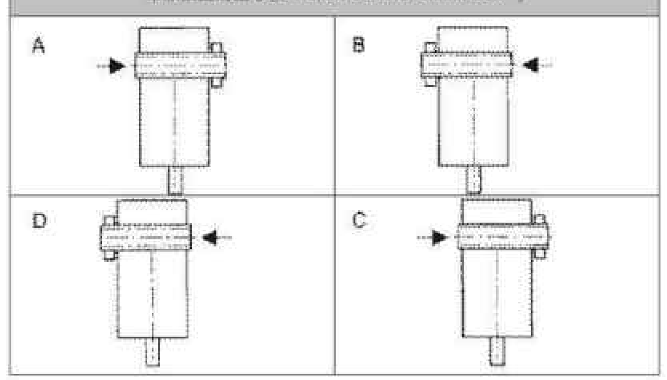
直交轴齿轮箱 Bevel-helical gear units
B.SH,B.SV 实心轴 Solid shaft



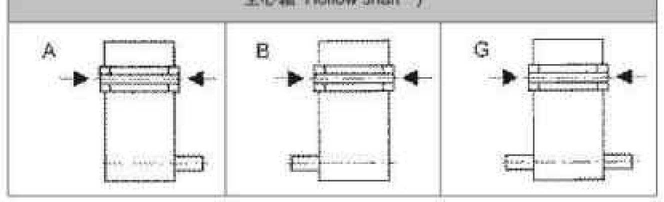
H.DH,H.DM,H.DV
带胀紧盘的空心轴 Hollow shaft for shrink disk *)



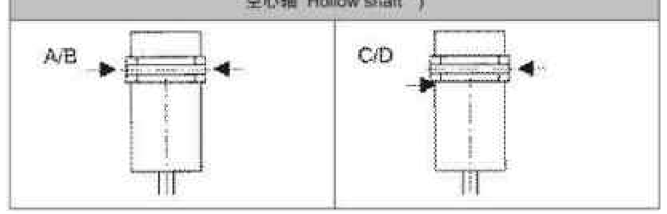
B.DH,B.DM,B.DV
带胀紧盘的空心轴 Hollow shaft for shrink disk *)



H.HH,H.HM,H.HV
空心轴 Hollow shaft *)

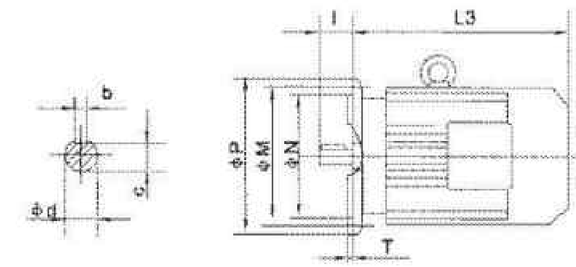


B.HH,B.HM,B.HV
空心轴 Hollow shaft *)



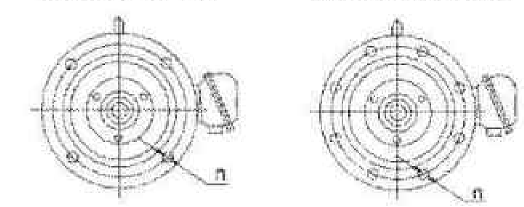
*）箭头表示工作机驱动轴插入方向。
The arrow indicates the direction of insertion of the driven machine shaft.

标准普通电机的参数及安装尺寸
Standard and or dinary motor parameter and mounting dimension



电机机座号 63-200
Motor size 63-200

电机机座号 225-315
Motor size 225-315



电机机座号 Motor size	4 级 Class 4		6 级 Class 6		8 级 Class 8		L3				安装尺寸 Mounting dimensions									M(kg)				
	P1 (kW)	n1 (r/min)	P1 (kW)	n1 (r/min)	P1 (kW)	n1 (r/min)	Y2	B	E	V	M	N	P	n	T	d	l	b	c	Y（铝壳）Aluminium housing	Y2	B	E	V
63	0.12	1390					202	270	328		115	95j6	140	4 × Φ 10	3	11j6	23	4	8.5	5.5	13			11
	0.18	1390																		6	13.5	15		12
71	0.25	1390	0.18	850			225	285	345		130	110j6	160	4 × Φ 10	3.5	14j6	30	5	11	6.5	14	16	12	14
	0.37	1390	0.25	850																7.5	14.5	16	13	15
80	0.55	1390	0.37	885	0.18	645	255	290	350	310	165	130j6	200	4 × Φ 12	3.5	19j6	40	6	15.5	10	15	31	20	16
	0.75	1390	0.55	885	0.25	645														11	16	32	21	17
90S	1.1	1400	0.75	910	0.37	670	270	310	370	320	165	130j6	200	4 × Φ 12	3.5	24j6	50	8	20	16	23	35	27	23
90L	1.5	1400	1.1	910	0.55	670	295	335	395	345	165	130j6	200	4 × Φ 12	3.5	24j6	50	8	20	20	25	39	31	28
100	2.2	1420	1.5	920	0.75	680	325	370	420	370	215	180j6	250	4 × Φ 15	4	28j6	60	8	24		33	49	41	36
	3	1420			1.1	680															35	53	44	36
112M	4	1440	2.2	940	1.5	690	340	400	450	390	215	180j6	250	4 × Φ 15	4	28j6	60	8	24		41	67	60	43
132S	5.5	1440	3	960	2.2	710	390	430	505	450	265	230j6	300	4 × Φ 15	4	38k6	80	10	33		65	93	85	63
132M	7.5	1460	4	960	3	710	430	470	545	490	265	230j6	300	4 × Φ 15	4	38k6	80	10	33		76	105	98	75
			5.5	960																				
160M	11	1460	7.5	960	4	720	505	545	610	550	300	250h6	350	4 × Φ 19	5	42k6	110	12	37		118	150	143	116
					5.5	720																		
160L	15	1460	11	960	7.5	720	560	585	655	595	300	250h6	350	4 × Φ 19	5	42k6	110	12	37		132	169	165	136
180M	18.5	1470					590	620	715	740	300	250h6	350	4 × Φ 19	5	48k6	110	14	42.5		164	205	203	169
180L	22	1470	15	970	11	730	630	640	765	790	300	250h6	350	4 × Φ 19	5	48k6	110	14	42.5		182	222	216	183
200	30	1470	18.5	970	15	730	660	695	790	850	350	300h6	400	4 × Φ 19	5	55k6	110	16	49		245	300	296	236
			22	970																				
225S	37	1480			18.5	730	675	705	860	910	400	350h6	450	8 × Φ 19	5	60m6	140	18	53		258	360	370	291
225M	45	1480	30	980	22	730	705	730	890	940	400	350h6	450	8 × Φ 19	5	60m6	140	18	53		290	390	405	327
250	55	1480	37	980	30	730	770	795		1060	500	450h6	550	8 × Φ 19	5	65m6	140	18	58		388	530	498	393
280S	75	1480	45	980	37	730	845	870		1160	500	450h6	500	8 × Φ 19	5	75m6	140	20	67.5		510	660	633	520
280M	90	1485	55	980	45	740	895	920		1260	500	450h6	550	8 × Φ 19	5	75m6	140	20	67.5		606	785	723	610
315S	110	1485	75	980	55	740	1100	1100		1330	600	550h6	660	8 × Φ 19	6	80m6	170	22	71		910	1000	1150	950
315M	132	1485	90	985	75	740	1180	1180		1380	600	550h6	660	8 × Φ 19	6	80m6	170	22	71		1000	1100	1230	1030
315L	160	1485	110	985	90	740	1270	1270		1450	600	550h6	660	8 × Φ 24	6	80m6	170	22	71		1055	1100	1320	1100
	200	1485	132	985	110	740															1128	1160	1420	1200

注：由于结构需要及生产厂家不同，有时参数会有所变化，此表仅供参考，准确尺寸请来电垂询。
Note:Sometimes the parameters may be changed with the different structures and manufacturers, this table is only for reference, please refer to us for the exact dimensions.

目录
Contents

P系列行星齿轮减速机
P series planetary gearbox

产品概述/型号表示方法
Product Summary and Designation of Types

产品概述 Product summary

1) 采用模块化设计，可根据客户要求进行变化组合。
2) 箱体采用球墨铸铁，大大提高了箱体的刚性及抗震性。
3) 箱体内的太阳轮行星轮，内齿圈及螺旋锥齿轮均采用可控气氛渗碳火处理，得到高硬耐磨表面，热处理后全部磨齿，降低了噪音，提高了整机的效率及使用寿命。
4) 输入方式：同心轴输入，斜齿轮输入，锥齿轮-斜齿轮输入，锥齿轮输入。
5) 输出方式：内花键式，空心轴收缩盘式，外花键式，实心轴平键。
6) 安装形式：水平安装，垂直安装，扭力臂安装。
7) P系列产品有9-34型规格，行星传动级数有2级和3级，速比为25-4000，和CR、K、R系列组合可得到更大速比。

1) Adopt the module design; its match could vary from the customers' requirement.
2) The casting house could adopt the cast-iron QT, it could enhance the house rigidity and anti-shake.
3) The sun planetary gear inside the house, inner gear cycle, and screw-cone gear could adopt the controllable gas gear could gas gear could gasfire treatment way to get the high Hard wear – resistant surface, after it, getting the grind gear to lower the noise, and enhance the efficiency and life expectancy of whole unit.
4) Input mode: the concentric shaft input, helical gear input; cone-helical gear input, cone-gear input.
5) Output mode: inner spline, hollow shaft shrink, outer spline, solid shaft with the even key.
6) Assembly mode: Horizontal, vertical, toque arm.
7) P series product covers 9-34 type specification, the planetary gear has 2 and 3 stage, ratio range 25-4000 gear match with CR、K、 R series matched units could get the bigger ratio.

型号规格表示方法 Type formula

P 3 N A 18-140/-Y/-F/-45-B5-99

- P: P系列行星齿轮减速机 P series planetary gearbox
- 3: 行星齿轮传动级数(2或3级) Planetary stage (2 or 3 stage)
- N: N、S、L、K
N 标准型(同心输入)
S 斜齿轮级
L 锥齿轮级
K 锥齿-斜齿轮级
N: Standard (concentric input)
S: Helical class
L: Cone-gear
K: Cone-helical gea
- A: A、B、C、D
A 带收缩盘空心输出轴
B 带平键的实心输出轴
C 带渐开线花键空心轴
D 带渐开线花键实心轴
A: With shrink disk hollow output shaft
B: With even key solid output shaft
C: With involute spline solid shaft
D: With involute spline solid shaft.
- 18: 机座号 Type No
- 140: 公称减速比 Nominal ratio
- Y: 电机代号与级数 4级时不标明 Motor code and stages, and 4 stage is not mark.
- F: 法兰代号 Flange mode
- 45: 电机功率 Motor power
- B5: 附件代号 Accessory code
- 99: 安装方位 Assembly mode

P系列行星齿轮减速机 PLANETARY GEARBOX

选型及举例
Selection Table and Example

<table>
<tr><th>序号</th><th>说明</th><th>代号</th><th>参数计算</th></tr>
<tr><td>1</td><td>被驱动设备系数</td><td>f1</td><td>查10页f1表</td></tr>
<tr><td>2</td><td>原动机系数</td><td>f2</td><td><table>
<tr><td>原动机系数</td><td>f2</td></tr>
<tr><td>电机，液压马达，汽轮机</td><td>1.0</td></tr>
<tr><td>4-6缸活塞发动机，周期变化1;100至1:200</td><td>1.25</td></tr>
<tr><td>1-3缸活塞发动机，周期变化1:100</td><td>1.5</td></tr>
</table></td></tr>
<tr><td>3</td><td>齿轮箱许用输入转速</td><td>N1</td><td>≤1500</td></tr>
<tr><td>4</td><td>确定减速比</td><td>i</td><td>i=n1/n2</td></tr>
<tr><td>5</td><td>确定齿轮箱类型选择传动效率</td><td>η</td><td><table>
<tr><td>type</td><td>η</td><td>type</td><td>η</td></tr>
<tr><td>P2N</td><td>94%</td><td>P3N</td><td>92%</td></tr>
<tr><td>P2L</td><td>93%</td><td>P3S</td><td>91%</td></tr>
<tr><td>P2S</td><td>93%</td><td>P3K</td><td>89%</td></tr>
<tr><td>P2K</td><td>91%</td><td></td><td></td></tr>
</table></td></tr>
<tr><td>6</td><td>以被驱动设备所需的扭矩或功率，确定齿轮箱的输入功率</td><td>P1</td><td>P1=T2·n1/(9550·i·η)或P1=P2/η</td></tr>
<tr><td>7</td><td>根据计数，查传动能力表，确定齿轮箱规格</td><td>T_{2N}
P_{1N}</td><td>T2N≥T2·f1·f2或P1N≥P1·f1·f2
如果不满足条件：3.33·P1≥P1N，请向我们咨询。</td></tr>
<tr><td>8</td><td>峰值扭矩校核*</td><td>T_A</td><td>P1N≥TA·n1·f3/9550<table>
<tr><td rowspan="2">f3</td><td colspan="4">每小时峰值负荷次数</td></tr>
<tr><td>1-5</td><td>6-30</td><td>31-100</td><td>>100</td></tr>
<tr><td>单向载荷</td><td>0.5</td><td>0.65</td><td>0.7</td><td>0.85</td></tr>
<tr><td>交变载荷</td><td>0.7</td><td>0.95</td><td>1.10</td><td>1.25</td></tr>
</table></td></tr>
<tr><td>9</td><td>输出轴的径向力轴向力校核</td><td>Fr, Fa</td><td>查9页P系列Fr表</td></tr>
<tr><td>10</td><td>计算功率利用率确定其系数</td><td>f_{14}</td><td>功率利用率=P1/P1N·100%
确定其系数f14.<table>
<tr><td>功率利用率</td><td>30%</td><td>40%</td><td>50%</td><td>60%</td><td>70%</td><td>80%</td><td>90%</td><td>100%</td></tr>
<tr><td>F14</td><td>0.66</td><td>0.77</td><td>0.83</td><td>0.90</td><td>0.90</td><td>0.95</td><td>1.0</td><td>1.0</td></tr>
</table></td></tr>
<tr><td>11</td><td>热容量校核</td><td>P_G</td><td>P1≤PG=PG1·f4·f14
若不能满足上式，则齿轮箱需外加补足冷却装置（根据工况要求，可采用冷却水冷却油，风冷等形式）<table>
<tr><td colspan="6">环境温度系数f4</td></tr>
<tr><td rowspan="2">环境温度</td><td colspan="5">每小时工作周期(ED)百分比%</td></tr>
<tr><td>100</td><td>80</td><td>60</td><td>40</td><td>20</td></tr>
<tr><td>10℃</td><td>1.14</td><td>1.20</td><td>1.32</td><td>1.54</td><td>2.04</td></tr>
<tr><td>20℃</td><td>1.00</td><td>1.36</td><td>1.16</td><td>1.35</td><td>1.79</td></tr>
<tr><td>30℃</td><td>0.87</td><td>0.93</td><td>1.00</td><td>1.18</td><td>1.56</td></tr>
<tr><td>40℃</td><td>0.71</td><td>0.75</td><td>0.82</td><td>0.96</td><td>1.27</td></tr>
<tr><td>50℃</td><td>0.55</td><td>0.58</td><td>0.64</td><td>0.74</td><td>0.98</td></tr>
</table></td></tr>
<tr><td>12</td><td>确定润滑方式</td><td></td><td>V1, V3, V11, V31安装方位为浸油润滑;
B51强制润滑; 其他安装方位为飞溅润滑为油泵</td></tr>
<tr><td>13</td><td colspan="3">根据输入，输出方式，安装方位等确定具体型号所需附件</td></tr>
</table>

*峰值扭矩：最大负载扭矩，是指启动，制动或最大脉动载荷所引起的最大扭矩。（一般工况条件下峰值扭矩为启动或制动时的最大扭矩）

选型及举例
Selection Table and Example

<table>
<tr><th>No</th><th>Statements</th><th>Code</th><th>Parameters calculation</th></tr>
<tr><td>1</td><td>Coefficient of driven machine</td><td>f1</td><td>10 page and table f1</td></tr>
<tr><td>2</td><td>Prime motor coefficient</td><td>f2</td><td><table>
<tr><td>Prime motor coefficient</td><td>f2</td></tr>
<tr><td>Motor, hydraulic motor, turbine</td><td>1.0</td></tr>
<tr><td>4-6 jar piston engine, cycle change 1:100 to 1:200</td><td>1.25</td></tr>
<tr><td>1-3 jar piston engine, cycle change 1:100</td><td>1.5</td></tr>
</table></td></tr>
<tr><td>3</td><td>Gear permissible coefficient</td><td>N1</td><td>≤1500</td></tr>
<tr><td>4</td><td>Gear ratio</td><td>i</td><td>i=n1/n2</td></tr>
<tr><td>5</td><td>Confirm the gear units type And select transmission efficiency</td><td>η</td><td><table>
<tr><td>type</td><td>η</td><td>type</td><td>η</td></tr>
<tr><td>P2N</td><td>94%</td><td>P3N</td><td>92%</td></tr>
<tr><td>P2L</td><td>93%</td><td>P3S</td><td>91%</td></tr>
<tr><td>P2S</td><td>93%</td><td>P3K</td><td>89%</td></tr>
<tr><td>P2K</td><td>91%</td><td></td><td></td></tr>
</table></td></tr>
<tr><td>6</td><td>Select the gear units input power according To the driving machine torque</td><td>P1</td><td>P1=T2·n1/(9550·i·η) or P1=P2/η</td></tr>
<tr><td>7</td><td>According to the counts, Match the transmission capacity table. Then select the type,</td><td>T2N
P1N</td><td>T2N≥T2·f1·f2 or P1N≥P1·f1·f2
If the conditions are not satisfied: 3.33·P1≥P1N, please contact us.</td></tr>
<tr><td>8</td><td>Peak torque calibration*</td><td>TA</td><td>P1N≥TA·n1·f3/9550<table>
<tr><td rowspan="2">f3</td><td colspan="4">Peak load times per hour</td></tr>
<tr><td>1-5</td><td>6-30</td><td>31-100</td><td>>100</td></tr>
<tr><td>Single load.</td><td>0.5</td><td>0.65</td><td>0.7</td><td>0.85</td></tr>
<tr><td>Alternate load</td><td>0.7</td><td>0.95</td><td>1.10</td><td>1.25</td></tr>
</table></td></tr>
<tr><td>9</td><td>Output shaft radial force, and axial calibration</td><td>Fr, Fa</td><td>Check 9 page P series Fr table.</td></tr>
<tr><td>10</td><td>Calculate the power usage rate and confirm the factor</td><td>f14</td><td>Power usage rate =P1/P1N·100%
Determine the coefficient: f14<table>
<tr><td>Power usage rate</td><td>30%</td><td>40%</td><td>50%</td><td>60%</td><td>70%</td><td>80%</td><td>90%</td><td>100%</td></tr>
<tr><td>F14</td><td>0.66</td><td>0.77</td><td>0.83</td><td>0.90</td><td>0.90</td><td>0.95</td><td>1.0</td><td>1.0</td></tr>
</table></td></tr>
<tr><td>11</td><td>Thermal capacity calibration</td><td>PG</td><td>P1≤PG=PG1·f4·f14
Gearbox need to add the oil cooling, select the water cooling, oil cooling, and wind cooling form according to service facto<table>
<tr><td colspan="6">F4 environment</td></tr>
<tr><td rowspan="2">Environment temperature</td><td colspan="5">Work cycle percentage per hour</td></tr>
<tr><td>100</td><td>80</td><td>60</td><td>40</td><td>20</td></tr>
<tr><td>10℃</td><td>1.14</td><td>1.20</td><td>1.32</td><td>1.54</td><td>2.04</td></tr>
<tr><td>20℃</td><td>1.00</td><td>1.36</td><td>1.16</td><td>1.35</td><td>1.79</td></tr>
<tr><td>30℃</td><td>0.87</td><td>0.93</td><td>1.00</td><td>1.18</td><td>1.56</td></tr>
<tr><td>40℃</td><td>0.71</td><td>0.75</td><td>0.82</td><td>0.96</td><td>1.27</td></tr>
<tr><td>50℃</td><td>0.55</td><td>0.58</td><td>0.64</td><td>0.74</td><td>0.98</td></tr>
</table></td></tr>
<tr><td>12</td><td>Fabrication mode</td><td></td><td>V1, V3, V11, V31 assembly mode is oil-soaked fabrication.
B51 forced fabrication, other mode is splash fabrication, oil pump.</td></tr>
<tr><td>13</td><td colspan="3">Select the matched type accessory according to the input, output mode, and assembly mode.</td></tr>
</table>

* Peak torque the maximum load torque, is the maximum torque when it starts, brakes, and maximum impulses.

P系列行星齿轮减速机 PLANETARY GEARBOX

选型举例
Selection Example

输送设备，输入转速为1000r/min，最大起动扭矩为2000N·m，输出转速为12.5r/min，输出扭矩为68000N·m，每天工作12h，负载持续率为60%，环境温度为0~20℃，大车间安装，风速约为5m/s，海拔高度为1000m以下，水平式法兰安装，偏心平行轴输入、输出、双轴型、实心轴普通平键输出。

Output equipment, input speed is 1000r/min, the maximum start torque is 2000N.m, the output speed 12.5r/min, output torque is 68000N.m, 12h per day, load efficiency is 60%, the environment temperature is 0~20 Celsius degree, big working room, wind speed is 5m/s, the height is below 100m, horizontal assembly, concentric parallel shaft input, output double shaft, the solid shaft common even output

解答:
f1=1.5
f2=1
n1=1000
i=1000/12.5=80

根据速比及输入，输出轴要求可选P2S型
η=0.93
P1=T2·n 1(9500·i·n)
=68000×1000/(9550×80×0.93)=95.7kW
T2N≥T2×f1×f2=68000N·m×1.5×1=102kM·m
P1N≥P1×f1×f2=96.7×1.5 x i=143.55kW
初选P2SB14-80-B5-99
其P1N=153KW PG1=94KW iex=78. 827

校核:
3.33×P2≥P1N
3.33×95.7=318.681KW>P1N满足要求。

峰值扭矩校核:
P1N=153KW≥TA·N1·f3/9550
=2000×1000×0.5/9550=104.71kW满足要求。

热容量校核:
公称功率利用率=P1/P1N=95.7/153=0.625=62.5%
查P系列选型表得f14=0.9f4=1.16
PG1×f4×f14=94×1.16×0.9=100.32KW>P1
因此无须外加辅助冷却装置就可满足设备要求。
根据设备要求，安装方位为B5

润滑方式:
飞溅润滑

选定型号为: P2SB14-80-B5-99

Answer:
f1=1.5
f2=1
n1=1000
i=1000/12.5=80

According to the ratio, input and output shaft requirement, select the P2S
η=0.93
P1=T2·n 1(9500·i·n)
=68000×1000/(9550×80×0.93)=95.7kW
T2N≥T2×f1×f2=68000N·m×1.5×1=102kM·m
P1N≥P1×f1×f2=96.7×1.5 x i=143.55kW
First select: P2SB14-80-B5-99
P1N=153KW PG1=94KW iex=78. 827

Calibration: 3.33×P2≥P1N
3.33×95.7=318.681KW>P1N It meets the requirement.

Peak load calibration:
P1N=153KW≥TA·N1·f3/9550
=2000×1000×0.5/9550=104.71kW. It meets the requirement.

Thermal calibration:
Nominal power usage rate=P1/P1N=95.7/153=0.625=62.5%
Check P series table: f14=0.9f4=1.16
PG1×f4×f14=94×1.16×0.9=100.32KW>P1
So it is not necessary to add the oil cooling, it could meet the requirement.
Select the B5 assembly mode

Fabrication mode: Splash fabrication.

So the final type: P2SB14-80-B5-99

符号说明
Symbol Description

ED=每小时工作周期，以百分比表示，如ED=60%
f1=被驱动设备系数
f2=原动机系数
f3=峰值扭矩系数
f4=环境温度系数
f14=设备功率利用率
PG1=不带辅助冷却装置的齿轮箱热容量
Fr2=允许径向力
P1N=减速机额定许用输入功率
TA=峰值扭矩，或者启动，制动时的最大扭矩

ED=working period for per hour, For example, ED=60%
f1=driven coefficient on equipment
f2=Prime mover coefficient
f3= peak torque coefficient
f4=ambient temperature coefficient
f14=device power utilization
PG1=gearbox heat capacity
Fr2=Allowable radial force
P1N= Rated allowable input power of gearbox
TA=Peak torque or the max torque when starting or braking

五、P系列Fr2(N)表 P series Fr2(N) table

N1 (r/min)	n_{2N}	i_N	Fr2 (N)													
			9	10	11	12	13	14	16	17	18	19-20	21-22	23-24	25-26	27-28
	58.0	25	9538	23353	32518	42407	34737	41183	72297	64454	69713	70477	99136	99347	123583	126071
	51.8	28	9905	24252	33770	44039	36075	42768	75080	66935	72396	73190	102952	103171	128341	130925
	46.0	31.5	10302	25223	35122	45803	37519	44481	78086	69616	75295	76121	107075	107302	133480	136167
	40.8	35.5	10720	26249	36550	47665	39044	46289	81261	72446	78356	79215	111428	111665	138907	141703
	36.3	40	11155	27314	38033	49599	40629	48167	84559	75386	81536	82430	115950	116196	144544	147454
	32.2	45	11602	28408	39556	51585	42256	50096	87945	78404	84801	85731	120593	120849	150332	153358
	29.0	50	12017	29423	40970	53429	43766	51887	91088	81207	87832	88795	124903	125169	155705	258840
1405	25.9	56	12479	30556	42547	55486	45451	53884	94595	84333	91214	92214	129712	129988	161700	164955
	23.0	63	12979	31779	44251	57708	47271	56042	98383	87710	94866	95906	134906	135193	168175	171560
	20.4	71	13507	33071	46050	60054	49193	58320	102382	91276	98723	99805	140390	140689	175011	178534
	18.1	80	14055	34413	47919	62491	51189	60687	106537	94980	102729	103856	146088	146398	182114	185780
	16.1	90	14618	35791	49838	64993	53239	63117	110803	98783	106843	108014	151937	152260	189406	193219
	14.5	100	15140	37071	51619	67316	55142	65373	114764	102314	110662	111875	157368	157703	196176	200125
	12.9	112	15723	38498	53606	69908	57265	67890	119182	106253	114922	116182	163427	163774	203729	207830
	11.6	125	16309	39933	55605	72514	59400	70421	123626	110215	119207	120514	169520	169880	211325	215578
	10.4	140	16937	41471	57746	75306	61687	73132	128385	114458	123796	125153	176046	176420	219460	223878

备注: 各规格更低的输出转速按以上最大的Fr2值。
Remark: Much lower output speed of different specification is based on the max Fr2.

P系列行星齿轮减速机 PLANETARY GEARBOX

被驱动设备系列f1
Driven Coefficient on Equipment f1

被驱动设备系数 f1

工作机	日带载运行时间(小时) 0.5	>0.5-10	>10
污水处理			
浓缩器(中心转动)	-	-	1.2
压滤器	1.0	1.3	1.5
絮凝器	0.8	1.0	1.3
曝气机	-	1.8	2.0
搂集设备	1.0	1.2	1.3
纵向，回转组			
合式接集装置	1.0	1.3	1.5
浓缩器	-	1.1	1.3
螺杆泵	-	1.3	1.5
水轮机	-	-	2.0
泵			
离心泵	1.0	1.2	1.3
容积式泵			
1个活塞	1.3	1.4	1.8
>1个活塞	1.2	1.4	1.5
挖泥机			
斗式运输机	-	1.6	1.6
倾卸装置	-	1.3	1.5
Cartepillar行走机构	1.2	1.6	1.8
斗式挖掘机			
用于捡拾	-	1.7	1.7
用于粗料	-	2.2	2.2
切碎机	-	2.2	2.2
行走机构*	-	2.4	1.8
弯板机	-	1.0	1.0
化学工业			
挤压机	-	-	1.6
调浆机	-	1.8	1.8
橡胶研光机	-	1.5	1.5
冷却圆筒	-	1.3	1.4
混料机，用于			
均匀介质	1.0	1.3	1.4
非均匀介质	1.4	1.6	1.7
搅拌机，用于			
密度均匀介质	1.0	1.3	1.5
不均匀介质	1.2	1.4	1.6
不均匀气体吸收	1.4	1.6	1.8
烘炉	1.0	1.3	1.5
离心机	1.0	1.2	1.3
金属加工设备			
翻板机	1.0	1.0	1.2
推钢机	1.0	1.2	1.2
绕线机	-	1.6	1.6
冷床横移架	-	1.5	1.5
辊式矫直机	-	1.6	1.6
辊道			
连续式	-	1.5	1.5
间歇式	-	2.0	2.0
可逆式扎管机	-	1.8	1.8
剪切机			
连续式*	-	1.5	1.5
曲柄式*	1.0	1.0	1.0
连铸机驱动装置	-	1.4	1.4
轧机			
可逆式开坯机	-	2.5	2.5
可逆式板坯轧机	-	2.5	2.5
可逆式线材轧机	-	1.8	1.8
可逆式中厚板轧机	-	2.0	2.0
	-	1.8	1.8
辊缝调节驱动装置	0.9	1.0	-

工作机	日带载运行时间(小时) 0.5	>0.5-10	>10
输送机械			
斗式输送机	-	1.4	1.5
绞车	1.4	1.6	1.6
卷扬机	-	1.5	1.8
皮带输送机≤150KW	1.0	1.2	1.3
皮带输送机≥150KW	1.1	1.3	1.4
货用电梯*	-	1.2	1.5
客用电梯*	-	1.5	1.8
刮板式输送机	-	1.2	1.5
自动扶梯	1.0	1.2	1.4
轨道行走机构	-	1.5	-
变频装置	-	1.8	2.0
往复式压缩机	-	1.8	1.9
起重机械**			
回转机构*	1.0	1.4	1.8
俯仰机构	1.0	1.1	1.4
行走机构	1.1	1.6	2.0
提升机构	1.0	1.1	1.4
转臂式起重机	1.0	1.2	1.6
冷却塔			
冷却塔风扇	-	-	2.0
风机(轴流和离心式)	-	1.4	1.5
食品工业			
蔗糖生产			
甘蔗切碎机	-	-	1.7
甘蔗碾磨机	-	-	1.7
甜菜糖生产			
甜菜绞碎机	-	-	1.2
榨取机，机械致			
冷机，蒸煮机	-	-	1.4
甜菜清洗机			
甜菜切碎机	-	-	1.5
造纸机械			
各种类型***	-	1.8	2.0
碎浆机驱动装置			
离心式压缩机	-	1.4	1.5
索道缆车			
运货索道	-	1.3	1.4
往返系统空中索道	-	1.6	1.8
T型杆升降机	-	1.3	1.4
连续索道	-	1.4	1.6
水泥工业			
混泥土搅拌器	-	1.5	1.5
破碎机*	-	1.2	1.4
回转窑	-	-	2.0
管式磨机	-	-	2.0
选粉机	-	1.6	1.6
辊压机	-	-	2.0

1. 工作机额定功率P2的确定：
*) 按最大的扭矩确定额定功率
**) 可交载荷准确得分类.
***) 检验热容量是绝对必要的
2. 所列各项系数均为经验值，使用这些系数的前提条件是，所述机械设备符合通常的设计规范和载荷条件，如遇特殊情况，请及时与我们取得联系。
3. 对于那些为列入此表的工作机械，请与我们联系。

被驱动设备系列f1
Driven Coefficient on Equipment f1

Driven coefficient on equipment			
Working machine	Day running time With load(hours) 0. 5	>0. 5-10	>10
Sewage treatment machinery			
Thickener(rotation in center)	-	-	1.2
Filter Press	1.0	1.3	1.5
Flocculator	0.8	1.0	1.3
Aerator	-	1.8	2.0
Raking equipment	1.0	1.2	1.3
Combined longitudinal and rotary rakes	1.0	1.3	1.5
Thickener	-	1.1	1.3
Screw pump	-	1.3	1.5
Turbine	-	-	2.0
Pump			
Centrfugal pump	1.0	1.2	1.3
Dissolved integrand pump			
A piston	1.3	1.4	1.8
> A piston	1.2	1.4	1.5
Dredge			
Bucket conveyor	-	1.6	1.6
dump device	-	1.3	1.5
Cartepillar Walking structure	1.2	1.6	1.8
Bucket excavator			
For picking	-	1.7	1.7
For coarse material	-	2.2	2.2
Shredder	-	2.2	2.2
Walking structure*	-	2.4	1.8
Plate bending machine	-	1.0	1.0
Chemical Industry			
Extruder	-	-	1.6
paste mixer	-	1.8	1.8
Rubber-ray machine	-	1.5	1.5
Cooling cylinder	-	1.3	1.4
Mixer			
For Homogeneous medium	1.0	1.3	1.4
Inhomogeneous media	1.4	1.6	1.7
Blender			
For Homogeneous medium density	1.0	1.3	1.5
Inhomogeneous medium	1.2	1.4	1.6
Uneven gas absorption	1.4	1.6	1.8
Ovens	1.0	1.3	1.5
Centrifuge	1.0	1.2	1.3
Metal processing equipment			
A replica machine	1.0	1.0	1.2
Pusher	1.0	1.2	1.2
Winding machine	-	1.6	1.6
Cooling bed traverse frame	-	1.5	1.5
Roller leveler	-	1.6	1.6
Roller			
Continuous	-	1.5	1.5
Gap-type	-	2.0	2.0
Reversible pipe rolling mill	-	1.8	1.8
Shears			
Continuous*	-	1.5	1.5
Crank type*	1.0	1.0	1.0
The Continuous Casting chicken drive device	-	1.4	1.4
Mill	-	2.5	2.5
Reversible open-Pei machine	-	2.5	2.5
The reversible plate Pei mill	-	1.8	1.8
Reversible wire rod mill	-	2.0	2.0
Reversing plate mill	-	1.8	1.8
Roll gap adjustment drive	0.9	1.0	-

f1			
Working machine	Day running time With load(hours) 0. 5	>0. 5-10	>10
Transportation			
Bucket conveyor	-	1.4	1.5
Winch	1.4	1.6	1.6
conveyors Hoist	-	1.5	1.8
conveyors≥150kw	1.0	1.2	1.3
Freight elevator*	1.1	1.3	1.4
Passenger elevator*	-	1.2	1.5
Scraper conveyor	-	1.5	1.8
Esalator	-	1.2	1.5
Track running gear	1.0	1.2	1.4
	-	1.5	-
Frequency devices	-	1.8	2.0
Reciprocating compressors	-	1.8	1.9
Lifting machinery**			
Slewing mechanism*	1.0	1.4	1.8
Tilt mechanism	1.0	1.1	1.4
Walking structure	1.1	1.6	2.0
Lifting structure	1.0	1.1	1.4
Jib crane	1.0	1.2	1.6
Cooling tower			
Cooling tower fan	-	-	2.0
Fans (Axial and Centrifugal)	-	1.4	1.5
Food Industry			
Sugar industry			
Sugarcane shredder	-	-	1.7
Sugarcane grinders	-	-	1.7
Beet sugar production			
Beet pulpier	-	-	1.2
Squeeze Machine, Mechanical actuator			
Cold machine, cooking machine	-	-	1.4
Beet washing machine			
Beet shredder	-	-	1.5
Paper Machinery			
All types*** The pulpier driver device	-	1.8	2.0
Centrifugal Compressor	-	1.4	1.5
Funicular			
Freight cableway	-	1.3	1.4
Back and forth system cableway	-	1.6	1.8
T-bar lift	-	1.3	1.4
Continuous cableway	-	1.4	1.6
Cement Industry			
Concrete agitator	-	1.5	1.5
Crusher*	-	1.2	1.4
Rotary kiln	-	-	2.0
Tube mill	-	-	2.0
Made powder machine	-	1.6	1.6
Roller press	-	-	2.0

1. The confirmation of rated power of working machine-P2:
*) According to max torque to confirm the rated power;
**) According to Cross-load to classify;
***) Inspection heat capacity is absolutely necessary.
2. All the various coefficients are empirical value, the prerequisite for using these coefficients is the mechanical equipment in line with the usual design specifications and load conditions, if in special circumstances, please contact us.
3. Machinery is for those which not listed in this table, please contact us.

传动能力表
Selection Table

1. P2N和P2S传动能力表:(i=25 ~125)　P2N and P2S selection table:(i=25~125)

n_1 (r/min)	n_{2N} (r/min)	i_N	P2-9 T_{2N} (kN·m)	P2-9 i_{ex}	P2-9 P_{1N} (kW)	P2-10 T_{2N} (kN·m)	P2-10 i_{ex}	P2-10 P_{1N} (kW)	P2-11 T_{2N} (kN·m)	P2-11 i_{ex}	P2-11 P_{1N} (kW)	P2-12 T_{2N} (kN·m)	P2-12 i_{ex}	P2-12 P_{1N} (kW)	P2-13 T_{2N} (kN·m)	P2-13 i_{ex}	P2-13 P_{1N} (kW)	P2-14 T_{2N} (kN·m)	P2-14 i_{ex}	P2-14 P_{1N} (kW)
1500	60				137			193			261			373			516			728
1000	40	25	22	25.634	91	31	25.634	129	42	25.875	174	60	24.983	249	83	24.958	344	117	24.958	485
750	30				68			96			131			187			258			364
1500	54				123			173			235			336			465			655
1000	36	28	22	28.058	82	31	28.058	116	42	28.233	157	60	27.26	224	83	27.318	310	117	27.318	437
750	27				62			87			118			168			232			327
1500	48				109			154			209			298			412			582
1000	32	31.5	22	31.142	73	31	31.142	103	42	31.207	139	60	30.13	199	83	30.321	275	117	30.321	388
750	24				55			77			104			149			206			291
1500	42				96			135			183			261			361			509
1000	28	35.5	22	35.201	64	31	35.201	90	42	35.072	122	60	33.863	174	83	34.272	241	117	34.272	340
750	21				48			67			91			131			181			255
1500	38				87			122			165			236			327			461
1000	25	40	22	40.781	57	31	40.781	80	42	40.302	109	60	38.912	155	83	39.706	215	117	39.706	303
750	19				43			61			83			118			163			230
1500	33.3				77			108			147			209			290			408
1000	22.2	45	22	45.601	51	31	45.601	72	42	43.209	98	60	41.719	140	83	43.797	193	117	43.797	272
750	16.7				38			54			73			105			145			204
1500	30.0				69			97			132			188			261			368
1000	20.0	50	22	51.544	46	31	51.544	65	42	48.561	88	60	46.887	126	83	49.505	174	117	49.505	245
750	15.0				35			49			66			94			130			184
1500	26.8				62			87			118			168			233			238
1000	17.9	56	22	59.715	41	31	59.715	58	42	55.802	79	60	53.878	112	83	57.353	155	117	57.353	219
750	13.4				31			43			59			84			116			164
1500	23.8				55			77			105			150			207			292
1000	15.9	63	22	61.953	37	31	61.953	52	42	63.399	70	60	61.213	100	83	59.977	138	117	59.977	194
750	11.9				27			39			52			75			103			146
1500	21.1				49			69			93			133			184			259
1000	14.1	71	22	71.775	32	31	71.775	46	42	72.853	62	60	70.34	88	83	69.485	122	117	69.485	173
750	10.6				24			34			46			66			92			129
1500	18.8				43			61			82			118			163			230
1000	12.5	80	22	78.782	29	31	78.782	41	42	81.303	50	60	78.499	79	83	78.827	109	117	78.827	153
750	9.4				22			30			41			59			81			115
1500	16.7				38			54			73			105			145			204
1000	11.1	90	22	91.272	26	31	91.272	36	42	93.426	49	60	90.205	70	83	91.324	97	117	91.324	136
750	8.3				19			27			37			52			72			102
1500	15.0				35			49			66			94			130			184
1000	10.0	100	22	99.735	23	31	99.735	32	42	99.678	44	60	96.241	63	83	95.963	87	117	95.963	123
750	7.5				17			24			33			47			65			92
1500	13.4				31			43			59			84			116			164
1000	8.9	112	22	115.55	21	31	115.55	29	42	114.54	39	60	110.59	56	83	111.18	78	117	111.18	109
750	6.7				15			22			29			42			58			82
1500	12.0				28			39			53			75			104			147
1000	8.0	125	22	124.74	18	31	124.74	26	42	123.14	35	60	118.9	50	83	119.12	70	117	119.12	98
750	6.0				14			19			26			38			52			74

传动能力表
Selection Table

P2N和P2S传动能力表:(i=25～125)(续前页)　P2N and P2S selection table:(i=25~125)

P2-16			P2-17			P2-18			P2-19			P2-20			P2-21			i_N	n_{2N} (r/min)	n_1 (r/min)
T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)			
		995			1256			1517			1834			2201					60	1500
160	24.75	663	202	24.75	837	244	24.958	1012	295	26.622	1223	354	26.622	1468	392	26.622	1625	25	40	1000
		497			628			759			917			1101			1219		30	750
		895			1131			1366			1651			1981					54	1500
160	27.09	597	202	27.09	754	244	27.318	910	295	29.139	1101	354	29.139	1321	392	29.139	1463	28	36	1000
		448			565			683			825			991			1097		27	750
		796			1005			1214			1468			1761			1950		48	1500
160	20.068	531	202	20.068	670	244	30.321	809	295	32.342	978	354	32.342	1174	392	32.342	1300	31.5	32	1000
		398			502			607			734			881			975		24	750
		696			879			1062			1284			1541			1706		42	1500
160	33.987	464	202	33.987	586	244	34.272	708	295	36.557	856	354	36.557	1027	392	36.557	1138	35.5	28	1000
		348			440			531			642			770			853		21	750
		630			796			961			1162			1394			1544		38	1500
160	39.375	415	202	39.375	523	244	39.706	632	295	42.353	764	354	42.353	917	392	42.353	1016	40	25	1000
		315			398			480			581			697			772		19	750
		558			705			852			1030			1236			1368		33.3	1500
160	42.318	372	202	42.318	470	244	42.867	568	295	45.725	686	354	45.725	824	392	46.357	912	45	22.2	1000
		279			353			426			515			618			684		16.7	750
		503			635			766			927			1112			1231		30.0	1500
160	47.833	335	202	47.833	423	244	48.454	511	295	51.684	618	354	51.684	741	392	52.399	821	50	20.0	1000
		251			317			383			463			556			616		15.0	750
		449			567			684			827			993			1099		26.8	1500
160	55.417	299	202	55.417	378	244	56.136	456	295	59.878	552	354	59.878	662	392	60.706	733	56	17.9	1000
		224			283			342			414			496			550		13.4	750
		399			504			608			735			883			977		23.8	1500
160	61.438	266	202	61.438	336	244	60.32	406	295	64.341	490	354	64.341	588	392	66.084	651	63	15.9	1000
		199			252			304			368			441			489		11.9	750
		354			447			540			653			783			867		21.1	1500
160	71.178	236	202	71.178	298	244	69.882	360	295	74.541	435	354	74.541	522	392	76.561	578	71	14.1	1000
		177			223			270			326			392			434		10.6	750
		314			397			479			579			695			770		18.8	1500
160	78.788	209	202	78.788	264	244	78.976	319	295	84.841	386	354	84.841	463	392	84.746	513	80	12.5	1000
		157			198			240			290			347			385		9.4	750
		279			353			426			515			618			684		16.7	1500
160	91.278	186	202	91.278	235	244	91.496	284	295	97.596	343	354	97.596	412	392	98.182	456	90	11.1	1000
		140			176			213			257			309			342		8.3	750
		251			317			383			463			556			616		15.0	1500
160	96.594	168	202	96.594	212	244	95.963	255	295	102.36	309	354	102.36	371	392	103.9	410	100	10.0	1000
		126			159			192			232			278			308		7.5	750
		224			283			342			414			496			550		13.4	1500
160	111.91	150	202	111.91	189	244	111.18	228	295	118.59	276	354	118.59	331	392	120.37	366	112	8.9	1000
		112			142			171			207			248			275		6.7	750
		201			254			307			371			445			493		12.0	1500
160	120.59	134	202	120.59	169	244	119.12	204	295	127.06	247	354	127.06	297	392	129.41	328	125	8.0	1000
		101			127			153			185			222			246		6.0	750

P系列行星齿轮减速机 PLANETARY GEARBOX

传动能力表
Selection Table

P2N和P2S传动能力表:(i=25～125)(续前页)　P2N and P2S selection table:(i=25~125)

n_1 (r/min)	n_{2N} (r/min)	i_N	P2-22			P2-23			P2-24			P2-25			P2-26			P2-27		
			T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)
1500	60																			
1000	40	25	450	26.622	1866	513	26.872	2127	592	26.872	2454	684	26.872	2863	763	26.872	3163	852	26.622	3532
750	30				1399			1595			1841			2127			2372			2649
1500	54																			
1000	36	28	450	29.139	1679	513	29.321	1914	592	29.321	2209	684	29.321	2552	763	29.321	2847	852	29.139	3179
750	27				1259			1436			1657			1914			2135			2384
1500	48				2239			2552			2945			3403			3796			4238
1000	32	31.5	450	32.342	1492	513	32.409	1701	592	32.409	1963	684	32.409	2268	763	32.409	2530	852	32.342	2826
750	24				1119			1276			1473			1701			1898			2129
1500	42				1959			2233			2577			2977			3821			3709
1000	28	35.5	450	36.557	1306	513	36.424	1489	592	36.424	1718	684	36.424	1985	763	36.424	2214	852	36.557	2472
750	21				979			1117			1288			1489			1661			1854
1500	38				1772			2020			2331			2694			3005			3855
1000	25	40	450	42.353	1166	513	41.855	1329	592	41.855	1534	684	41.855	1772	763	41.855	1977	852	42.353	2208
750	19				886			1010			1166			1347			1502			1678
1500	33.3				1571			1790			2066			2387			2663			
1000	22.2	45	450	46.357	1047	513	45.373	1194	592	45.373	1377	684	45.373	1592	763	45.373	1775	852	46.948	1982
750	16.7				785			895			1033			1194			1332			1487
1500	30.0				1414			1611			1860			2149			2397			
1000	20.0	50	450	52.399	942	513	50.993	1074	592	50.993	1240	684	50.993	1432	763	50.993	1598	852	53.067	1784
750	15.0				707			806			930			1074			1198			1338
1500	26.8				1262			1439			1660			1918			2140			
1000	17.9	56	450	60.706	841	513	58.597	959	592	58.597	1107	684	58.597	1279	763	58.597	1427	852	61.48	1593
750	13.4				631			719			830			959			1070			1195
1500	23.8				1122			1279			1476			1705			1902			
1000	15.9	63	450	66.084	748	513	64.442	853	592	64.442	984	684	64.442	1137	763	64.442	1268	852	66.345	1416
750	11.9				561			639			738			853			951			1062
1500	21.1				995			1135			1310			1513			1688			
1000	14.1	71	450	76.561	664	513	74.051	757	592	74.051	873	684	74.051	1009	763	74.051	1125	852	76.863	1256
750	10.6				498			567			655			757			844			942
1500	18.8				883			1007			1162			1343			1498			
1000	12.5	80	450	84.746	589	513	82.781	671	592	82.781	775	684	82.781	895	763	82.781	999	852	84.241	1115
750	9.4				442			504			581			671			749			886
1500	16.7				785			895			1033			1194			1332			
1000	11.1	90	450	98.182	524	513	95.124	597	592	95.124	689	684	95.124	796	763	95.124	888	852	97.596	991
750	8.3				393			448			517			597			666			743
1500	15.0				707			806			930			1074			1198			
1000	10.0	100	450	103.9	471	513	101.6	537	592	101.6	620	684	101.6	716	763	101.6	799	852	102.36	892
750	7.5				353			403			465			537			599			669
1500	13.4				631			719			830			959			1070			
1000	8.9	112	450	120.37	421	513	116.75	480	592	116.75	553	684	116.75	639	763	116.75	713	852	118.59	797
750	6.7				316			360			415			480			535			597
1500	12.0				565			645			744			859			959			
1000	8.0	125	450	129.41	377	513	125.56	430	592	125.56	496	684	125.56	573	763	125.56	639	852	127.06	714
750	6.0				283			322			372			430			479			535

传动能力表
Selection Table

P2N和P2S传动能力表:(i=25～125)(续前页)　P2N and P2S selection table:(i=25~125)

P2-28			P2-29			P2-30			P2-31			P2-32			P2-33			P2-34			i_N	n_{2N}	n_1
T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)		(r/min)	(r/min)
																						60	1500
950	26.622	3938	1060	26.622	4394	1200	26.622	4975	1330	26.872	5514	1500	26.872	6218	1680	26.622	6965	1920	26.622	7960	25	40	1000
		2954			3296			3731			4135			4664			5223			5970		30	750
																						54	1500
950	29.139	3544	1060	29.139	3955	1200	29.139	4477	1330	29.321	4962	1500	29.321	5597	1680	29.139	6268	1920	29.139	7164	28	36	1000
		2658			2966			3358			3722			4197			4701			5373		27	750
		4726			5273			5970			6616			7462			8358			9551		48	1500
950	32.342	3151	1060	32.342	3515	1200	32.342	3980	1330	32.409	4411	1500	32.409	4975	1680	32.342	5572	1920	32.342	6368	31.5	32	1000
		2363			2637			2985			3308			3731			4179			4776		24	750
		4135			4614			5223			5789			6529			7313			8385		42	1500
950	36.557	2757	1060	36.557	3076	1200	36.557	3482	1330	36.424	3860	1500	36.424	4353	1680	36.557	4875	1920	36.557	5572	35.5	28	1000
		2068			2307			2612			2895			3265			3656			4179		21	750
		3741			4175			4726			5238			5907			6616			7562		38	1500
950	42.353	2461	1060	42.353	2746	1200	42.353	3109	1330	41.855	3446	1500	41.855	3886	1680	42.353	4353	1920	42.353	4975	40	25	1000
		1871			2087			2363			2619			2954			3308			3781		19	750
																						33.3	1500
950	46.948	2210	1060	46.948	2466	1200	46.948	2792	1330	45.575	3095	1500	45.575	3490	1680	45.481	3909	1920	45.481	4467	45	22.2	1000
		1658			1850			2094			2321			2618			2932			3351		16.7	750
																						30.0	1500
950	53.067	1989	1060	53.067	2220	1200	53.067	2513	1330	51.221	2785	1500	51.221	3141	1680	51.409	3518	1920	51.409	4021	50	20.0	1000
		1492			1665			1885			2089			2356			2639			3016		15.0	750
																						26.8	1500
950	61.48	1776	1060	61.48	1982	1200	61.48	2244	1330	58.858	2487	1500	58.858	2805	1680	59.559	3141	1920	59.559	3590	56	17.9	1000
		1332			1486			1683			1865			2103			2356			2692		13.4	750
																						23.8	1500
950	66.345	1579	1060	66.345	1762	1200	66.345	1994	1330	66.102	2210	1500	66.102	2493	1680	66.345	2792	1920	66.345	3191	63	15.9	1000
		1184			1321			1496			1658			1870			2094			2393		11.9	750
																						21.1	1500
950	76.863	1401	1060	76.863	1563	1200	76.863	1770	1330	75.958	1961	1500	75.958	2212	1680	76.863	2478	1920	76.863	2831	71	14.1	1000
		1051			1172			1327			1471			1659			1858			2124		10.6	750
																						18.8	1500
950	84.241	1243	1060	84.241	1387	1200	84.241	1571	1330	83.932	1741	1500	83.932	1963	1680	84.241	2199	1920	84.241	2513	80	12.5	1000
		933			1041			1178			1306			1472			1649			1885		9.4	750
																						16.7	1500
950	97.596	1105	1060	97.596	1233	1200	97.596	1396	1330	96.448	1547	1500	96.448	1745	1680	97.596	1954	1920	97.596	2234	90	11.1	1000
		829			925			1047			1160			1309			1466			1675		8.3	750
																						15.0	1500
950	102.36	995	1060	102.36	1110	1200	102.36	1256	1330	104.3	1393	1500	104.3	1571	1680	104.69	1759	1920	104.69	2010	100	10.0	1000
		746			832			942			1044			1178			1319			1508		7.5	750
																						13.4	1500
950	118.59	888	1060	118.59	991	1200	118.59	1122	1330	119.96	1243	1500	119.96	1402	1680	121.28	1571	1920	121.28	1795	112	8.9	1000
		666			743			841			933			1052			1178			1346		6.7	750
																						12.0	1500
950	127.06	796	1060	127.06	888	1200	127.06	1005	1330	127.56	1114	1500	127.56	1256	1680	129.08	1407	1920	129.08	1608	125	8.0	1000
		597			666			754			836			942			1055			1206		6.0	750

传动能力表
Selection Table

2. P3N和P3S传动能力表:(i=140～900)　P3N and P3S selection table: (i=140~900)

n_1	n_{2N}	i_N	P3-9			P3-10			P3-11			P3-12			P3-13			P3-14		
(r/min)	(r/min)		T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)
1500	10.7				24.8			34.9			47.3			68			94			132
1000	7.1	140	22	146.81	16.5	31	146.81	23.3	42	147.12	31.5	60	142.04	45	83	142.94	62	117	142.94	88
750	5.4				12.4			17.5			23.7			34			47			66
1500	9.4				21.7			30.6			41.4			59			82			115
1000	6.3	160	22	165.95	14.5	31	165.95	20.4	42	165.34	27.6	60	159.64	39	83	161.57	55	117	161.57	77
750	4.7				10.8			15.3			20.7			30			41			58
1500	8.3				19.3			27.2			36.8			53			73			103
1000	5.6	180	22	192.25	12.9	31	192.25	18.1	42	189.99	24.5	60	183.44	35	83	187.19	48	117	187.19	68
750	4.2				9.6			13.6			18.4			26			36			51
1500	7.5				17.3			24.4			33.1			47			65			92
1000	5.0	200	22	210.43	11.6	31	210.43	16.3	42	207.96	22.1	60	200.79	32	83	204.88	44	117	204.88	62
750	3.8				8.7			12.2			16.6			24			83			46
1500	6.7				15.4			21.7			29.4			42			58			82
1000	4.4	225	22	233.57	10.3	31	233.57	14.5	42	230.82	19.6	60	222.86	28	83	227.41	39	117	227.41	55
750	3.3				7.7			10.9			14.7			21			29			41
1500	6.0				13.9			19.6			26.5			38			52			74
1000	4.0	250	22	264.01	9.3	31	264.01	13.0	42	260.9	17.7	60	251.90	25	83	257.04	35	117	257.04	49
750	3.0				6.9			9.8			13.2			19			26			37
1500	5.4				12.4			17.5			23.7			34			47			66
1000	3.6	280	22	305.86	8.3	31	305.86	11.6	42	302.26	15.8	60	291.84	23	83	297.79	31	117	297.79	44
750	2.7				6.2			8.7			11.8			17			23			33
1500	5.4				13.5			17.6			24			34			47			67
1000	3.6	280	22	295.21	8.3	31	295.21	12	42	295.82	16	60	285.62	23	83	287.42	31	117	287.42	44
750	2.7				6.3			8.8			12			17			24			33
1500	4.8				11			16			21			30			42			59
1000	3.2	315	22	333.68	7.4	31	333.68	10.5	42	332.46	14	60	320.99	20	83	324.88	28	117	324.88	39
750	2.4				5.6			7.8			11			15			21			30
1500	4.2				10			14			19			27			37			53
1000	2.8	355	22	386.58	6.7	31	386.58	9.3	42	382.03	13	60	368.86	18	83	376.39	25	117	376.39	35
750	2.1				5			7			9			13			19			26
1500	3.8				8.8			12.4			17			24			33			47
1000	2.5	400	22	401.07	5.8	31	401.07	8.2	42	399.60	11	60	385.82	16	83	390.49	22	117	390.49	31
750	1.9				4.4			6.2			8			12			17			23
1500	3.3				7.8			11			15			21			29			41
1000	2.2	450	22	464.65	5.2	31	464.65	7.3	42	459.18	10	60	443.35	14	83	452.4	20	117	452.4	28
750	1.7				3.4			5.5			7.4			11			15			21
1500	3.0				7			10			13.4			9			26			37
1000	2.0	500	22	510.01	4.7	31	510.01	6.6	42	508.15	8.9	60	490.62	13	83	496.56	18	117	496.56	25
750	1.5				3.5			5			6.7			10			13			19
1500	2.7				6.3			8.8			12			17			24			33
1000	1.8	560	22	590.87	4.2	31	590.87	6	42	583.92	8	60	563.78	11	83	575.29	16	117	575.29	22
750	1.3				3.1			4.4			6			9			12			17
1500	2.4				5.6			7.8			10.6			15			21			30
1000	1.6	630	22	645.65	3.7	31	645.65	5.2	42	643.29	7	60	621.11	10	83	628.63	14	117	628.63	20
750	1.2				2.8			3.9			5.3			8			10			15
1500	2.1				4.5			7			9.4			13			19			26
1000	1.4	710	22	748.01	3.3	31	748.01	4.5	42	739.21	6.3	60	713.72	9	83	728.29	12	117	728.29	18
750	1.1				2.5			3.5			4.7			7			9			13
1500	1.9				4.4			6.2			8.4			12			17			23
1000	1.3	800	22	807.55	2.9	31	807.55	4.1	42	798.04	5.6	60	770.53	8	83	786.25	11	117	786.25	16
750	0.9				2.2			3.1			4.2			6			8			12
1500	1.7				3.4			5.5			7.4			11			15			21
1000	1.1	900	22	935.57	2.6	31	935.57	3.7	42	924.56	5	60	892.68	7	83	910.90	10	117	910.90	14
750	0.8				1.9			2.7			3.7			5			7			10

传动能力表
Selection Table

P3N和P3S传动能力表:(i=140～900)(续前页) P3N and P3S selection table: (i=140~900)

P3-16			P3-17			P3-18			P3-19			P3-20			P3-21			i_N	n_{2N}	n_1
T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)		(r/min)	(r/min)
		180			228			275			332			399			442		10.7	1500
160	143.08	120	202	143.08	152	244	142.94	183	295	152.47	222	354	152.47	266	392	152.47	294	140	7.1	1000
		90			114			137			166			199			221		5.4	750
		158			199			241			291			349			386		9.4	1500
160	161.73	105	202	161.73	133	244	161.57	160	295	172.34	194	354	172.34	233	392	172.34	285	160	6.3	1000
		79			100			120			145			174			193		4.7	750
		140			177			214			258			310			343		8.3	1500
160	187.37	93	202	187.37	118	244	187.19	143	295	199.66	172	354	199.66	207	392	199.66	229	180	5.6	1000
		70			88			107			129			155			172		4.2	750
		126			159			192			233			279			309		7.5	1500
160	204.45	84	202	204.45	106	244	204.88	128	295	218.54	155	354	218.54	186	392	218.54	206	200	5.0	1000
		63			80			96			116			140			155		3.8	750
		112			142			171			207			284			275		6.7	1500
160	225.98	75	202	225.98	94	244	227.41	114	295	242.57	138	354	242.57	165	392	242.57	183	225	4.4	1000
		56			71			86			103			124			137		3.3	750
		101			127			154			186			223			247		6.0	1500
160	253.97	67	202	253.97	85	244	257.04	103	295	274.18	124	354	274.18	149	392	274.18	165	250	4.0	1000
		50			64			77			93			112			124		3.0	750
		90			114			137			166			199			221		5.4	1500
160	291.84	60	202	291.84	76	244	297.79	92	295	317.65	111	354	317.65	133	392	317.65	147	280	3.6	1000
		45			57			69			83			100			110		2.7	750
		91			115			139			168			202			223		5.4	1500
160	268.53	61	202	268.53	77	244	283.53	93	295	302.43	112	354	302.43	134	392	302.43	149	280	3.6	1000
		46			57			69			84			101			112		2.7	750
		81			102			123			149			179			198		4.8	1500
160	303.53	54	202	303.53	68	244	320.48	82	295	341.48	100	354	341.48	119	392	341.48	132	315	3.2	1000
		40			51			62			75			90			99		2.4	750
		72			91			110			132			159			176		4.2	1500
160	351.65	48	202	351.65	60	244	371.29	73	295	396.04	88	354	396.04	106	392	396.04	117	355	2.8	1000
		36			45			55			66			79			88		2.1	750
		64			80			97			118			141			156		3.8	1500
160	396.27	43	202	396.27	54	244	388.27	65	295	414.16	70	354	414.16	94	392	414.16	104	400	2.5	1000
		32			40			49			59			71			78		1.9	750
		57			72			86			104			125			139		3.3	1500
160	459.1	38	202	459.1	48	244	449.83	58	295	479.82	70	354	479.82	84	392	479.82	93	450	2.2	1000
		28			36			43			52			63			69		1.7	750
		51			64			78			94			113			125		3.0	1500
160	508.18	34	202	508.18	43	244	510.30	52	295	544.32	63	354	544.32	75	392	544.32	83	600	2.0	1000
		26			32			39			47			56			62		1.5	750
		46			57			69			84			101			112		2.7	1500
160	588.75	30	202	588.75	38	244	591.20	46	295	630.61	56	354	630.61	67	392	630.61	74	560	1.8	1000
		23			29			35			42			50			56		1.3	750
		40			51			62			75			90			99		2.4	1500
160	623.03	27	202	623.03	34	244	621.23	41	295	662.65	50	354	662.65	60	392	662.65	66	630	1.6	1000
		20			26			31			37			45			50		1.2	750
		36			45			55			66			79			88		2.1	1500
160	721.81	24	202	721.81	30	244	719.72	37	295	767.70	44	354	767.70	53	392	767.70	59	710	1.4	1000
		18			23			27			33			40			44		1.1	750
		32			40			49			59			71			78		1.9	1500
160	776.02	21	202	776.02	27	244	771.13	32	295	822.54	39	354	822.54	47	392	822.54	52	800	1.3	1000
		16			20			24			29			35			39		0.9	750
		28			36			49			52			63			69		1.7	1500
160	891.73	19	202	891.73	24	244	893.38	29	295	952.94	35	354	952.94	42	392	952.94	46	900	1.1	1000
		14			18			22			26			31			35		0.8	750

P系列行星齿轮减速机 PLANETARY GEARBOX

传动能力表
Selection Table

P3N和P3S传动能力表:(i=140～900)(续前页) P3N and P3S selection table: (i=140~900)

n_1	n_{2N}	i_N	P3-22			P3-23			P3-24			P3-25			P3-26			P3-27		
(r/min)	(r/min)		T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)
1500	10.7				507			578			667			711			860			
1000	7.1	140	450	152.17	338	513	152.79	385	592	152.79	445	684	152.79	514	763	152.79	573	852	152.47	640
750	5.4				253			289			333			385			430			480
1500	9.4				444			506			584			674			753			
1000	6.3	160	450	172.34	296	513	171.71	337	592	171.71	389	684	171.71	450	763	171.71	501	852	172.34	560
750	4.7				222			253			292			337			376			420
1500	8.3				394			450			519			599			669			
1000	5.6	180	450	199.66	263	513	187.32	300	592	187.32	346	684	197.32	400	763	197.32	446	852	199.66	498
750	4.2				197			225			259			300			334			373
1500	7.5				355			405			467			539			602			
1000	5.0	200	450	218.54	237	513	215.97	270	592	215.97	311	684	215.97	360	763	215.97	401	852	218.54	448
750	3.8				177			202			233			270			301			336
1500	6.7				315			360			415			479			535			597
1000	4.4	225	450	242.57	210	513	239.71	240	592	239.71	277	684	239.71	320	763	239.71	357	852	242.57	398
750	3.3				158			180			207			240			267			299
1500	6.0				284			324			373			432			481			538
1000	4.0	250	450	274.18	189	513	270.95	216	592	270.95	249	684	270.95	288	763	270.95	321	852	274.18	358
750	3.0				142			162			187			216			241			269
1500	5.4				253			289			333			385			430			480
1000	3.6	280	450	317.65	269	513	313.91	193	592	313.91	222	684	313.91	257	763	313.91	287	852	317.65	320
750	2.7				127			144			167			193			215			240
1500	5.4				256			292			337			389			434			485
1000	3.6	280	450	302.43	171	513	295.28	195	592	295.28	225	684	295.28	260	763	295.28	290	852	296.01	323
750	2.7				128			146			168			195			217			242
1500	4.8				228			260			300			346			386			431
1000	3.2	315	450	341.48	152	513	331.86	173	592	331.86	200	684	331.86	231	763	331.86	257	852	334.59	287
750	2.4				114			130			150			173			193			216
1500	4.2				202			230			266			307			343			383
1000	2.8	355	450	396.04	135	513	381.34	154	592	381.34	177	684	381.34	205	763	381.34	228	852	387.63	255
750	2.1				101			115			133			154			171			191
1500	3.8				179			204			236			273			304			339
1000	2.5	400	450	414.16	120	513	426.24	136	592	426.24	157	684	426.24	182	763	426.24	203	852	416.52	226
750	1.9				90			102			118			136			152			170
1500	3.3				159			182			210			242			270			302
1000	2.2	450	450	479.82	106	513	489.8	121	592	489.8	140	684	489.8	162	763	489.8	180	852	482.56	201
750	1.7				80			91			105			121			135			151
1500	3.0				143			164			189			218			243			272
1000	2.0	500	450	544.32	96	513	546.62	109	592	546.62	126	684	546.6	145	763	546.6	162	852	545.35	181
750	1.5				72			82			94			109			122			136
1500	2.7				128			146			168			195			217			242
1000	1.8	560	450	630.61	85	513	630.12	97	592	628.12	112	684	628.12	130	763	628.12	145	852	631.81	162
750	1.3				64			73			84			97			109			121
1500	2.4				114			130			150			173			193			216
1000	1.6	630	450	662.65	73	513	670.15	87	592	670.15	100	684	670.15	115	763	670.15	129	852	662.65	144
750	1.2				57			65			75			87			97			108
1500	2.1				101			115			133			154			171			191
1000	1.4	710	450	767.70	67	513	770.08	77	592	770.08	89	684	770.08	102	763	770.08	114	852	767.70	128
750	1.1				51			58			66			77			86			96
1500	1.9				90			102			118			136			152			170
1000	1.3	800	450	822.54	60	513	829.8	68	592	829.8	79	684	829.8	91	763	829.8	110	852	822.54	113
750	0.9				45			51			59			68			76			85
1500	1.7				80			91			105			121			135			151
1000	1.1	900	450	952.94	53	513	961.35	61	592	961.35	70	684	961.35	91	763	961.35	90	852	952.94	101
750	0.8				40			45			52			61			68			75

传动能力表
Selection Table

P3N和P3S传动能力表:(i=140～900)(续前页)　P3N and P3S selection table: (i=140~900)

P3-28			P3-29			P3-30			P3-31			P3-32			P3-33			P3-34			i_N	n_{2N}	n_1
T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)		(r/min)	(r/min)
																						10.7	1500
950	152.47	714	1060	152.47	796	1200	152.47	901	1330	152.79	999	1500	152.79	1127	1680	153.90	1262	1920	153.90	1442	140	7.1	1000
		535			597			676			749			845			946			1082		5.4	750
																						9.4	1500
950	172.34	624	1060	172.34	697	1200	172.34	789	1330	171.71	874	1500	171.71	986	1680	173.96	1104	1920	173.96	1262	160	6.3	1000
		468			522			591			656			739			828			946		4.7	750
																						8.3	1500
950	199.66	555	1060	199.66	619	1200	199.66	701	1330	197.32	777	1500	197.32	876	1680	201.54	981	1920	201.54	1122	180	5.6	1000
		416			464			526			583			657			736			841		4.2	750
																						7.5	1500
950	218.54	499	1060	218.54	557	1200	218.54	631	1330	215.97	699	1500	215.97	789	1680	219.91	883	1920	219.91	1009	200	5.0	1000
		375			418			473			524			591			662			757		3.8	750
		666			743			841			932			1051			1178			1346		6.7	1500
950	242.57	444	1060	242.57	495	1200	242.57	561	1330	239.71	622	1500	239.71	701	1680	243.07	785	1920	243.07	897	225	4.4	1000
		333			372			421			466			526			589			673		3.3	750
		599			669			757			839			946			1060			1211		6.0	1500
950	274.18	400	1060	274.18	446	1200	274.18	505	1330	270.95	559	1500	270.95	631	1680	273.18	707	1920	273.18	808	250	4.0	1000
		300			334			379			420			473			530			606		3.0	750
		535			597			676			749			845			946			1082		5.4	1500
950	317.65	357	1060	317.65	398	1200	317.65	451	1330	313.91	499	1500	313.91	563	1680	313.91	631	1920	313.91	721	280	3.6	1000
		268			299			338			375			422			473			541		3.7	750
		541			603			683			757			854			956			1093		5.4	1500
950	296.01	361	1060	296.01	402	1200	296.01	455	1330	300.72	505	1500	300.72	569	1680	292.05	638	1920	292.05	729	280	3.6	1000
		270			302			342			379			427			476			546		2.7	750
		481			536			607			673			759			850			971		4.8	1500
950	334.59	320	1060	334.59	358	1200	334.59	405	1330	337.97	449	1500	337.97	506	1680	330.11	567	1920	330.11	648	315	3.2	1000
		240			268			304			336			379			425			486		2.4	750
		427			467			539			597			673			754			862		4.2	1500
950	387.63	284	1060	387.63	317	1200	387.63	359	1330	388.37	398	1500	388.37	449	1680	382.45	503	1920	382.45	575	355	2.8	1000
		213			238			269			299			337			377			431		2.1	750
		379			422			478			530			598			669			765		3.8	1500
950	416.52	252	1060	416.52	282	1200	416.52	319	1330	426.24	353	1500	426.24	398	1680	417.18	446	1920	417.18	510	400	2.5	1000
		189			211			239			265			299			335			383		1.9	750
		336			375			425			471			531			595			680		3.3	1500
950	482.56	224	1060	482.56	250	1200	482.56	283	1330	489.80	314	1500	489.80	354	1680	483.31	397	1920	483.31	453	450	2.2	1000
		168			188			213			236			266			298			340		1.7	750
		303			338			383			424			478			536			612		3.0	1500
950	545.35	202	1060	545.35	225	1200	545.35	255	1330	546.60	283	1500	546.60	319	1680	535.90	357	1920	535.90	408	500	2.0	1000
		151			169			191			212			239			268			306		1.5	750
		270			302			342			379			427			478			546		2.7	1500
950	631.81	180	1060	631.81	201	1200	631.81	228	1330	628.12	252	1500	628.12	285	1680	620.86	319	1920	620.86	364	560	1.8	1000
		135			151			171			189			213			239			273		1.3	750
		240			268			304			336			379			425			483		2.4	1500
950	662.65	160	1060	662.65	179	1200	662.65	202	1330	670.15	224	1500	670.15	253	1680	657.74	283	1920	657.74	324	630	1.6	1000
		120			134			152			168			190			213			243		1.2	750
		213			238			269			299			337			377			431		2.1	1500
950	767.70	142	1060	767.70	159	1200	767.70	180	1330	770.08	199	1500	770.08	224	1680	762.02	251	1920	762.02	287	710	1.4	1000
		107			119			135			149			168			189			215		1.1	750
		189			211			239			265			299			335			383		1.9	1500
950	822.54	126	1060	822.54	141	1200	822.54	159	1330	827.92	177	1500	827.92	199	1680	819.53	223	1920	819.53	255	800	1.3	1000
		95			106			120			132			149			167			191		0.9	750
		168			188			213			236			266			298			340		1.7	1500
950	952.94	112	1060	952.94	125	1200	952.94	142	1330	959.17	157	1500	959.17	177	1680	941.73	198	1920	941.73	227	900	1.1	1000
		84			94			106			118			133			149			170		0.8	750

传动能力表
Selection Table

3. P2L传动能力表:(i=31.5～100)　P2L selection table: (i=31.5~100)

n_1	n_{2N}	i_N	P2-9			P2-10			P2-11			P2-12			P2-13		
(r/min)	(r/min)		T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)
1500	47.6				111			156			212			302			418
1000	31.7	31. 5	22	32.5353	74	31	32.5353	104	42	32.8413	141	60	31.7089	202	83	31.6775	279
750	23.8				55			78			106			151			209
1500	42.3				98			139			188			268			345
1000	28.2	35. 5	22	35.6114	66	31	35.6114	92	42	35.8344	125	60	34.5987	179	83	34.6723	247
750	21.1				49			69			94			134			173
1500	37.5				87			123			167			238			306
1000	25.0	40	22	39.5264	58	31	39.5264	82	42	39.6083	111	60	38.2424	159	83	38.4842	204
750	18.8				44			62			83			119			153
1500	33.3				78			109			148			212			293
1000	22.2	45	22	43.882	52	31	43.882	73	42	43.4177	99	60	41.9206	141	83	42.1856	195
750	16.7				39			55			74			106			146
1500	30.0				70			98			133			191			264
1000	20.0	50	22	50.4204	47	31	50.4204	66	42	50.5248	89	60	48.7826	127	83	49.0910	176
750	15.0				35			49			67			95			132
1500	26.8				62			88			119			170			235
1000	17.9	56	22	55.7278	42	31	55.7278	59	42	55.8432	79	60	53.9176	113	83	54.2585	157
750	13.4				31			44			60			85			118
1500	23.8				55			78			106			151			209
1000	15.9	63	22	60.4521	37	31	60.4521	52	42	60.5773	71	60	58.4884	101	83	62.3263	139
750	11.9				28			39			53			76			105
1500	21.1				49			69			94			134			186
1000	14.1	71	22	69.6115	33	31	69.6115	46	42	69.7557	63	60	67.3503	89	83	67.7761	124
750	10.6				25			35			47			67			93
1500	18.8				44			62			83			119			165
1000	12.5	80	22	79.0528	29	31	79.0528	41	42	79.9667	56	60	77.2092	79	83	77.6973	110
750	9.4				22			31			42			60			82
1500	16.7				39			55			74			106			146
1000	11.1	90	22	86.2394	26	31	86.2394	36	42	86.418	49	60	83.438	71	83	83.9656	98
750	8.3				19			27			37			53			73
1500	15.0				35			49			67			95			132
1000	10.0	100	22	98.2171	23	31	98.2171	33	42	98.4205	44	60	95.0266	64	83	95.6575	88
750	7.5				17			25			33			48			66

传动能力表
Selection Table

P2L传动能力表:(i=31.5～100)(续前页)　P2L selection table: (i=31.5~100)

P2-14			P2-16			P2-17			P2-18			P2-19			i_N	n_{2N}	n_1
T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)		(r/min)	(r/min)
		510			806			865			1230			1487		47.6	1500
117	31. 6775	340	160	31. 4135	538	202	31.4135	577	244	31.4286	820	295	33.5237	991	31. 5	31.7	1000
		255			403			433			615			743		23.8	750
		478			716			858			1091			1319		42.3	1500
117	34. 6723	324	160	34. 3835	477	202	34.3835	572	244	34.3999	728	295	36.6933	880	35. 5	28.2	1000
		243			358			429			546			660		21.1	750
		432			635			802			969			1171		35.5	1500
117	38. 4842	288	160	38. 1635	423	202	38.1635	535	244	38.1819	646	295	40.7272	781	40	25.0	1000
		216			318			401			484			585		18.8	750
		413			565			713			861			1041		33.3	1500
117	42. 1856	275	160	41. 834	376	202	41.834	475	244	41.149	574	295	46.0254	694	45	22.2	1000
		206			282			356			430			520		16.7	750
		372			508			641			775			937		30.0	1500
117	49. 091	248	160	48. 6818	339	202	48.6818	428	244	49.091	517	295	52.3636	625	50	20.0	1000
		186			254			321			378			468		15.0	750
		332			454			573			692			836		26.8	1500
117	54. 2585	221	160	53. 8063	302	202	53.8063	382	244	54.8664	461	295	58.524	558	56	17.9	1000
		166			227			286			346			418		13.4	750
		295			403			509			615			743		23.8	1500
117	62. 3263	197	160	61. 8069	269	202	61.8069	339	244	62.3263	410	295	66.4812	496	63	15.9	1000
		147			202			255			307			372		11.9	750
		262			358			452			546			660		21.1	1500
117	67. 7761	174	160	67. 2113	239	202	67.2113	301	244	67.7761	364	295	72.2943	440	71	14.1	1000
		131			179			226			273			330		10.6	750
		232			318			401			484			585		18.8	1500
117	77. 6973	155	160	77.0498	212	202	77.0498	267	244	77.6973	323	295	82.8769	390	80	12.5	1000
		116			159			200			242			293		9.4	750
		206			282			356			430			520		16.7	1500
117	83. 9656	138	160	83.2658	188	202	83.2658	238	244	83.9656	287	295	89.563	347	90	11.1	1000
		103			141			178			215			260		8.3	750
		186			254			321			387			468		15.0	1500
117	95. 6275	124	160	94.8305	169	202	94.8305	214	244	95.6275	258	295	102.0023	312	100	10.0	1000
		93			127			160			194			234		7.5	750

注: ▭必须采用强制润滑。　Note: ▭ Must use forced lubrication.

P系列行星齿轮减速机 PLANETARY GEARBOX

传动能力表
Selection Table

3. P2L传动能力表:(i=31.5～100)　P2L selection table: (i=31.5~100)

n_1	n_{2N}	i_N	P2-20			P2-21			P2-22			P2-23			P2-24			P2-25		
(r/min)	(r/min)		T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)
1500	47.6				1517			1976			2268									
1000	31.7	31.5	354	33.5237	1011	392	33.5237	1317	450	33.5237	1512	513	33.8391	1724	592	33.8391	1989	684	33.8391	2298
750	23.8				758			988			1134			1293			1492			1724
1500	42.3				1504			1753			2013									
1000	28.2	35.5	354	36.6933	1003	392	36.6933	1169	450	36.6933	1342	513	36.9231	1530	592	36.9231	1712	684	36.9231	2040
750	21.1				752			877			1006			1147			1284			1530
1500	37.5				1405			1556			1786									
1000	25.0	40	354	40.7272	937	392	40.7272	1037	450	40.7272	1191	513	40.8116	1358	592	40.8116	1567	684	40.8116	1810
750	18.8				703			778			883			1018			1175			1358
1500	33.3				1249			1383			1588			1810			2089			
1000	22.2	45	354	46.0254	833	392	46.0254	922	450	46.0254	1059	513	46.1208	1207	592	46.1208	1393	684	46.1208	1690
750	16.7				625			692			794			905			1044			1207
1500	30.0				1124			1245			1429			1629			1880			
1000	20.0	50	354	52.3636	749	392	52.3636	830	450	52.3636	953	513	52.472	1086	592	52.472	1253	684	52.1365	1448
750	15.0				562			622			714			815			940			1086
1500	26.8				1004			1111			1276			1455			1678			
1000	17.9	56	354	58.524	669	392	58.524	741	450	58.524	851	513	58.6452	970	592	58.6452	1119	684	58.6452	1293
750	13.4				502			556			638			727			839			970
1500	23.8				892			988			1134			1293			1492			1724
1000	15.9	63	354	66.4812	595	392	66.4812	659	450	66.4812	756	513	66.6189	862	592	66.6189	995	684	66.6189	1149
750	11.9				446			494			567			646			746			862
1500	21.1				792			877			1006			1147			1324			1530
1000	14.1	71	354	72.2943	528	392	72.2943	584	450	72.2943	671	513	72.4441	765	592	72.4441	883	684	72.4441	1020
750	10.6				396			438			503			574			662			765
1500	18.8				703			778			893			1018			1175			1358
1000	12.5	80	354	82.8769	468	392	82.8769	519	450	82.8769	595	513	83.0486	679	592	83.0486	783	684	83.0486	905
750	9.4				351			389			447			509			587			679
1500	16.7				625			692			794			905			1044			1207
1000	11.1	90	354	89.563	416	392	89.563	461	450	89.563	529	513	89.7486	603	592	89.7486	696	684	89.7486	804
750	8.3				312			346			397			453			522			603
1500	15.0				562			622			714			815			940			1086
1000	10.0	100	354	102.0023	375	392	102.0023	415	450	102.0023	476	513	102.2136	543	592	102.2136	627	684	102.2136	724
750	7.5				281			311			357			407			470			543

注: ▭必须采用强制润滑。　Note: ▭ Must use forced lubrication.

传动能力表
Selection Table

P2L传动能力表:(i=31.5 -100)(续前页) P2L selection table: (i=31.5~100)

P2-26			P2-27			P2-28			P2-29			P2-30			P2-31-P2-34			i_N	n_{2N}	n_1
T_{2N} (kN•m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN•m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN•m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN•m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN•m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN•m)	i_{ex}	P_{1N} (kW)		(r/min)	(r/min)
																			47.6	1500
763	33.8391	2564	852	33.5237	2863	950	33.5237	2937	1060	33.5237		1200	33.5237					31.5	31.7	1000
		1923			2147			2203											23.8	750
																			42.3	1500
763	36.9231	2275	852	36.6933	2540	950	36.6933	2833	1060	36.6933		1200	36.6933					35.5	28.2	1000
		1706			1905			2124											21.1	750
																			37.5	1500
763	40.8116	2019	852	40.7272	2255	950	40.7272	2514	1060	40.7272		1200	40.7272					40	25.0	1000
		1514			1691			1885											18.8	750
																			33.3	1500
763	45.1208	1795	852	46.0254	2004	950	46.0254	2235	1060	46.0254		1200	46.0254					45	22.2	1000
		1346			1503			1676			1870			2117					16.7	750
															按客户要求供货 According to customer requirements supply commodity				30.0	1500
763	52.1365	1615	852	52.0288	1804	950	52.0288	2011	1060	52.0288		1200	52.0288					50	20.0	1000
		1211			1353			1508			1683			1905					15.0	750
																			26.8	1500
763	58.6452	1442	852	58.524	1610	950	58.524	1796	1060	58.524	2004	1200	58.524	2268				56	17.9	1000
		1082			1208			1347			1503			1701					13.4	750
		1923			2147			2394											23.8	1500
763	66.6189	1282	852	66.4812	1432	950	66.4812	1596	1060	66.4812	1781	1200	66.4812	2016				63	15.9	1000
		961			1074			1197			1336			1512					11.9	750
		1706			1905			2124											21.1	1500
763	72.4441	1138	852	72.2943	1270	950	72.2943	1416	1060	72.2943	1580	1200	72.2943	1789				71	14.1	1000
		853			953			1062			1185			1342					10.6	750
		1514			1691			1885											18.8	1500
763	83.0486	1010	852	82.8769	1127	950	82.8769	1257	1060	82.8769	1403	1200	82.8769	1588				80	12.5	1000
		757			845			943			1052			1191					9.4	750
		1346			1503			1676			1870			2117					16.7	1500
763	89.7486	897	852	89.563	1002	950	89.563	1117	1060	89.563	1247	1200	89.563	1411				90	11.1	1000
		673			752			838			935			1059					8.3	750
		1211			1353			1508			1683			1905					15.0	1500
763	102.2136	808	852	102.0023	902	950	102.0023	1006	1060	102.0023	1122	1200	102.0023	1270				100	10.0	1000
		606			676			754			842			953					7.5	750

注: ▒必须采用强制润滑。 Note: ▒ Must use forced lubrication.

传动能力表
Selection Table

4. P2K传动能力表:(i=112 ~560) P2K selection table:(i=112~560)

n_1	n_{2N}	i_N	P2-9			P2-10			P2-11			P2-12			P2-13			P2-14		
(r/min)	(r/min)		T_{2N} (kN•m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN•m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN•m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN•m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN•m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN•m)	i_{ex}	P_{1N} (kW)
1500	13.4				30.9			43.6			59.0			84			117			164
1000	8.9	112	22	111.25	20.6	31	111.25	29.0	42	111.83	39.4	60	107.97	56	83	107.97	78	117	107.76	110
750	6.7				15.5			21.8			29.5			42			58			82
1500	12.0				27.7			39.0			52.9			76			105			147
1000	8.0	125	22	125.75	18.5	31	125.75	26.0	42	125.68	35.3	60	121.35	50	83	121.8	70	117	121.8	98
750	6.0				13.9			19.5			26.4			38			52			74
1500	10.7				24.7			34.9			47.2			67			93			132
1000	7.1	140	22	145.69	16.5	31	145.69	23.2	42	144.42	31.5	60	139.44	45	83	141.11	62	117	141.11	88
750	5.4				12.4			17.4			23.6			34			47			66
1500	9.4				21.6			30.5			41.3			59			82			115
1000	6.3	160	22	157.28	14.4	31	157.28	20.3	42	155.27	27.5	60	149.91	39	83	151.19	54	117	151.19	77
750	4.7				10.8			15.3			20.7			30			41			58
1500	8.3				19.2			27.1			36.7			52			73			102
1000	5.6	180	22	175.77	12.8	31	175.77	18.1	42	173.52	24.5	60	167.54	35	83	167.85	48	117	167.85	68
750	4.2				9.6			13.6			18.4			26			36			51
1500	7.5				17.3			24.4			33.1			47			65			92
1000	5.0	200	22	203.53	11.5	31	203.53	16.3	42	200.92	22.0	60	193.99	31	83	192.86	44	117	192.86	61
750	3.8				8.7			12.2			16.5			24			33			46
1500	6.7				15.4			21.7			29.4			42			58			82
1000	4.4	225	22	223.22	10.3	31	223.22	14.5	42	200.36	19.6	60	212.76	28	83	213.16	39	117	213.16	55
750	3.3				7.7			10.8			14.7			21			29			41
1500	6.0				13.9			19.5			26.4			39			52			74
1000	4.0	250	22	242.15	9.2	31	242.15	13.0	42	239.04	17.6	60	230.8	25	83	231.23	35	117	231.23	49
750	3.0				6.9			9.8			13.2			19			26			37
1500	5.4				12.4			17.4			23.6			34			47			66
1000	3.6	280	22	278.84	8.2	31	278.84	11.6	42	275.26	15.7	60	265.77	22	83	266.26	31	117	266.26	44
750	2.7				6.2			8.7			11.8			17			23			33
1500	4.7				10.8			15.3			20.7			30			41			58
1000	3.1	320	22	316.65	7.2	31	316.65	10.2	42	312.6	13.8	60	301.82	20	83	302.38	76	117	302.38	38
750	2.3				5.4			7.6			10.3			15			20			29
1500	4.2				9.6			13.6			18.4			26			36			51
1000	2.8	360	22	345.44	6.4	31	345.44	9.0	42	341.01	12.2	60	329.25	17	83	329.86	24	117	329.86	34
750	2.1				4.8			6.8			9.2			13			18			26
1500	3.8				8.7			12.2			16.5			24			33			46
1000	2.5	400	22	393.42	5.8	31	393.42	8.1	42	388.38	11.0	60	374.98	16	83	375.68	22	117	375.68	31
750	1.9				4.3			6.1			8.3			12			16			23
1500	3.3				7.7			10.8			14.7			21			29			41
1000	2.2	450	22	442.27	5.1	31	442.27	7.2	42	436.6	9.8	60	421.54	14	83	422.33	19	117	422.33	27
750	1.7				3.8			5.4			7.3			10			15			20
1500	3.0				6.9			9.8			13.2			19			26			37
1000	2.0	500	22	484.63	4.6	31	487.63	6.5	42	481.38	8.8	60	464.78	13	83	465.64	17	117	465.64	25
750	1.5				3.5			4.9			6.6			9			13			18
1500	2.7		按客户要求供货 According to customer requirements supply commodity																	
1000	1.8	560																		
750	1.3																			

传动能力表
Selection Table

P2K传动能力表:(i=112～560)(续前页)　P2K selection table:(i=112~560)

P2-16			P2-17			P2-18			P2-19			P2-20			i_N	n_{2N}	n_1
T_{2N} (kN•m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN•m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN•m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN•m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN•m)	i_{ex}	P_{1N} (kW)		(r/min)	(r/min)
		225			284			343			415			498		13.4	1500
160	108.47	150	220	108.47	189	244	107.76	229	295	114.94	276	354	114.94	332	112	8.9	1000
		112			142			171			207			249		6.7	750
		201			254			307			372			446		12.0	1500
160	122.6	134	220	122.6	170	244	121.8	205	295	129.92	248	354	129.92	297	125	8.0	1000
		101			127			154			186			223		6.0	750
		180			227			274			332			398		10.7	1500
160	142.04	120	220	142.04	151	244	141.11	183	295	150.52	221	354	150.52	265	140	7.1	1000
		90			114			137			166			199		5.4	750
		157			199			240			290			348		9.4	1500
160	153.05	105	220	153.05	132	244	151.19	160	295	161.27	193	354	161.27	232	160	6.3	1000
		79			99			120			145			174		4.7	750
		140			177			213			258			310		8.3	1500
160	167.77	93	220	167.77	118	244	165.73	142	295	176.78	172	354	176.78	206	180	5.6	1000
		70			88			107			129			155		4.2	750
		126			159			192			232			279		7.5	1500
160	195.23	84	220	195.23	106	244	192.86	128	295	205.71	155	354	205.71	186	200	5.0	1000
		63			79			96			116			139		3.8	750
		112			141			171			206			248		6.7	1500
160	215.79	75	220	215.79	94	244	213.16	114	295	227.37	138	354	227.37	165	225	4.4	1000
		56			71			85			103			124		3.3	750
		101			127			154			186			223		6.0	1500
160	234.08	67	220	234.08	85	244	244.85	102	295	261.18	124	354	261.18	149	250	4.0	1000
		50			64			77			93			111		3.0	750
		90			114			137			166			199		5.4	1500
160	269.55	60	220	269.55	76	244	266.26	91	295	284.01	111	354	284.01	133	280	3.6	1000
		45			57			69			83			100		2.7	750
		79			99			120			145			174		4.7	1500
160	309	52	220	309	66	244	305.24	80	295	325.59	97	354	325.59	116	320	3.1	1000
		39			50			60			73			87		2.3	750
		70			88			107			129			155		4.2	1500
160	333.93	47	220	333.93	59	244	329.86	71	295	351.86	86	354	351.86	103	360	2.8	1000
		35			44			53			64			77		2.1	750
		63			79			96			116			139		3.8	1500
160	380.31	42	220	380.31	53	244	375.68	64	295	400.72	77	354	400.72	93	400	2.5	1000
		31			40			48			58			70		1.9	750
		56			71			85			103			124		3.3	1500
160	427.53	37	220	427.53	47	244	422.33	57	295	450.48	69	354	450.48	83	450	2.2	1000
		28			35			43			52			62		1.7	750
		50			64			77			93			111		3.0	1500
160	471.38	34	220	471.38	42	244	465.64	51	295	496.68	62	354	496.68	74	500	2.0	1000
		25			32			38			46			56		1.5	750
																2.7	1500
按客户要求供货 According to customer requirements supply commodity															560	1.8	1000
																1.3	750

传动能力表
Selection Table

5. P3K传动能力表:(i=560 ~4000)　P3KSelection table: (i=560~4000)

n_1 (r/min)	n_{2N} (r/min)	i_N	P3-9 T_{2N} (kN•m)	P3-9 i_{ex}	P3-9 P_{1N} (kW)	P3-10 T_{2N} (kN•m)	P3-10 i_{ex}	P3-10 P_{1N} (kW)	P3-11 T_{2N} (kN•m)	P3-11 i_{ex}	P3-11 P_{1N} (kW)	P3-12 T_{2N} (kN•m)	P3-12 i_{ex}	P3-12 P_{1N} (kW)	P3-13 T_{2N} (kN•m)	P3-13 i_{ex}	P3-13 P_{1N} (kW)
1500	2.68				6.3			9			12			17			24
1000	1.79	560	22	566.22	4.2	31	566.22	6	42	567.4	8	60	547.83	11	83	551.29	16
750	1.34				3.1			4.4			6			9			12
1500	2.38				5.6			7.8			11			15			21
1000	1.59	630	22	640.02	3.7	31	640.02	5.2	42	637.68	7	60	615.69	10	83	623.14	14
750	1.19				2.8			3.9			5			8			11
1500	2.11				5.0			7			9			14			19
1000	1.41	710	22	700.53	3.3	31	700.53	4.5	42	697.96	6	60	673.9	9	83	682.06	12
750	1.06				2.5			3.5			5			7			9
1500	1.88				4.4			6			8			12			17
1000	1.25	800	22	777.54	2.9	31	777.54	4	42	774.7	6	60	747.98	8	83	757.04	11
750	0.94				2.2			3			4			6			8
1500	1.67				3.9			5.5			7.5			11			15
1000	1.11	900	22	878.88	2.6	31	878.88	3.7	42	875.66	5	60	845.46	7	83	855.70	10
750	0.83				2.0			2.7			3.7			5			7
1500	1.50				3.5			5			6.7			10			13
1000	1.00	1000	22	982.19	2.3	31	982.19	3.3	42	978.6	4.5	60	944.85	6	83	956.3	9
750	0.75				1.8			2.5			3.4			5			7
1500	1.34				3.1			4.4			6			9			12
1000	0.89	1120	22	1137.3	2.1	31	1137.3	2.9	42	1133.1	4	60	1094	6	83	1107.3	8
750	0.67				1.6			2.2			3			4.5			6
1500	1.20				2.8			4.0			5.4			8			11
1000	0.80	1250	22	1247.3	1.9	31	1247.3	2.6	42	1242.8	3.6	60	1199.9	5	83	1214.4	7
750	0.60				1.4			2.0			2.7			4			5
1500	1.07				2.5			3.5			4.8			7			4.9
1000	0.71	1400	22	1351.1	1.7	31	1351.1	2.4	42	1348.1	3.2	60	1301.6	5	83	1317.4	6
750	0.54				1.3			1.8			2.4			3.5			4.5
1500	0.94				2.2			3.1			4.2			6			8
1000	0.63	1600	22	1558.1	1.5	31	1558.1	2.1	42	1552.4	2.8	60	1498.9	4	83	1517	6
750	0.47				1.1			1.5			2.1			3			4
1500	0.83				2.0			2.8			3.7			5			7
1000	0.56	1800	22	1769.4	1.3	31	1769.4	1.8	42	1762.9	2.5	60	1702.1	4	83	1722.8	5
750	0.42				1.0			1.4			1.9			2.7			3.7
1500	0.75				1.8			2.5			3.4			4.8			6.6
1000	0.50	2000	22	1930.3	1.2	31	1930.3	1.7	42	1923.2	2.2	60	1856.9	3.2	83	1879.4	1.4
750	0.38				0.9			1.2			1.7			2.4			3.3
1500	0.67				1.6			2.2			3.0			4.3			5.9
1000	0.45	2240	22	2198.4	1.0	31	2198.4	1.5	42	2190.3	2.0	60	2114.8	2.9	83	2140.4	3.9
750	0.33				0.8			1.1			1.5			2.1			3.0
1500	0.60				1.4			2.0			2.7			3.8			5.3
1000	0.40	2500	22	2471.3	0.9	31	2471.3	1.3	42	2462.3	1.8	60	2377.4	2.6	83	2406.1	3.5
750	0.30				0.7			1.0			1.3			1.9			2.7
1500	0.54				1.3			1.8			2.4			3.4			4.7
1000	0.36	2800	22	2724.8	0.8	31	2724.8	1.2	42	2714.8	1.6	60	2621.2	2.3	83	2652.9	3.2
750	0.27				0.6			0.9			1.2			1.7			2.4
1500	0.48				1.1			1.6			2.1			3.0			4.2
1000	0.32	3150	22	3105	0.7	31	3104.9	1.0	42	3093.6	1.4	60	2986.9	2.0	83	3023.1	2.8
750	0.24				0.6			0.8			1.1			1.5			2.1
1500	0.42				1.0			1.4			1.9			2.7			3.7
1000	0.28	3550	22	3597.2	0.7	31	3597.2	0.9	42	3584.1	1.3	60	3460.5	1.8	83	3502.4	2.5
750	0.21				0.5			0.7			0.9			1.4			1.9
1500	0.38				0.9			1.2			1.7			2.4			3.3
1000	0.25	4000	22	4167.5	0.6	31	4167.5	0.8	42	4118.5	1.1	60	3976.5	1.6	83	4057.6	4.2
750	0.19				0.4			0.6			0.8			1.2			1.7

传动能力表
Selection Table

P3K传动能力表:(i=560～4000)(续前页)　P3KSelection table: (i=560~4000)

P3-14			P3-16			P3-17			P3-18			P3-19			i_N	n_{2N} (r/min)	n_1 (r/min)
T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)			
		33			46			58			70			84		2.68	1500
117	551.29	22	160	551.25	30	202	551.25	38	244	544.28	46	295	580.56	56	560	1.79	1000
		17			23			29			35			42		1.34	750
		30			41			51			62			75		2.38	1500
117	623.14	20	160	623.09	27	202	623.09	34	244	615.21	41	295	656.22	50	630	1.59	1000
		15			20			26			31			37		1.19	750
		26			36			45			55			66		2.11	1500
117	682.06	18	160	679.88	24	202	679.88	30	244	673.37	37	295	718.27	44	710	1.41	1000
		13			18			23			27			33		1.06	750
		23			32			40			49			59		1.88	1500
117	757.04	16	160	751.48	21	202	751.48	27	244	747.4	32	295	797.23	39	800	1.25	1000
		12			16			20			24			29		0.94	750
		21			28			36			43			52		1.67	1500
117	855.70	14	160	844.56	19	202	844.56	24	244	844.81	29	295	901.13	35	900	1.11	1000
		10			14			18			22			26		0.83	750
		19			26			32			39			47		1.50	1500
117	956.3	12	160	943.84	17	202	943.84	22	244	937.9	26	295	1000.4	31	1000	1.00	1000
		9			13			16			19			24		0.75	750
		17			23			29			35			42		1.34	1500
117	1107.3	11	160	1092.4	15	202	1092.9	19	244	1077.6	23	295	1149.5	28	1120	0.86	1000
		8			11			14			17			21		0.67	750
		15			20			26			31			38		1.20	1500
117	1214.4	10	160	1198.6	14	202	1198.6	17	244	1191.1	21	295	1270.5	25	1250	0.80	1000
		7			10			13			16			19		0.60	750
		13			18			23			28			34		1.07	1500
117	1317.4	9	160	1300.2	12	202	1300.2	15	244	1292.1	19	295	1378.2	22	1400	0.71	1000
		7			9			12			14			17		0.54	750
		12			16			20			24			29		0.94	1500
117	1517	8	160	1497.3	11	202	1497.3	13	244	1487.8	16	295	1587	20	1600	0.63	1000
		6			8			10			12			15		0.47	750
		10			14			18			22			26		0.83	1500
117	1722.8	7	160	1700.3	9	202	1700.3	12	244	1689.6	14	295	1802.3	17	1800	0.56	1000
		5.2			7.1			9			11			13		0.42	750
		9.4			12.8			16			19			24		0.75	1500
117	1879.4	6.2	160	1854.9	8.5	202	1854.9	11	244	1843.2	13	295	1966.1	16	2000	0.50	1000
		4.7			6.4			8			10			12		0.38	750
		8.3			11.4			14			17			21		0.67	1500
117	2140.4	5.6	160	2112.5	7.6	202	2112.5	10	244	2099.2	12	295	2239.2	14	2240	0.45	1000
		4.2			5.7			7.2			8.7			10.5		0.33	750
		7.5			1.02			12.9			16			19		0.60	1500
117	2406.1	5.0	160	2374.8	6.8	202	2374.8	8.6	244	2359.9	10.4	295	2517.2	12.6	2500	0.40	1000
		3.7			5.1			6.5			7.8			9.4		0.30	750
		6.7			9.1			12			14			17		0.54	1500
117	2652.9	4.5	160	2618.4	6.1	202	2618.4	7.7	244	2601.9	9.3	295	2775.4	11.2	2800	0.36	1000
		3.3			4.6			5.8			7.0			8.4		0.27	750
		5.9			8.1			10.2			12			15		0.48	1500
117	3023.1	4.0	160	2983.8	5.4	202	2983.8	6.8	244	2965	8.3	295	3162.6	10	3150	0.32	1000
		3.0			4.1			5.1			6.2			7.5		0.24	750
		5.3			7.2			9.1			11			13		0.42	1500
117	3502.4	3.5	160	3428.7	4.8	202	3428.7	6.1	244	3435	7.3	295	3664	8.9	3550	0.28	1000
		2.6			3.6			4.6			5.5			6.6		0.21	750
		4.7			6.4			8.1			9.7			12		0.38	1500
117	4057.6	3.1	160	3972.2	4.3	202	3972.2	5.4	244	3979.6	6.5	295	4244.9	7.9	4000	0.25	1000
		2.3			3.2			4.0			4.9			5.9		0.19	750

P系列行星齿轮减速机 PLANETARY GEARBOX

传动能力表
Selection Table

P3K传动能力表:(i=560～4000)(续前页)　P3KSelection table: (i=560~4000)

n_1 (r/min)	n_{2N} (r/min)	i_N	P3-20			P3-21			P3-22			P3-23			P3-24			P3-25		
			T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)
1500	2.68				101			112			128			146			169			195
1000	1.79	560	354	580.56	67	392	580.56	75	450	580.56	86	513	593.88	98	592	593.88	113	684	593.88	130
750	1.34				51			56			64			73			84			98
1500	2.38				90			99			114			130			150			174
1000	1.59	630	354	656.22	60	392	656.22	66	450	656.22	76	513	667.44	87	592	667.44	100	684	667.44	116
750	1.19				45			50			57			65			75			87
1500	2.11				80			88			101			115			133			154
1000	1.41	710	354	718.27	53	392	718.27	59	450	718.27	68	513	730.55	77	592	730.55	89	684	730.55	103
750	1.06				40			44			51			58			67			77
1500	1.88				71			78			90			102			118			137
1000	1.25	800	354	797.23	47	392	797.23	52	450	797.23	60	513	810.87	68	592	810.87	79	684	810.87	91
750	0.94				35			39			45			51			59			68
1500	1.67				63			70			80			91			105			121
1000	1.11	900	354	901.13	42	392	901.13	46	450	901.13	53	513	916.54	61	592	916.54	70	684	916.54	81
750	0.83				31			35			40			46			53			61
1500	1.50				57			63			72			82			95			109
1000	1.00	1000	354	1000.4	38	392	1000.4	42	450	1000.4	48	513	1004.7	55	592	1004.7	63	684	1004.7	73
750	0.75				28			31			36			41			47			55
1500	1.34				51			56			64			73			84			98
1000	0.89	1120	354	1149.5	34	392	1149.5	37	450	1149.5	43	513	1169.1	49	592	1169.1	56	684	1169.1	65
750	0.67				25			28			32			37			42			49
1500	1.20				45			50			58			66			76			87
1000	0.80	1250	354	1270.5	30	392	1270.5	33	450	1270.5	38	513	1292.2	44	592	1292.2	50	684	1992.2	58
750	0.60				23			25			29			33			38			44
1500	1.07				40			45			51			59			68			78
1000	0.71	1400	354	1378.2	27	392	1378.2	30	450	1378.2	34	513	1401.8	39	592	1401.8	45	684	1401.8	52
750	0.54				20			22			26			29			34			39
1500	0.94				35			39			45			51			59			68
1000	0.63	1600	354	1587	24	392	1587	26	450	1587	30	513	1614.2	34	592	1614.2	39	684	1614.2	46
750	0.47				18			20			22			26			30			34
1500	0.83				31			35			40			46			53			61
1000	0.56	1800	354	1802.3	21	392	1802.3	23	450	1802.3	27	513	1850.4	30	592	1850.4	35	684	1850.4	40
750	0.42				16			17			20			23			26			30
1500	0.75				28			31			36			41			47			55
1000	0.50	2000	354	1966.1	19	392	1966.1	21	450	1966.1	24	513	1999.7	27	592	1999.7	32	684	1999.7	36
750	0.38				14			16			18			20			24			27
1500	0.67				25			28			32			37			42			49
1000	0.45	2240	354	2239.2	17	392	2239.2	19	450	2239.2	21	513	2277.5	24	592	2277.5	28	684	2277.5	33
750	0.33				12.6			14			16			18			21			24
1500	0.60				23			25			29			33			38			44
1000	0.40	2500	354	2517.2	15.1	392	2517.2	17	450	2517.2	19	513	2560.2	22	592	2560.2	25	684	2560.2	29
750	0.30				11.3			13			14			16			19			22
1500	0.54				20			22			26			29			34			39
1000	0.36	2800	354	2775.4	13.5	392	2775.4	15	450	2775.4	17	513	2822.8	20	592	2822.8	23	684	2822.8	26
750	0.27				10.1			11.2			13			15			17			20
1500	0.48				18			20			23			26			30			35
1000	0.32	3150	354	3162.6	12	392	3162.6	13.3	450	3162.6	15	513	3216.7	17	592	3216.7	20	684	3216.7	23
750	0.24				9			9.9			11			13			15			17
1500	0.42				16			18			20			23			27			31
1000	0.28	3550	354	3664	10.6	392	3664	11.8	450	3664	14	513	3726.7	15	592	3726.7	18	684	3726.7	21
750	0.21				8			8.8			10			12			13			15
1500	0.38				14			16			18			20			24			27
1000	0.25	4000	354	4244.9	9.4	392	4244.9	10.4	450	4244.9	12	513	4282.4	14	592	4282.4	16	684	4282.4	18
750	0.19				7.1			7.8			9			10			12			14

传动能力表
Selection Table

P3K传动能力表:(i=560～4000)(续前页)　P3KSelection table: (i=560~4000)

P3-26			P3-27			P3-28			P3-29			P3-30			P3-31-P3-34			i_N	n_{2N}	n_1
T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)	T_{2N} (kN·m)	i_{ex}	P_{1N} (kW)		(r/min)	(r/min)
		218			243			271			303			342					2.68	1500
763	593.88	145	852	580.56	162	950	580.56	181	1060	580.56	202	1200	580.56	228				560	1.79	1000
		109			122			136			151			171					1.34	750
		194			216			241			269			304					2.38	1500
763	667.44	129	852	656.22	144	950	656.22	161	1060	656.22	179	1200	656.22	203				630	1.59	1000
		97			108			121			134			152					1.19	750
		175			192			214			239			270					2.11	1500
763	730.55	115	852	718.27	128	950	718.27	143	1060	718.27	159	1200	718.27	180				710	1.41	1000
		86			96			107			119			135					1.06	750
		152			170			190			212			240					1.88	1500
763	810.87	102	852	797.23	113	950	797.23	127	1060	797.23	141	1200	797.23	160				800	1.25	1000
		76			85			95			106			120					0.94	750
		136			151			169			188			213					1.67	1500
763	916.54	90	852	901.13	101	950	901.13	112	1060	901.13	125	1200	901.13	142				900	1.11	1000
		68			76			84			94			107					0.83	750
		122			136			152			169			192					1.50	1500
763	1004.7	81	852	987.8	91	950	987.8	101	1060	987.8	113	1200	987.8	128				1000	1.00	1000
		61			68			76			85			96					0.75	750
		109			122			136			151			171					1.34	1500
763	1169.1	73	852	1149.5	81	950	1149.5	90	1060	1149.5	101	1200	1149.5	114				1120	0.86	1000
		54			61			68			76			86					0.67	750
		98			109			121			136			153					1.20	1500
763	1992.2	65	852	1270.5	73	950	1270.5	81	1060	1270.5	90	1200	1270.5	102				1250	0.80	1000
		49			54			61			68			77					0.60	750
		87			97			108			121			137					1.07	1500
763	1401.8	58	852	1459.5	65	950	1459.4	72	1060	1459.5	81	1200	1459.5	91		按客户要求供货 According to customer requirements supply commodity		1400	0.71	1000
		44			49			54			61			68					0.54	750
		76			85			95			106			120					0.94	1500
763	1614.2	51	852	1587	57	950	1587	63	1060	1587	71	1200	1587	80				1600	0.63	1000
		38			43			47			53			60					0.47	750
		68			76			84			94			107					0.83	1500
763	1850.4	45	852	1819.3	50	950	1819.3	56	1060	1819.3	63	1200	1819.3	71				1800	0.56	1000
		34			38			42			47			53					0.42	750
		61			68			76			85			96					0.75	1500
763	1999.7	41	852	1966.1	45	950	1966.1	51	1060	1966.1	56	1200	1966.1	64				2000	0.50	1000
		30			34			38			42			48					0.38	750
		54			61			68			76			86					0.67	1500
763	2277.5	36	852	2239.2	41	950	2239.2	45	1060	2239.2	50	1200	2239.2	57				2240	0.45	1000
		27			30			34			38			43					0.33	750
		49			54			61			68			77					0.60	1500
763	2560.2	33	852	2517.2	36	950	2517.2	20	1060	2517.2	45	1200	2517.2	51				2500	0.40	1000
		24			27			30			34			38					0.30	750
		44			49			54			61			68					0.54	1500
763	2822.8	29	852	2775.4	32	950	2775.4	36	1060	2775.4	40	1200	2775.4	45				2800	0.36	1000
		22			24			27			30			34					0.27	750
		39			43			48			54			61					0.48	1500
763	3216.7	26	852	3162.6	29	950	3162.6	32	1060	3162.6	36	1200	3162.6	41				3150	0.32	1000
		19			22			24			27			30					0.24	750
		34			38			43			48			54					0.42	1500
763	3726.7	23	852	3664	26	950	3664	29	1060	3664	32	1200	3664	36				3550	0.28	1000
		17			19			21			24			27					0.21	750
		30			34			38			42			48					0.38	1500
763	4282.4	20	852	4244.9	23	950	4244.9	25	1060	4244.9	28	1200	4244.9	32				4000	0.25	1000
		15			17			19			21			24					0.19	750

P3K

额定热容量
Thermal Capacity

1. P2N.热容量(卧式安装):

机座号 / 风速 P_{G1}	9	10	11	12	13	14	16	17	18	19/20	21/22	23/24	25/26	27/28	29/30	31/32	33/34
狭小空间安装 风速≥0.5m/s	21	26	32	42	49	65	75	92	100	119	142	174	201	242	278	326	366
大厅或大车间安装 风速≥1.4m/s	29	37	45	60	69	92	106	130	147	169	201	246	285	343	406	462	519
室外安装 风速≥3.7m/s	39	50	60	80	93	125	143	175	191	228	272	333	386	464	505	626	702

2. P2S.热容量(卧式安装):

机座号 / 风速 P_{G1}	9	10	11	12	13	14	16	17	18	19/20	21/22	23/24	25/26	27/28	29/30	31/32	33/34
狭小空间安装 风速≥0.5m/s	15	20	24	32	36	49	56	69	75	89	106	130	151	182	215	245	275
大厅或大车间安装 风速≥1.4m/s	22	28	34	45	52	69	79	97	106	127	151	185	214	257	305	347	389
室外安装 风速≥3.7m/s	29	38	45	60	70	94	107	132	143	171	204	250	289	348	412	469	527

3. P3N.热容量(卧式安装):

机座号 / 风速 P_{G1}	9	10	11	12	13	14	16	17	18	19/20	21/22	23/24	25/26	27/28	29/30	31/32	33/34
狭小空间安装 风速≥0.5m/s	14	18	22	29	34	46	52	64	70	83	99	121	241	169	200	228	256
大厅或大车间安装 风速≥1.4m/s	20	26	31	41	48	64	74	91	99	118	140	172	199	240	284	323	362
室外安装 风速≥3.7m/s	28	35	42	56	65	87	100	123	133	159	190	233	269	324	384	437	490

4. P3S.热容量(卧式安装):

机座号 / 风速 P_{G1}	9	10	11	12	13	14	16	17	18	19/20	21/22	23/24	25/26	27/28	29/30	31/32	33/34
狭小空间安装 风速≥0.5m/s	12	15	18	24	28	40	43	53	57	69	82	100	116	139	165	188	211
大厅或大车间安装 风速≥1.4m/s	17	21	26	34	40	53	61	75	81	97	116	142	164	197	234	166	298
室外安装 风速≥3.7m/s	23	29	35	46	54	72	82	101	110	131	156	192	222	267	316	360	404

额定热容量
Thermal Capacity

5. P2L.热容量(卧式安装):

机座号 P_{G1} / 风速	9	10	11	12	13	14	16	17	18	19/20	21/22	23/24	25/26	27/28	29/30	31-34
狭小空间安装 风速≥0.5m/s	14	18	22	29	34	46	52	64	70	83	99	121	141	169	200	按客户要求供货
大厅或大车间安装 风速≥1.4m/s	20	26	31	41	48	64	74	91	99	118	140	172	199	240	284	
室外安装 风速≥3.7m/s	28	35	42	56	65	87	100	123	133	159	190	233	269	324	384	

6. P2K.热容量(卧式安装):

机座号 P_{G1} / 风速	9	10	11	12	13	14	16	17	18	19/20
狭小空间安装 风速≥0.5m/s	12	15	18	24	28	38	44	53	58	69
大厅或大车间安装 风速≥1.4m/s	17	22	26	35	40	54	62	76	82	98
室外安装 风速≥3.7m/s	23	29	35	47	54	73	83	102	111	133

7. P3K.热容量(卧式安装):

机座号 P_{G1} / 风速	9	10	11	12	13	14	16	17	18	19/20	21/22	23/24	25/26	27/28	29/30	31/34
狭小空间安装 风速≥0.5m/s	10	12	15	20	23	31	35	43	47	56	67	82	95	109	125	按客户要求供货
大厅或大车间安装 风速≥1.4m/s	14	17	21	28	33	44	50	61	66	79	95	116	106	125	144	
室外安装 风速≥3.7m/s	19	24	28	38	44	59	67	82	90	107	128	157	166	195	225	

注: 以上表格数据均为卧式热容量，其他安装型式请来电咨询。

P系列行星齿轮减速机 PLANETARY GEARBOX

额定热容量
Thermal Capacity

1. P2N. thermal capacity (horizontal assembly):

Type no P_{G1} / Wind speed	9	10	11	12	13	14	16	17	18	19/20	21/22	23/24	25/26	27/28	29/30	31/32	33/34
Small room to installation Wind speed≥0.5m/s	21	26	32	42	49	65	75	92	100	119	142	174	201	242	278	326	366
Big working room installation Wind speed≥1.4m/s	29	37	45	60	69	92	106	130	147	169	201	246	285	343	406	462	519
Outdoor installation Wind speed≥3.7m/s	39	50	60	80	93	125	143	175	191	228	272	333	386	464	505	626	702

2. P2S. thermal capacity (horizontal assembly):

Type no P_{G1} / Wind speed	9	10	11	12	13	14	16	17	18	19/20	21/22	23/24	25/26	27/28	29/30	31/32	33/34
Small room to installation Wind speed≥0.5m/s	15	20	24	32	36	49	56	69	75	89	106	130	151	182	215	245	275
Big working room installation Wind speed≥1.4m/s	22	28	34	45	52	69	79	97	106	127	151	185	214	257	305	347	389
Outdoor installation Wind speed≥3.7m/s	29	38	45	60	70	94	107	132	143	171	204	250	289	348	412	469	527

3. P3N. thermal capacity (horizontal assembly):

Type no P_{G1} / Wind speed	9	10	11	12	13	14	16	17	18	19/20	21/22	23/24	25/26	27/28	29/30	31/32	33/34
Small room to installation Wind speed≥0.5m/s	14	18	22	29	34	46	52	64	70	83	99	121	241	169	200	228	256
Big working room installation Wind speed≥1.4m/s	20	26	31	41	48	64	74	91	99	118	140	172	199	240	284	323	362
Outdoor installation Wind speed≥3.7m/s	28	35	42	56	65	87	100	123	133	159	190	233	269	324	384	437	490

4. P3S. thermal capacity (horizontal assembly):

Type no P_{G1} / Wind speed	9	10	11	12	13	14	16	17	18	19/20	21/22	23/24	25/26	27/28	29/30	31/32	33/34
Small room to installation Wind speed≥0.5m/s	12	15	18	24	28	40	43	53	57	69	82	100	116	139	165	188	211
Big working room installation Wind speed≥1.4m/s	17	21	26	34	40	53	61	75	81	97	116	142	164	197	234	166	298
Outdoor installation Wind speed≥3.7m/s	23	29	35	46	54	72	82	101	110	131	156	192	222	267	316	360	404

额定热容量
Thermal Capacity

5. P2L. thermal capacity (horizontal assembly):

Wind speed \ Type no P_{G1}	9	10	11	12	13	14	16	17	18	19/20	21/22	23/24	25/26	27/28	29/30	31-34
Small room to installation Wind speed≥0.5m/s	14	18	22	29	34	46	52	64	70	83	99	121	141	169	200	According to customer requirements supply commodity
Big working room installation Wind speed≥1.4m/s	20	26	31	41	48	64	74	91	99	118	140	172	199	240	284	
Outdoor installation Wind speed≥3.7m/s	28	35	42	56	65	87	100	123	133	159	190	233	269	324	384	

6. P2K. thermal capacity (horizontal assembly):

Wind speed \ Type no P_{G1}	9	10	11	12	13	14	16	17	18	19/20
Small room to installation Wind speed≥0.5m/s	12	15	18	24	28	38	44	53	58	69
Big working room installation Wind speed≥1.4m/s	17	22	26	35	40	54	62	76	82	98
Outdoor installation Wind speed≥3.7m/s	23	29	35	47	54	73	83	102	111	133

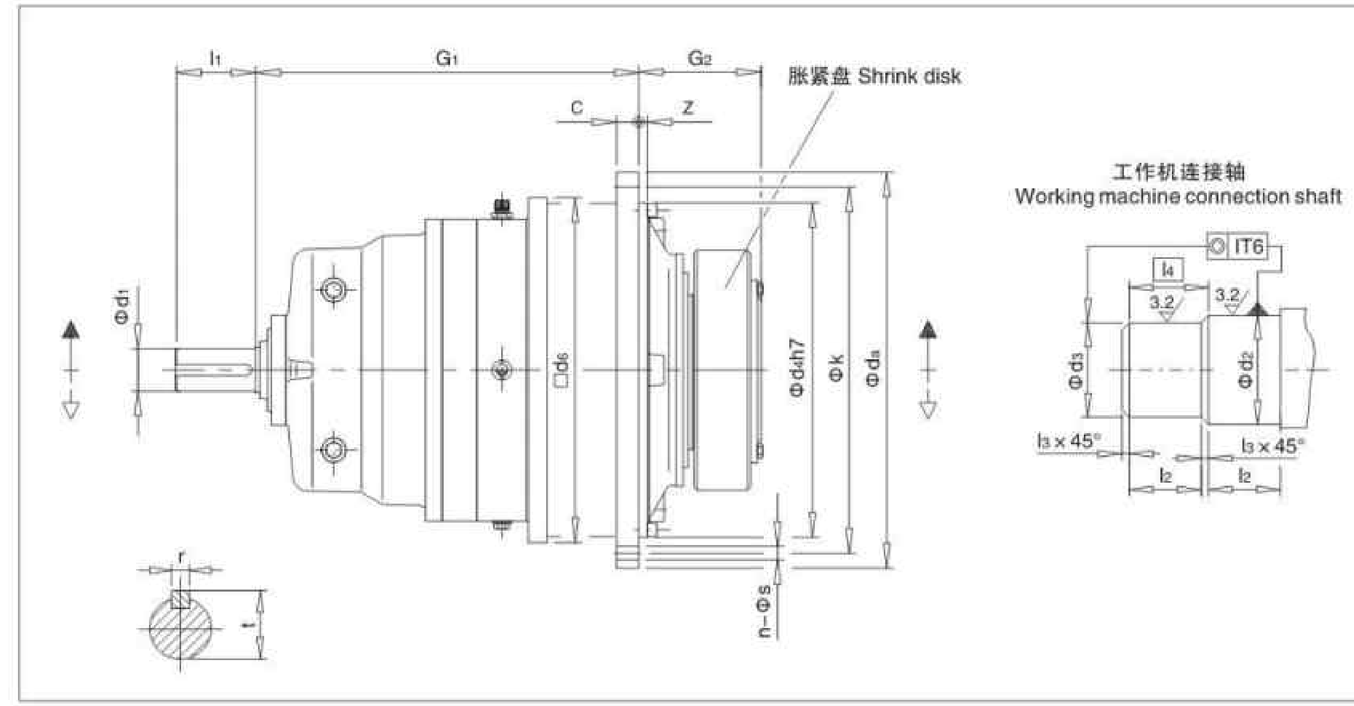
6. P3K. thermal capacity (horizontal assembly):

Wind speed \ Type no P_{G1}	9	10	11	12	13	14	16	17	18	19/20	21/22	23/24	25/26	27/28	29/30	31/34
Small room to installation Wind speed≥0.5m/s	10	12	15	20	23	31	35	43	47	56	67	82	95	109	125	According to customer requirements supply commodity
Big working room installation Wind speed≥1.4m/s	14	17	21	28	33	44	50	61	66	79	95	116	106	125	144	
Outdoor installation Wind speed≥3.7m/s	19	24	28	38	44	59	67	82	90	107	128	157	166	195	225	

Note: the above table data are horizontal heat capacity, the other mounting type call advisory

外形尺寸图表
Out Dimensions Table

P2NA i_N = 25...40



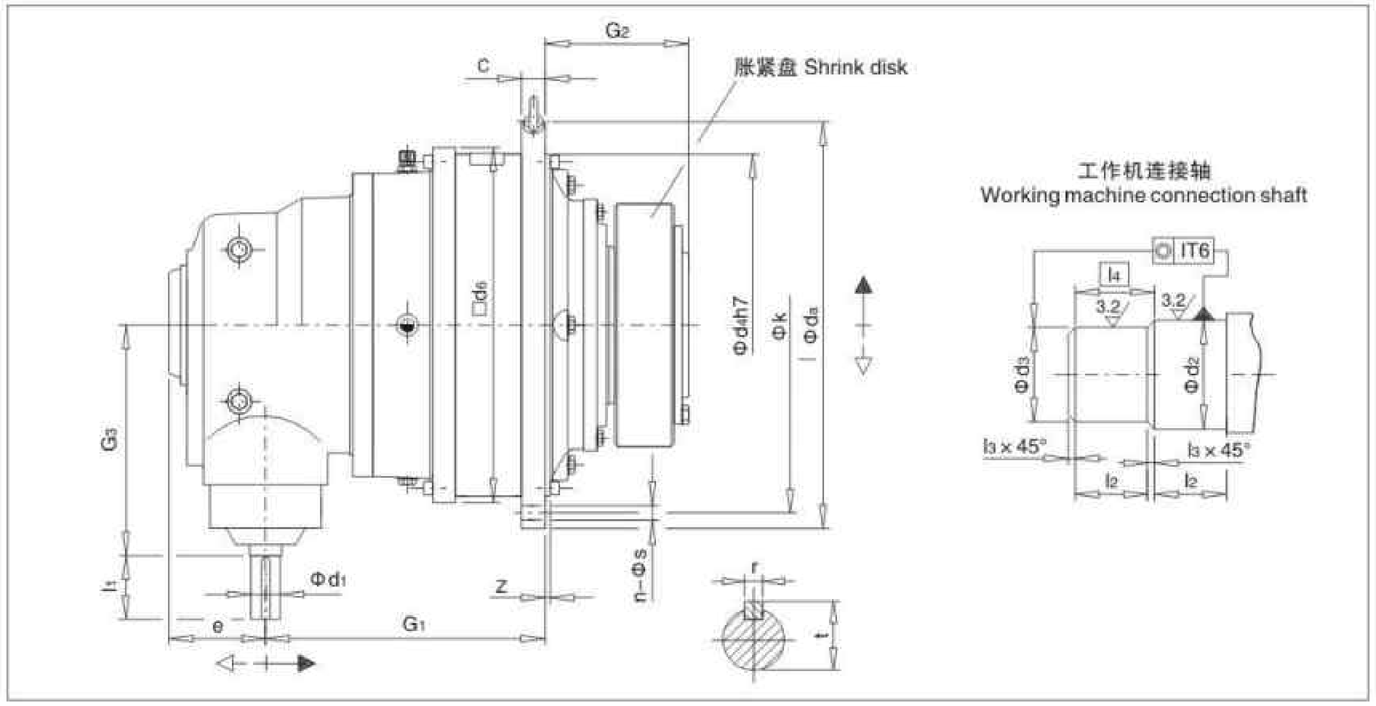
P2NA 机座号 Type No	额定输出扭矩 Nominal output torque T2N (N·M)	输入轴尺寸 Input shaft size d1	l1	r	t	d2	d3	l2	l3	$\boxed{l_4}$	c	da	d4	d6	G1	G2	k	z	法兰孔尺寸 Flange hole	n	重量 Weight (kg)	油量 Oil liter (l)
9	22000	55	90	16	59	120	115	65	2.5	67.5	24	428	350	356	469	165	388	6±1.5	18	24	145	6
10	31000	55	90	16	59	130	125	70	2.5	72.5	28	472	394	400	489	174	436	6±1.5	18	28	195	8
11	42000	70	120	20	74.5	140	135	82.5	2.5	85	32	525	425	436	579	204	485	6±1.5	22	20	280	12
12	60000	70	120	20	74.5	160	155	90	2.5	92.5	34	605	495	510	593	224	555	9±1.5	26	20	425	16
13	83000	80	140	25	85	180	175	95	2.5	97.5	39	645	535	554	714	241	595	11±1.5	26	24	540	20
14	117000	80	140	25	85	210	205	105	2.5	107.5	42	720	610	629	737	278	665	9	26	32	805	32
16	160000	95	160	25	100	230	225	110	2.5	112.5	44	770	660	680	851	285	715	10	26	36	1030	40
17	202000	95	160	25	1000	250	245	120	2.5	122.5	50	895	750	775	877	294	830	10	33	24	1500	56
18	244000	110	180	28	116	260	255	120	2.5	122.5	50	930	785	815	1006	303	865	10	33	32	1900	66
19	295000	110	180	28	116	280	275	135	2.5	137.5	56	980	840	870	1029.5	327.5	915	12	33	36	2000	82
20	354000	110	180	28	116	300	295	135	2.5	137.5	56	980	840	870	1029.5	327.5	915	12	33	36	2100	75
21	392000	120	210	32	127	310	305	152	2.5	154.5	62	1115	935	960	1046	354	1025	24	39	32	2650	110
22	450000	120	210	32	137	330	325	152	2.5	154.5	62	1115	935	930	1046	354	1025	24	39	32	2800	95
23	513000	130	210	32	137	350	345	164	2.5	166.5	68	1210	1025	1056	1150	380	1120	28	39	36	3450	150
24	592000	130	210	32	137	360	355	164	2.5	166.5	68	1210	1025	1056	1150	380	1120	28	39	36	3900	125
25	684000	140	240	36	148	380	375	180	2.5	182.5	74	1320	1115	1150	1241	407	1220	29	45	36	4750	190
26	763000	140	240	36	148	400	395	180	2.5	182.5	74	1320	1115	1150	1241	407	1220	29	45	36	5150	160
27	852000	150	240	36	158	430	425	191	2.5	193.5	81	1460	1215	1248	1379	453	1345	31	52	32	61000	245
28	950000	150	240	36	158	450	445	191	2.5	193.5	81	1460	1215	1248	1379	453	1345	31	52	32	6550	205
29	1060000	160	270	40	169	460	450	197.5	5	202.5	87	1565	1320	1355	1457	483	1450	34	52	36	7800	305
30	1200000	160	270	40	169	480	470	197.5	5	202.5	87	1565	1320	1355	1457	483	1450	34	52	36	8300	255
31	1330000	170	270	40	179	480	470	232	5	237.0	94	1665	1400	1443	1607	538	1545	36	62	32	10200	380
32	1500000	170	270	40	179	510	500	232	5	237.0	94	1665	1400	1443	1607	538	1545	36	62	32	10700	315
33	1680000	180	310	40	179	530	520	242	5	247.0	100	1755	1495	1536	1683	573	1635	36	62	36	12350	460
34	1920000	180	310	45	190	570	560	242	5	247.0	100	1755	1495	1536	1683	573	1635	36	62	36	13150	380

注：1 当d1≤100时公差为m6，当d1＞100时公差为n6；
2 当尺寸d2或d3≤160时，公差为h6；
当尺寸d2或d3＞160时，公差为g6；
3 重量不包括胀紧盘和润滑油。

1. When d1≤100, tolerance is m6, d1＞100, tolerance is n6;
2. When d2 or d3≤160, tolerance is h6;
When d2 or d3＞16, tolerance is g6;
3. Weight is not including shrink disk and fabrication oil.

外形尺寸图表
Out Dimensions Table

P2LA i_N =31.5…100



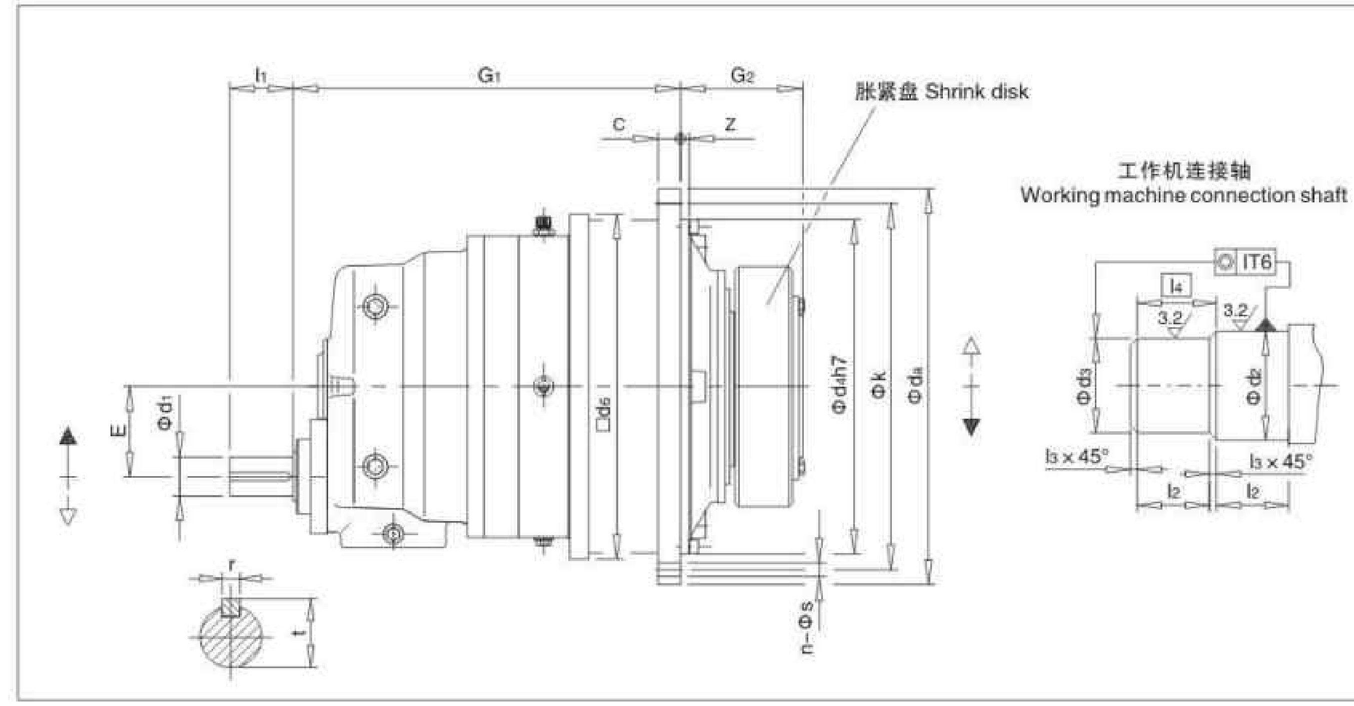
P2LA 机座号 Type No	额定输出扭矩 Nominal output torque T2N (N·M)	输入轴尺寸 Input shaft size i_N≤90				i_N≥100				d_2	d_3	l_2	l_3	l_4	c	d_a	d_4	d_6	e	G_1	G_2	G_3	k	z	法兰孔尺寸 Flange hole s	n	重量 Weight (kg)	油量 Oil liter (l)
		d_1	l_1	r	t	d_1	l_1	r	t																			
9	22000	50	100	14	53.5	40	80	12	43	120	115	65	2.5	67.5	24	428	350	356	185	425	165	305	388	6±1.5	18	24	159	6
10	31000	50	100	14	53.5	40	80	12	43	130	125	70	2.5	72.5	28	472	394	400	185	445	174	305	436	6±1.5	18	28	215	8
11	42000	60	110	18	64	50	100	14	53.5	140	135	82.5	2.5	85	32	525	425	436	210	501	204	350	485	6±1.5	22	20	310	12
12	60000	60	110	18	64	50	100	14	53.5	160	155	90	2.5	92.5	34	605	495	510	210	515	224	350	555	9±1.5	26	20	470	16
13	83000	75	135	20	79.5	60	110	18	64	180	175	95	2.5	97.5	39	645	535	554	250	619	241	415	595	11±1.5	26	24	595	20
14	117000	75	135	20	79.5	60	110	18	64	210	205	105	2.5	107.5	42	720	610	629	250	642	278	415	665	9	26	32	890	32
16	160000	85	165	22	90	70	140	20	74.5	230	225	110	2.5	112.5	44	770	660	680	295	705	285	490	715	10	26	36	1137	40
17	202000	85	165	22	90	70	140	20	74.5	250	245	120	2.5	122.5	50	895	750	775	295	731	294	490	830	10	33	24	1660	56
18	244000	95	165	25	100	75	140	20	79.5	260	255	120	2.5	122.5	50	930	785	815	350	882	303	605	865	10	33	32	2100	66
19	295000	95	165	25	100	75	140	20	79.5	280	275	135	2.5	137.5	56	980	840	870	350	905.5	327.5	605	915	12	33	36	2200	82
20	354000	95	165	25	100	75	140	20	79.5	300	295	135	2.5	137.5	56	980	840	870	350	905.5	327.5	605	915	12	33	36	2300	75
21	392000	115	205	32	122	90	170	25	95	310	305	152	2.5	154.5	62	1115	935	960	400	996	354	700	1025	24	39	32	2930	110
22	450000	115	205	32	122	90	170	25	95	330	325	152	2.5	154.5	62	1115	935	930	400	996	354	700	1025	24	39	32	3100	95
23	513000	115	205	32	122	90	170	25	95	350	345	164	2.5	166.5	68	1210	1025	1056	400	1055	380	700	1120	28	39	36	3800	150
24	592000	115	205	32	122	90	170	25	95	360	355	164	2.5	166.5	68	1210	1025	1056	400	1055	380	700	1120	28	39	36	4300	125
25	684000	140	245	36	148	110	210	28	116	380	375	180	2.5	182.5	74	1320	1115	1150	475	1138	407	835	1220	29	45	36	52500	190
26	763000	140	245	36	148	110	210	28	116	400	395	180	2.5	182.5	74	1320	1115	1150	475	1138	407	835	1220	29	45	36	5660	160
27	852000	140	245	36	148	110	210	28	116	430	425	191	2.5	193.5	81	1460	1215	1248	475	1272	453	835	1345	31	52	32	6680	245
28	950000	140	245	36	148	110	210	28	116	450	445	191	2.5	193.5	81	1460	1215	1248	475	1272	453	835	1345	31	52	32	7180	205
29	1060000	150	245	40	169	115	210	32	122	460	450	197.5	5	202.5	87	1565	1320	1355	530	1367	483	945	1450	34	52	36	8500	305
30	1200000	150	245	40	169	115	210	32	122	480	470	197.5	5	202.5	87	1565	1320	1355	530	1367	483	945	1450	34	52	36	9070	255
31-34	按客户要求供货 According to customer requirements supply commodity																											

注：1 当d1≤100时公差为m6，当d1＞100时公差为n6；
2 当尺寸d2或d3≤160时，公差为h6；
当尺寸d2或d3＞160时，公差为g6；
3 重量不包括胀紧盘和润滑油。

1. When d1≤100, tolerance is m6, d1＞100, tolerance is n6;
2. When d2 or d3≤160, tolerance is h6;
When d2 or d3＞16, tolerance is g6;
3. Weight is not including shrink disk and fabrication oil.

外形尺寸图表
Out Dimensions Table

P2SA i_N = 45…125



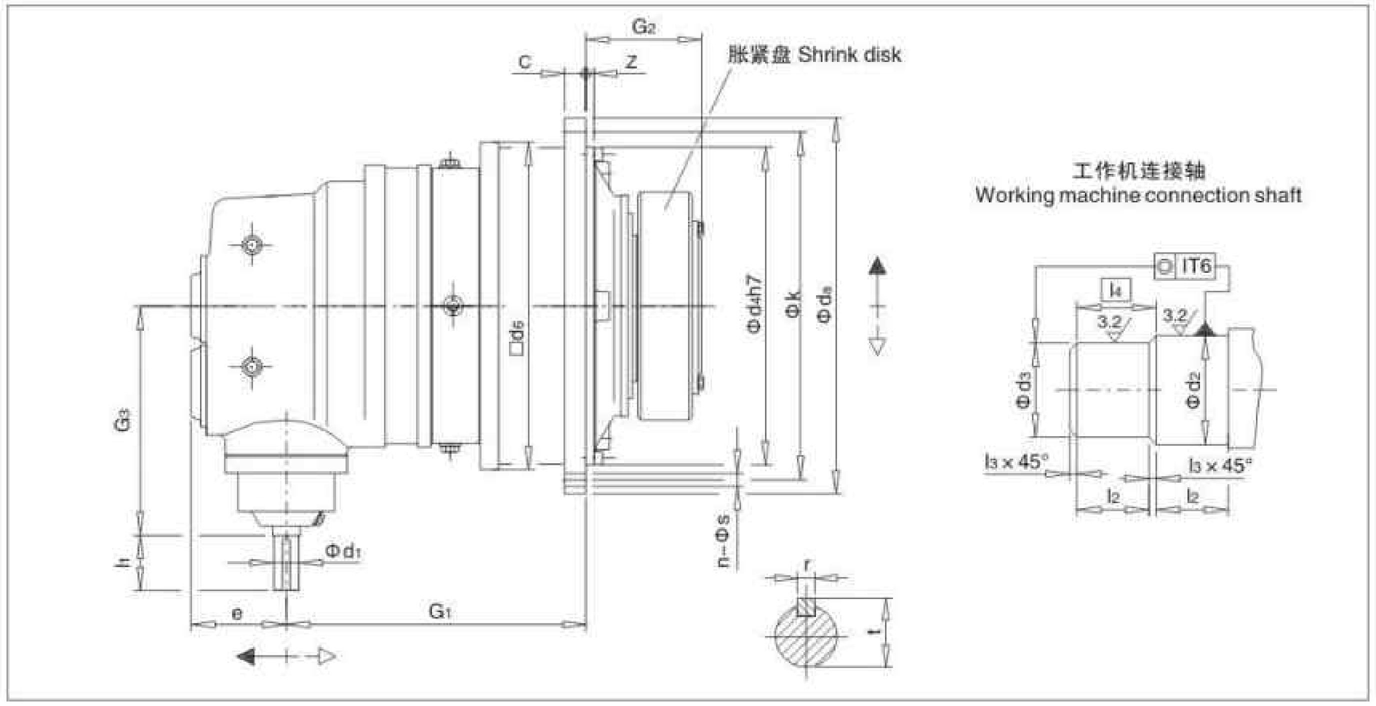
P2SA 机座号 Type No	额定输出扭矩 Nominal output torque T2N (N·M)	输入轴尺寸 Input shaft size				d_2	d_3	l_2	l_3	l_4	c	d_a	d_4	d_6	E	G_1	G_2	k	z	法兰孔尺寸 Flange hole s	n	重量 Weight (kg)	油量 Oil liter (l)
		d_1	l_1	r	t																		
9	22000	38	60	10	41	120	115	65	2.5	67.5	24	428	350	356	90	469	165	388	6±1.5	18	24	160	6
10	31000	38	60	10	41	130	125	70	2.5	72.5	28	472	394	400	90	489	174	436	6±1.5	18	28	220	8
11	42000	55	90	16	59	140	135	82.5	2.5	85	32	525	425	436	115	579	204	485	6±1.5	22	20	310	12
12	60000	55	90	16	59	160	155	90	2.5	92.5	34	605	495	510	115	593	224	555	9±1.5	26	20	470	16
13	83000	70	120	20	74.5	180	175	95	2.5	97.5	39	645	535	554	140	714	241	595	11±1.5	26	24	600	20
14	117000	70	120	20	74.5	210	205	105	2.5	107.5	42	720	610	629	140	737	278	665	9	26	32	900	32
16	160000	80	140	25	85	230	225	110	2.5	112.5	44	770	660	680	170	851	285	715	10	26	36	1150	40
17	202000	80	140	25	85	250	245	120	2.5	122.5	50	895	750	775	170	877	294	830	10	33	24	1650	56
18	244000	90	160	25	95	260	255	120	2.5	122.5	50	930	785	815	200	1006	303	865	10	33	32	1950	66
19	295000	90	160	25	95	280	275	135	2.5	137.5	56	980	840	870	200	1029.5	327.5	915	12	33	36	2400	82
20	354000	90	160	25	95	300	295	135	2.5	137.5	56	980	840	870	200	1029.5	327.5	915	12	33	36	2500	75
21	392000	100	180	28	106	310	305	152	2.5	154.5	62	1115	935	960	230	1076	354	1025	24	39	32	2900	110
22	450000	100	180	28	106	330	325	152	2.5	154.5	62	1115	935	930	230	1076	354	1025	24	39	32	3100	95
23	513000	120	210	32	127	350	345	164	2.5	166.5	68	1210	1025	1056	265	1175	380	1120	28	39	36	3800	150
24	592000	120	210	32	127	360	355	164	2.5	166.5	68	1210	1025	1056	265	1175	380	1120	28	39	36	4100	125
25	684000	130	210	32	137	380	375	180	2.5	182.5	74	1320	1115	1150	300	1291	407	1220	29	45	36	4950	190
26	763000	130	210	32	137	400	395	180	2.5	182.5	74	1320	1115	1150	300	1291	407	1220	29	45	36	5350	160
27	852000	140	240	36	148	430	425	191	2.5	193.5	81	1460	1215	1248	320	1429	453	1345	31	52	32	6800	245
28	950000	140	240	36	148	450	445	191	2.5	193.5	81	1460	1215	1248	320	1429	453	1345	31	52	32	7200	205
29	1060000	150	240	36	158	460	450	197.5	5	202.5	87	1565	1320	1355	360	1507	483	1450	34	52	36	8500	305
30	1200000	150	240	36	158	480	470	197.5	5	202.5	87	1565	1320	1355	360	1507	483	1450	34	52	36	9000	255
31	1330000	160	270	40	169	480	470	232	5	237.0	94	1665	1400	1443	400	1662	538	1545	36	62	32	10500	380
32	1500000	160	270	40	169	510	500	232	5	237.0	94	1665	1400	1443	400	1662	538	1545	36	62	32	11200	315
33	1680000	170	270	40	179	530	520	242	5	247.0	100	1755	1495	1536	400	1743	573	1635	36	62	36	12700	460
34	1920000	170	270	40	179	570	560	242	5	247.0	100	1755	1495	1536	400	1743	573	1635	36	62	36	13500	380

注：1 当d1≤100时公差为m6，当d1＞100时公差为n6；
2 当尺寸d2或d3≤160时，公差为h6；
当尺寸d2或d3＞160时，公差为g6；
3 重量不包括胀紧盘和润滑油。

1. When d1≤100, tolerance is m6, d1＞100, tolerance is n6;
2. When d2 or d3≤160, tolerance is h6;
When d2 or d3＞16, tolerance is g6;
3. Weight is not including shrink disk and fabrication oil.

外形尺寸图表
Out Dimensions Table

P2KA　　i_N = 112…500



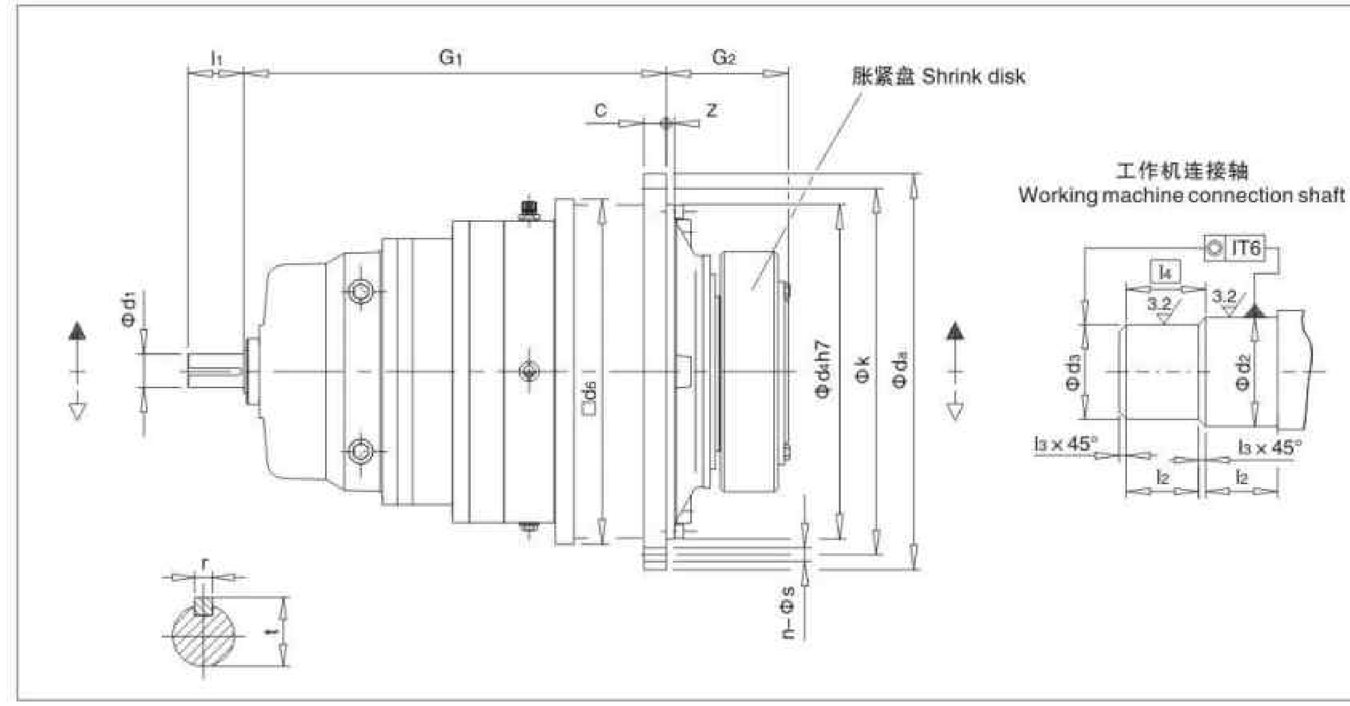
P2KA 机座号 Type No	额定输出扭矩 Nominal output torque T2N (N·M)	输入轴尺寸 Input shaft size iN≤2000 d1	l1	r	t	iN≥2240 d1	l1	r	t	d2	d3	l2	l3	l4	c	da	d4	d6	e	G1	G2	G3	k	z	法兰孔尺寸 Flange hole s	n	重量 Weight (kg)	油量 Oil liter (l)
9	22000	35	70	10	38	30	60	8	33	120	115	65	2.5	67.5	24	428	350	356	119	339	165	320	388	6±1.5	18	24	165	6
10	31000	35	70	10	38	30	60	8	33	130	125	70	2.5	72.5	28	472	394	400	119	359	174	320	436	8±1.5	18	28	227	8
11	42000	45	80	14	48.5	35	60	10	38	140	135	82.5	2.5	85	32	525	425	436	137	419	204	375	485	8±1.5	22	20	320	12
12	60000	45	80	14	48.5	35	60	10	38	160	155	90	2.5	92.5	34	605	495	510	137	433	224	375	555	9±1.5	26	20	464	16
13	83000	50	100	14	53.5	40	80	12	43	180	175	95	2.5	97.5	39	645	535	554	172	518.5	241	445	595	11±1.5	26	24	618	20
14	117000	50	100	14	53.5	40	80	12	43	210	205	105	2.5	107.5	42	720	610	629	172	541.5	278	445	665	9	26	32	927	32
16	160000	60	110	18	64	50	100	14	53.5	230	225	110	2.5	112.5	44	770	660	680	194	632	285	520	715	10	26	36	1184	40
17	202000	60	110	18	64	50	100	14	53.5	250	245	120	2.5	122.5	50	895	750	775	194	658	294	520	830	10	33	24	1700	56
18	244000	75	135	20	79.5	60	110	18	64	260	255	120	2.5	122.5	50	930	785	815	240	741.5	303	615	865	10	33	32	2010	73
19	295000	75	135	20	79.5	60	110	18	64	280	275	135	2.5	137.5	56	980	840	870	240	764.5	327.5	615	915	12	33	36	2470	82
20	354000	75	135	20	79.5	60	110	18	64	300	295	135	2.5	137.5	56	980	840	870	240	764.5	327.5	615	915	12	33	36	2550	75
21-26	按客户要求供货 According to customer requirements supply commodity																											

注：1　当d1≤100时公差为m6，当d1>100时公差为n6；
　　2　当尺寸d2或d3≤160时，公差为h6；
　　　当尺寸d2或d3>160时，公差为g6；
　　3　重量不包括胀紧盘和润滑油。

1. When d1≤100, tolerance is m6, d1>100, tolerance is n6;
2. When d2 or d3≤160, tolerance is h6;
　When d2 or d3>16, tolerance is g6;
3. Weight is not including shrink disk and fabrication oil.

外形尺寸图表
Out Dimensions Table

P3NA　　i_N = 140…280



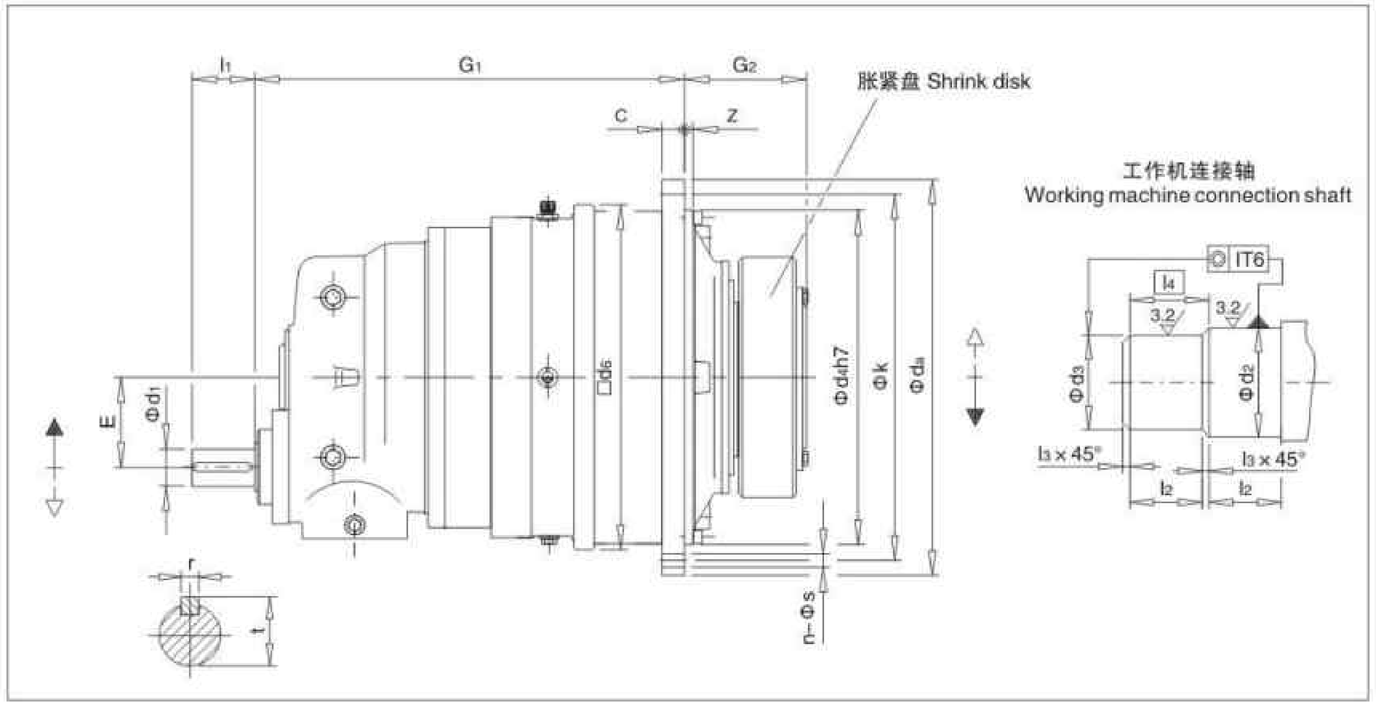
P3NA 机座号 Type No	额定输出扭矩 Nominal output torque T2N (N·M)	输入轴尺寸 Input shaft size d1	l1	r	t	d2	d3	l2	l3	l4	c	da	d4	d6	E	G1	G2	k	z	法兰孔尺寸 Flange hole s	n	重量 Weight (kg)	油量 Oil liter (l)
9	22000	55	90	16	59	120	115	65	2.5	67.5	24	428	350	356	90	565	165	388	6±1.5	18	24	152	7
10	31000	55	90	16	59	130	125	70	2.5	72.5	28	472	394	400	90	585	174	436	6±1.5	18	28	205	9
11	42000	55	90	16	59	140	135	82.5	2.5	85	32	525	425	436	90	616	204	485	6±1.5	22	20	295	13
12	60000	55	90	16	59	160	155	90	2.5	92.5	34	605	495	510	90	630	224	555	9±1.5	26	20	447	17
13	83000	55	90	16	59	180	175	95	2.5	97.5	39	645	535	554	90	688	241	595	11±1.5	26	24	567	21
14	117000	55	90	16	59	210	205	105	2.5	107.5	42	720	610	629	90	711	278	665	9	26	32	850	33
16	160000	70	120	20	74.5	230	225	110	2.5	112.5	44	770	660	680	115	853	285	715	10	26	36	1085	42
17	202000	70	120	20	74.5	250	245	120	2.5	122.5	50	895	750	775	115	879	294	830	10	33	24	1580	60
18	244000	80	140	25	85	260	255	120	2.5	122.5	50	930	785	815	140	1013.5	303	865	10	33	32	2000	70
19	295000	80	140	25	85	280	275	135	2.5	137.5	56	980	840	870	140	1036.5	327.5	915	12	33	36	2100	85
20	354000	80	140	25	85	300	295	135	2.5	137.5	56	980	840	870	140	1036.5	327.5	915	12	33	36	2200	75
21	392000	80	140	25	85	310	305	152	2.5	154.5	62	1115	935	960	140	1093	354	1025	24	39	32	2785	115
22	450000	80	140	25	85	330	325	152	2.5	154.5	62	1115	935	930	140	1093	354	1025	24	39	32	2950	105
23	513000	95	160	25	100	350	345	164	2.5	166.5	68	1210	1025	1056	170	1222	380	1120	28	39	36	3625	155
24	592000	95	160	25	100	360	355	164	2.5	166.5	68	1210	1025	1056	170	1222	380	1120	28	39	36	4100	135
25	684000	95	160	25	100	380	375	180	2.5	182.5	74	1320	1115	1150	170	1284	407	1220	29	45	36	5000	195
26	763000	95	160	25	100	400	395	180	2.5	182.5	74	1320	1115	1150	170	1284	407	1220	29	45	36	5400	170
27	852000	110	180	28	116	430	425	191	2.5	193.5	81	1460	1215	1248	200	1470	453	1345	31	52	32	6400	250
28	950000	110	180	28	116	450	445	191	2.5	193.5	81	1460	1215	1248	200	1470	453	1345	31	52	32	6875	220
29	1060000	110	180	28	116	460	450	197.5	5	202.5	87	1565	1320	1355	200	1517	483	1450	34	52	36	8190	310
30	1200000	110	180	28	116	480	480	197.5	5	202.5	87	1565	1320	1355	200	1517	483	1450	34	52	36	8715	280
31	1330000	120	210	32	127	480	480	232	5	237.0	94	1665	1400	1443	230	1585	540	1545	36	62	32	10700	390
32	1500000	120	210	32	127	510	510	232	5	237.0	94	1665	1400	1443	230	1585	540	1545	36	62	32	11200	360
33	1680000	130	210	32	137	530	530	242	5	247.0	100	1755	1495	1536	265	1710	573	1635	36	62	36	12950	470
34	1920000	130	210	32	137	570	570	242	5	247.0	100	1755	1495	1536	265	1710	573	1635	36	62	36	13800	430

注：1　当d1≤100时公差为m6，当d1>100时公差为n6；
　　2　当尺寸d2或d3≤160时，公差为h6；
　　　当尺寸d2或d3>160时，公差为g6；
　　3　重量不包括胀紧盘和润滑油。

1. When d1≤100, tolerance is m6, d1>100, tolerance is n6;
2. When d2 or d3≤160, tolerance is h6;
　When d2 or d3>16, tolerance is g6;
3. Weight is not including shrink disk and fabrication oil.

外形尺寸图表
Out Dimensions Table

P3SA i_N = 280...900



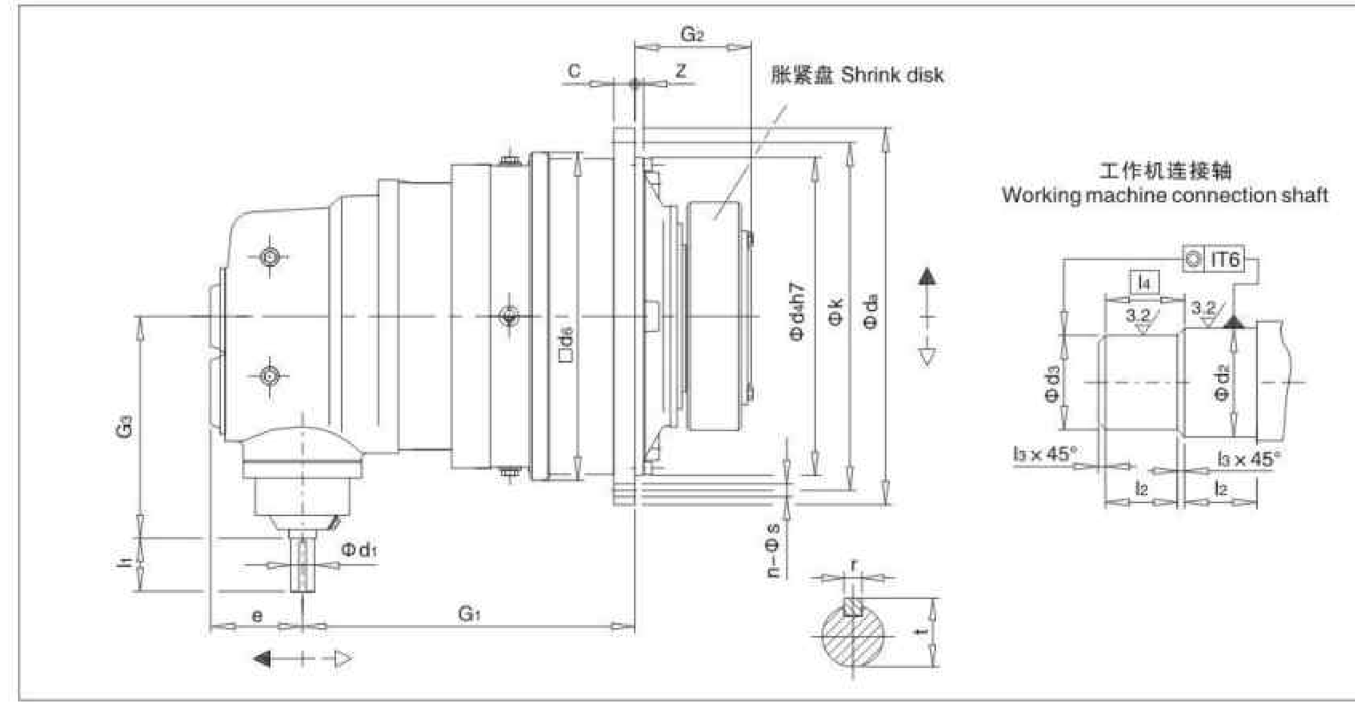
P3SA 机座号 Type No	额定输出扭矩 Nominal output torque T2N (N·M)	输入轴尺寸 Input shaft size				d_2	d_3	l_2	l_3	$\boxed{l_4}$	c	d_a	d_4	d_6	E	G_1	G_2	k	z	法兰孔尺寸 Flange hole		重量 Weight (kg)	油量 Oil liter (l)
		d_1	l_1	r	t															s	n		
9	22000	38	60	10	41	120	115	65	2.5	67.5	24	428	350	356	90	565	165	388	6±1.5	18	24	170	7
10	31000	38	60	10	41	130	125	70	2.5	72.5	28	472	394	400	90	585	174	436	8±1.5	18	28	230	9
11	42000	38	60	10	41	140	135	82.5	2.5	85	32	525	425	436	90	616	204	485	8±1.5	22	20	310	13
12	60000	38	60	10	41	160	155	90	2.5	92.5	34	605	495	510	90	500	224	555	9±1.5	26	20	160	17
13	83000	38	60	10	41	180	175	95	2.5	97.5	39	645	535	554	90	568	241	595	11±1.5	26	24	584	21
14	117000	38	60	10	41	210	205	105	2.5	107.5	42	720	610	629	90	711	278	665	9	26	32	875	33
16	160000	55	90	16	59	230	225	110	2.5	112.5	44	770	660	680	115	853	285	715	10	26	36	1115	42
17	202000	55	90	16	59	250	245	120	2.5	122.5	50	895	750	775	115	879	294	830	10	33	24	1625	60
18	244000	70	120	20	74.5	260	255	120	2.5	122.5	50	930	785	815	140	1013.5	303	865	10	33	32	2060	70
19	295000	70	120	20	74.5	280	275	135	2.5	137.5	56	980	840	870	140	1036.5	327.5	915	12	33	36	2160	85
20	354000	70	120	20	74.5	300	295	135	2.5	137.5	56	980	840	870	140	1036.5	327.5	915	12	33	36	2260	75
21	392000	70	120	20	74.5	310	305	152	2.5	154.5	62	1115	935	960	140	1093	354	1025	24	39	32	2870	115
22	450000	70	120	20	74.5	330	325	152	2.5	154.5	62	1115	935	960	140	1093	354	1025	24	39	32	3040	105
23	513000	80	140	25	85	350	345	164	2.5	166.5	68	1210	1025	1056	170	1222	380	1120	28	39	36	3730	155
24	592000	80	140	25	85	360	355	164	2.5	166.5	68	1210	1025	1056	170	1222	380	1120	28	39	36	4220	135
25	684000	80	140	25	85	380	375	180	2.5	182.5	74	1320	1115	1150	170	1284	407	1220	29	45	36	5150	195
26	763000	80	140	25	85	400	395	180	2.5	182.5	74	1320	1115	1150	170	1284	407	1220	29	45	36	5560	170
27	852000	90	160	25	95	430	425	191	2.5	193.5	81	1460	1215	1248	200	1470	453	1345	31	52	32	6580	250
28	950000	90	160	25	95	450	445	191	2.5	193.5	81	1460	1215	1248	200	1470	453	1345	31	52	32	7080	220
29	1060000	90	160	25	95	460	450	197.5	5	202.5	87	1565	1320	1355	200	1517	483	1450	34	52	36	8400	310
30	1200000	90	160	25	95	480	470	197.5	5	202.5	87	1565	1320	1355	200	1517	483	1450	34	52	36	8970	280
31	1330000	100	180	28	100	480	470	232	5	237.0	94	1665	1400	1443	230	1617	538	1545	36	62	32	11000	390
32	1500000	100	180	28	106	510	500	232	5	237.0	94	1665	1400	1443	230	1617	538	1545	36	62	32	11500	360
33	1680000	120	210	32	127	530	520	242	5	247.0	100	1755	1495	1536	265	1735	573	1635	36	62	36	13300	470
34	1920000	120	210	32	127	570	560	242	5	247.0	100	1755	1495	1536	265	1735	573	1635	36	62	36	14200	430

注：1 当d1≤100时公差为m6，当d1＞100时公差为n6；
2 当尺寸d2或d3≤160时，公差为h6；
当尺寸d2或d3＞160时，公差为g6；
3 重量不包括胀紧盘和润滑油。

1. When d1≤100, tolerance is m6, d1＞100, tolerance is n6;
2. When d2 or d3≤160, tolerance is h6;
When d2 or d3＞16, tolerance is g6;
3. Weight is not including shrink disk and fabrication oil.

外形尺寸图表
Out Dimensions Table

P3KA i_N = 560...4000

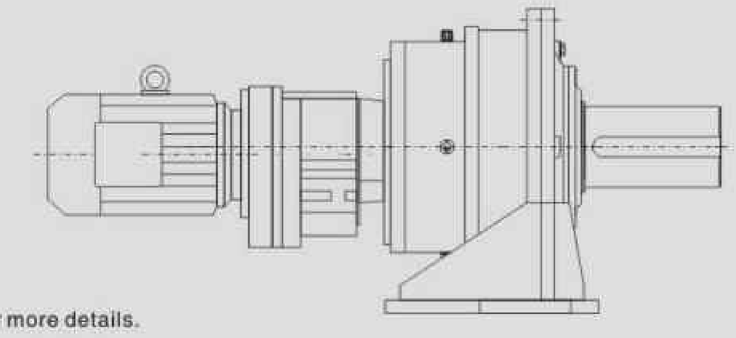


P3KA 机座号 Type No	额定输出扭矩 Nominal output torque T2N (N·M)	输入轴尺寸 Input shaft size i_N≤2000				i_N≥2240				d_2	d_3	l_2	l_3	$\boxed{l_4}$	c	d_a	d_4	d_6	e	G_1	G_2	G_3	k	z	法兰孔尺寸 Flange hole		重量 Weight (kg)	油量 Oil liter (l)
		d_1	l_1	r	t	d_1	l_1	r	t																s	n		
9	22000	35	70	10	38	30	60	8	33	120	115	65	2.5	67.5	24	428	350	356	119	435	165	320	388	6±1.5	18	24	180	7
10	31000	35	70	10	38	30	60	8	33	130	125	70	2.5	72.5	28	472	394	400	119	455	174	320	436	8±1.5	18	28	240	9
11	42000	35	70	10	38	30	60	8	33	140	135	82.5	2.5	85	32	525	425	436	119	486	204	320	485	8±1.5	22	20	315	15
12	60000	35	70	10	38	30	60	8	33	160	155	90	2.5	92.5	34	605	495	510	119	500	224	320	555	9±1.5	26	20	470	20
13	83000	35	70	10	38	30	60	8	33	180	175	95	2.5	97.5	39	645	535	554	119	568	241	320	595	11±1.5	26	24	595	21
14	117000	35	70	10	38	30	60	8	33	210	205	105	2.5	107.5	42	720	610	629	119	581	278	320	665	9	26	32	890	33
16	160000	45	80	14	48.5	35	60	10	38	230	225	110	2.5	112.5	44	770	660	680	137	693	285	375	715	10	26	36	1137	42
17	202000	45	80	14	48.5	35	60	10	38	250	245	120	2.5	122.5	50	895	750	775	137	719	294	375	830	10	33	24	1660	60
18	244000	50	100	14	53.5	40	80	12	43	260	255	120	2.5	122.5	50	930	785	815	172	818	303	445	865	10	33	32	2100	70
19	295000	50	100	14	53.5	40	80	12	43	280	275	135	2.5	137.5	56	980	840	870	172	841	327.5	445	915	12	33	36	2200	85
20	354000	50	100	14	53.5	40	80	12	43	300	295	135	2.5	137.5	56	980	840	870	172	841	327.5	445	915	12	33	36	2300	75
21	392000	50	100	14	53.5	40	80.	12	43	310	305	152	2.5	154.5	62	1115	935	960	172	897.5	354	445	1025	24	39	32	2930	115
22	450000	50	100	14	53.5	40	80	12	43	330	325	152	2.5	154.5	62	1115	935	960	172	897.5	354	445	1025	24	39	32	3100	105
23	513000	60	110	18	64	50	100	14	53.5	350	345	164	2.5	166.5	68	1210	1025	1056	194	1003	380	520	1120	28	39	36	3800	155
24	592000	60	110	18	64	50	100	14	53.5	360	355	164	2.5	166.5	68	1210	1025	1056	194	1003	380	520	1120	28	39	36	4300	135
25	684000	60	110	18	64	50	100	14	53.5	380	375	180	2.5	182.5	74	1320	1115	1150	194	1065	407	520	1220	29	45	36	5250	195
26	763000	60	110	18	64	50	100	14	53.5	400	395	180	2.5	182.5	74	1320	1115	1150	194	1065	407	520	1220	29	45	36	5660	170
27	852000	75	135	20	79.5	60	110	18	64	430	425	191	2.5	193.5	81	1460	1215	1248	240	1205.5	453	615	1345	31	52	32	6680	250
28	950000	75	135	20	79.5	60	110	18	64	450	445	191	2.5	193.5	81	1460	1215	1248	240	1205.5	453	615	1345	31	52	32	7180	220
29	1060000	75	135	20	79.5	60	110	18	64	460	450	197.5	5	202.5	87	1565	1320	1355	240	1252.5	483	615	1450	34	52	36	8500	310
30	1200000	75	135	20	79.5	60	110	18	64	480	470	197.5	5	202.5	87	1565	1320	1355	240	1252.5	483	615	1450	34	52	36	9170	280

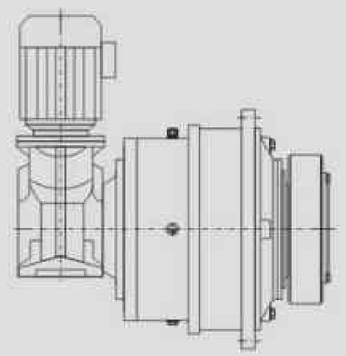
注：1 当d1≤100时公差为m6，当d1＞100时公差为n6；
2 当尺寸d2或d3≤160时，公差为h6；
当尺寸d2或d3＞160时，公差为g6；
3 重量不包括胀紧盘和润滑油。

1. When d1≤100, tolerance is m6, d1＞100, tolerance is n6;
2. When d2 or d3≤160, tolerance is h6;
When d2 or d3＞16, tolerance is g6;
3. Weight is not including shrink disk and fabrication oil.

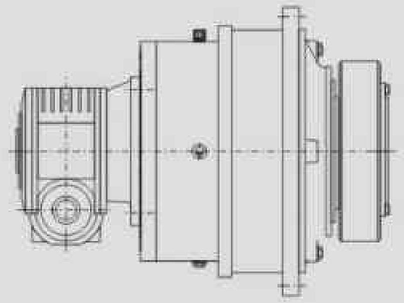
组合型
Matched Units



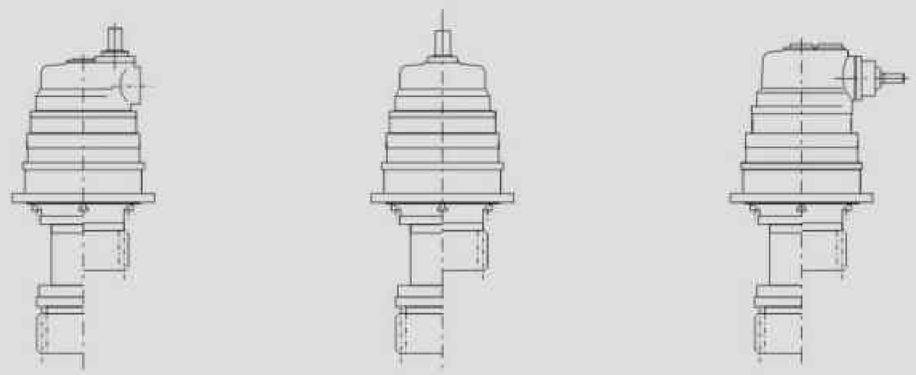
P../R组合，详情来电咨询
P../Rmatch,please inquiry for more details.



P../K组合，详情来电咨询
P../Kmatch, please inquiry for more details.

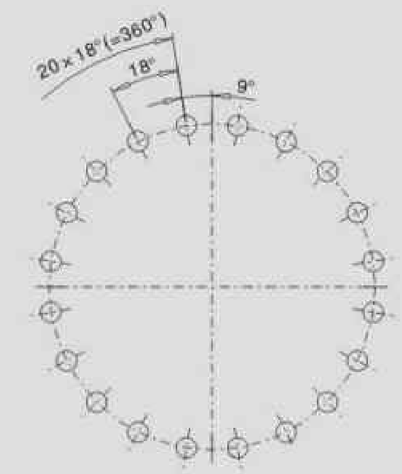


P../RV(160-250)组合，详情来电咨询
P../RV match, please inquiry for more details.

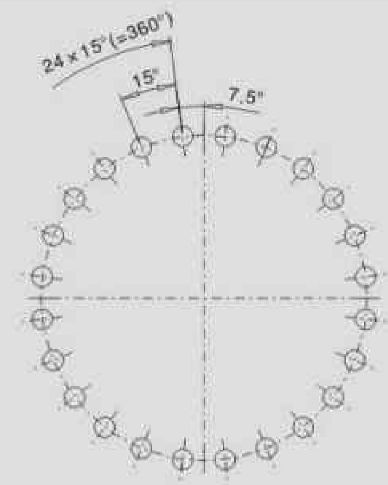


P../R组合，详情来电咨询
P../Rmatch, please inquiry for more details.

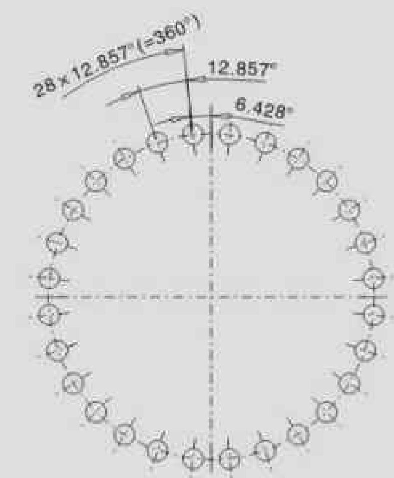
输出法兰孔布置图
Output Flange Hole



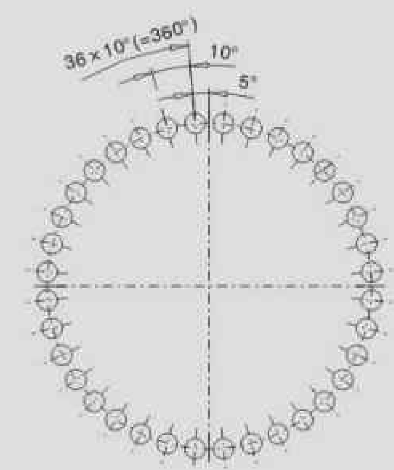
P...11,12



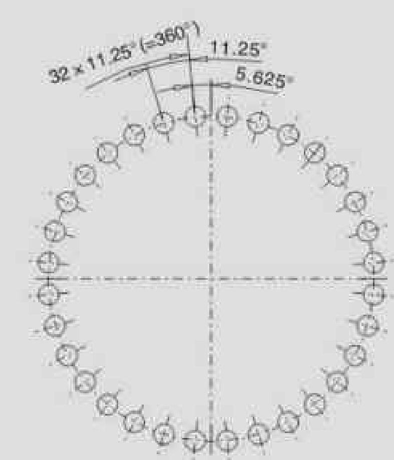
P...9,13,17



P...10



P...16,19,20,23,24,25,26,29,30,33,34

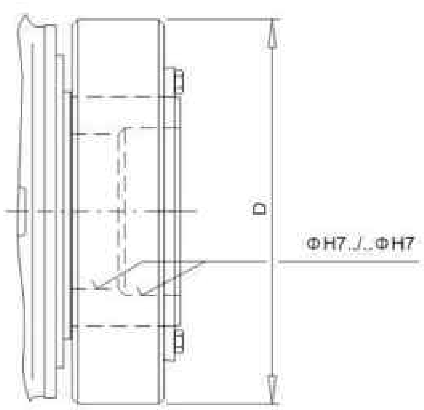


P...14,18,21,22,27,28,31,32

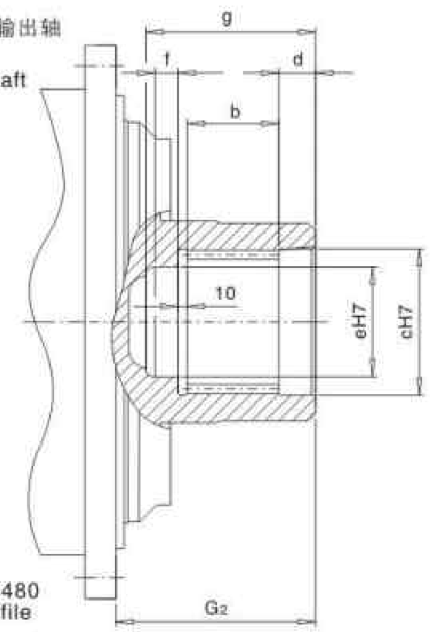
输出轴
Output Shaft

1. 空心轴 Hollow shaft

带胀紧盘的空心输出轴
With shrink disk hollow shaft output shaft



渐开线花键空心输出轴
Involute spline
hollow output shaft



花键齿形按DIN5480
Spline tooth profile
by DIN5480

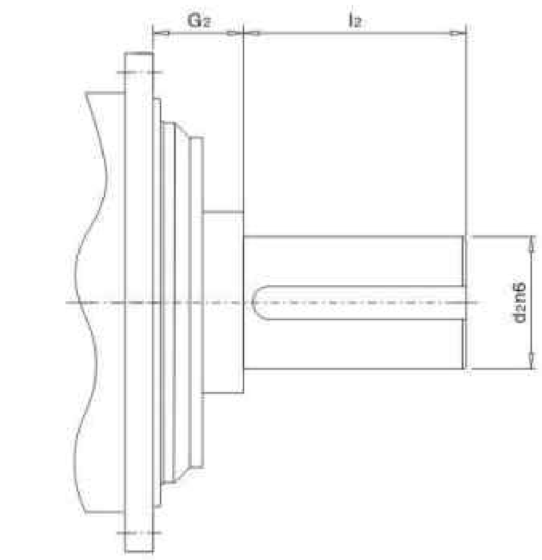
机座号 Type no	许用扭矩 Permissible torque T_{2N} (N·M)	胀紧盘 Shrink disk				空心花键输出轴 Hollow spline output shaft							
		型号 Type	D	螺栓 Bolt	重量 Weight	内花键规格 Inner spline specification	b	c	d	e	f	G_2	g
9	22000	155	263	M14	15.2	120×5×30×22×9H	70	122	40	107	20	165	150
10	31000	165	290	M16	21.5	130×5×30×24×9H	80	132	40	117	20	174	160
11	42000	185	320	M16	32.7	140×5×30×26×9H	90	142	45	125	25	204	180
12	60000	220	370	M20	53	160×5×30×30×9H	100	162	45	145	25	223	190
13	83000	240	405	M20	66	180×5×30×34×9H	110	182	45	165	25	237	200
14	117000	280	460	M20	103	210×5×30×40×9H	125	212	45	195	25	264	215
16	160000	300	485	M24	120	240×8×30×28×9H	140	242	50	220	25	285	235
17	202000	320	520	M24	138	250×8×30×30×9H	150	252	50	230	30	290	250
18	244000	340	570	M24	189	260×8×30×31×9H	160	262	50	240	30	303	260
19	295000	360	590	M24	207	280×8×30×34×9H	170	282	50	260	30	327.5	270
20	354000	380	640	M27	244	300×8×30×36×9H	180	302	50	280	30	327.5	280
21	392000	390	650	M27	249	310×8×30×37×9H	190	312	60	290	40	354	310
22	450000	420	670	M27	285	330×8×30×40×9H	200	332	60	310	40	354	320
23	513000	440	720	M27	357	340×8×30×41×9H	200	342	60	320	40	348	320
24	592000	460	770	M27	419	360×8×30×44×9H	220	362	60	340	40	368	340
25	684000	480	800	M30	492	380×8×30×46×9H	230	382	60	360	40	372	350
26	763000	500	850	M30	567	400×8×30×48×9H	240	402	60	380	40	382	360
27	852000	530	910	M30	744	440×8×30×54×9H	250	442	60	420	40	423	370
28	950000	560	940	M30	776	450×8×30×55×9H	260	452	65	430	40	428	385
29	1060000	560	940	M30	736	460×8×30×56×9H	270	462	65	440	45	433	400
30	1200000	590	960	M30	845	480×8×30×58×9H	285	482	65	460	45	448	415
31	1330000	590	960	M30	835								
32	1500000	620	1020	M30	1064								
33	1690000	660	1070	M33	1178								
34	1920000	700	1140	M33	1345								

P系列行星齿轮减速机 PLANETARY GEARBOX

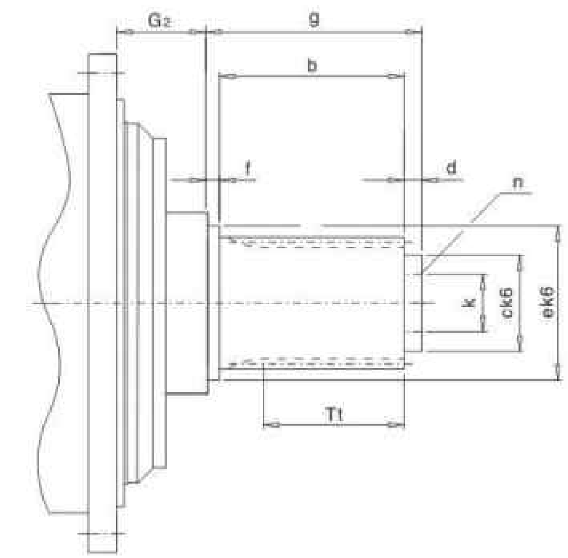
输出轴
Output Shaft

2. 实心轴 Solid shaft

带平键的实心输出轴 Solid Output Shaft with Parallel Key



渐开线花键实心输出轴 Solid Output Shaft with Involute Splines

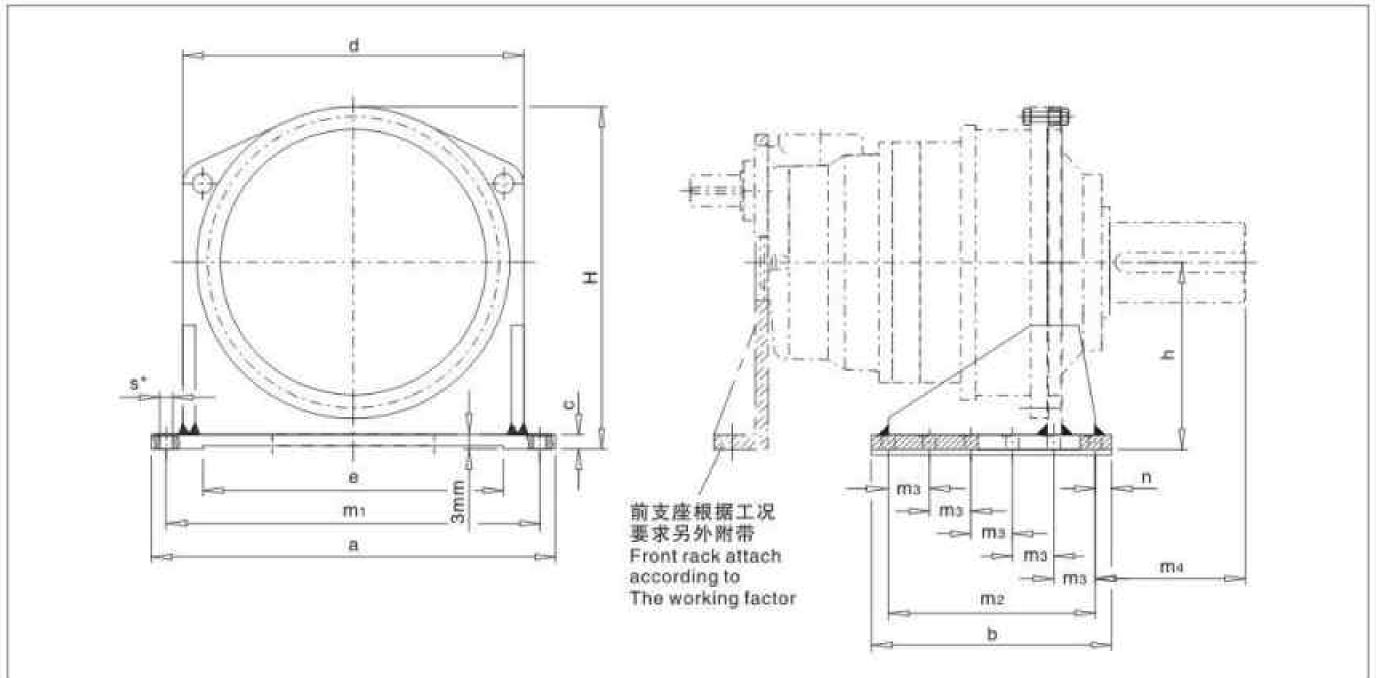


花键齿形按DIN5480 Spline tooth profile by DIN5480

机座号 Type no	许用扭矩 Permissible torque T_{2N} (N·M)	带平键实心轴 With even key solid shaft			实心花键输出轴 Solid spline output										
		d_2	l_2	G_2	外花键规格 Outer spline specification	Tt	b	c	d	e	f	g	k	n	G_2
9	22000	120	210	95	130×5×30×24×8m	70	80	110	20	132	20	120	80	3×M16×24	95
10	31000	130	210	95	140×5×30×26×8m	80	90	120	20	142	20	130	90	3×M16×24	95
11	42000	150	240	109	160×5×30×30×8m	90	100	140	25	162	25	150	110	3×M16×24	109
12	60000	160	270	106	180×5×30×34×8m	100	110	90	25	182	25	160	130	3×M16×24	106
13	83000	180	310	118	200×5×30×38×8m	110	120	100	30	202	25	175	140	3×M16×24	118
14	117000	210	350	139	220×5×30×42×8m	125	135	120	30	222	30	195	160	3×M16×24	139
16	160000	230	350	142	250×8×30×30×8m	140	155	140	35	252	30	220	185	3×M20×30	142
17	202000	250	400	139	260×8×30×31×8m	150	165	155	40	262	35	240	200	3×M20×30	139
18	244000	260	400	134	280×8×30×34×8m	160	175	170	40	282	35	250	215	3×M20×30	134
19	295000	280	450	148.5	300×8×30×36×8m	170	185	180	40	302	35	260	225	3×M20×30	148.5
20	354000	300	500	148.5	310×8×30×37×8m	180	195	190	40	312	35	270	235	6×M20×30	148.5
21	392000	310	500	158	320×8×30×38×8m	190	205	200	40	322	35	280	250	6×M20×30	158
22	450000	330	500	158	340×8×30×41×8m	200	215	210	40	342	35	290	265	6×M20×30	158
23	513000	350	550	175	360×8×30×44×8m	200	215	230	40	362	35	290	275	6×M20×30	175
24	592000	360	590	175	380×8×30×46×8m	220	235	245	40	382	35	310	290	6×M20×30	175
25	684000	380	590	182	400×8×30×48×8m	230	245	260	40	402	35	320	310	6×M24×30	182
26	763000	400	650	182	420×8×30×51×8m	240	255	280	40	422	35	330	330	6×M24×30	182
27	852000	430	690	196.5	440×8×30×54×8m	250	265	310	40	442	35	340	370	6×M24×30	196.5
28	950000	450	750	196.5	450×8×30×55×8m	260	275	330	45	452	40	360	380	6×M24×36	196.5
29	1060000	460	750	209	460×8×30×56×8m	270	285	340	45	462	40	370	390	6×M24×36	209
30	1200000	480	790	209	480×8×30×58×8m	285	300	360	45	482	40	385	410	6×M24×36	209
31	1330000	500	790	232											
32	1500000	510	850	232											
33	1690000	530	900	251											
34	1920000	570	950	251											

附件
Add-on Piece

1. 齿轮箱机座（附件代号-96） Gear units type (accessory code-96):

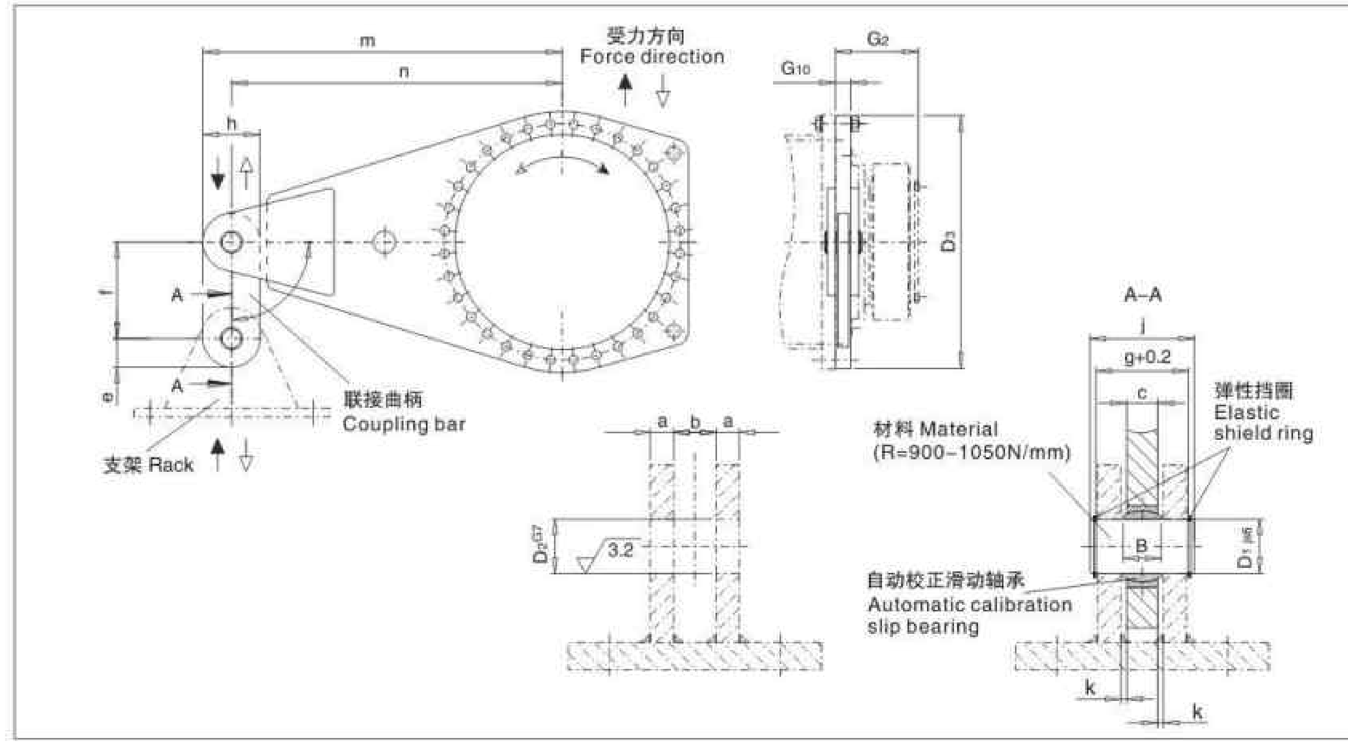


尺寸 Size	a	b	c	d	e	h	H	m_1	m_2	m_3	m_4	n	螺栓孔 Bolt hole s*	螺栓孔 Bolt hole 数量 Size	重量 Weight (kg)
9	580	330	20	450	380	260	480	520	260	130	240	35	26	2×3	56
10	630	360	25	500	430	280	525	570	290	145	240	35	26	2×3	82
11	680	400	30	550	480	315	585	620	330	110	274	35	26	2×4	122
12	760	450	30	630	560	360	670	700	380	95	292	35	26	2×5	157
13	820	490	35	680	610	390	720	750	420	105	334	35	26	2×5	213
14	920	560	35	760	680	430	800	840	480	120	380	40	33	2×5	270
16	980	580	40	820	700	470	865	900	500	125	374	40	33	2×5	350
17	1130	670	45	940	810	540	998	1040	580	145	405	45	39	2×5	520
18	1180	720	45	980	830	560	1035	1080	620	155	385	50	39	2×5	580
19	1260	760	50	1050	880	590	1090	1160	640	160	450	60	45	2×5	720
20	1260	760	50	1050	880	590	1090	1160	640	160	500	60	45	2×5	720
21	1440	840	55	1170	1020	660	1228	1320	700	175	513	70	52	2×5	940
22	1440	840	55	1170	1020	660	1228	1320	700	175	513	70	52	2×5	940
23	1540	910	60	1270	1100	730	1345	1420	750	150	567	80	52	2×6	1275
24	1540	910	60	1270	1100	730	1345	1420	750	150	607	80	52	2×6	1275
25	1700	1000	65	1400	1240	795	1465	1550	860	215	574	70	62	2×5	1670
26	1700	1000	65	1400	1240	795	1465	1550	860	215	634	70	62	2×5	1670
27	1850	1100	70	1550	1370	870	1610	1700	950	190	664	75	62	2×6	2170
28	1850	1100	70	1550	1370	870	1610	1700	950	190	724	75	62	2×6	2170
29	1980	1180	75	1640	1460	925	1715	1820	1000	250	731	90	70	2×5	2650
30	1980	1180	75	1640	1460	925	1715	1820	1000	250	771	90	70	2×5	2650
31	2150	1300	75	1750	1570	1000	1845	1950	1100	220	773	100	70	2×6	3100
32	2150	1300	75	1750	1570	1000	1845	1950	1100	220	833	100	70	2×6	3100
33	2230	1350	85	1850	1630	1050	1940	2050	1150	230	883	100	78	2×6	3850
34	2230	1350	85	1850	1630	1050	1940	2050	1150	230	933	100	78	2×6	3850

P系列行星齿轮减速机 PLANETARY GEARBOX

附件
Add-on Piece

2. 齿轮箱机座（附件代号-96） Gear units type (accessory code-96):

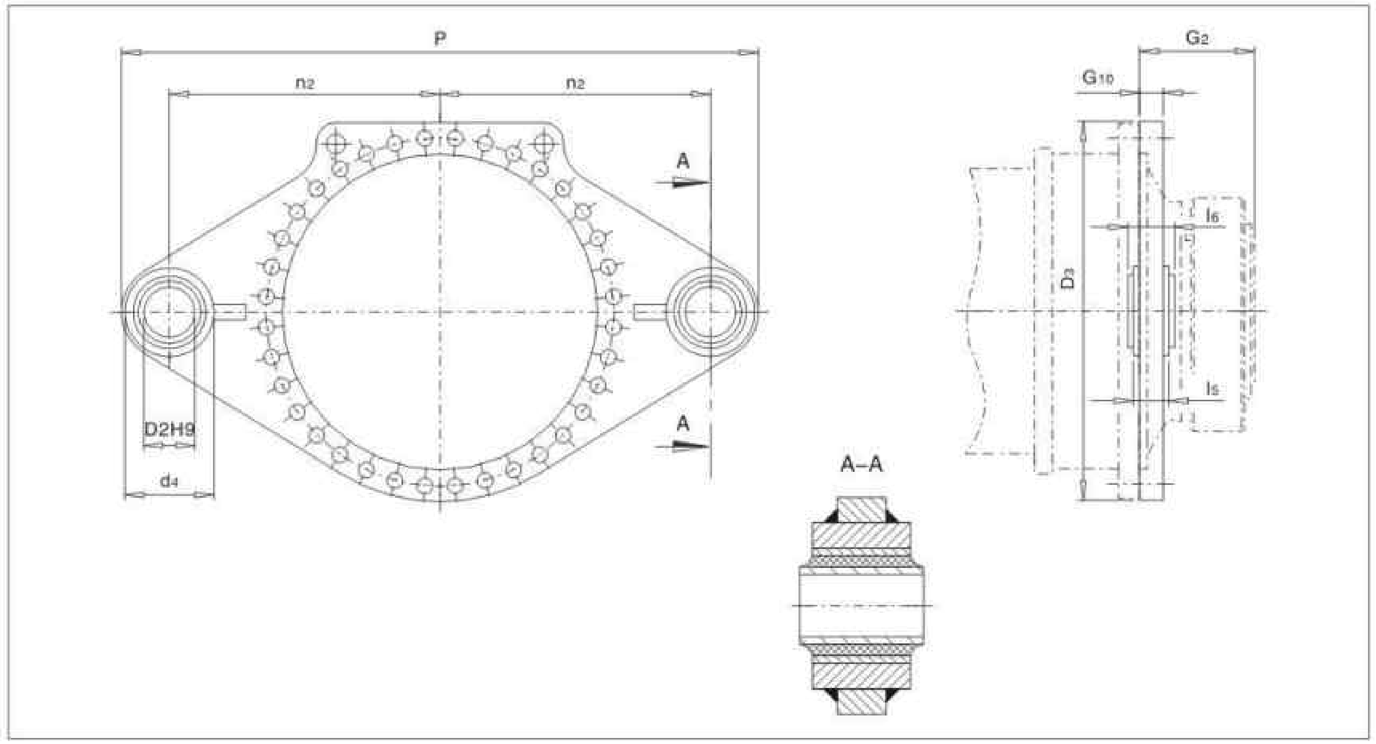


尺寸 Size	T2N (N·M)	D_1 D_2	D_3	G_2	G_{10}	a min.	b	B*	c	e	f	0 +0.2	h	j	k	m	n	滚动轴承 Rolling bearing	重量 Weight (kg)
9	22000	30	440	165	25	15	25	22	18	50	140	59.5	100	70	3.5	605	555	30	38
10	31000	35	485	174	30	15	30	25	20	52.5	140	64.5	105	75	5	667.5	615	35	51
11	42000	40	540	204	30	18	30	28	22	65	160	70.5	130	85	4	750	685	40	82
12	60000	40	620	224	30	18	30	28	22	65	160	70.5	130	85	4	850	785	40	85
13	83000	45	665	241	35	20	35	32	25	72.5	180	79.5	145	95	5	912.5	840	45	113
14	117000	50	740	278	40	20	40	35	30	72.5	200	85	145	100	5	1012.5	940	50	145
16	160000	60	790	285	50	25	50	44	35	77.5	240	105	155	120	7.5	1077.5	1000	60	206
17	202000	60	915	294	50	25	50	44	35	85	240	105	170	120	7.5	1250	1165	60	274
18	244000	70	955	303	55	30	55	49	40	105	280	120	210	135	7.5	1315	1210	70	365
19	295000	80	1005	327.5	60	30	60	55	45	105	320	125	210	145	7.5	1405	1300	80	423
20	354000	80	1005	327.5	60	30	60	55	45	105	320	125	210	145	7.5	1405	1300	80	423
21	392000	80	1140	354	60	30	60	55	45	113	320	125	225	145	7.5	1562.5	1450	80	530
22	450000	80	1140	354	60	30	60	55	45	113	320	125	225	145	7.5	1562.5	1450	80	530
23	513000	90	1235	380	65	30	65	60	50	125	360	130	250	150	7.5	1700	1575	90	665
24	592000	90	1235	380	65	30	65	60	50	125	360	130	250	150	7.5	1700	1575	90	665
25	684000	100	1350	407	75	35	75	70	55	138	400	150	275	170	10	1857.5	1720	100	940
26	763000	100	1350	407	75	35	75	70	55	138	400	150	275	170	10	1857.5	1720	100	940
27	852000	110	1490	453	75	35	75	70	55	150	440	150	300	175	10	2050	1900	110	1120
28	950000	110	1490	453	75	35	75	70	55	150	440	150	300	175	10	2050	1900	110	1120
29	1060000	110	1600	483	75	35	75	70	55	158	440	150	315	175	10	2192.5	2035	110	1260
30	1200000	110	1600	483	75	35	75	70	55	158	400	150	315	170	10	2192.5	2035	110	1260
31-34	按客户要求供货 According to customer requirements supply commodity																		

*) B=22-35，公差为-0.12；　B=44-55，公差为-0.15；　B=60-70，公差为-0.20
B=22-35, Reference -0.12; B=44-55, Reference -0.15; B=60-70, Reference -0.20

附件
Add-on Piece

3. 带橡胶衬套的双向扭力臂（附件代号-76）Double-sides torque arm with rubber bushing. (accessory code-76):

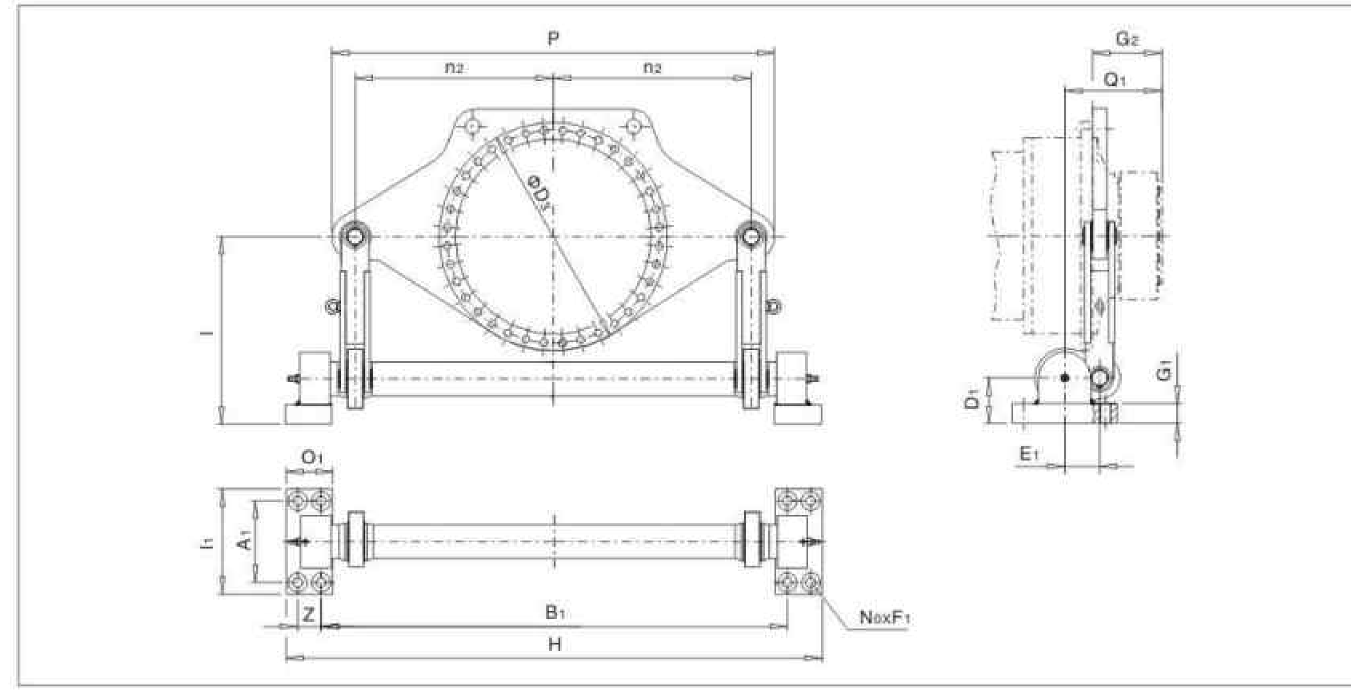


尺寸 Size	T2N (N·M)	D_2*	D_3	d_4	G_3	G_{10}	l_5	l_6	n_5	P	衬套 Bush	重量 Weight (kg)
9	22000	50	440	115	165	30	100	110	500	1140	0118095	58
10	31000	50	485	115	174	30	100	110	550	1240	0118095	72
11	42000	100	540	180	204	30	110	120	575	1355	0118772	95
12	60000	100	620	180	224	35	110	120	625	1455	0118772	120
13	83000	110	665	210	241	35	170	180	600	1435	0118802	145
14	117000	110	740	210	278	40	170	180	650	1535	0118802	170
16	160000	124	790	240	285	40	220	230	700	1670	0118805	230
17	202000	124	915	240	288	40	220	230	750	1770	0118805	300
18	244000	124	955	240	303	50	220	230	900	2072	0118805	400

* 销轴pin: ϕ h8

附件
Add-on Piece

4. 扭转轴支架（附件代号-77） Rotation rack (accessory code-77):

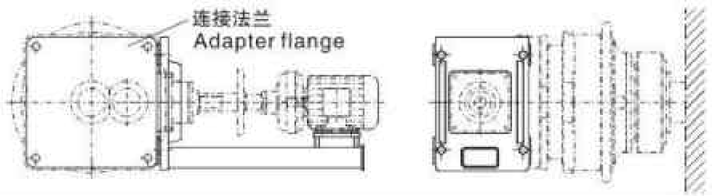


尺寸 Size	T2N (N·M)	A_1	B_1	D_3	D_1	E_1	F_1	G_1	G_2	H	I	I_1	n_2	N_0	O_1	P	Q_1	Z	重量 Weight (kg)
9	22000	250	1414	610	120	105	33	48.5	165	1619	560	330	550	8	140	1230	247.5	65	300
10	31000	250	1414	610	120	105	33	48.5	174	1619	560	330	550	8	140	1230	256.5	65	300
11	42000	250	1414	610	120	105	33	48.5	204	1619	560	330	550	8	140	1230	286.5	65	300
12	60000	250	1414	610	120	105	33	48.5	224	1619	560	330	550	8	140	1230	306.5	65	300
13	83000	280	1604	775	155	145	39	68.5	241	1837	620	380	650	8	158	1450	358.5	75	600
14	117000	280	1604	775	155	145	39	68.5	278	1837	620	380	650	8	158	1450	395.5	75	600
16	160000	280	1604	775	155	145	39	68.5	285	1837	620	380	650	8	158	1450	402.5	75	600
17	202000	315	1777	955	170	165	39	73.5	294	2041	700	400	750	8	180	1680	431.5	84	900
18	244000	315	1777	955	170	165	39	73.5	303	2041	700	400	750	8	180	1680	440.5	84	900
19	295000	350	2000	985	195	175	45	83.5	328	2300	860	450	850	8	200	1900	470.5	100	1400
20	354000	350	2000	985	195	175	45	83.5	328	2300	860	450	850	8	200	1900	470.5	100	1400
21	392000	400	2254	1120	210	190	45	88.5	354	2591	900	530	950	8	225	2110	506.5	113	1700
22	450000	400	2254	1120	210	190	45	88.5	354	2591	900	530	950	8	225	2110	506.5	113	1700
23	513000	450	2496	1215	235	220	45	98.5	380	2871	1060	590	1063	8	250	2385	562.5	125	2150
24	592000	450	2496	1215	235	220	45	98.5	380	2871	1060	590	1063	8	250	2385	562.5	125	2150
25	684000	500	2816	1350	275	245	52	118.5	407	3236	1200	650	1150	8	280	2600	614.5	140	2700
26	763000	500	2816	1350	275	245	52	118.5	407	3236	1200	650	1150	8	280	2600	614.5	140	2700
27	852000	530	2887	1490	300	255	52	128.5	453	3327	1250	700	1250	8	290	2820	670.5	150	3400
28	950000	530	2887	1490	300	255	52	128.5	453	3327	1250	700	1250	8	290	2820	670.5	150	3400
29	1060000	560	3200	1565	300	280	62	128.5	483	3673	1350	750	1360	8	315	3080	718	158	4350
30	1200000	560	3200	1565	300	280	62	128.5	483	3673	1350	750	1360	8	315	3080	718	158	4350
31	1330000	590	3408	1695	340	300	70	148.5	538	3906	1400	790	1450	8	330	3260	788	168	5500
32	1500000	590	3408	1695	340	300	70	148.5	538	3906	1400	790	1450	8	330	3260	788	168	5500
33	1680000	620	3588	1785	375	300	70	158.5	573	4116	1500	840	1550	8	350	3520	840.5	178	7000
34	1920000	620	3588	1785	375	300	70	158.5	573	4116	1500	840	1550	8	350	3520	840.5	178	7000

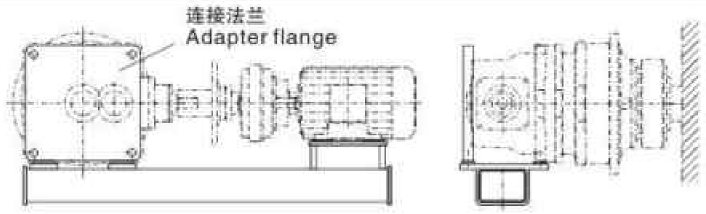
附件
Add-on Piece

5. 电机安装支架 Motor assembly rack

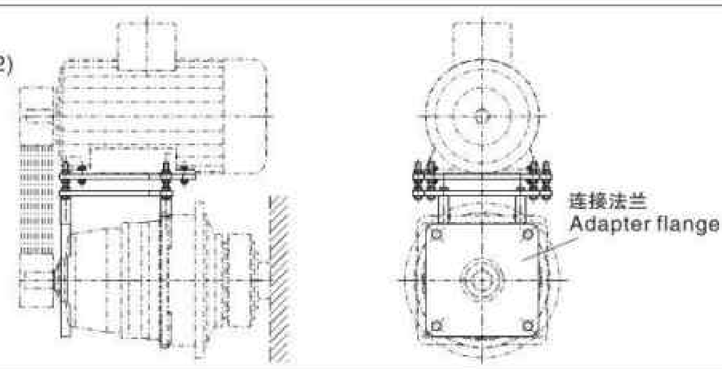
电机安装支架 (附件代号-71)
Motor assembly rack (accessory code-71)



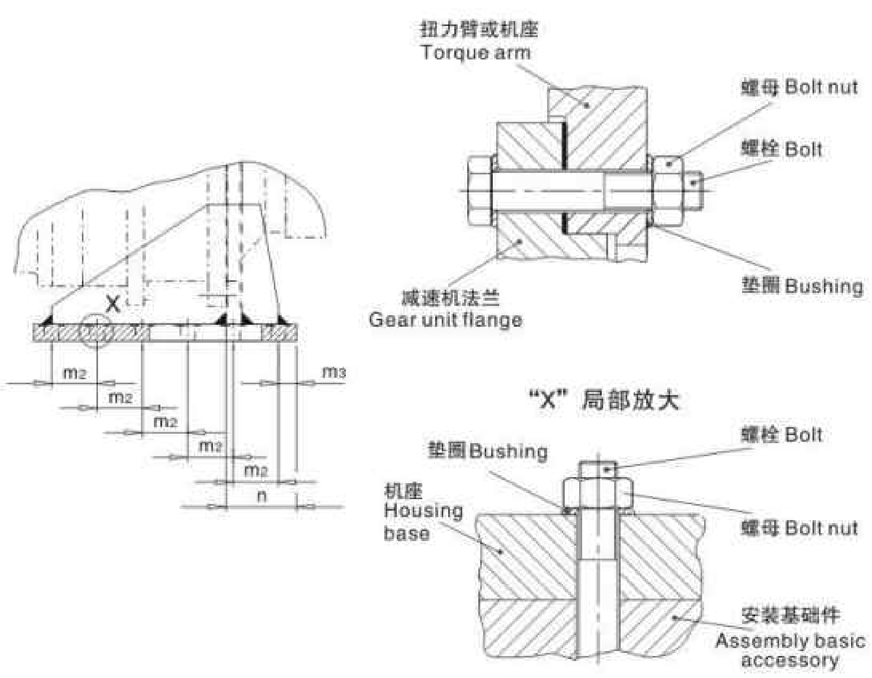
电机安装支架 (附件代号-71)
Motor assembly rack (accessory code-71)



卧式电机安装支架 (附件代号-72)
Horizontal motor assembly rack (accessory code-72)



6. 法兰联接及底座安装时螺母的预紧扭矩 Flange connecting and base assembly needed bolt torque available

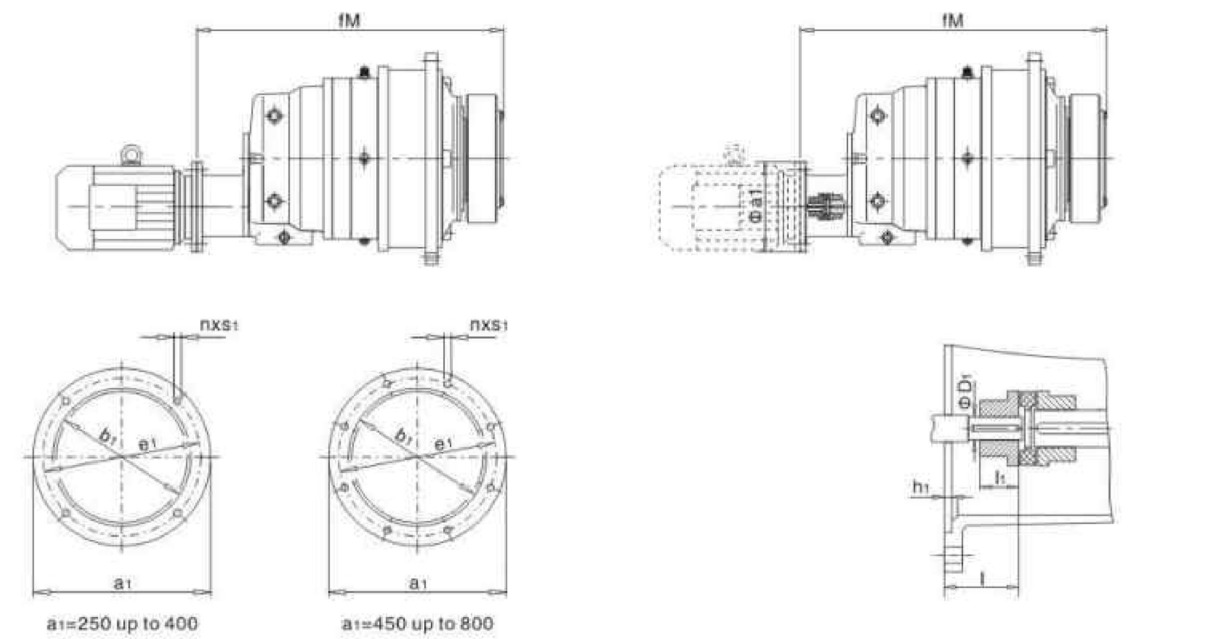


尺寸 Size	螺栓 Bolt (10.9)	预紧扭矩 Tightening torque (N·M)	螺栓 Bolt (8.8)	预紧扭矩 Tightening torque (N·M)
9	M16	295	M24	710
10	M16	295	M24	710
11	M20	580	M24	710
12	M24	1000	M24	710
13	M24	1000	M24	710
14	M24	1000	M30	1450
16	M24	1000	M30	1450
17	M30	2000	M36	2530
18	M30	2000	M36	2530
19/20	M30	2000	M42	4070
21/22	M36	3560	M48	6140
23/24	M36	3560	M48	6140
25/26	M42	5720	M56	9840
27/28	M48	8640	M56	9840
29/30	M48	8640	M64	14300
31/32	M56	13850	M64	14300
33/34	M56	13850	M64	14300

P系列行星齿轮减速机 PLANETARY GEARBOX

带电机法兰输入
With Motor Flange Input

1. P2S. 带电机、输入法兰及联轴器尺寸 P3S. motor input flange and coupling size:



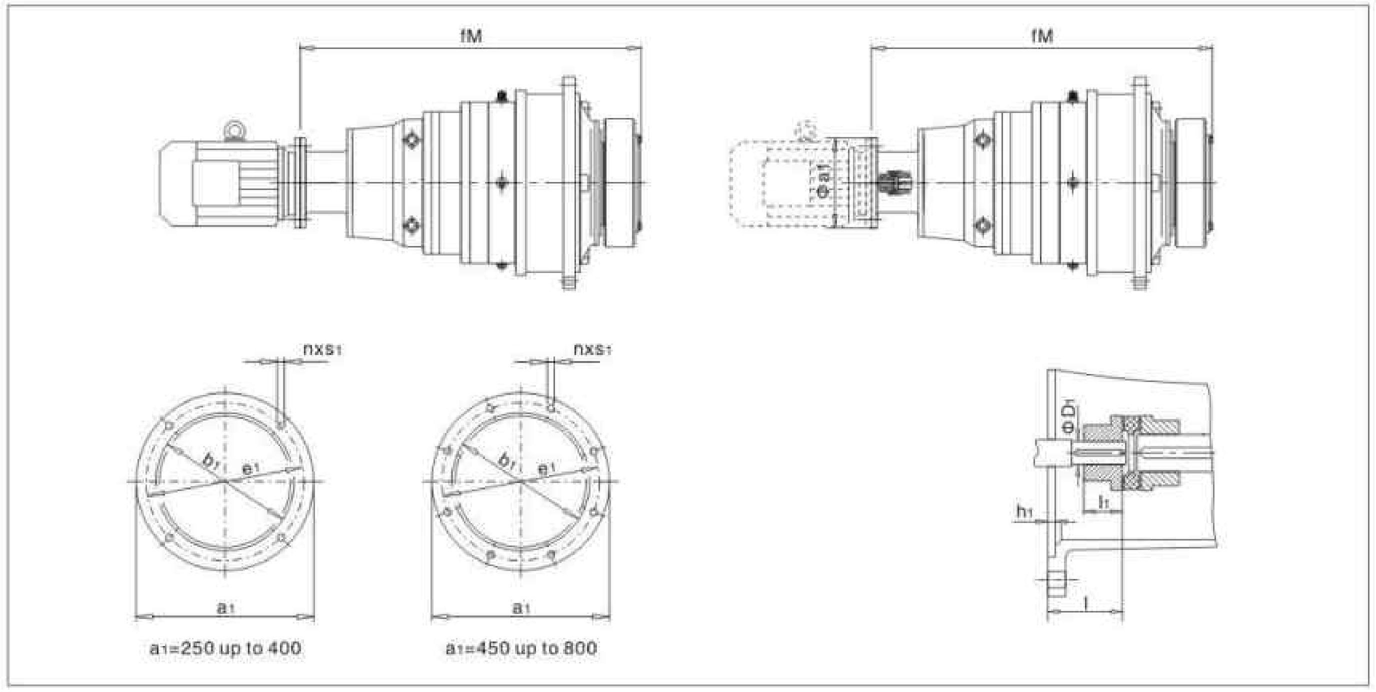
P2S.	电机 Motor (Y)*	法兰 Flange (F)**	a_1	$b_1(h_7)$	D_1	e_1	f_M	h_1	l_1	l	n	s_1
9	160		350	250	42	300	832	6	75	110	4	M16
	180		350	250	48	300	832	6	75	110	4	M16
10	160		350	250	42	300	861	6	75	110	4	M16
	180		350	250	48	300	861	6	75	110	4	M16
11	160		350	250	42	300	1010	6	75	110	4	M16
	180		350	250	48	300	1010	6	75	110	4	M16
	200		400	300	55	350	1010	7	75	110	4	M16
12	160		350	250	42	300	1044	6	75	110	4	M16
	180		350	250	48	300	1044	6	75	110	4	M16
	200		400	300	55	350	1044	7	75	110	4	M16
13	225		450	350	60	400	1247	7	90	140	8	M16
	250		550	450	65	500	1247	8	90	140	8	M16
14	225		450	350	60	400	1307	7	90	140	8	M16
	250		550	450	65	500	1307	8	90	140	8	M16
16	250		550	450	65	500	1452	7	100	140	8	M16
	280		550	450	75	500	1452	8	100	140	8	M16
17	250		550	450	65	500	1487	7	100	140	8	M16
	280		550	450	75	500	1487	8	100	140	8	M16
18	315		660	550	80	600	1680	11	110	140	8	M20
19/20	315		660	550	80	600	1728	11	110	140	8	M20

注：（1）："*" 所选直联电机机座号所对应的功率应满足传动能力表；
"**" 表格中所示的法兰为标准型号的法兰，如有异同请另咨询。
（2）侧面扭力臂组合，请咨询。

(1)* Power to match transmission force table for direct-connect motor;
** Table flange is standard flange.
(2) Side torque arm matched units, please inquiry.

带电机法兰输入
With Motor Flange Input

2. P3N. 带电机法兰及联轴器尺寸 P3N. motor flange and coupling size:



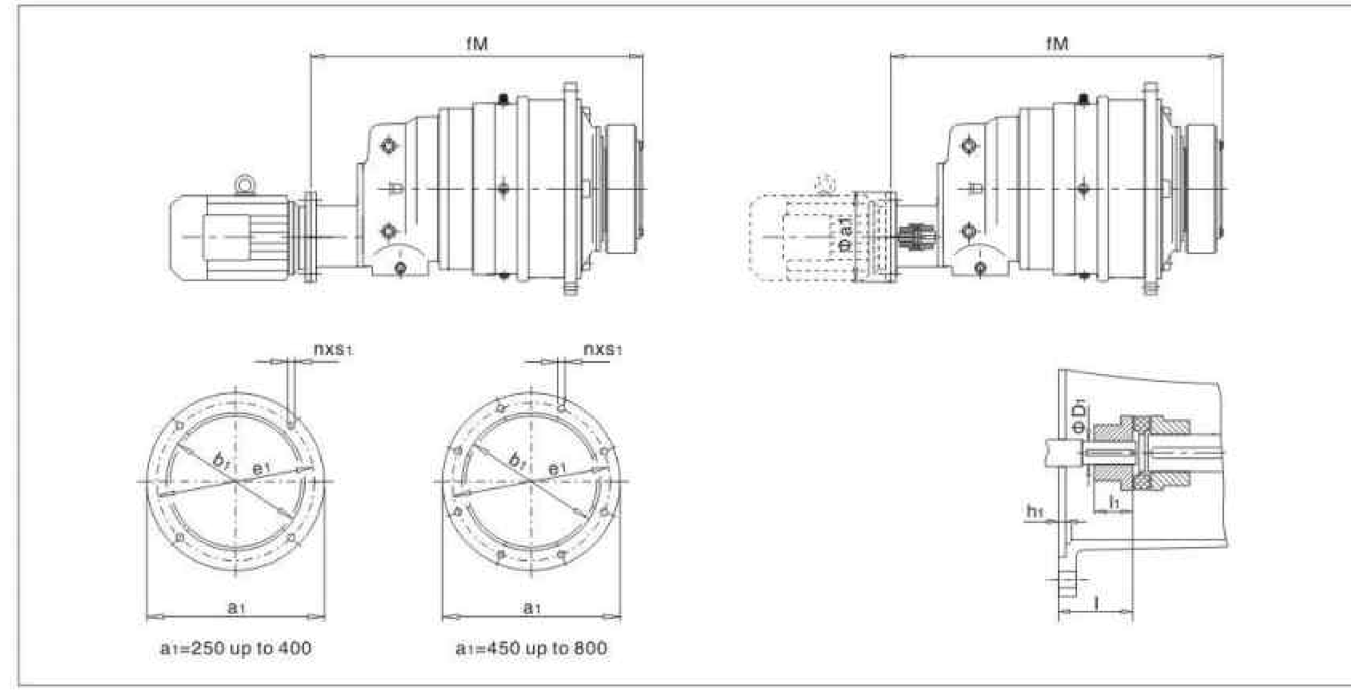
P3N.	电机 Motor (Y)* / 法兰 Flange (F)**	a_1	$b_1(h_7)$	D_1	e_1	f_M	h_1	l_1	l	n	s_1
9	132	300	230	38	265	912	5	56	80	4	M12
	160	350	250	42	300	960	6	80	110	4	M16
	180	350	250	48	300	960	6	80	110	4	M16
10	132	300	230	38	265	941	5	56	80	4	M12
	160	350	250	42	300	989	6	80	110	4	M16
	180	350	250	48	300	989	6	80	110	4	M16
11	132	300	230	38	265	1002	5	56	80	4	M12
	160	350	250	42	300	1050	6	80	110	4	M16
	180	350	250	48	300	1050	6	80	110	4	M16
12	132	300	230	38	265	1036	5	56	80	4	M12
	160	350	250	42	300	1084	6	80	110	4	M16
	180	350	250	48	300	1084	6	80	110	4	M16
13	160	350	250	42	300	1159	6	80	110	4	M16
	180	350	250	48	300	1159	6	80	110	4	M16
	200	400	300	55	350	1159	7	80	110	4	M16
14	160	350	250	42	300	1219	6	80	110	4	M16
	180	350	250	48	300	1219	6	80	110	4	M16
	200	400	300	55	350	1219	7	80	110	4	M16
16	200	400	300	55	350	1400	7	90	110	4	M16
	225	450	350	60	400	1430	7	90	140	8	M16
17	200	400	300	55	350	1435	7	90	110	4	M16
	225	450	350	60	400	1465	7	90	140	8	M16
18	250	550	450	65	500	1636.5	7	100	140	8	M16
	280	550	450	75	500	1636.5	8	100	140	8	M16
19/20	250	550	450	65	500	1685	7	100	140	8	M16
	280	550	450	75	500	1685	8	100	140	8	M16

注：（1）："*" 所选直联电机机座号所对应的功率应满足传动能力表；
"**" 表格中所示的法兰为标准型号的法兰，如有异同请另咨询。
（2）侧面扭力臂组合，请咨询。

(1)* Power to match transmission force table for direct-connect motor;
** Table flange is standard flange.
(2) Side torque arm matched units, please inquiry.

带电机法兰输入
With Motor Flange Input

3. P3S. 带电机法兰及联轴器尺寸 P3S. motor flange and coupling size:



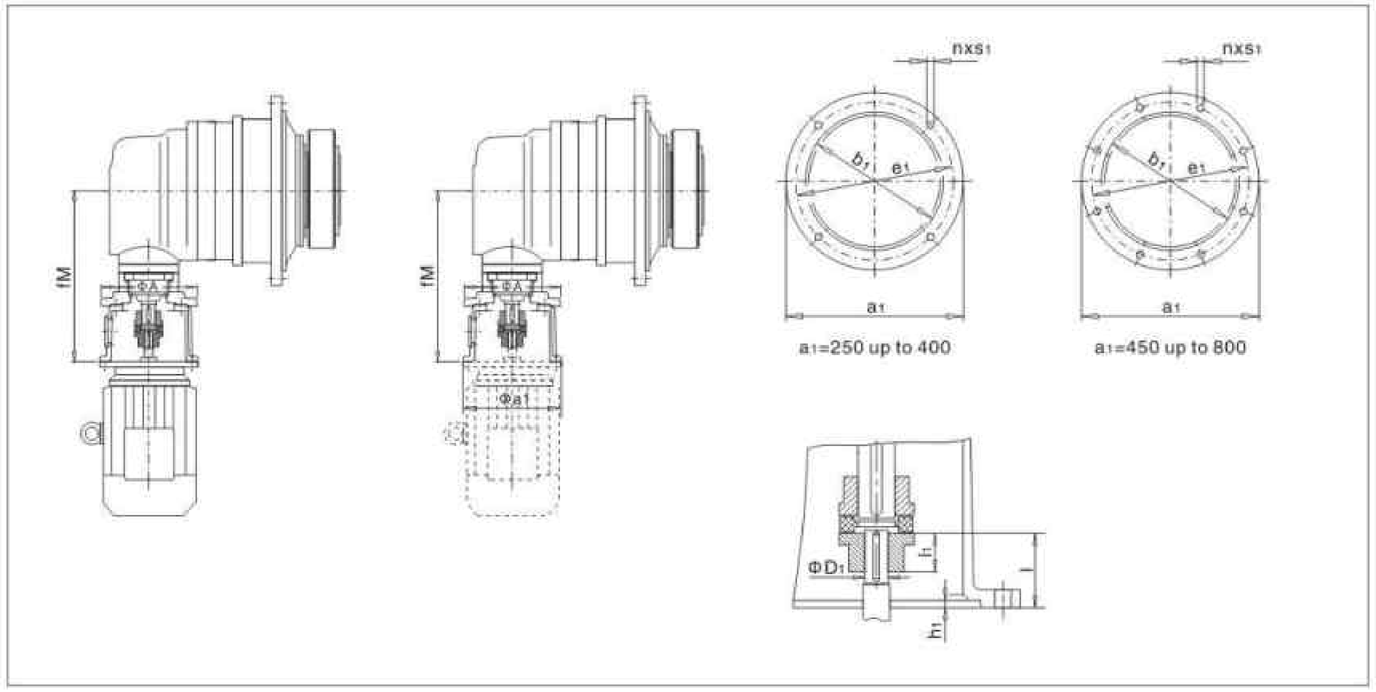
P3S.	电机 Motor (Y)* / 法兰 Flange (F)**	a_1	$b_1(h_7)$	D_1	e_1	f_M	h_1	l_1	l	n	s_1
9	100	250	180	28	215	865	5	45	60	4	M12
	112	250	180	28	215	865	5	45	60	4	M12
	132	300	230	38	265	896	5	70	80	4	M12
	160	350	250	42	300	931	6	75	110	4	M16
10	100	250	180	28	215	894	5	45	60	4	M12
	112	250	180	28	215	894	5	45	60	4	M12
	132	300	230	38	265	925	5	70	80	4	M12
	160	350	250	42	300	957	6	75	110	4	M16
11	112	250	180	28	215	955	5	45	60	4	M12
	132	300	230	38	265	986	5	70	80	4	M12
	160	350	250	42	300	1018	6	75	110	4	M16
	180	350	250	48	300	1018	6	75	110	4	M16
12	112	250	180	28	215	989	5	45	60	4	M12
	132	300	230	38	265	1020	5	70	80	4	M12
	160	350	250	42	300	1052	6	75	110	4	M16
	180	350	250	48	300	1052	6	75	110	4	M16
13	132	300	230	38	265	1095	5	70	80	4	M12
	160	350	250	42	300	1127	6	75	110	4	M16
	180	350	250	48	300	1127	6	75	110	4	M16
14	132	300	230	38	265	1155	5	70	80	4	M12
	160	350	250	42	300	1187	6	75	110	4	M16
	180	350	250	48	300	1187	6	75	110	4	M16
16	160	350	250	42	300	1365	6	75	110	4	M16
	180	350	250	48	300	1365	6	75	110	4	M16
	200	400	300	55	350	1365	7	75	110	4	M16
17	160	350	250	42	300	1390	6	75	110	4	M16
	180	350	250	48	300	1390	6	75	110	4	M16
	200	400	300	55	350	1400	7	75	110	4	M16
18	180	350	250	48	300	1558.5	6	90	110	4	M16
	200	400	300	55	350	1570.5	6	90	110	4	M16
	225	450	350	60	400	1608.5	7	90	110	8	M16
	250	550	450	65	500	1608.5	7	90	110	8	M16
19/20	180	350	250	48	300	1606	6	90	110	4	M16
	200	400	300	55	350	1618	6	90	110	4	M16
	225	450	350	60	400	1656	7	90	110	8	M16
	250	550	450	65	500	1656	7	90	110	8	M16

注：（1）："*" 所选直联电机机座号所对应的功率应满足传动能力表；
"**" 表格中所示的法兰为标准型号的法兰，如有异同请另咨询。
（2）侧面扭力臂组合，请咨询。

(1)* Power to match transmission force table for direct-connect motor;
** Table flange is standard flange.
(2) Side torque arm matched units, please inquiry.

带电机法兰输入
With Motor Flange Input

4. P2K. 带电机法兰及联轴器尺寸 P2K. motor flange and coupling size:



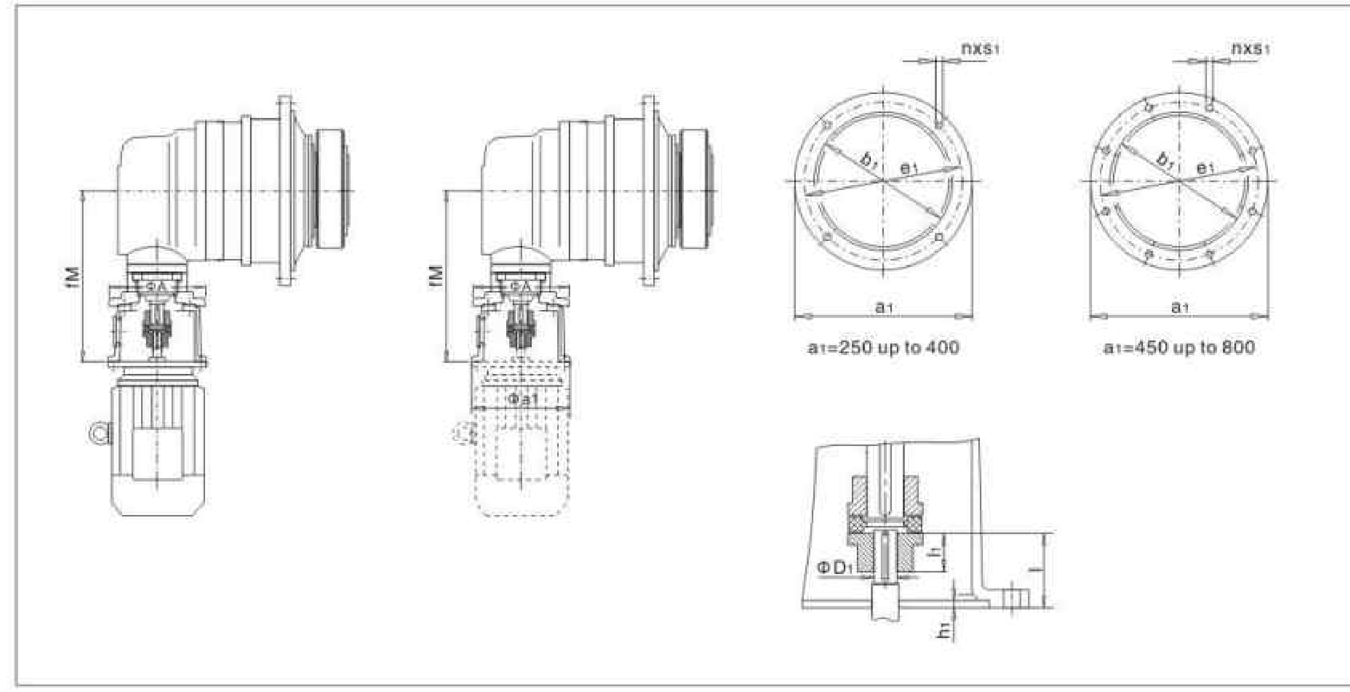
P2K.	电机 Motor (Y)* / 法兰 Flange (F)**	a_1	A	b_1	D_1	e_1	f_M	h_1	l	l_1	n	s_1
9/10	132	300	250	230	38	265	486	5	80	70	4	M12
	160	350	250	250	42	300	528	6	110	75	4	M16
11/12	160	350	300	250	42	300	593	6	110	75	4	M16
	180	350	350	250	48	300	593	6	110	75	4	M16
	200	400	350	300	55	350	593	7	110	75	4	M16
13/14	160	350	440	250	42	300	663	6	110	75	4	M16
	180	350	440	250	48	300	663	6	110	75	4	M16
	200	400	440	300	55	350	663	7	110	75	4	M16
	225	450	440	350	60	400	695	7	140	80	8	M16
	250	550	440	450	65	500	707	8	140	85	8	M16
16/17	200	400	440	300	55	350	770	7	110	80	4	M16
	225	425	440	350	60	400	800	7	140	80	8	M16
	250	550	440	450	65	500	812	8	140	85	8	M16
	280	550	440	450	75	500	812	8	140	85	8	M16
18/19/20	225	450	440	350	60	400	932	7	140	85	8	M16
	250	550	440	450	65	500	932	8	140	85	8	M16
	280	550	440	450	75	500	932	8	140	85	8	M16
	315*	600	440	550	80	600	967	11	170	100	8	M20

注：（1）："*" 所选直联电机机座号所对应的功率应满足传动能力表；
"**" 表格中所示的法兰为标准型号的法兰，如有异同请另咨询。
（2）侧面扭力臂组合，请咨询。

(1)* Power to match transmission force table for direct-connect motor;
** Table flange is standard flange.
(2) Side torque arm matched units, please inquiry.

带电机法兰输入
With Motor Flange Input

5. P2L. 带电机法兰及联轴器尺寸 P2L. motor flange and coupling size:



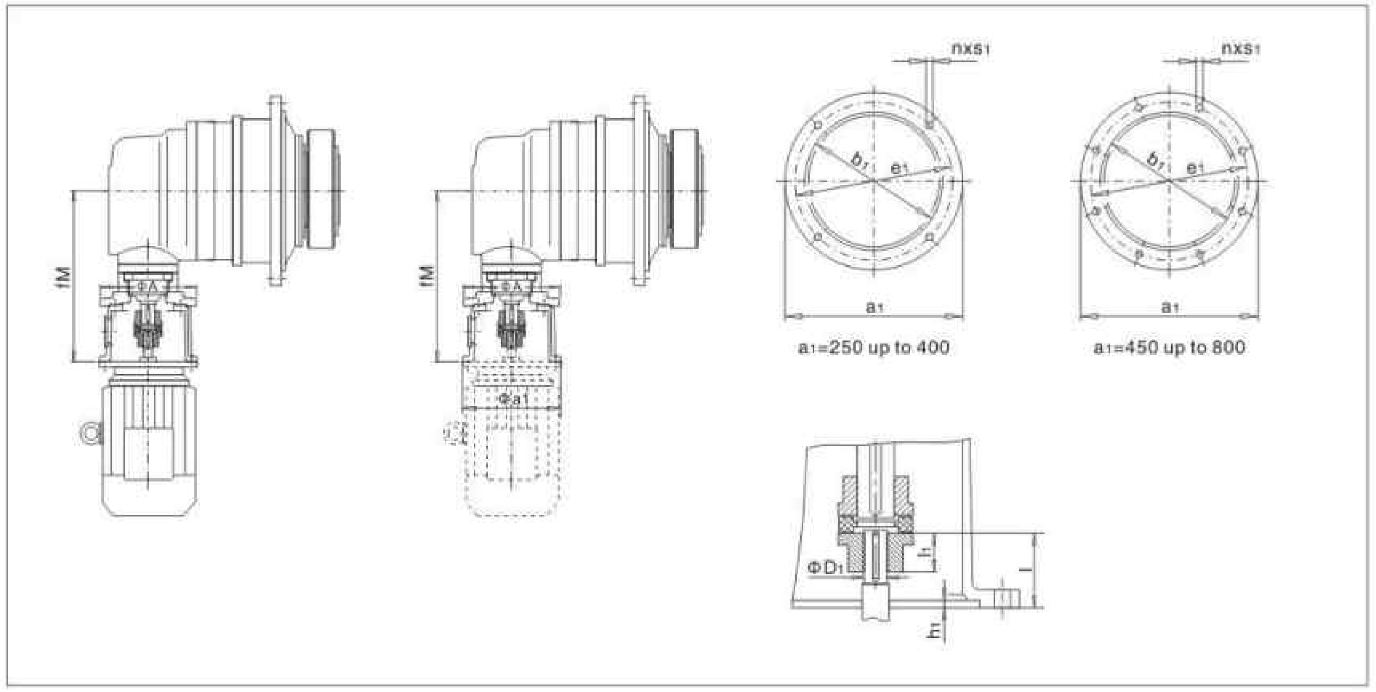
P2K.	电机 Motor (Y)* / 法兰 Flange (F)**	a_1	A	b_1	D_1	e_1	f_M	h_1	l	l_1	n	s_1
9/10	160	350	440	250	42	300	543	6	110	75	4	M16
	180	350	440	250	48	300	543	6	110	75	4	M16
	200	400	440	300	55	350	543	7	110	75	4	M16
	225	450	440	350	60	400	575	7	140	80	8	M16
11/12	200	400	440	300	55	350	600	7	110	75	4	M16
	225	450	440	350	60	400	630	7	140	80	8	M16
	250	550	440	450	65	500	642	8	140	85	8	M16
13/14	225	450	440	350	60	400	732	7	140	85	8	M16
	250	550	440	450	65	500	732	8	140	85	8	M16
	280	550	440	450	75	500	732	8	140	85	8	M16
16/17	280	550	600	450	75	500	842	8	140	100	8	M16
	315*	660	650	550	80	600	872	11	170	100	8	M20
	315MC	660	650	550	80	600	872	11	170	100	8	M20
	315MD	660	650	550	80	600	872	11	170	100	8	M20
	315LB	660	650	550	80	600	987	11	170	100	8	M20
18/19/20	315*	660	650	550	80	600	987	11	170	100	8	M20
	315MC	660	650	550	80	600	987	11	170	100	8	M20
	315MD	660	650	550	80	600	987	11	170	100	8	M20
	315LB	660	650	550	80	600	1122	11	170	100	8	M20
	315MC	660	650	550	80	600	1122	11	170	125	8	M20
	315MD	660	650	550	80	600	1122	11	170	125	8	M20
21/22 23/24	315LB	660	650	550	80	600	1122	11	170	125	8	M20
	315MB	800	650	680	95	740	1122	11	170	125	8	M20
	315LB	800	650	680	95	740	1122	11	170	125	8	M20

注：（1）："*" 所选直联电机机座号所对应的功率应满足传动能力表；
"**" 表格中所示的法兰为标准型号的法兰，如有异同请另咨询。
（2）侧面扭力臂组合，请咨询。

(1)* Power to match transmission force table for direct-connect motor;
** Table flange is standard flange.
(2) Side torque arm matched units, please inquiry.

带电机法兰输入
With Motor Flange Input

6. P3K. 带电机法兰及联轴器尺寸 P3K. motor flange and coupling size:

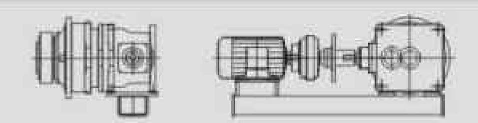
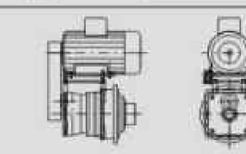
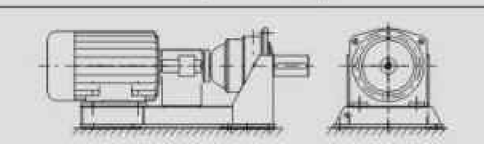
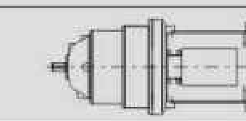
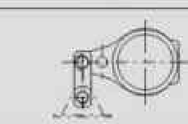
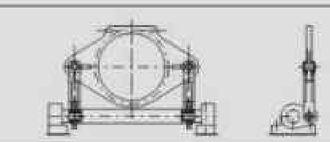
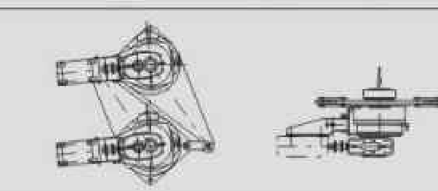
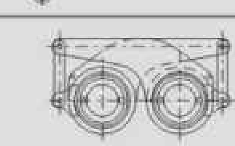


P2K.	电机 Motor (Y)*	法兰 Flange (F)**	a_1	A	b_1	D_1	e_1	f_M	h_1	l	l_1	n	s_1
9/10/11 12/13/14	132		300	250	230	38	265	486	5	80	70	4	M12
	160		350	250	250	42	300	528	6	110	75	4	M16
	180		350	250	250	48	300	528	6	110	75	4	M16
16/17	160		350	350	250	42	300	593	6	110	75	4	M16
	180		350	350	250	40	300	593	6	110	75	4	M16
	200		400	350	300	55	350	593	7	110	75	4	M16
18/19/20 21/22	160		350	440	250	42	300	663	6	110	75	4	M16
	180		350	440	250	48	300	663	6	110	75	4	M16
	200		400	440	300	35	350	663	7	110	75	4	M16
	225		450	440	350	60	400	695	7	140	80	8	M16
	250		550	440	450	65	500	707	8	140	85	8	M16
23/24 25/26	200		400	440	300	55	350	770	6	110	80	4	M16
	225		450	440	350	60	400	800	7	140	80	8	M16
	250		550	440	450	62	500	812	7	140	85	8	M16
	280		550	440	450	75	500	812	8	140	85	8	M16
27/28 29/30	225		450	440	350	60	400	932	7	140	85	8	M16
	250		550	440	450	65	500	932	7	140	85	8	M16
	280		550	440	450	75	500	932	8	140	85	8	M16
	315*		600	440	550	80	600	967	11	170	100	8	M20

注：（1）："*" 所选直联电机机座号所对应的功率应满足传动能力表；
"**" 表格中所示的法兰为标准型号的法兰，如有异同请另咨询。
（2）侧面扭力臂组合，请咨询。

(1)* Power to match transmission force table for direct-connect motor;
** Table flange is standard flange.
(2) Side torque arm matched units, please inquiry.

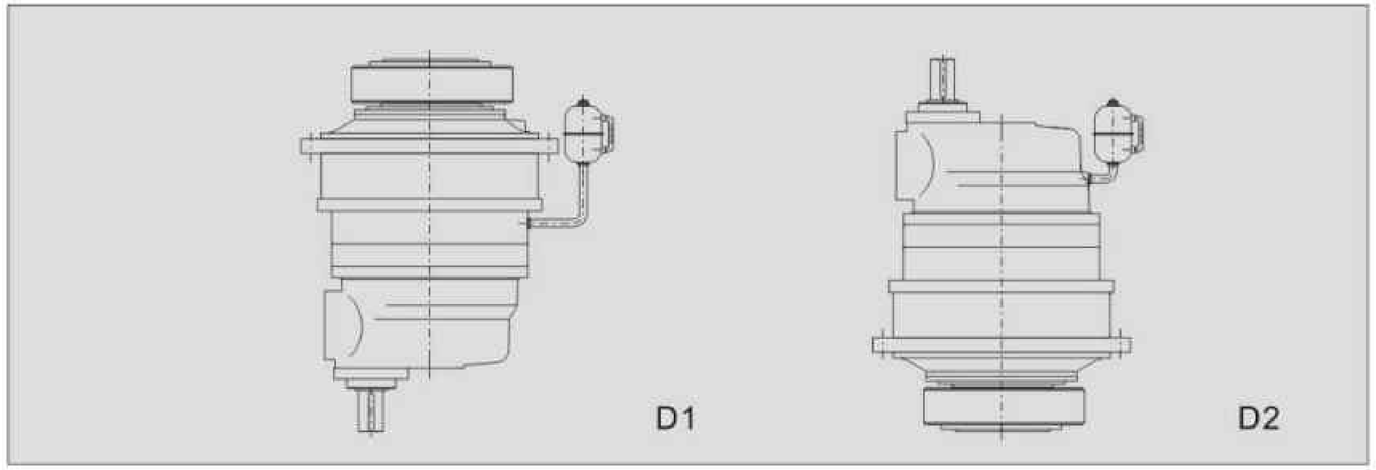
附件代号
Accessory Cod

代号Code	附件 Add-on piece		附图 Representation
99	不带附件 Without accessory		
96	带附件 With base	7.12.1	
71	电机机架（电机、连轴号） Motor rack (motor, concentric shaft)	7.12.5	
72	电机机架 Motor rack		
73	电机移动机座（电机、联轴器、齿轮箱） Motor mobile rack(motor, coupling, gear units)		
74	钟型罩式法兰（输出） Bell liner flange		
75	扭力臂（单向） Torque arm(single direction)	7.12.2	
76	扭力臂（双向） Torque arm(double direction)	7.12.3	
77	扭转轴支架 Torsion shaft rack	7.12.4	
80	支架1 Rack 1		
81	支架2 Rack 2		
	特殊设计按客户要求 Special design according to customer requirements		

* 非刚性联接 Non rigid connection

垂直安装时润滑油补偿油箱
Vertical Assembly Fabrication Compensating Oil Case

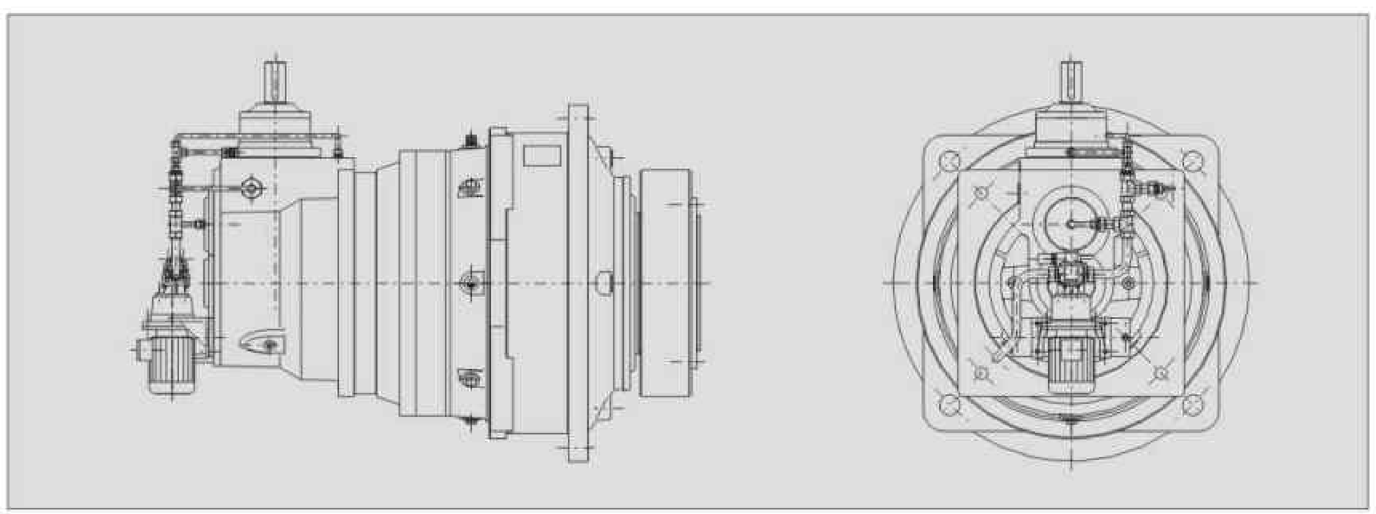
安装方位为V1, V3, V11, V31时采用润滑油补偿油箱
Assembly mode V1, V3, V11, V31 fabrication compensating oil case.



在垂直安装条件下，正常的润滑方法很难给予顶端轴承提供润滑油，为了确保润滑油的供应，齿轮箱内油量必须加高，如上图(D1,D2)所示，通过补偿油箱加高油位，补偿油箱上装有通气帽通气．油箱可被安装在齿轮 箱上，也可以安装在客户的机架上，实际尺寸和最终位置在订货时商定．

The formal fabrication ways is hard to fill the fabrication oil in the vertical assembly conditions, in order to make the supply of the fabrication oil, the oil volume in the gear units need to heighten. Just like the picture (D1, D2) shows, to enhance the oil level by compensating oil case with air vent and cap.. the oil case could be installed on the gear units as well as the customer's machine rack. The factual size and final position can be negotiated when placing an order.

水平安装时, 油泵供油如下 Horizontal installation, oil pump supply oil as follow



B51安装方位时，需配备电动泵强制循环润滑
[PK，PL为B51安装方位时所有规格（即9–34型），PS的20型以上所有规格（即21–34型）]

B51 assembly position, need the match the electric motor pump to force the cycle fabrication.
(PK, PL is B51 assembly position is suitable to type 9–34. above PS 20 type(21–34)

注：轴布置形式，请参阅13.17.

P系列行星齿轮减速机 PLANETARY GEARBOX

安装方位
Installation Position

			水平安装 Horizontal type	垂直安装 Vertical type	
同轴式齿轮箱 Concentric gearbox	0		B5	V1	V3
斜齿–行星齿轮箱 Helical–planetary gearbox	1	P.S.	*) B51 B52 B53 B54	V11	V31
伞齿–斜齿–行星齿轮箱 Bevel–helical planetary gearbox	2	P.K.	*) B51 B52 B53 B54	V11	V31
伞齿–行星齿轮箱 Bevel–planetary gearbox	3	P.L.	*) B51 B52 B53 B54	V11	V31
扭力臂安装 Torque arm assembly	5		A51 A52 A53 A54 A55 A56	*) 对于B51, V1, V3, V11, V31安装方位时，需提齿轮箱的润滑，请与我们联系。 *) For B51, V1, V3, V11, V31 installation orientation, boundary for gear lubrication, please contact us	