MTH
MTB
SERIES

## SERIES HIGH POWER REDUCTOR

## MTH／MTB系列大功率减速机



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## 直交轴齿轮箱

Types MTB2．．．，MTB3．．．，MTB4．． $2-\ldots 4-$ 级传动， $\mathrm{i}_{\mathrm{N}}=5-400$

監


Vertical mounting position Helical gear units Types MTH2．V，MTH3．V，MTH4．V $2-\ldots 4-$ stage, $\mathrm{i}_{\mathrm{N}}=6.3-450$


直交轴齿轮箱类型 MTB2．V，MTB3．V，MTB4．V

Bevel－helical gear units
Bevel－helical gear units
Types MTB2．V，MTB3．V，MTB4．V
2－．．．4－stage，$i_{N}=5-400$


## 齿轮箱 Gear Units

## 生能特点 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（根据用户要求供货）。

## 安装方式

齿轮穊既可卧式安装，也可立式安装。
如果用户提出要求，也可采用其他安装形式
安装电机用法兰，扭力支管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罟；
根据较低的最大允许油温选择齿轮箱。这样，可因换油周期加长而提高设备运行可靠性，并能降低设备维护费用。

## 库存

## 齿轮箱根据单元结构模块化设计原理，大大减少了零部件种类。

Design
－More sizes with a reduced variety of parts；
－Higher operational reliabilty combined with increased power capacity
．Flanged output shafts to facilitate assembly of gear units in confined spaces（on request），

## Mounting position

－gear unils can be supplied for either horizontal or vertical installation
－Other arrangements are also possible on request．
－Other arrangements are also possible on request．

## Noise behaviou

New concepts were applied to clearly improve the noise emission of the gear units
Designing noise－absorbing housings
Achieving exceptionally large contact ratios．
Thermal conduction
,
gear units not only have a high efficiency put als
－Through enlarged housing surface aroas；
－because large fans incorporating a new type of air conduction fan cowl are being used． －The selection of gear units is based on a lowor miaximum oil temperature．By that，the operational reliability will be increased and the cost of maintenance reduced due to longer oil change intervals． Storing
gear units have been designed according to a new unit construction principle．

齿轮箱 Gear Units
一般说明 General Information

## 注意事项：

应严格遵守以下各项：

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


## Attention：

The following items are absolutely to be observed：
－Illustrations are examples only and are not strictly binding．Dimensions are subject to change
－The weights are mean values and not strictly binding．
－To prevent accidents，all rotating parts should be guarded according to local and national safety regulations． －Prior to commissioning，the operating instructions must be observed．The gear units are delivered ready for operation but without oil filling．
－Oil quantities given are guide values only．The exact quantity of oil depends on the marks on the oildipstick．
－The oil viscosity has to correspond to the data given on the name plate．
－The gear units are supplied with radial shaft seals．Other sealing variants on request．
－Directions of rotation referring to output shaft $\mathrm{d}_{2}$ ．

## 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 |
| ---: | :--- | ---: | :--- |
| （i） | $=$ 通气孔 |  | Breather |
| （ibl | $=$ 放油孔 |  | Oil drain |
| （ail | $=$ 加油孔 |  | Oil filler |

规格 13 号以上齿轮箱箱体地脚上配有千斤顶蝭丝，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．
基础螺恮的最低性能等级为 8.8 级。
Foundation bolts of min．property class 8.8 ．

## 齿轮箱 Gear Units

6.3 型号表示方法 Designation of Types


齿轮箱 Gear Units

## 选型指南 Guidelines for the Selection

## 齿轮箱 Gear Units

## 符号说明 Key to Symbols

## 符号说明：

$\mathrm{ED}_{\mathrm{D}}=$ 每小时工作周期，以百分比表示，如 $\mathrm{E}=80 \% / \mathrm{h}$
$=$ 每小时工作周期，以百分比表示，如 $\mathrm{ED}=80 \% / \mathrm{h}$
Operating cycle per hour in $\%$ ，e．g． $\mathrm{ED}=80 \% / \mathrm{h}$
$=$ 工作机最低工况系数（表1），237页
Factor for driven machine（table 1），Pages 237
$\begin{aligned} 2= & \text { 原动机系数（ 表2 } 2 \text { ），239页 } \\ & \text { Factor for prime mover（table 2），Pages } 23\end{aligned}$
$=$ 峰值扭矩系数（表3），239页
$4, \mathrm{f}_{5}=$ 环境温度系颣（ 表 $4+$ 表5），239页
Thermal factors（tables $4+5$ ），Pages 239
$\mathrm{f}_{6,77}=$ 海拔高度系数（表6＋表7），239页
Factors for altitude（tables $6+7$ ），Pages 239
$f_{8}=$ 立式安装齿轮箱供油系数（表8），240页
Oil supply factor for vertical gear units（Table 8），Pages 240 For horizontal gear units：$f_{8}=1$
$\mathrm{f}_{6}, \mathrm{f}_{10}, \mathrm{f}_{11}, \mathrm{f}_{12}=$ 热容量系数（表9．．．14），240－241页 Therm alcapacity factors（tables $9 . . .14$ ），Pages 240－241
$\mathrm{a}_{1}=$ 规格系数
a2 $=$ Size factor
Transmission ratio factor
$=$ 实际传动比
$=$ Actual ratio
Nominal ratio
$=$ 要求传动比
$\mathrm{n}_{1}$ ．$\quad \begin{gathered}\text { Required ratio } \\ \text { 输入转速 } \\ \text {（min）}\end{gathered}$
$\mathrm{n}_{2}=\underset{\substack{\text { 辅出转速 }(\mathrm{min})}}{\substack{\text { min }}}$
Outpat speed（min）
$\mathrm{Pa}_{\mathrm{G}}=$ 要求的热容量
PG1 $=\begin{aligned} & \text { Required thermal capacity } \\ & \text { 笑箱的执容量，不带辅助冷却装置，243－251页 }\end{aligned}$
Q1 $=$ Thermal capacity
$\mathrm{P}_{\mathrm{G} 2}=$ 齿轮箱的热客 $\mathbf{1}$, 带冷却风扇，237－245页
Thermal capacity for gear units with fan cooling，pages 243－251页

－齿轮箱的势容量


$\mathrm{P}_{2}=工$ 作机的额定功率（ kW ）
$=\quad \begin{aligned} & \text { Power rating of driven machine（kW）} \\ & =\text { 环境温度 }\end{aligned}$
$=$ 环境温度（ ${ }^{\circ} \mathrm{C}$ ）
$T_{A}=$ 输入轴最大扭矩，如峰值工作扭矩，勉动扭趾或制动扭矩 $(\mathrm{N} \cdot \mathrm{m})$
Max．torque occurring on input shaft，e．g．peak operating－，starting－or braking torque（N．m）
$\mathrm{T}_{2 \mathrm{~N}}=$ 额定输出扭矩（KN $\cdot \mathrm{m}$ ），252－253页
Nominal output torque（k．m），Pages 252－253


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

## 已知参数：

原动机
电机功率： $\mathrm{P}_{1}=75 \mathrm{~kW}$
电机转速： $\mathrm{n}=1500 \mathrm{rpm}$
最大起动扭知：$T_{A}=720 \mathrm{~N} . \mathrm{m}$
工作机
皮带論送机功率： $\mathrm{P}_{2}=66 \mathrm{~kW}$
转速： $\mathrm{n} 2=26 \mathrm{rpm}$
工作制： 12 小时／天
每小时起动次数：7
每小时工作周期： $\mathrm{ED}=100 \%$
环境温度： $30{ }^{\circ} \mathrm{C}$
室外安装（风速）：$(w \geqslant 4 m / s)$
海拨高度：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 ：位于齿轮箱右㓮（面对输入轴），即布置型式 C
输出轴 $\mathrm{d}_{2}$ 转动方向：ccw

KNOWN CRITERIA： PRIME MOVER
Electric motor： $\mathrm{P}_{1}=75 \mathrm{~kW}$ Motor speed： $\mathrm{m}=1500 \mathrm{rpm}$ Max．starting Iorque： $\mathrm{T}_{\mathrm{A}}=720 \mathrm{~N} . \mathrm{m}$ DRIVEN MACHINE Belt conveyor． $\mathrm{P} 2=66 \mathrm{~kW}$ Beit conveyor． $\mathrm{P}_{2}=6 \mathrm{~B}$
Speed： $\mathrm{n}=26 \mathrm{mpm}$ Duty： 12 h／day Duty： $12 \mathrm{~h} /$ day
Starts per hour：7 Starts per hour： 7
Operating cycle per hour：E0 $=100 \%$ Ambient temperature：30 C Ambient temperature： 30 Altitude：sea level Reliability：normal GEAR UNIT DESIGN Bevel－helical gear unit Mounting position：horizontal Output shaft dz：on right hand side design C Direction of rotation of output shaft d2：ccw
要求：齿轮箱的类型及规格 Required：Type and size of gear unit
1．选择齿轮箱的类型及规格：Selection of gear unit type and size
1．1 传动比计算：Calculation of transmission ratio

$$
i_{s}=\frac{n_{1}}{n_{2}}=\frac{1500}{26}=57.7 \quad \text { in }=56
$$

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

$$
P_{n} \geqslant P_{2} \times f_{1} \times f_{2} \times S_{A}=66 \times 1.3 \times 1 \times 1.4=120 \mathrm{~kW}
$$

从额定功率表中选择：类型 MTB3，规格 10 ，对应的 $P_{N}=122 \mathrm{~kW}$
Selected from power rating table ：type MTB3，gear unit size 10 ，with $P_{N}=122 \mathrm{~kW}$

$$
3.33 \times P_{2} \geqslant P_{N} \quad 3.33 \times 66=219.8 \mathrm{~kW}>P_{N}
$$

1.3 检查起动扭矩 Checking the starting torque

$$
P_{N} \geqslant \frac{T_{A} \times n_{1}}{9550} \times f_{3}=\frac{720 \times 1500}{9550} \times 0.65=73.5 \mathrm{~kW} \quad P_{N}=122 \mathrm{~kW}>73.5 \mathrm{~kW}
$$

## 2．确定热容量 Determination of thermal capacity

2．1 根据表中给出的 MTB3 型齿轮箱参数，计算不带辅助冷却装置的齿轮箱热容量
2．1 Thermal capacity for gear units without auxiliary cooling，acc．to table for type MTB3

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


| Table 1 |  | Service Factor $\mathrm{f}_{1}$ |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Driven machines |  | Daily operating time（hou） |  |  |  | Driven machines | Dally operating time（hour） |  |  |
|  |  | ＜0．5 | ＞0．5－10 | ＞10 |  |  | ＜ 0.5 | ＞0．5～10 | ＞10 |
| Wastewater－treatment | Thickeners | － | － | 1.2 | Cranes | Slewing gears | 1 | 1.4 | 1.8 |
|  | Filter presses | 1 | 1.3 | 1.5 |  | Lifing gears | 1 | 1.4 | 1.8 |
|  | Flocculation apparata | 0.8 | 1 | 1.3 |  | Travelling goars | 1.5 | 1.75 | 2 |
|  | Aerattors | － | 1.8 | 2 |  | Hoisting years | 1 | 1.1 | 1.4 |
|  | Raking equipment | 1 | 1.2 | 1.3 |  | Derricding jib cranes | 1 | 1.2 | 1.6 |
|  | Combined longitudinal and rotary rakes | 1 | 1.3 | 1.5 | Chemica industry | Extuders | － | － | 1.6 |
|  | Pre－thickeners | － | 1.1 | 1.3 |  | Dough mills | － | 1.8 | 1.8 |
|  | Screw pumps | － | 1.3 | 1.5 |  | Rubber calenders | － | 1.5 | 1.5 |
|  | Water turbines | － | － | 2 |  | Cooling drums | － | 1.3 | 1.4 |
|  | Centifiugal pumps | 1 | 1.2 | 1.3 |  | Mixers for，uniform media | 1 | 1.3 | 1.4 |
|  |  | 1.3 | 1.4 | 1.8 |  | Mixers for，non－uniform media | 4.4 | 1.6 | 1.7 |
|  |  | 1.2 | 1.4 | 1.5 |  |  | 1 | 1.3 | 1.5 |
| Dredgers | Bucket conveyors | 1 | 1.6 | 1.6 |  |  | 1.2 | 1.4 | 1.6 |
|  | Dumping devices | 1 | 1.3 | 1.5 |  |  | 1 | 1.3 | 1.5 |
|  | Carterpillar | 1.2 | 1.6 | 1.8 |  |  | 1 | 1.2 | 13 |
|  | Bucket wheel excavators： | 1 | 1.7 | 1.7 | Fan |  | － | － | 2 |
|  | Bucket Mheel exceavators： | 1 | 2.2 | 2.2 |  |  | － | 1.4 | 1.5 |
|  | Cutter heads | 1 | 2.2 | 2.2 | Cane | Cane knives | － | － | 1.7 |
| $\begin{gathered} \text { Steel } \\ \text { industry } \end{gathered}$ |  | 1.25 | 1.5 | 1.75 | procuction | Cane mills | － | － | 1.7 |
|  |  | 1 | 1.25 | 1.5 | $\begin{gathered} \text { Beet } \\ \text { sugar } \\ \text { production } \end{gathered}$ | Beet cossettes macerators | － | － | 1.2 |
|  |  | 1.25 | 1.5 | 1.75 |  | Extraction plants．meghanic | － | － | 1.4 |
|  |  | 1.5 | 1.75 | 2 |  | Sugar beet washing machines | － | － | 1.5 |
|  |  | 1.75 | 2.25 | 2.5 |  | Sugar beet cutters | － | － | 1.5 |
|  |  | 2 | 2.25 | 2.75 | Cableways | Material ropeways | － | 1.3 | 1.4 |
| Textile industry | Loom | 1.25 | 1.5 | 1.75 |  | To－ad fris system aerial ropeways | － | 1.6 | 1.8 |
|  | Spinning machine | 1 | 1.25 | 1.5 |  | T－bar lifts | － | 1.3 | 1.4 |
|  | Washing machine | 1 | 1.25 | 1.5 |  | Continuous ropeways | － | 1.4 | 1.6 |
| Conveyors | Buckey conveyors | － | 1.2 | 1.5 | Cement industry | Concrete micers | － | 1.5 | 1.5 |
|  | Hauling winches | 1.4 | 1.6 | 1.6 |  | Breakers＊ | － | 1.2 | 1.4 |
|  | Hoists | － | 1.5 | 1.8 |  | Rotary kilns | － | － | 2 |
|  | Belt conveyors $\leqslant 150 \mathrm{kw}$ | 1 | 1.2 | 1.3 |  | Tube mills | － | $\cdot$ | 2 |
|  | Belt conveyors＞ 151 kw | 1.1 | 1.3 | 1.4 |  | Separators | － | 1.6 | 1.6 |
|  | Goods lifts＊ | － | 1.2 | 1.5 |  | Roll crushers | － | － | 2 |
|  | Passenger lifst ${ }^{*}$ | － | 1.5 | 1.8 | Papermachines | Of all kind | － | 1.8 | 2 |
|  | Apron conveyors | － | 1.2 | 1.5 |  | Pulper dives | － | 2 | 2.25 |
|  | Escalators | － | 1.2 | 1.4 | Compressor |  | － | 1.8 | 1.9 |
|  | Rail travelling gears | － | 1.5 | － |  |  | － | 1.4 | 1.5 |

Design for power rating of driven machine $P_{z}$ ：＊Designed power corresponding to max．torque．

## 齿轮箱 Gear Units

## 服务系数 Service Factor

|  | $\mathrm{f}_{2}$ |
| :---: | :---: |
| 电机，液压马达，气轮机 <br> Electric motors，hydraulic motors，tubines | 1.0 |
| 4－6作，活哭发动机周期变化 <br> 1：100至1：200 <br> Piston engines 4－6 cylinders cyclic variation <br> 1：100to 1：200 | 1.25 |
| 1－3机，活塞发动机周期変化 <br> 最高达1：100 <br> Piston engines 1－3 cyllinders cyclic variation <br> up to 1：100 | 1.5 |


| $\begin{gathered} \text { 街 } \\ \text { Table } \end{gathered}$ |  |  |  |  | ${ }_{3}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 每小时峰值负荷次数 Load peaks per hour |  |  |  |  |
|  | 1－5 |  | 6－30 | 31－100 | $>100$ |
|  | 0.5 |  | 0.65 | 0.7 | 0.85 |
|  | 0.7 |  | 0.95 | 1.10 | 1.25 |
| $\begin{gathered} 8_{4}^{4} \\ \text { rable } 4 \end{gathered}$ | 环境温度系數 Thermal factor |  |  |  | ${ }_{4}$ |
| 不带辅助冷却 Without auxiliary cooling or with fan cooling |  |  |  |  |  |
|  | $\begin{aligned} & \text { 每小时工作周期（ED）百分比\％} \\ & \text { Oprating cycle per hour（E）in }\end{aligned} \%$ |  |  |  |  |
|  | －00 | 80 | 60 | 40 | 20 |
| $10{ }^{\circ}$ | 1.14 | 1．20 | 1.32 | 1.54 | 2.04 |
| $20^{\circ} \mathrm{C}$ | － 0.00 | 1.00 | 1.16 | 1.35 | 1.79 |
| $30^{\circ}$ | 0.87 | 0.93 | 1.00 | 1.18 | 1.56 |
| $40^{\circ} \mathrm{C}$ | 0.71 | 0.75 | 0.82 | 0.96 | 1.27 |
| $50^{\circ} \mathrm{C}$ | 0.55 | 0.58 | 0.64 | 0.74 | 0.98 |
| $\underset{\substack{\text { 表5 } \\ \text { Tables }}}{ }$ | 环境温度系数 Thermal facto |  |  |  | fs |
| 带冷却盘䇾和带冷却盘管和风萛 <br> For cooling with cooling coil，or with fan and cooling coil |  |  |  |  |  |
| $\begin{aligned} & \text { 环境温度 } \\ & \text { Amblent } \\ & \text { temperature } \end{aligned}$ | 每小时工作周期（ $\mathrm{E}_{0}$ ）百分比\％ Oprating cycle per hour $\left(\mathrm{Ev}_{\mathrm{o}}\right)$ in \％ |  |  |  |  |
|  | 100 | 80 |  | 40 |  |
| $10{ }^{\circ}$ | 1.04 | 1.10 | 1.21 | 1.40 | 1.86 |
| $20^{\circ} \mathrm{C}$ | 1.00 | 1.06 | 1.16 | 1.35 | 1.79 |
| $30^{\circ}$ | 0.93 | 0.99 | 1.08 | 1.26 | 1.66 |
| $40^{\circ} \mathrm{C}$ | 0.88 | 0.93 | 1.02 | 1.19 | 1.58 |
| $50^{\circ} \mathrm{C}$ | 0.81 | 0.86 | 0.94 | 1.09 | 1.45 |


| $\begin{gathered} \text { 表6 } \\ \text { Table6 } \end{gathered}$ |  |  |  |  | to |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  Without auxiliary cooling or with fan cooling |  |  |  |  |  |
| $\begin{aligned} & \text { 系数 } \\ & \text { Factor } \end{aligned}$ | 海拔高度（ $m$ ，高于海平面） Altitude（metres above MSL |  |  |  |  |
|  |  | $\begin{aligned} & \text { 高这场 } \\ & \text { ppto } \end{aligned}$ | $\begin{aligned} & \text { 高这 } \\ & \text { Uptot } \end{aligned}$ | $\begin{gathered} \text { 高法 } \\ \text { Upto } \end{gathered}$ | $\begin{gathered} \text { 高达 } \\ \text { Upto } \end{gathered}$ |
|  | 1000 | 2000 | 3000 | 4000 | 5000 |
| $\mathrm{fo}_{6}$ | 1.0 | 0.95 | 0.90 | 0.85 | 0.80 |


| $\begin{gathered} \hline \text { 素 } \\ \text { Table7 } \end{gathered}$ | 湍拔高度系数Factor for altitude |  |  |  | $t$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 带冷却瞌管或带冷却盘管和风扇 <br> For cooling with cooling coil，or with fan and cooling coil |  |  |  |  |  |
| $\begin{aligned} & \text { 系数 } \\ & \text { Factor } \end{aligned}$ | 海坺高度 $(\mathrm{m}$, 高于海平面 $)$ Altitude（metres above MSL） |  |  |  |  |
|  | $\begin{aligned} & \text { 高这立 } \end{aligned}$ | $\begin{aligned} & \text { 高这 } \\ & \text { ppo } \end{aligned}$ | $\begin{aligned} & \text { 高这 } \\ & \hline \text { ppo } \end{aligned}$ | $\begin{aligned} & \substack{\text { 商 } \\ \text { Upo }} \end{aligned}$ | $\begin{aligned} & \text { 高达 } \\ & \text { po } \end{aligned}$ |
|  | 1000 | 2000 | 3000 | 4000 | 5000 |
| \％ | 1.0 | 0.98 | 0.96 | 0.94 | 0.92 |


| $\begin{aligned} & \text { 表15 } \\ & \text { Table15 } \end{aligned}$ | 安全系数Safety coefficient |  | SA |
| :---: | :---: | :---: | :---: |
|  |  |  | 高度安全要求起设覚。人身 Higher safety requirements， the failure of can cause the incident of equipment and huma． body． |
| SA | 1．1－1．3 | 1．3－1．5 | 1．5－1．7 |

## 齿轮箱 Gear Units 服务系数 Service Factors



## 齿轮箱 Gear Units

## 服务系数 Service Factors



## 平行轴齿箱 Helical Gear Units

类型 MTH1 Type MTH1

## 额定功率 Nominal Power Ratings

规格 1．．． 19 Sizes 1 ．．． 19
制定地草 Nomina a Power Ratings


|  | $\mathrm{n}_{1}$ | $\mathrm{n}_{1} \mathrm{n}_{2}$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 10 | 11 | 1213 | 10115 | 16 | 1718 | 18 19 | 20 | 21 | 22 | 23 | 24 | 25 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | r／min | 鹳定功車PN，KW |  |  |  |  |  |  |  |  |  | Nominal powe ratiogs PN in KW |  |  |  |  |  |  |  |  |  |  |  |
|  | 1500 | 200｜1200 | 99 |  | 327 |  | 880 |  | 671 | 2702 |  |  |  | － |  |  |  |  |  |  |  |  |  |  |
| 1.25 | 1000 | 00 800 | 66 |  | 218 |  | 586 |  | 114 | 1801 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 750 | 50600 | 50 |  | 163 |  | 440 |  | 336 | 1351 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1500 | 5001071 | 93 |  | 303 |  | 807 |  | 1559 | 2501 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.4 | 1000 | 000 714 | 62 |  | 202 |  | 538 |  | 1039 | 1667 |  |  |  |  |  |  |  | ） |  |  |  |  |  |  |
|  | 750 | 50536 | 47 |  | 152 |  | 404 |  | 88 | 1252 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1500 | 000 938 | 85 |  | 285 |  | 737 |  | 1395 | 2318 |  | 3929 |  |  |  |  | ， |  |  |  |  |  |  |  |
| 1.6 | 1000 | 000625 | 57 |  | 190 |  | 491 |  | 329 | 1545 |  | 2618 | 4123 |  |  |  |  |  |  |  |  |  |  |  |
|  | 750 | 50469 | 43 |  | 142 |  | 368 |  | 697 | 1159 |  | 1964 | 3094 |  |  |  |  |  |  |  |  |  |  |  |
|  | 1500 | 200 833 | 79 |  | 209 |  | 672 |  | 326 | 2128 |  | 3611 |  |  |  |  |  |  |  |  |  | － |  |  |
| 1.8 | 1000 | 000 556 | 53 |  | 140 |  | 448 |  | 385 | 1421 |  | 2410 | 3880 |  |  |  |  |  |  |  |  |  |  |  |
|  | 750 | 50417 | 40 |  | 105 |  | 336 |  | 664 | 1065 |  | 1808 | 2895 |  |  |  |  |  |  |  |  |  |  |  |
|  | 1500 | 00 750 | 73 |  | 196 |  | 644 |  | 1217 | 1963 |  | 3353 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 1000 | 000 500 | 49 |  | 131 |  | 429 |  | 812 | 1309 |  | 2236 | 3571 |  |  |  |  |  |  |  |  |  |  |  |
|  | 750 | 50375 | 37 |  | 98 |  | 322 |  | 609 | 982 |  | 1677 | 2678 |  | 4751 |  |  |  |  |  |  |  |  |  |
|  | 1500 | 000 670 | 67 |  | 175 |  | 589 |  | 1087 | 1754 |  | 3087 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.24 | 1000 | 000 446 | 45 |  | 117 |  | 392 |  | 24 | 1168 |  | 2055 | 3283 |  |  |  |  |  |  |  |  |  |  |  |
|  | 750 | 50335 | 34 |  | 88 |  | 295 |  | 544 | 877 |  | 1543 | 2466 | 64280 |  |  |  |  |  |  |  |  |  |  |
|  | 1500 | 00060 | 63 |  | 163 |  | 528 |  | 974 | 1571 |  | 2764 |  | － |  |  |  |  |  |  |  |  |  |  |
| 2.5 | 1000 | 000400 | 42 |  | 109 |  | 352 |  | 649 | 1047 |  | 1843 | 3016 | 64607 |  |  |  |  |  |  |  |  |  |  |
|  | 750 | 50300 | 31 |  | 82 |  | 264 |  | 487 | 785 |  | 1382 | 2262 | 2345 |  |  |  |  |  |  |  |  |  |  |
|  | 1500 | 500536 | 56 |  | 152 |  | 471 |  | 836 | 1330 |  | 2470 |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.8 | 1000 | 200 357 | 37 |  | 101 |  | 314 |  | 557 | 886 |  | 1645 | 2692 | 24224 |  |  |  |  |  |  |  |  |  |  |
|  | 750 | 50268 | 28 |  | 76 |  | 236 |  | 418 | 665 |  | 1235 | 2021 | 13171 |  | 4799 |  |  |  |  |  |  |  |  |
|  | 1500 | 00476 | 50 |  | 135 |  | 419 |  | 758 | 1221 |  | 2088 | 3409 |  |  |  |  |  |  |  |  |  |  |  |
| 3.15 | 1000 | 000317 | 33 |  | 90 |  | 279 |  | 505 | 813 |  | 1391 | 2270 | － 3850 |  |  |  |  |  |  |  |  |  |  |
|  | 750 | 50238 | 25 |  | 67 |  | 209 |  | 379 | 611 |  | 1044 | 1705 | 2891 |  | 4311 |  |  |  |  |  |  |  |  |
|  | 1500 | 00423 | 44 |  | 124 |  | 368 |  | 88 | 1103 |  | 1936 | 3083 |  |  |  |  |  |  |  |  |  |  |  |
| 3.55 | 1000 | 00028 | 30 |  | 83 |  | 245 |  | 458 | 735 |  | 1290 | 2055 | 53484 |  |  |  |  |  |  |  |  |  |  |
|  | 750 | 50211 | 22 |  | 62 |  | 183 |  | 342 | 550 |  | 966 | 1538 | 82607 |  | 3822 |  |  |  |  |  |  |  |  |
|  | 1500 | 500375 | 39 |  | 110 |  | 330 |  | 609 | 982 |  | 1728 | 2780 |  |  |  |  |  |  |  |  |  |  |  |
| 4 | 1000 | 200 250 | 26 |  | 73 |  | 220 |  | 406 | 654 |  | 1152 | 1853 | 3194 |  | 4529 |  |  |  |  |  |  |  |  |
|  | 750 | 50 188 | 20 |  | 55 |  | 165 |  | 305 | 492 |  | 866 | 1394 | 42402 |  | 3406 | 4823 |  |  |  |  |  |  |  |
|  | 1500 | 000 333 | 29 |  | 77 |  | 234 |  | 481 | 746 |  | 1395 | 2008 | 83557 |  |  |  |  |  |  |  |  |  |  |
| 4.5 | 1000 | 000 222 | 19 |  | 51 |  | 156 |  | 321 | 497 |  | 930 | 1339 | $9 \quad 2371$ |  | 3394 |  |  |  |  |  |  |  |  |
|  | 750 | 50167 | 14 |  | 38 |  | 117 |  | 241 | 374 |  | 699 | 1007 | 1784 |  | 2553 | 377 |  |  |  |  |  |  |  |
|  | 1500 | 500300 | 25 |  | 66 |  | 198 |  | 37 | 644 |  | 1059 | 1712 | 2790 |  |  |  |  |  |  |  |  |  |  |
| 5 | 1000 | 200200 | 16 |  | 44 |  | 132 |  | 251 | 429 |  | 706 | 1141 | 1860 |  | 2597 | 3644 |  |  |  |  |  |  |  |
|  | 750 | 50150 | 12 |  | 33 |  | 99 |  | 188 | 322 |  | 529 | 856 | 1395 |  | 1948 | 2733 |  |  |  |  |  |  |  |
|  | 1500 | 00 268 | 17 |  | 56 |  | 168 |  | 320 | 491 |  | 892 | 1454 | $4{ }^{2371}$ |  |  |  |  |  |  |  |  |  |  |
| 5.6 | 1000 | C00 179 | 12 |  | 37 |  | 112 |  | 214 | 328 |  | 596 | 971 | 1584 |  | 2212 | 2812 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | 160 | 246 |  |  |  | 1186 |  | 1656 | 2105 |  |  |  |  |  |  |  |



平行轴齿箱 Helical Gear Units 热容量 Thermal Capacities

## 类型 MTH1 Types MTH1 规格 1．．． 19 Sizes 1 ．．． 19




平行轴齿轮箱 Helical Gear Units
类型 MTH2．．，MTH3．．．Types MTH2．．，MTH3

## 硕定功率 Nominal Power Ratings

规格 $3 . . .26$ Sizes 3．．． 26

## wer rasting



































[^0]类型 MTH2．．，MTH3．．．Types MTH2．．，MTH3

## 热容量 Thermal Capacities

规格 3 ．．． 26 Sizes 3 ．．． 26
势客墣PG，KW Thermal capacities PG in KW
 Pactan cooling，Pas：cooling coil，Pas：tan and cooling coil
Pa


额定功率 Nominal Power Ratings
规格5．．． 26 Sizes 5．．． 26列
ng

## 平行轴齿轮箱 Helical Gear Units <br> 类型 MTH3．，，MTH4．．．Types MTH3．．，MTH4．．． <br> 热容量 Thermal Capacities <br> 规格 5 ．．． 26 Sizes 5．．． 26



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| in |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
|  |  |  <br> Thermal capacity PG（in KW）dependent on kind of cooling； <br> Pg1 without auxiliary cooling．PG2：fan cooling，PG3：cooling coil，PG4．fan and cooling coil． |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40 | $\begin{array}{\|l\|l\|} \hline \mathrm{Pad} \\ \mathrm{~Pa} \\ \mathrm{Pas} \\ \mathrm{Pas} \\ \hline \end{array}$ | 48.1 <br> 585.3 <br> 79.3 <br> 88.6 | $\begin{aligned} & 56.6 \\ & \begin{array}{l} 5.6 \\ 92.4 \\ 1.4 \end{array} \end{aligned}$ | $\begin{aligned} & 74.6 \\ & \left.\begin{array}{l} 72.8 \\ 132 \\ 129 \end{array} \right\rvert\, \end{aligned}$ | $\begin{aligned} & 860.8 \\ & 107 \\ & 151 \\ & 170 \end{aligned}$ | $\begin{array}{\|l\|} \hline 101 \\ 127 \\ 191 \\ 214 \end{array}$ | $\begin{aligned} & 1110 \\ & 137 \\ & 248 \\ & 272 \end{aligned}$ | $\begin{aligned} & 149 \\ & 190 \\ & 312 \\ & 312 \\ & 349 \end{aligned}$ | $\begin{array}{l\|} \hline 180 \\ 228 \\ 359 \\ 402 \end{array}$ | $\begin{aligned} & 204 \\ & 251 \\ & 403 \\ & 446 \end{aligned}$ | $\begin{array}{l\|} \hline 236 \\ 291 \\ 467 \\ 517 \end{array}$ | $\begin{array}{\|l\|} \hline 284 \\ 371 \\ 639 \\ 717 \end{array}$ | $\begin{array}{\|c\|} \hline 304 \\ 398 \\ 686 \\ 680 \\ 770 \end{array}$ | $\begin{aligned} & \hline 300 \\ & 382 \\ & 641 \\ & 711 \\ & \hline 71 \end{aligned}$ | $\begin{array}{\|l\|} \hline 322 \\ 409 \\ 683 \\ 683 \\ 770 \end{array}$ | 390 | 416 | 517 | 537 | 754 | 784 | 902 | 938 |
| 45 | $\begin{array}{\|l\|} \hline \mathrm{Pat} \\ \mathrm{Pas} \\ \mathrm{Pas} \\ \mathrm{Pas} \\ \hline \mathrm{~Pa} \\ \hline \end{array}$ | $\begin{array}{\|} \hline 45.0 \\ 55.7 \\ 74.9 \\ 88.8 \\ \hline \end{array}$ | $\begin{aligned} & 54.9 \\ & 6.2 \\ & 88.3 \\ & 98.7 \end{aligned}$ | $\begin{array}{\|} 71.8 \\ 89 \\ 126 \\ 142 \end{array}$ | $\begin{array}{\|l\|} \hline 84.1 \\ 144 \\ 143 \\ 163 \\ \hline \end{array}$ | $\begin{aligned} & 97.2 \\ & 121 \\ & 181 \\ & 182 \\ & 203 \end{aligned}$ | $\begin{array}{\|l\|} \hline 107 \\ 133 \\ 238 \\ 281 \end{array}$ | $\begin{aligned} & 148 \\ & 189 \\ & 305 \\ & 305 \\ & 342 \end{aligned}$ | $\begin{aligned} & 173 \\ & 219 \\ & 341 \\ & 382 \end{aligned}$ | $\begin{aligned} & 195 \\ & 240 \\ & 379 \\ & 419 \\ & \hline \end{aligned}$ | $\begin{aligned} & 27 \\ & 280 \\ & 444 \\ & 491 \end{aligned}$ | $\begin{aligned} & 282 \\ & 388 \\ & 626 \\ & 7 \\ & 702 \end{aligned}$ | $\begin{aligned} & 293 \\ & \hline 38 \\ & \hline 848 \\ & 648 \\ & 7725 \end{aligned}$ | $\begin{array}{\|l\|} \hline 297 \\ 377 \\ 627 \\ 695 \\ \hline 9 \end{array}$ | $\begin{aligned} & 309 \\ & 392 \\ & 844 \\ & 844 \\ & 776 \end{aligned}$ | 386 | 401 | 501 | 524 | 745 | 75 | 891 | 927 |
| 50 |  | $\begin{aligned} & 44.4 \\ & \begin{array}{l} 44.4 \\ 5.3 \\ 72.3 \\ 80.9 \end{array} \\ & \hline 8 \end{aligned}$ | $\begin{aligned} & 51.7 .7 \\ & 6.2 .2 \\ & 82.0 \\ & 91.7 \end{aligned}$ | $\begin{aligned} & 67.6 \\ & 8.37 \\ & 118 \\ & 133 \\ & 13 \end{aligned}$ | $\begin{aligned} & 79.8 \\ & 98.0 \\ & 138 \\ & 152 \\ & 158 \end{aligned}$ | $\begin{array}{\|l\|} \hline 94.9 \\ 118 \\ 177 \\ 197 \\ \hline 1 \end{array}$ | $\begin{aligned} & 101 \\ & 101 \\ & 125 \\ & 221 \\ & 242 \end{aligned}$ | $\begin{aligned} & 145 \\ & 184 \\ & 299 \\ & 334 \end{aligned}$ | $\begin{aligned} & 166 \\ & 210 \\ & 322 \\ & 360 \\ & 360 \end{aligned}$ | $\begin{array}{\|l\|} \hline 191 \\ 293 \\ 369 \\ 408 \\ \hline \end{array}$ | $\begin{aligned} & 219 \\ & 269 \\ & 419 \\ & 465 \end{aligned}$ | $\begin{array}{\|l\|} \hline 281 \\ 362 \\ 619 \\ 691 \end{array}$ | $\begin{aligned} & 291 \\ & \begin{array}{l} 278 \\ 378 \\ 634 \\ 710 \end{array} \end{aligned}$ | 292 368 613 681 | $\begin{aligned} & 306 \\ & 336 \\ & 688 \\ & 708 \\ & 70 \end{aligned}$ | 379 | 395 | 500 | 508 | 736 | 765 | 880 | 915 |
| 56 |  | 42.1 <br> 50.7 <br> 67.9 <br> 75.6 | $\begin{aligned} & 49.6 \\ & 59.5 \\ & 7.6 \\ & 86.9 \end{aligned}$ | $\begin{aligned} & 64.4 \\ & 9.4 \\ & 111 \\ & 125 \\ & 125 \end{aligned}$ | $\begin{array}{\|l\|} \hline 76.7 \\ 94.1 \\ 129 \\ 129 \\ 145 \end{array}$ | $\begin{aligned} & 90.3 \\ & 112 \\ & 165 \\ & 185 \\ & 18 \end{aligned}$ | $\begin{aligned} & 97.0 \\ & 120 \\ & 209 \\ & 209 \\ & 229 \end{aligned}$ | $\begin{aligned} & 134 \\ & 170 \\ & 271 \\ & 302 \\ & 302 \end{aligned}$ | $\begin{array}{l\|} \hline 165 \\ 208 \\ 315 \\ 353 \end{array},$ | $\begin{array}{\|l\|} 184 \\ 25 \\ 349 \\ 399 \\ 386 \end{array}$ | $\begin{aligned} & 209 \\ & 256 \\ & 394 \\ & 437 \end{aligned}$ | $\begin{aligned} & 267 \\ & 364 \\ & 37 \\ & 54 \\ & 645 \end{aligned}$ | $\begin{aligned} & 289 \\ & \begin{array}{c} 231 \\ 826 \\ 626 \\ 698 \end{array} \\ & \hline \end{aligned}$ | $\begin{aligned} & 278 \\ & \hline 35 \\ & 578 \\ & 574 \\ & 636 \end{aligned}$ | $\begin{aligned} & 300 \\ & 337 \\ & 617 \\ & 684 \\ & 684 \end{aligned}$ | 362 | 388 | 47 | 506 | 720 | 74 | 861 | 895 |
| 63 | Pal <br> Pas <br> Pas <br> Pa | $\begin{aligned} & 39.6 \\ & 47.6 \\ & 62.9 \\ & 70.2 \\ & \hline 8.2 \end{aligned}$ | $\begin{aligned} & 47.7 \\ & 57.1 \\ & 74.9 \\ & 83.8 \end{aligned}$ | $\begin{aligned} & 60.0 \\ & 73.8 \\ & 102 \\ & 114 \\ & \hline \end{aligned}$ | $\begin{array}{\|l\|} \hline 72.4 \\ 88.5 \\ 121 \\ 136 \\ \hline 1 \end{array}$ | $\begin{array}{\|l\|} \hline 85.3 \\ 105 \\ 153 \\ 132 \\ \hline \end{array}$ | $\begin{aligned} & 94.7 \\ & 116 \\ & 204 \\ & 204 \\ & \hline 20 \end{aligned}$ | $\begin{aligned} & 127 \\ & 100 \\ & 251 \\ & 250 \\ & 280 \end{aligned}$ | $\left.\begin{gathered} 161 \\ 202 \\ 309 \\ 345 \end{gathered} \right\rvert\,$ | $\begin{aligned} & 177 \\ & 212 \\ & 325 \\ & 359 \\ & \hline 359 \end{aligned}$ | $\begin{aligned} & 204 \\ & 249 \\ & 384 \\ & 425 \end{aligned}$ | $\begin{aligned} & 252 \\ & 332 \\ & 533 \\ & 533 \\ & 596 \end{aligned}$ | $\begin{aligned} & 275 \\ & \begin{array}{l} 275 \\ 353 \\ 589 \\ 653 \end{array} \\ & \hline 6 \end{aligned}$ | $\begin{aligned} & 262 \\ & 329 \\ & 350 \\ & 530 \\ & 589 \end{aligned}$ | $\begin{aligned} & 286 \\ & 357 \\ & 576 \\ & 640 \\ & 640 \end{aligned}$ | 338 | 371 | 456 | 482 | 697 | 24 | 834 | 867 |
|  | $\left\|\begin{array}{l} \mathrm{Pas} \\ \mathrm{P}_{6} \\ \mathrm{P}_{63} \\ \mathrm{P}_{64} \end{array}\right\|$ | $\begin{aligned} & 39.2 \\ & 49.2 \\ & 78.2 \\ & 62.2 \\ & 99.4 \end{aligned}$ | $\begin{aligned} & 45.2 \\ & 5.0 \\ & 70.2 \\ & 78.2 \\ & 7.2 \end{aligned}$ | $\begin{aligned} & 58.2 \\ & 7.3 \\ & 97.9 \\ & 110 \end{aligned}$ | $\begin{aligned} & 68.9 \\ & 84.1 \\ & 113 \\ & 127 \\ & \hline \end{aligned}$ | $\begin{array}{\|l\|} \hline 83.4 \\ 103 \\ 150 \\ 167 \\ 10 \end{array}$ | $\begin{array}{\|l\|l\|} \hline 90.1 \\ 111 \\ 191 \\ 209 \end{array}$ | $\begin{aligned} & 124 \\ & 155 \\ & 242 \\ & 242 \\ & 270 \end{aligned}$ | $\begin{aligned} & 150 \\ & 187 \\ & 279 \\ & 312 \end{aligned}$ | $\begin{array}{\|l\|l} 169 \\ 260 \\ 310 \\ 340 \\ 343 \end{array}$ | $\begin{aligned} & 197 \\ & 239 \\ & 364 \\ & 403 \end{aligned}$ | $\begin{aligned} & 245 \\ & 334 \\ & 513 \\ & 513 \\ & 573 \end{aligned}$ | $\begin{aligned} & 260 \\ & \begin{array}{c} 262 \\ 332 \\ 540 \\ 604 \end{array} \\ & 60 \end{aligned}$ | $\begin{aligned} & 252 \\ & \begin{array}{l} 252 \\ 335 \\ 507 \\ 564 \end{array} \\ & \hline \end{aligned}$ | $\begin{gathered} 270 \\ 337 \\ 534 \\ 594 \\ 592 \end{gathered}$ | 333 | 346 | 431 | 461 | 669 | 696 | 800 | 832 |
| 80 | $\begin{array}{\|c\|} \hline \\ P_{0} \\ P_{0} \\ P_{a s} \\ P_{\text {OA }} \end{array}$ | $\begin{array}{\|c\|} \hline 37.2 \\ 14.5 \\ 57.8 \\ \hline 84.8 \\ \hline 84 . \\ \hline \end{array}$ | $\begin{aligned} & 42.6 \\ & 56.6 \\ & 6.2 \\ & 78.2 \\ & 72.8 \end{aligned}$ | $\begin{aligned} & 56.8 \\ & 6.6 .6 \\ & 94.2 \\ & 106 \end{aligned}$ | $\begin{aligned} & 64.3 \\ & 7.2 \\ & 104 \\ & 117 \end{aligned}$ | $\begin{array}{\|l\|l\|} \hline 78.9 \\ 98.8 \\ \hline 139 \\ 156 \end{array}$ | $\begin{array}{\|l\|} \hline 85.1 \\ 174 \\ 177 \\ 194 \\ 190 \end{array}$ | $\begin{aligned} & 117 \\ & 146 \\ & 223 \\ & 250 \\ & 250 \end{aligned}$ | $\begin{aligned} & 141 \\ & 176 \\ & 259 \\ & 290 \\ & 290 \end{aligned}$ | $\begin{aligned} & 164 \\ & 199 \\ & 299 \\ & 393 \\ & \hline \end{aligned}$ | $\begin{aligned} & 186 \\ & 268 \\ & 338 \\ & 375 \end{aligned}$ | $\begin{aligned} & 236 \\ & 30 \\ & 484 \\ & 442 \\ & 542 \end{aligned}$ | $\begin{aligned} & 252 \\ & \begin{array}{l} 252 \\ 331 \\ 519 \\ 580 \end{array} \\ & \hline \end{aligned}$ | $\begin{aligned} & 242 \\ & 302 \\ & 479 \\ & 532 \end{aligned}$ | $\begin{aligned} & 259 \\ & 259 \\ & 323 \\ & 511 \\ & 567 \end{aligned}$ | 315 | 341 | 411 | 435 | 655 | 681 | 783 | 814 |
| 90 |  |  | $\begin{aligned} & 42.2 \\ & 5.2 \\ & 6.6 \end{aligned}$ | $\begin{aligned} & 53.7 \\ & 6.7 \\ & 37.1 \\ & 98.3 \end{aligned}$ | $\begin{array}{\|c\|} \hline 62.2 \\ 75.4 \\ 100 \\ 1 \\ \hline 113 \end{array}$ | $\begin{array}{\|l\|} \hline 74.9 \\ 99.8 \\ 129 \\ 145 \end{array}$ | $\begin{array}{\|l\|l} \hline 830 \\ 101 \\ 173 \\ 178 \\ 189 \end{array}$ | $\begin{aligned} & 113 \\ & 141 \\ & 214 \\ & 240 \\ & 240 \end{aligned}$ | $\begin{aligned} & 138 \\ & 171 \\ & 250 \\ & 280 \end{aligned}$ | $\begin{array}{\|l\|l\|} \hline 153 \\ 188 \\ 274 \\ 304 \\ \hline \end{array}$ | $\begin{aligned} & 180 \\ & 28 \\ & 323 \\ & 357 \\ & 35 \end{aligned}$ | $\begin{aligned} & 222 \\ & 282 \\ & 448 \\ & 501 \\ & 50 \end{aligned}$ | $\begin{aligned} & 243 \\ & 238 \\ & 308 \\ & 490 \\ & 549 \end{aligned}$ | $\begin{aligned} & 228 \\ & 284 \\ & 443 \\ & 493 \\ & \hline \end{aligned}$ | $\begin{aligned} & 248 \\ & 209 \\ & 309 \\ & 483 \\ & 537 \end{aligned}$ | 299 | 322 | 399 | 415 | 627 | 652 | 750 | 780 |
| 100 |  |  | $\begin{aligned} & 40.0 \\ & 4.5 \\ & 4.5 \\ & 6.0 \\ & 67.2 \end{aligned}$ |  | $\left\|\begin{array}{c} 609 \\ 77.8 \\ 96.7 \\ 109 \end{array}\right\|$ |  | $\left\|\begin{array}{l} 78.8 \\ 95.9 \\ 181 \\ 175 \end{array}\right\|$ | 99.5 | $\left[\left.\begin{array}{l} 130 \\ 161 \\ 231 \\ 259 \end{array} \right\rvert\,\right.$ | ${ }^{133}$ | $\left.\begin{array}{\|l\|} 175 \\ 212 \\ 211 \\ 311 \\ 344 \end{array}\right]$ | 179 | $\begin{array}{\|c} 228 \\ \begin{array}{c} 289 \\ 489 \\ 453 \\ 507 \end{array} \\ \hline \end{array}$ | 201 | $\begin{aligned} & 234 \\ & \left.\begin{array}{l} 234 \\ 490 \\ 447 \\ 497 \end{array} \right\rvert\, \end{aligned}$ | 282 | 306 | 388 | 403 | 509 | 632 | 611 | 756 |
| 112 | $\begin{array}{\|l\|} \hline \mathrm{Pat} \\ \mathrm{Pas} \\ \mathrm{Pas} \\ \mathrm{Pas} \\ \mathrm{~Pa} \end{array}$ |  | 39.5 4．0．0 58.5 68.5 | 46.3 | $\begin{aligned} & 57.6 \\ & 59.8 \\ & 89.6 \\ & 89.6 \\ & 101 \\ & \hline \end{aligned}$ |  | $\begin{aligned} & 74.9 \\ & 9.12 \\ & 149 \\ & 164 \\ & \hline 1 \end{aligned}$ | 98.7 | 126 <br> 156 <br> 222 <br> 249 <br> 24 |  | 184 <br> 198 <br> 286 <br> 317 | 171 | 184 | 192 | 206 | 270 | 289 | 379 | 392 | 498 | 518 | 596 | 620 |
| 125 | P ${ }^{\text {ct }}$ |  |  | 44.9 | 51.6 | 62.1 | 67.3 | 94.6 | 110 | 126 | 142 | 165 | 17 | 185 | 197 | 261 | 276 | 367 | 383 | 488 | 508 | 584 | 607 |
| 140 | Pa1 |  |  | 42.6 | 49.5 | 60.1 | 64.4 | 9．${ }^{\text {a }}$ | 109 | 122 | 138 | 159 | 170 | 178 | 190 | 251 | 267 | 347 | 371 | 475 | 494 | 568 | 591 |
| 160 | Par |  |  | 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 | Par |  |  | 39.4 | 45.6 | 54.4 | 60.4 | 83.9 | 101 | 111 | 130 | 150 | 15 | 167 | 175 | 230 | 247 | 328 | 336 | 439 | 457 | 525 | 546 |
| 200 | Pat |  |  | 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 | P＊1 |  |  | 35.7 | 42.0 | 50.5 | 54.6 | 75.9 | 92.8 | $1{ }^{\circ}$ | 118 | 138 | 150 | 150 | 166 | 213 | 227 | 295 | 312 | 428 | 445 | 512 | 532 |
| 250 | P ${ }_{\text {P }}$ |  |  | 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 | Pat |  |  | 33.1 | 38.2 | 46.8 | 50.8 | 69.4 | 84.3 | 94.9 | 100 | 125 | 132 | 139 | 147 | 194 | 207 | 268 | 281 | 388 | 404 | 467 | 486 |
| 315 | Par |  |  | 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 | Pat |  |  | 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 | Par |  |  |  | 34.8 |  | 44.9 |  | 75.1 |  | 97.1 |  | 120 |  | 134 |  | 185 |  | 248 |  | 359 |  | 429 |
| 450 | Par |  |  |  | 33.1 |  | 44.1 |  | 71.4 |  | 92.6 |  |  |  |  |  |  |  |  |  |  |  |  |

直交轴齿轮箱 Bevel－helical Gear Units
类型 MTB2．．，MTB3．．．Types MTB2．．，MTB3

## 额定功率 Nominal Power Ratings

规格 1．．． 26 Sizes 1．．． 26
制定功草 Nominal Dower ratings

| in |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1011 | $12{ }^{13}$ |  | 14 | $146$ |  |  | 19 | $20$ |  | ${ }_{21}$ | 23 |  | 25 26 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5 | 150030 | 300 | 36 | 63 | 97 | 182 | 295 |  | 559 |  | 880 |  | 1351 |  | 2073 |  |  |  |  |  |  |  |  |  |  |  |
|  | 100020 | 200 | 24 | 42 | 65 | 121 | 197 |  | 373 |  | 586 |  | 901 |  | 1382 |  | 2555 |  |  |  |  |  |  |  |  |  |
|  | 75015 | 150 | 18 | 31 | 49 | 91 | 148 |  | 280 |  | 440 |  | 675 |  | 1037 |  | 1916 |  |  |  |  |  |  |  |  |  |
| 5.6 | 150026 | 268 | 32 | 56 | 87 | 163 | 264 |  | 500 |  | 786 |  | 1263 |  | 1880 |  |  |  |  |  |  |  |  |  |  |  |
|  | 100017 |  | 22 | 37 | 58 | 109 | 176 |  | 334 |  | 525 |  | 843 |  | 1256 |  | 2287 |  |  |  |  |  |  |  |  |  |
|  | 75013 | 134 | 16 | 28 | 43 | 81 | 132 |  | 250 |  | 393 |  | 631 |  | 940 |  | 171218 | 1894273 |  |  |  |  |  |  |  |  |
| 6.3 | 150023 | 238 | 29 | 50 | 77 | 145 | 234 | 299 | 444 | 556 | 698 | 887 | 1171 | 137117 | 176920 | 044 |  |  |  |  |  |  |  |  |  |  |
|  | 100015 |  | 19 | 33 | 52 | 97 | 157 | 200 | 296 | 371 | 466 | 593 | 783 | 91611 | 118213 | 1365216 | 216423 | 3348 |  |  |  |  |  |  |  |  |
|  | 75011 | 119 | 14 | 25 | 39 | 72 | 117 | 150 | 222 | 278 | 349 | 444 | 586 | 685 | 88510 | 1022162 | 1620175 | 757243 |  |  |  |  |  |  |  |  |
| 7.1 | 15002 | 211 | 25 | 44 | 68 | 128 | 208 | 265 | 393 | 493 | 619 | 787 | 1083 | ． 125916 | 161318 | 1856 |  |  |  |  |  |  |  |  |  |  |
|  | 10001 |  | 17 | 30 | 46 | 86 | 139 | 177 | 263 | 329 | 413 | 526 | 723 |  | 107812 | 124019 | 194921 | 141287 |  |  |  |  |  |  |  |  |
|  | 75010 | 106 | 13 | 22 | 34 | 64 | 104 | 133 | 198 | 248 | 311 | 395 | 544 | 6338 | 810 | 932146 | 1465160 | 1609216 | 164255 |  |  |  |  |  |  |  |
| 8 | 150018 | 0188 | 23 | 39 | 61 | 114 | 185 | 236 | 350 | 439 | 551 | 701 | 994 |  | 151617 | 173259 | 2598 |  |  |  |  |  |  |  |  |  |
|  |  |  | 15 | 26 | 41 | 76 | 123 | 157 | 233 | 292 | 366 | 466 | 661 | 72 10 | 100811 | 1152172 | 172819 | 1937255 |  |  |  |  |  |  |  |  |
|  | 7509 |  | 11 | 20 | 31 | 57 | 93 | 118 | 175 | 219 | 276 | 350 | 497 | 5817 | 7588 | 866129 | 1299145 | 1457191 | 919226 |  |  |  |  |  |  |  |
| 9 | 150016 |  | 20 | 35 |  | 101 | 164 | 210 | 311 | 390 | 490 | 623 | 883 |  | 136415 | 1591230 | 230925 |  |  |  |  |  |  |  |  |  |
|  | 10001 |  | 13 | 23 | 36 | 67 | 109 | 139 | 207 | 259 | 325 | 414 | 587 | 7099 | 90710 | 105815 | 1534172 | 720226 | 266267 |  |  |  |  |  |  |  |
|  | 7508 |  |  |  |  |  | 82 | 104 | 155 | 194 | 243 | 309 | 439 | 5306 |  |  | 1147128 | 286169 | 6951999 |  |  |  |  |  |  |  |
| 10 | 150015 |  | 18 | 31 | 49 | 91 | 148 | 188 | 280 | 350 | 440 | 559 | 793 | 97412 | 122514 | 1492207 | 2073232 | 225 |  |  |  |  |  |  |  |  |
|  |  |  | 12 | 21 | 32 | 61 | 98 | 126 | 186 | 234 | 293 | 373 | 529 | 6498 | 8179 | 995138 | 1382155 | 155020 | 042240 |  |  |  |  |  |  |  |
|  | 7507 |  | 9 | 16 | 24 | 46 | 74 | 94 | 140 | 175 | 220 | 280 | 397 | 4876 | 613 |  | 1037112 | 162153 |  |  |  |  |  |  |  |  |
|  | 150013 |  | 16 | 28 | 43 | 81 |  |  |  | 313 | 3935 | 500 | 709 | 87010 |  | 1368185 | 185220 | 27 |  |  |  |  |  |  |  |  |
|  |  |  | 11 | 19 | 29 | 54 | 88 | 112 | 166 | 208 | 261 | 332 | 471 | 578 | 727 | 909123 | 123013 | 379181 | 8172143 |  |  |  |  |  |  |  |
|  | 7506 |  | 8.1 | 14 | 22 | 41 | 66 | 84 | 125 | 156 | 196 | 250 | 354 |  |  |  |  | 1038136 | 368161 |  |  |  |  |  |  |  |
|  |  |  |  |  |  | 69 | 118 |  | 214 | 280 | 352 | 447 | 635 |  |  |  | 165918 | 1860245 |  |  |  |  |  |  |  |  |
|  |  |  | 10 | 17 | 26 | 46 | 79 | 101 | 142 | 187 | 235 | 298 | 423 | 5196 | 6538 | 817110 | 110012 | 2401163 | 634192 |  |  | 940 |  |  |  |  |
|  | 7506 | 60 | 7.2 | 13 | 19 | 35 | 59 | 75 | 107 | 140 | 176 | 224 | 317 | 390 | 490 | 61382 | 82919 |  |  |  |  | 136 |  |  |  |  |
| 14 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  | 8.5 | 15 | 23 | 45 | 73 | 89 | 135 | 166 | 219 | 265 | 394 | 4615 | 5957 | 725101 | 1019110 | 100145 | 450171 | 10194 | 482193 |  |  |  |  |  |
|  | 7505 | 54 | 6.5 | 11 | 18 | 34 | 55 | 68 | 103 | 126 | 167 | 201 | 300 | 351 | 452 | 55177 | 775 | 837110 | 103130 | 01148 | 811688 | 820 |  |  |  |  |
| 16 | 15009 |  | 11 | 19 | 31 | 61 | 100 | 118 | 188 | 212 | 305 | 350 | 551 | 6108 | 8179 | 960138 | 139815 | 151919 | 969226 |  |  |  |  |  |  |  |
|  |  |  | 7.3 | 13 | 20 | 41 | 67 | 79 | 126 | 142 | 205 | 235 | 369 | 4095 | 5486 | 64393 | 93710 | 1016131 | 319151 | 17181 | 142032 | 22507 |  |  |  |  |
|  | 750 | 47 | 5.4 | 9.6 | 15 | 31 | 50 | 59 | 94 | 106 | 153 | 175 | 276 | 305 | 40848 | 48069 | 69975 | 75898 | 9841132 | 32135 | 531516 | 61870 | 22077 |  |  |  |
| 18 | 15008 | 83 | 9 | 16 | 26 | 56 | 92 | 110 | 172 | 201 | 282 | 326 | 504 | 5657 | 73986 | 869128 | 1286130 |  | 738208 |  |  |  |  |  |  |  |
|  | 10005 |  | 6 | 11 | 18 | 38 | 62 | 74 | 116 | 135 | 191 | 220 | 340 | 381 | 4985 | 58686 | 868 |  |  |  |  |  |  |  |  |  |
|  | 750 | 42 | 4.5 | 7.9 | 13 | 28 | 47 | 55 | 87 | 102 | 143 | 165 | 255 | 286 | 374 | 44065 | 65170 | 70488 | 3801055 | 55126 |  | 71759 |  |  |  |  |
| 20 | 15007 | 75 |  |  | 28 | 52 | 86 | 104 | 161 | 488 | 267 | 309 | 474 | 5346 | 69180 | 809120 | 120213 |  | 571188 |  |  |  |  |  |  |  |
|  | 10005 | 50 |  |  | 19 | 35 | 58 | 69 | 107 | 125 | 178 | 206 | 314 | 356 | 4615 | 53980 | 80187 | 874104 | 047125 | 57157 | 711738 | 82199 | 22382 | 2932 |  |  |
|  | 750 | 38 |  |  | 14 | 26 | 44 | 53 | 82 | 95 | 135 | 156 | 239 | 271 | 350 | 41060 | 6096 | 665796 | 79695 | 55119 | 1941321 | 11671 | 118102 |  |  |  |
|  | 15006 | 67 |  |  | 25 | 46 | 77 | 97 | 144 | 174 | 239 | 288 | 421 | 5056 | 6177 | 744107 | 107312 | 214140 | 403188 | 84210 | 052420 |  |  |  |  |  |
|  | 41000 | 45 |  |  | 17 | 31 | 52 | 65 | 97 | 117 | 160 | 193 | 283 | 3394 | 4154 | 49972 | 72181 | 81594 | 942113 | 13141 | 141626 | 61979 | 92215 |  | 3015 |  |
|  | 750 | 33 |  |  | 12 | 23 | 38 | 48 | 71 | 86 | 117 | 142 | 207 | 249 | 30436 | 36652 | 52959 | 59869 | 691829 | 29103 | 37 1192 |  | 511624 | 19 | 2 | 22764 |
| 25 | 1500 | 60 |  |  | 23 | 41 | 69 | 91 | 129 | 160 | 214 | 270 | 377 | 4715 | 5536 | 685 | 961108 |  | 257150 | 08188 | 852188 |  |  |  |  |  |
|  | 1000 | 40 |  |  | 15 | 28 | 46 | 61 | 86 | 107 | 142 | 180 | 251 | 314 | 3694 | 45764 | 64172 | 72583 | 3381005 | 05125 | 571445 | 51759 | 99692 | 2346 | 2681 |  |
|  | 750 | 30 |  |  | 11 | 21 | 35 | 46 | 64 | 80 | 107 | 135 | 188 | 236 | 276 | 34248 | 48154 | 54362 | ${ }^{28} 754$ | 54942 | 421084 | 41319 | 14761 | 1759 | 2010 | 2513 |
|  | 1500 |  |  |  | 20 | 37 | 62 | 82 | 116 | 144 | 192 | 243 | 339 | 424 | 4986 | 61686 | 86597 | 978113 |  |  | 961950 | 02375 |  |  |  |  |
|  | 1000 | 36 |  |  | 14 | 25 | 41 | 55 | 7 | 96 | 128 | 162 | 226 | 283 | 332 | 41157 | 57765 | 65275 | 754905 | 5 113 | 131301 | 1158 | 31772 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## 直交轴齿轮箱 Bevel－helical Gear Units 热容量 Thermal Capacities

## 类型 MTB2．．，MTB3．．．Types MTB2．．，MTB3．．．规格 1．．． 26 Sizes 1．．． 26



直交轴齿轮箱 Helical Gear Units 额定功率 Nominal Power Ratings
类型 MTB3．．，MTB4．．Types MTB3．．，MTB4．．
规格 $3 . . .26$ Sizes $3 . . .26$

教定功率 Nomin e power ratings



## 直交轴齿轮箱 Bevel－helical Gear Units

## 类型 MTB3．．，MTB4．．Types MTB3．，，MTB4．

## 热容量 Thermal Capacities

格客量 PG， kW Thermal capacities PG in kW

















| 100 |
| :--- |
| 112 |
| 125 |
| 140 |
| 180 |
| 180 |

















平行轴齿轮箱 Helical Gear Units
类型 MTH1．．，MTH2．．，MTH3．．，MTH4
额定输出扬矩 Nominal Output Torques
Types MTH1．．，MTH2．．，MTH3．．，MTH4．
规格 1．． 26 Sizes1．．． 26

## 直交轴齿轮箱 Bevel－helical Gear Units

## 类型 MTB2．．，MTB3．．，MTB4．．Types MTB2．．，MTB3．．，MTB4．．规格 $1 . .26$ Sizes1．．． 26



| in |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 1 | 13 | 4 | 5 | 6 | 7 | 8 | ${ }^{1}$ | ｜ 10 |  | 12 | 13 | ｜ 14 | ｜ 45 | 16 |  | 18 | 19 |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.25 | 0.79 | 9 2.6 |  | 7 |  | ${ }^{13.3}$ |  | 21.5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.4 | 0.83 | 32.7 |  | 7.2 |  | 13.9 |  | 22.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1.6 | 0.87 | 72.9 |  | 7.5 |  | 14.2 |  | 23.6 |  | 40 |  | 63 |  |  |  |  |  | ， |  |  |  |  |  |  |  |
| 1.8 | 0.91 | 12.4 |  | 7.7 |  | 15.2 |  | 24.4 |  | 41.4 |  | 66.3 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2 | 0.93 | 32.5 |  | 8.2 |  | 15.5 |  | 25 |  | 42.7 |  | 68.2 |  | 121 |  |  |  |  |  | － |  |  |  |  |  |
| 2.24 | 0.96 | 62.5 |  | 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 | 22.2 |  | 6.7 |  | 13.8 |  | 21.4 |  | 40 |  | 57.6 |  | 102 |  | 146 |  | 216 |  |  |  |  |  |  |  |
| 5 | 0.78 | 82.1 |  | 6.3 |  | 12 |  | 20.5 |  | 33.7 |  | 54.5 |  | 88.8 |  | 124 |  | 174 |  |  |  |  |  |  |  |
| 5.6 | 0.62 | 22 |  | 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 | 539.5 | 55.5 | 69 | 86 | 107 | 143 | 180 | 195 | 230 | 292 | 335 | 410 | 458 |  |  |  |  |
| 9 |  | 3.5 | 6.3 | 10.5 | 13.5 | 19 | 24 | 31.5 | 5 39.5 | 55.5 | 69 | 86 | 107 | 143 | 180 | 195 | 230 | 292 | 335 | 410 | 458 | 540 |  |  |  |
| 10 |  | 3.5 | 6.3 | 10.5 | 13.5 | 19 | 24 | 31.5 | 5 39.5 | 55.5 | 69 | 86 | 107 | 143 | 180 | 195 | 230 | 292 | 335 | 410 | 458 | 540 | 620 |  |  |
| 11.2 |  | 3.5 | 6.3 | 10.5 | 13.5 | 19 | 24 | 31.5 | 539.5 | 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 | 539.5 | 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 | 539.5 | 55.5 | 69 | 86 | 107 | 143 | 160 | 195 | 230 | 292 | 3354 | 410 | 458 | 540 | 620 | 780 | 880 |
| 16 |  | 3.5 | 6.3 | 10.5 | 13.5 | 19 | 24 | 31，5 | 539.5 | 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 | 5 39.5 | 55.5 | 69 | 86 | 107 | 143 | 180 | 195 | 230 | 292 | 335 | 410 | 458 | 540 | 620 | 780 | 880 |
| 20 |  | 3.5 | 6.3 | 10.5 | 13.5 | 19 | 24 | 31.5 | 539.5 | 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 | 39.55 | 54.5 | 69 | 88 | 107 | 153 | 180 | 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 | 4204 | 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 | 4204 | 470 | 560 | 640 | 800 | 900 |
| 71 |  |  |  | 11 | 14.5 | 20.5 | 25.5 | 34 | 43 |  |  | 88 | 109 | 153 | 173 | 200 | 240 | 300 | 345 | 4204 | 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 | 53 | 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 | 226 | 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 | 38 | 109 | 153 | 173 | 200 | 240 | 300 | 345 | 4204 | 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 | 4204 | 470 | 560 | 640 | 800 | 900 |
| 180 |  |  |  |  |  | 20.5 | 25.5 | 34 | 43 | 60 | 75 | 38 | 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 | 4204 | 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 | 800 | 900 |
| 400 |  |  |  |  |  |  | 25.5 |  | 43 |  | 75 |  | 109 |  | 158 |  | 223 |  | 335 |  | 465 |  | 640 |  | 900 |
| 450 |  |  |  |  |  |  | 24.8 |  | 41.6 |  | 74 |  | 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 MTH1SH．，MTH2S．，MTH3S．，MTH4S．，MTE2S．，MTB3S．，MTB4S Types MTH1SH，MTH2S．，MTH3S．，MTH4S．，MT B2S．MTB3S．，MTB4S



允许的附加径向力 $\operatorname{FR} 2(\mathrm{kN})$ ，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

| $\begin{aligned} & \text { 粦㷵 } \\ & \text { Type } \end{aligned}$ | $\begin{aligned} & \text { 布魯形式 } \end{aligned}$ | 齿辚䈐教格 1），4）Gearunitsize1），4） |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| MTH1SH | A／B | 2） | － | 2） | － | 2） | － | 2） | － | 2） | － | 2） | － | 2） | － | 2） |  | 2） |  |
| MTH2S． | AB／GA | － | － | 8 | 10 | 22 | 22 | 30 | 30 | 30 | 45 | 64 | 64 | 150 | 150 | 140 | 205 | 205 | 205 |
|  | CD | － | － | 8 | 10 | 13 | 13 | 18 | 18 | 10 | 28 | 35 | 35 | 112 | 112 | 85 | 135 | 135 | 135 |
| мтH3s． | AB／G／ | － | － | － | － | 29 | 29 | 40 | 40 | 40 | 60 | 85 | 85 | 190 | 190 | 185 | 265 | 265 | 265 |
|  | CD | － | － | － | － | 18 | 18 | 26 | 26 | 18 | 40 | 50 | 50 | 150 | 150 | 120 | 185 | 185 | 190 |
| MTH4S． | AB | － | － | － | － | － | － | 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 |
| мтв2S． | AC | 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 |
| мтвзs． | AC | － | － | 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 |
| MTB4S． | AC | － | － | － | － | 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 |


Values in tables are minimum values．If the angle of application of force and the direction of rotation are given，signifi－ciantly higher additional forces can mostly beallowed．Please consult u．

用户要求㐜供。On request．
3）当作用力不在轮㯰中暗时，清参见第 255 页。For aplication of torce outside the center of the shaft end Pe Page 255

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 MTH1SH．，MTH2S．，MTH3S．，Types MTH1SH，MTH2S．，MTH3S．， MTH4S．，MTB2S．，MTB3S．，MTB4S MTH4S．，MT B2S．，MTB3S．，MTB4S


平行轴齿轮箱 Helical Gear Units 单级传动 Single Stage 卧式安装 Horizontal

## 类型MTH1SH Type MTH1SH 规格1．．． 19 Sizes $1 . . .19$

## MTH1SH



MTH1SH
规格 $3 . .11$ 带冷却风扇Sizes $3 . . .11$ with fan


## MTH1SH

格13 19带冷却风扇 Sizes 13．．． 19 with fan


1）$k_{6} \leqslant \Phi 50 \quad \mathrm{~m}_{6}>\Phi_{50}$
有关平穓 GB／T1095－1979 型和中心，能见策316页。For parallel key GB／T1095－1979 and for centre hole，see page 316.

3）规格1号不带风扁。Sizes 1 without fan．

| $\begin{aligned} & \text { 热格标 } \\ & \text { Size } \end{aligned}$ | RJmm Dimensions in mm |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 齿軑䇝 Gear units |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | a | $A_{1}$ | A2 | As | b | Bt | B2 | B3 | c | de | E | h | hs | H | m1 | m2 | ms | 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 | 85 | 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 |


| 平行轴齿轮箱 Helical Gear Units类型 MTH1SH Type MTH1SH |  |  |  |  |  |  | 单级传动 Single Stage规格 1．．． 19 Sizes 1．．． 19 |  |  |  |  |  | 卧式安装 |  |  | Horizontal |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { 環格 } \\ & \text { Size } \end{aligned}$ | RJmm Dimensions in mm |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | $\mathrm{in}=1.25-2.8$ |  |  | in $=1.6-2.8$ |  |  | in＝2－2．8 |  |  | $\mathrm{in}^{\mathrm{N}=3.15-4}$ |  |  | iN＝4．5－5．6 |  |  | $G_{1}$ | ${ }^{\text {a }}$ |
|  | di1） | 11 | 13 | d11） | 1 | 13 | d1） | 11 | 13 | d1） | ${ }_{1}$ | 13 | di1） | 11 | 13 |  |  |
| 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 |


| $\begin{aligned} & \text { 热格 } \\ & \text { Size } \end{aligned}$ | mm Dimensions in m |  |  |  | $\underset{\substack{\text { wioight } \\ \text { (kg) }}}{\text { (1) }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 廿綃 Output |  | $\begin{gathered} \substack{\text { thatis } \\ \text { Shaft seal } \\ \text { (I) }} \end{gathered}$ |  |
|  | d2 ${ }^{11}$ | $\mathrm{G}_{2}$ | b |  |  |
| 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 MTH2．H Type MTH2．H 规格 3．．． 12 Sizes 3．．． 12


四
$\star$ 输出轴 Output


布置形式 Design

 2）有关適 $\mathrm{CB} / \mathrm{CB} 1095-1979$ 。Keyway GB／$/ 1095-1979$ ．

4）在安洺贅性前，应先拆下风扇罩。Remove air guide cover before fititing the foundation bolts．
平行轴齿轮箱 Helical Gear Units 两级传动 Two stage 卧式安装 Horizontal类型 MTH2．H Type MTH2．H

格

| $\begin{aligned} & \text { 热格 } \\ & \text { Size } \end{aligned}$ | R寸 mm Dimensions in mm |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | m＝6．3－11．2 |  |  | m＝8－14 |  |  |  |  |  | $\mathrm{m}=16-28$ |  |  | $G_{1}$ | $\mathrm{C}_{3}$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | $\mathrm{d} 11)^{1}$ | ${ }^{\text {h }}$ | 13 | ${ }_{\text {d1 }} 1$ | h | 13 | di1） | ${ }^{1}$ | 15 | ${ }_{\text {d1）}}$ | ${ }^{\text {h }}$ | 13 |  |  |
| 3 | 35 | 60 | － |  |  |  | 28 | 50 |  |  |  |  | 13 | － |
| 4 | 45 | 100 | ${ }^{80}$ |  |  |  | 32 | 80 | 60 |  |  |  | 170 | 190 |
| － | 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 |




平行轴齿轮箱 Helical Gear Units 两级传动 Two stage 卧式安装 Horizontal类型 MTH2．H，MTH2．M Types MTH2．H，MTH2．M 规格 13．．． 22 Sizes $13 . . .22$


平行轴齿轮箱 Helical Gear Units
卧式安装 Horizontal

| 类型 MTH2．H，MTH2．M |  |  |  |  | Type MTH2．H，MTH2．M |  |  |  |  |  |  | 规格 13．．． 22 |  |  |  | Sizes 13．．． 22 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { 耙格 } \\ & \text { Size } \end{aligned}$ | R寸mm Di |  |  |  |  |  |  |  |  |  |  |  | imension in mm |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | 第入闌 |  | Input |  |  |  |  |  |  |  |  |  | $G_{1}$ | $\mathrm{G}_{3}$ |
|  | $\mathrm{w}=6.3$－11．2 |  |  | in $=7.1-12.5$ |  |  | $\mathrm{l}=8-14$ |  |  |  |  |  |  | $\mathrm{m}=14-22.4$ |  |  | in＝16－25 |  |  |  |  |
|  | di1） | ${ }^{1}$ | 13 | di1） | ${ }^{4}$ | ＊ | di1） | $1)$ | s | d11 | （1） | ${ }^{1}$ | s | d11 | $)^{11}$ | 13 | di1） | ${ }^{1}$ | k |  |  |
| 13 | 100 | 205 | 170 |  |  |  |  |  |  | 85 | 35 | 170 | 135 |  |  |  |  |  |  | 330 | 365 |
| 14 |  |  |  |  |  |  | 100 | 0205 | 170 |  |  |  |  |  |  |  | 85 | 170 | 135 | 330 | 365 |
| 15 | 120 | 210 | 165 |  |  |  |  |  |  | 100 | 100 | 210 | 165 |  |  |  |  |  |  | 365 | 410 |
| 16 |  |  |  | 120 | 210 | 165 |  |  |  |  |  |  |  | 100 | 210 | 165 |  |  |  | 365 | 410 |
| 17 | 125 | 245 | 200 |  |  |  |  |  |  | 110 | 10 | 210 | 165 |  |  |  |  |  |  | 420 | 465 |
| 18 |  |  |  | 125 | 245 | 200 |  |  |  |  |  |  |  | 110 | 210 | 165 |  |  |  | 420 | 465 |
| 19 | 150 | 245 | 200 |  |  |  |  |  |  | 120 | 20 | 210 | 165 |  |  |  |  |  |  | 475 | 520 |
| 20 |  |  |  | 150 | 245 | 200 |  |  |  |  |  |  |  | 120 | 210 | 165 |  |  |  |  |  |
| 21 | 170 | 290 | 240 |  |  |  |  |  |  |  | 140 | 250 | 200 |  |  |  |  |  |  | 495 | 545 |
| 22 |  |  |  | 170 | 290 | 240 |  |  |  |  |  |  |  | 140 | 250 | 200 |  |  |  | 495 | 545 |
|  | R fmm Dimension in mm |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { 告格 } \\ & \text { Size } \end{aligned}$ | 齿轮䉒 Gear units |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | a |  | $\mathrm{A}_{1}$ | $\mathrm{A}_{2}$ |  | As | As | b |  | $\mathrm{Br}_{1}$ |  | $\mathrm{B}_{2}$ |  | － | 9 |  | do | Ds | 02 |  | E |
| 13 | 1290 |  | 430 | 460 |  | 330 | 365 | 550 |  | 385 |  | 135 |  | so | $61 \pm 2$ |  | 250 | 48 | 405 |  | 635 |
| 14 | 1430 |  | 430 | 460 |  | 330 | 365 | 550 |  | 385 |  | 135 |  | 0 | $61 \pm 2$ |  | 250 | 48 | 475 |  | 705 |
| 15 | 1550 |  | 490 | 500 |  | 370 | 440 | 625 |  | 430 |  | 155 |  | 70 | $72 \pm 2$ |  | 280 | 55 | 485 |  | 762 |
| 16 | 1640 |  | 490 | 500 |  | 370 | 440 | 625 |  | 430 |  | 155 |  | 70 | $72 \pm 2$ |  | 280 | 55 | 530 |  | 808 |
| 17 | 1740 |  | 540 | 565 |  | 435 | 505 | 690 |  | 485 |  | 140 |  | 30 | $81 \pm 2$ |  | 80 | 55 | 525 |  | 860 |
| 18 | 1860 |  | 540 | 565 |  | 435 | 505 | 690 |  | 485 |  | 140 |  | 30 | $81 \pm 2$ |  | 80 | 55 | 585 |  | 920 |
| 19 | 2010 |  | 600 | 600 |  | 500 | 450 | 790 |  | 540 |  | 190 |  | 90 | $91 \pm 2$ |  | 10 | 65 | 590 |  | 997 |
| 20 | 2130 |  | 600 | 600 |  | 500 | 450 | 790 |  | 540 |  | 190 |  | 90 | $91 \pm 2$ |  | 10 | 65 | 650 |  | 1057 |
| 21 | 2140 |  | 680 | 680 |  | 500 | 610 | 830 |  | 565 |  | 200 |  | 00 | $100 \pm 2$ |  | 450 | 75 | 655 |  | 1087 |
| 22 | 2250 |  | 680 | 680 |  | 500 | 610 | 830 |  | 565 |  | 200 |  | 00 | $100 \pm 2$ |  | 450 | 75 | 710 |  | 1122 |
| Size | R fmm Dimension in mm |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 9 |  | h | $h_{1}$ |  | ${ }^{2}$ |  | H | m1 |  | m2 |  | m |  | ${ }^{1}$ | n2 |  | n3 | n4 |  | s |
| 13 | 21.5 |  | 440 | 450 |  | 460 |  | 900 | 545 |  | 545 |  | 475 |  | 100 | 305 |  | 335 | 340 |  | 35 |
| 14 | 211.5 |  | 440 | 450 |  | 460 |  | 900 | 545 |  | 685 |  | 475 |  | 100 | 375 |  | 05 | 340 |  | 35 |
| 15 | 238 |  | 500 | 490 |  | 500 |  | 1000 | 655 |  | 655 |  | 535 |  | 120 | 365 |  | 005 | 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 |  | 145 | 425 |  | 42 |
| 18 | 25. |  | 550 | 555 |  | 560 |  | 1110 | 735 |  | 855 |  | 600 |  | 135 | 450 |  | 205 | 425 |  | 42 |
| 19 | 299 |  | 620 | 615 |  | 620 |  | 1240 | 850 |  | 850 |  | 690 |  | 155 | 435 |  | 345 | 475 |  | 48 |
| 20 | 299 |  | 620 | 815 |  | 620 |  | 1240 | 850 |  | 970 |  | 690 |  | 155 | 495 |  | 405 | 475 |  | 48 |
| 21 | 310 |  | 700 | 685 |  | 690 |  | 1390 | 900 |  | 900 |  | 720 |  | 170 | 485 |  | 400 | 520 |  | 56 |
| 22 | 310 |  | 700 | 685 |  | 690 |  | 1390 | 900 |  | 1010 |  | 720 |  | 170 | 540 |  | 1455 | 520 |  | 56 |
| $\begin{aligned} & \text { 规格 } \\ & \text { Size } \end{aligned}$ | R寸mm |  |  |  |  | Oimensions in mm |  |  |  |  |  |  |  |  |  |  |  |  | $\begin{gathered} \text { 重量 } \\ \text { Weight } \end{gathered}$ |  |  |
|  | 制出轱 |  |  |  | Gear units |  |  |  |  |  |  |  |  |  |  | мTH | 12．H | MTH2． |  |  |  |  |  |
|  |  |  |  |  | MTH2DH9 MTH2DM9 | $\begin{aligned} & \text { 轴封 } \\ & \text { Shaft } \\ & \text { (I) } \end{aligned}$ |  |  | МтНг ． ／$_{\text {MTH2．M }}$ |  |  |  |  |  |  |  |
|  | d21） |  | $\mathrm{G}_{2}$ | k |  |  |  |  |  |  |  |  | $\mathrm{D}_{2} 2$ | ， | G． | Ds |  | D4 |  | G4 | Gs |  | （kg） |  | （kg） |
| 13 | 200 |  | 335 | 350 |  | 190 |  | 335 | 19 | 90 |  | 195 | 335 |  | 480 | 13 |  | 110 | 200 |  | 1880 |
| 14 | 210 |  | 335 | 350 |  | 210 |  | 335 |  | 10 |  | 15 | 335 |  | 480 | 14 |  | 115 | 25 |  | 2430 |
| 15 | 230 |  | 380 | 410 |  | 230 |  | 380 | 230 | 30 |  | 235 | 380 |  | 550 | 21 |  | 160 | 343 |  | 3240 |
| 16 | 240 |  | 380 | 410 |  | 240 |  | 380 | 24 | 40 |  | 245 | 380 |  | 550 | 21 |  | 165 | 365 |  | 3465 |
| 17 | 250 |  | 415 | 410 |  | 250 |  | 415 |  | 50 |  | 260 | 415 |  | 600 | 29 |  | 230 |  |  | 4420 |
| 18 | 270 |  | 415 | 470 |  | 275 |  | 415 | 280 | 80 |  | 285 | 415 |  | 600 | 30 |  | 240 | 51 |  | 4870 |
| 19 | 290 |  | 465 | 470 |  | － |  | － |  | 85 |  | 295 | 465 |  | 670 | 32 |  | 300 |  |  | 5000 |
| 20 | 300 |  | 465 | 500 |  | － |  | － | 310 | 10 |  | 15 | 465 |  | 670 | 34 |  | 320 | 655 |  | 6150 |
| 21 | 320 |  | 490 | 500 |  | － |  | － |  | 30 |  | 335 | 490 |  | 715 | 32 | 20 | 350 | 720 | 200 | 6950 |
| 22 | 340 |  | 490 | 550 |  | － |  | － | 340 | 40 |  | 345 | 490 |  | 725 | 34 |  | 370 | 780 |  | 7550 |

平行轴齿轮箱 Helical Gear Units 两级传动 Two Stage 卧式安装 Horizontal类型 MTH2．H，MTH2．M Types MTH2．H，MTH2M 规格 23．．． 26 Sizes $23 . . .26$


布置形式 Design

1）$k s \leqslant \Phi 50 \quad \mathrm{~m} \in>\Phi_{50}$


3）扭力支榇位于工作机饥刨。Torque support on driven machine side．

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

类型 MTH2．H，MTH2．M Types MTH2．H，MTH2．M 规格 $23 . . .26$ Sizes 23．．． 26


| $\begin{aligned} & \text { 热椎 } \\ & \text { Size } \end{aligned}$ | R才mm Dimensionsin mm |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Gear units |  |  |  |  |  |  |
|  | 9 | h | ${ }_{1}$ | he | H | m1 | m2 | ms | ${ }^{\text {m }}$ | ${ }^{1}$ | 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 |


| $\begin{aligned} & \text { 栄 } \\ & \mathrm{Size} \\ & \hline \text { ize } \end{aligned}$ |  |  |  | Dimensions in m |  |  |  |  |  | $\begin{gathered} \text { 重毫 } \\ \text { Weight } \end{gathered}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 簡较 |  |  |  | Output | МTНеОМ |  |  |  |  |  |
|  | MTH2SH |  |  | MTH2OH |  |  |  | MTH2．${ }_{(1)}$ | ${ }_{\text {MTH2．M }}^{\text {（I）}}$ | $\frac{\mathrm{MTH2H}}{(\mathrm{~kg})}$ | $\frac{\text { MTH2.M }}{(\mathrm{kg})}$ |
|  | d2 1） | $\mathrm{Q}_{2}$ | 12 | D3 | D4 | $\mathrm{G}_{4}$ | G5 |  |  |  |  |
| 23 | 380 | 540 | 590 | 360 | 365 | 540 | 785 | 30 | 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 | 1550 | 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

类型 MTH3．H Type MTH3．H 规格 5．．． 12 Sizes 5．．． 12

桼

1） $\mathrm{ke} \leqslant \Phi 50 \mathrm{~m} \otimes \Phi 50$
有关平键 GB／T1095－1979 型和中心秃，参见第 316页。 For parallel key GB／T1095－1979 and for center hole，see page 316

3）扭力支揢位于工作㭎。Torque support on driven machine side．

| 平行斩 <br> 类型 | 齿轮 |  | Helical Gear Units Type MTH3．H |  |  |  |  | 三级传动规格5．．．12 |  |  | Three Stage <br> Sizes 5．．． 12 |  |  |  |  | 卧式安装 |  |  | Horizontal |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { 期格 } \\ & \text { Size } \end{aligned}$ | R才mm Dimensionsin mm |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | $\mathrm{IN}=31.5-56$ |  |  | $\mathrm{I}=50-63$ |  |  |  |  |  | $\mathrm{in}=71-90$ |  |  | in＝90－112 |  |  | $\mathrm{G}_{1}$ | $\mathrm{G}_{3}$ |
|  | d1） | 11 | 13 | d11） | 11 | 13 | d11） | 11 | 13 | d11） | 11 | 13 | d1 1 ） | 11 | 13 | d11） | 1 | 13 |  |  |
| 5 | 40 | 70 | 70 |  |  |  | 30 | 50 | 50 |  |  |  | 24 | 40 | 40 |  |  |  | 160 | 220 |
| 6 |  |  |  | 40 | 70 | 70 |  |  |  | 30 | 50 | 50 |  |  |  | 24 | 40 | 40 | 0 | 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 |


| $\begin{aligned} & \text { 知格 } \\ & \text { Size } \end{aligned}$ | R fmm Dimensionsin mm |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | 齿䋘 | Dimensions in mm Gear units |  |  |  |  |  |
|  | a | $A_{1}$ | A2 | As | A4 | b | B1 | B2 | － | 9 | d6 | D5 |
| 5 | 690 | 137 | 135 | 140 | 80 | 255 | 215 | 175 | 28 | $30 \pm 1$ | 60 | 24 |
| 6 | 70 | 137 | 135 | 140 | 80 | 255 | 215 | 175 | 28 | $30 \pm 1$ | 60 | 24 |
| 7 | 845 | 157 | 160 | 180 | 100 | 300 | 245 | 205 | 35 | $36 \pm 1$ | 75 | 28 |
| 8 | 950 | 157 | 160 | 180 | 100 | 300 | 245 | 205 | 35 | $36 \pm 1$ | 75 | 28 |
| 9 | 1000 | 182 | 190 | 205 | 120 | 370 | 295 | 240 | 40 | $45 \pm 1.5$ | 90 | 36 |
| 10 | 1100 | 182 | 190 | 205 | 120 | 370 | 295 | 240 | 40 | $45 \pm 1.5$ | 90 | 36 |
| 11 | 1200 | 218 | 220 | 255 | 150 | 430 | 325 | 280 | 50 | $54 \pm 1.5$ | 100 | 40 |
| 12 | 1355 | 218 | 220 | 255 | 150 | 430 | 325 | 280 | 50 | $54 \pm 1.5$ | 100 | 40 |




[^1]平行轴齿轮箱 Helical Gear Units 三级传动 Three Stage 卧式安装 Horizontal类型 MTH3．H，H3．M Types MTH3．H，MTH3．M 规格 $13 . . .22$ Sizes 13．．． 22

| $\begin{aligned} & \text { 都格 } \\ & \text { Size } \end{aligned}$ | R寸 mm Dimen |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  | Inpu |  |  |  |  |  |  |  | $\mathrm{G}_{1}$ |  |
|  | ${ }^{1} \mathrm{~N}=22.4$－45 |  |  | $\begin{aligned} & i_{N}=25-50, \\ & i_{N}=28-56, \end{aligned}$ |  |  | $\mathrm{I}_{\mathrm{N}=50-63}$ |  |  |  |  |  | $\mathrm{i}_{\mathrm{N}}=71-90$ |  |  | $\begin{aligned} & i^{\prime}=80-100 \\ & i_{N}=90-1122^{2} \end{aligned}$ |  |  |  | $\mathrm{G}_{3}$ |
|  | $\mathrm{d}_{1}{ }^{1}$ | ${ }_{1}$ | 13 | $\mathrm{d}_{1}{ }^{1}$ | 1 | 13 | $\mathrm{d}_{1}{ }^{1}$ | 1 | 13 | $\mathrm{d}_{1}{ }^{1}$ | $4_{1}$ | 13 | $\mathrm{d}_{1}{ }^{1}$ | 4 | 13 | $\mathrm{d}_{1}$ | $h_{1}$ | ${ }_{3}$ |  |  |
| 13 | 85 | 160 | 130 |  |  |  | 60 | 135 | 105 |  |  |  | 50 | 110 | 80 |  |  |  | 310 | 385 |
| 14 |  |  |  | 85 | 160 | 130 |  |  |  | 60 | 135 | 105 |  |  |  | 50 | 11 | 80 | 310 | 385 |
| 15 | 100 | 200 | 165 |  |  |  | 75 | 140 | 105 |  |  |  | 60 | 140 | 105 |  |  |  | 50 | 420 |
| 16 |  |  |  | 100 | 200 | 165 |  |  |  | 75 | 140 | 105 |  |  |  | 60 | 14 | 10 | 350 | 420 |
| 17 | 100 | 200 | 165 |  |  |  | 75 | 140 | 105 |  |  |  | 60 | 140 | 105 |  |  |  | 380 | 450 |
| 18 |  |  |  | 100 | 200 | 165 |  |  |  | 75 | 140 | 105 |  |  |  | 60 | 14 | 10 | 380 | 450 |
| 19 | 110 | 200 | 4） |  |  |  | 90 | 165 | $4)$ |  |  |  | 75 | 140 | 4） |  |  |  | 430 | ${ }^{4)}$ |
| 20 |  |  |  | 110 | 200 | 4） |  |  |  | 90 | 165 | ${ }^{4}$ |  |  |  | 75 | 14 | $4)$ | 430 | $4)$ |
| 21 | 130 | 240 | ${ }^{4}$ |  |  |  | 110 | 205 | 4） |  |  |  | 90 | 170 | 4） |  |  |  | 470 | 4） |
| 22 |  |  |  | 130 | 240 | 4） |  |  |  | 110 | 205 | 4） |  |  |  | 90 | 17 | 4） | 470 | 4） |


| $\begin{aligned} & \text { 智稑 } \\ & \text { Sie } \end{aligned}$ | 仅指规格 14 号齿轮箱 |  |  |  |  |  |  | Only size 14 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{equation*} R 寸 \mathrm{~mm} \tag{Di} \end{equation*}$ |  |  |  |  |  |  | mensions in mm |  |  |  |  |  |
|  |  |  |  |  |  |  |  | ar units |  |  |  |  |  |
|  | a | $\mathrm{A}_{1}$ | $\mathrm{A}_{2}$ | $\mathrm{A}_{3}$ | b | $\mathrm{B}_{1}$ | $\mathrm{B}_{2}$ | $\bigcirc$ | 9 | $\mathrm{d}_{6}$ | $\mathrm{D}_{5}$ | $\mathrm{e}_{2}$ | E |
| 13 | 1395 | 225 | 225 | 212 | 550 | 380 | 195 | 60 | $61 \pm 2$ | 120 | 48 | 405 | 820 |
| 14 | 1535 | 225 | 225 | 212 | 550 | 380 | 195 | 60 | $61 \pm 2$ | 120 | 48 | 475 | 890 |
| 15 | 1680 | 270 | 265 | 252 | 625 | 415 | 205 | 70 | $72 \pm 2$ | 150 | 55 | 485 | 987 |
| 16 | 1770 | 270 | 265 | 252 | 625 | 415 | 205 | 70 | $72 \pm 2$ | 150 | 55 | 530 | 1033 |
| 17 | 1770 | 270 | 265 | 252 | 690 | 445 | 235 | 80 | $81 \pm 2$ | 150 | 55 | 525 | 1035 |
| 18 | 1890 | 270 | 265 | 252 | 690 | 445 | 235 | 80 | $31 \pm 2$ | 150 | 55 | 585 | 1095 |
| 19 | 2030 | 4） | $4)$ | 4） | 790 | 4） | 4） | 90 | $91 \pm 2$ | 4） | 65 | 590 | 1190 |
| 20 | 2150 |  |  |  | 790 |  |  | 90 | $91 \pm 2$ |  | 65 | 650 | 1250 |
| 21 | 2340 |  |  |  | 830 |  |  | 100 | $100 \pm 2$ |  | 75 | 655 | 1387 |
| 22 | 2450 |  |  |  | 830 |  |  | 100 | $100 \pm 2$ |  | 75 | 710 | 1442 |
| Size | R寸 mm Dimensions in mm |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 9 | n | $\mathrm{h}_{1}$ | $\mathrm{h}_{2}$ | H | $\mathrm{m}_{1}$ | $\mathrm{m}_{2}$ | $\mathrm{m}_{3}$ | $\mathrm{n}_{1}$ | $\mathrm{n}_{2}$ | $\mathrm{n}_{3}$ | $\mathrm{n}_{4}$ | $s$ |
| 13 | 22.5 | 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 | 25. | 500 | 555 | 560 | 1110 | 750 | 870 | 600 | 135 | 450 | 1235 | 425 | 42 |
| 19 | 299 | 62. | 615 | 620 | 1240 | 860 | 880 | 690 | 155 | 435 | 1365 | 475 | 48 |
| 20 | 299 | 620 | 615 | 620 | 1240 | 860 | 980 | 690 | 155 | 495 | 1425 | 475 | 48 |
| 21 | 310 | 700 | 685 | 690 | 1390 | 1000 | 1000 | 720 | 170 | 485 | 1615 | 520 | 56 |
| 22 | 310 | 700 | 685 | 690 | 1390 | 1000 | 1110 | 720 | 170 | 540 | 1670 | 520 | 56 |
| 越格Size |  |  |  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { 重童ht } \\ & \text { eight } \end{aligned}$ |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | MTH3SH |  |  | MTH3H1 | MTH3HM | MTH3DH MTH3DM |  |  |  | МтН3．${ }^{\text {H }}$ | MTH3．M | мтНз．${ }^{\text {H }}$ | MTH3．M |
|  | $\mathrm{d}_{2}{ }^{11}$ | $\mathrm{G}_{2}$ | $I_{2}$ | $\mathrm{D}_{2}{ }^{2}$ | $6_{4}$ | $\mathrm{D}_{3}$ | $\mathrm{D}_{4}$ | $\mathrm{G}_{4}$ | $\mathrm{a}_{5}$ | （1） | （1） | （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 | 330 | 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 | 5050 | 4750 |
| 20 | 300 | 465 | 500 | － | － | 310 | 315 | 465 | 670 | 450 | 415 | 6650 | 6250 |
| 21 | 320 | 490 | 500 | － | － | 330 | 335 | 490 | 715 | 470 | 515 | 6950 | 6550 |
| 22 | 340 | 490 | 550 | － | － | 340 | 345 | 490 | 725 | 490 | 540 | 7550 | 7050 |

## 平行轴齿轮箱 Helical Gear Units 三级传动 Three Stage 卧式安装 Horizontal类型 MTH3．H，MTH3．M Types MTH3．H，MTH3．M 规格 $23 . . .26$ Sizes $23 . . .26$



理

$\star$ 输出轴 Output
布置形式 Design


MTH3DH，MTH3DM



有关平平鲤 GBT1095－1979型和中心か孔，参见第 316 页


平行轴齿轮箱 Helical Gear Units卧式安装 Horizontal规格 23．．． 26 Sizes 23．．． 26

| $\begin{aligned} & \text { 雉 } \\ & \text { Siz } \end{aligned}$ | RJmm Dimensions in mm |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 䰻入㭏 Input |  |  |  |  |  |  |  |  |  |  |  |  |
|  | in＝22．4－45 |  | $\mathrm{l} \times$＝25－50 |  | IN＝50－63 |  | IN＝56－71 |  | IN＝71－90 |  | $\mathrm{l} \times=80-100$ |  | $G_{1}$ |
|  | di1） | ${ }^{1}$ | d1） | h | di1） | h | d1） | ${ }^{1}$ | di） | ${ }^{1}$ | d1） | h |  |
| 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 |


| $\begin{aligned} & \text { 敖格 } \end{aligned}$ | R fmm Dimensions in mm |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 龃羬 Gear units |  |  |  |  |  |  |  |  |  |  |
|  | a | b | c | 9 | Ds | ${ }^{\text {®2 }}$ | E | ${ }_{4}$ | 9 | n | $\mathrm{h}_{1}$ |
| 23 | 2530 | 930 | 115 | $120 \pm 2$ | 80 | 730 | 1505 | 35 | 342 | 780 | 70 |
| 24 | 2660 | 930 | 115 | $120 \pm 2$ | 80 | 795 | 1570 | 35 | 342 | 780 | 770 |
| 25 | 2830 | 1045 | 130 | $120 \pm 2$ | 90 | 790 | 1659 | 65 | 400 | 860 | 860 |
| 26 | 3010 | 1045 | 130 | $120 \pm 2$ | 90 | 880 | 1785 | 65 | 400 | 860 | 860 |

## ？

| $\begin{aligned} & \text { 欵格 } \\ & \text { Size } \end{aligned}$ | R fmm Dimensions in mm |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |
|  | $\mathrm{h}_{2}$ | H | m1 | m2 | m | 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 | 880 | 1720 | 1215 | 1395 | 910 | 200 | 680 | 2055 | 660 | 66 |




## 三级传动 Three Stage

类型 MTH3．H，MTH3．M Types MTH3．H，MTH3．M

| 平行轴齿轮箱 Helical Gear Units | 四级俊动 Four Stage | 卧式安装 Horizontal |
| :--- | ---: | :--- |
| 类型 MTH4．H Type MTH4．H | 规格 7. ． 12 Size $7 . . .12$ |  |



酸


1）$k \in \leq \Phi 50 \quad m 6>\Phi 50$
For parallel key GB／T1095－1979 and for center hole，see page 316.

3）扭力支揀位于工作机咆。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 MTH4．H Type MTH4．H 规格 7．．． 12 Sizes 7．．． 12

| $\underset{\substack{\text { 期格 } \\ \text { Size }}}{ }$ | R寸 mm D |  |  |  | Dimensions in mm |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 斩入㽪 Input |  |  |  |  |  |  |  |  |
|  | in $=100-180$ |  | in $=125-224$ |  | $\mathrm{in}=200-355$ |  | in $=250-450$ |  | G1 |
|  | d11） | ${ }^{11}$ | d11） | ${ }^{11}$ | d11） | 11 | d1） | 11 |  |
| 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 |


| $\begin{aligned} & \text { 権格 } \\ & \text { Sizo } \end{aligned}$ | R寸 mm Dimensions in mm |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 齿较箱 Gear units |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | a | b | c | 9 | Ds | E | ${ }_{1}$ | 9 | h | $\mathrm{h}_{4}$ | $\mathrm{n}_{5}$ | H | m1 | m3 | n1 | n2 | ns | n4 | s |
| 7 | 845 | 300 | 35 | $36 \pm 1$ | 28 | 495 | 37 | 114 | 280 | 200 | 140 | 572 | 605 | 260 | 120 | 130 | 560 | 215 | 24 |
| 8 | 950 | 300 | 35 | $36 \pm 1$ | 28 | 540 | 37 | 114 | 280 | 200 | 140 | 582 | 710 | 260 | 120 | 190 | 605 | 215 | 24 |
| 9 | 1000 | 370 | 40 | $45 \pm 1.5$ | 36 | 580 | 43 | 140 | 320 | 230 | 150 | 662 | 710 | 320 | 145 | 155 | 660 | 245 | 28 |
| 10 | 1100 | 370 | 40 | $45 \pm 1.5$ | 36 | 630 | 43 | 140 | 320 | 230 | 150 | 662 | 810 | 320 | 145 | 205 | 710 | 245 | 28 |
| 11 | 1200 | 430 | 50 | $54 \pm 1.5$ | 40 | 705 | 47 | 161 | 380 | 270 | 165 | 782 | 870 | 370 | 165 | 180 | 805 | 300 | 35 |
| 12 | 1355 | 430 | 50 | $54 \pm 1.5$ | 40 | 775 | 47 | 161 | 380 | 270 | 165 | 790 | 1025 | 370 | 165 | 265 | 875 | 300 | 35 |


|  | R寸 mm Dimensions in mm |  |  |  |  |  |  |  |  |  | $\underset{\substack{\text { welght } \\ \text { Welight }}}{\text { (kg }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | 0 | Output |  |  |  |  |  |
|  | MTH4SH |  |  | MTH4HH |  | MTH4DH |  |  |  |  |  |
|  | d23） | G2 | 12 | D22） | G4 | D3 | D4 | G4 | Gs |  |  |
| 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 MTH4．H，MTH4．M Types MTH4．H，MTH4．M 规格 $13 \ldots 22$ Sizes $13 \ldots 22$


MTH4HM MTH4DM 规格19号以上，带两个检植れ


1）$k s \leqslant \Phi 50 \quad m b>\Phi_{50}$


3）扭力支採位于工作机纲。Torque support on diriven machine side．

平行轴齿轮箱 Helical Gear Units 四级传动 Four Stage 卧式安装 Horizontal类型 MTH4．H，MTH4．M Types MTH4．H，MTH4．M 规格 $13 . . .22$ Sizes 13．．． 22

| $\begin{aligned} & \text { 规格 } \\ & \text { Size } \end{aligned}$ | R才mm Dimensions in mm |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | In $=100-180$ |  | $\mathrm{in}=112-200$ |  |  |  | 闌 Input |  |  |  |  |  |  |  |  |
|  | $\mathrm{d}_{1}$ 1） | ${ }_{1}$ | $d_{1} 1$ ） | $\frac{200}{11}$ | $\mathrm{d}_{1}{ }^{1}$ ） | $\mathrm{I}_{1}$ | d，1） |  | ${ }_{1}$ |  | $\mathrm{d}_{1}{ }^{1}$ | $\mathrm{l}_{1}$ | $\mathrm{in}=250-450$ |  |  |
| 13 | 50 | 100 |  |  |  |  | ${ }^{\text {d }} 18$ |  | ${ }_{80}$ |  |  |  | $\left.\mathrm{d}_{1} 1\right)$ | 1 | ${ }^{\mathrm{G}_{1}}$ |
| 14 | 50 |  |  |  | 50 | 100 |  |  |  |  |  |  | ${ }^{38}$ | 80 | 305 |
| 15 | 60 | 135 |  |  |  |  | 50 |  | 110 |  |  |  |  |  | 345 |
| 16 |  |  | 60 | 135 |  |  |  |  |  |  | 50 | 110 |  |  | 345 |
| 17 |  | 105 |  |  |  |  | 50 |  | 80 |  |  |  |  |  | 380 |
| 18 |  |  | 60 | 105 |  |  |  |  |  |  | 50 | 80 |  |  | 380 |
| 19 |  | 105 |  |  |  |  | 60 |  | 105 |  |  |  |  |  | 440 |
| 20 | 75 |  | 75 | 105 |  |  |  |  |  |  | 60 | 105 |  |  | 440 |
| 21 | 90 | 165 |  |  |  |  | 70 |  | 140 |  |  |  |  |  | 460 |
| 22 |  |  | 90 | 165 |  |  |  |  |  |  | 70 | 140 |  |  | 460 |
| $\begin{aligned} & \text { 㚘䄷 } \\ & \text { Size } \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | b | c | $a_{1}$ |  | $\mathrm{D}_{5}$ |  | $\mathrm{e}_{2}$ |  | E |  | $\mathrm{E}_{1}$ | $\mathrm{f}_{1}$ | 9 | h |
| 13 |  | 550 | 60 |  | $1 \pm 2$ | 48 |  | 405 |  | 820 |  | 130 | 47 | 211.5 | 440 |
| 14 | 1535 | 550 | 60 |  | $1 \pm 2$ | 48 |  | 475 |  | 890 |  | 130 | 47 | 211.5 | 440 |
| 15 | 1680 | 625 | 70 |  | $2 \pm 2$ | 55 |  | 485 |  | 987 |  | 160 | 56 | 238 | 500 |
| 16 | 1770 | 625 | 70 |  | 2 $\pm 2$ | 55 |  | 530 |  | 1033 |  | 160 | 56 | 238 | 500 |
| 17 | 1770 | 690 | 80 |  | $1 \pm 2$ | 55 |  | 525 |  | 1035 |  | 160 | 53 | 259 | 550 |
| 18 | 1890 | 690 | 80 |  | $1 \pm 2$ | 55 |  | 585 |  | 1095 |  | 160 | 53 | 259 | 550 |
| 19 | 2030 | 790 | 90 |  | $1 \pm 2$ | 65 |  | 590 |  | 1190 |  | 185 | 53 | 299 | 620 |
| 20 |  | 790 | 90 |  | $1 \pm 2$ | 65 |  | 650 |  | 1250 |  | 185 | 53 | 299 | 620 |
| 21 |  | 830 | 100 |  | $100 \pm 2$ | 75 |  | 655 |  | 1387 |  | 225 | 62 | 310 | 700 |
| 22 |  | 830 | 100 |  | 00さ2 | 75 |  | 710 |  | 1442 |  | 225 | 62 | 310 | 700 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | $\frac{h_{1}}{450}$ | $\mathrm{h}_{2}$ | $\mathrm{h}_{4}$ | H | $\mathrm{m}_{1}$ |  | 2 | $\mathrm{m}_{3}$ |  | $\mathrm{n}_{1}$ |  | $\mathrm{n}_{2}$ | $\mathrm{n}_{3}$ | $n_{4}$ | $s$ |
| 13 |  | 460 | 310 | 900 | 597.5 |  |  | 475 |  | 100 |  | 305 | 940 | 340 | 35 |
| 14 | 450 | 460 | 310 | 900 | 597.5 |  | 7.5 | 475 |  | 100 |  | 375 | 1010 | 340 | 35 |
| 15 | 490 | 500 | 340 | 1000 | 720 |  | 20 | 535 |  | 120 |  | 365 | 1135 | 375 | 42 |
| 16 | 490 | 500 | 340 | 1000 | 720 |  | 10 | 535 |  | 120 |  | 410 | 1180 | 375 | 42 |
| 17 |  | 560 | 390 | 1110 | 750 |  | 50 | 600 |  | 135 |  | 390 | 1175 | 425 | 42 |
| 18 | $\begin{array}{r} 555 \\ \hline 55 \\ \hline \end{array}$ | 550 | 390 | 1110 | 750 |  | 0 | 600 |  | 135 |  | 450 | 1235 | 425 | 42 |
| 19 | 615 | 620 | 435 | 1240 | 860 |  | S0 | 690 |  | 155 |  | 435 | 1365 | 475 | 48 |
| 20 | 615 | 620 | 435 | 1240 | 860 |  | 30 | 690 |  | 155 |  | 495 | 1425 | 475 | 48 |
| 21 | $\begin{aligned} & \hline 685 \\ & \hline 685 \\ & \hline \end{aligned}$ | 690 | 475 | 1390 | 1000 |  |  | 720 |  | 170 |  | 485 | 1615 | 520 | 56 |
| 22 |  | 690 | 475 | 1390 | 1000 |  |  | 720 |  | 170 |  | 540 | 1670 | 520 | 56 |
| 规格Size |  |  |  |  |  |  |  |  |  |  |  | 润滑油 <br> Oil |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | MTH4SH |  |  | ［MTH4HH MTH4HM｜ |  | MTH4DH MTH4DM |  |  |  |  |  | MTH4．H | MTH4．M | MTH4．H | MTH4．M |
|  | ${ }_{2}{ }_{2}{ }^{1)}$ | $\mathrm{G}_{2}$ | $\mathrm{I}_{2}$ | $\mathrm{D}_{2}{ }^{2}$ | $\mathrm{C}_{4}$ | $\mathrm{D}_{3}$ | $\mathrm{D}_{4}$ |  | $\mathrm{G}_{4}$ |  | $\mathrm{G}_{5}$ | （1） | （1） | （kg） | （kg） |
| 13 | 200210 | 335 | 350 | 190 | 335 | 190 | 195 |  | 335 |  | 480 | 130 | 120 | 2390 | 2270 |
| 14 |  | 335 | 350 | 210 | 335 | 210 | 215 |  | 335 |  | 480 | 140 | 125 | 2730 | 2600 |
| 15 | 210 230 | 380 | 410 | 230 | 350 | 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 | 5185 | 4915 |
| 19 | 290 | 465 | 470 | － | － | 285 | 295 |  | 465 |  | 670 | 360 | 310 | 5700 | 5300 |
| 20 | 300 | 465490490 | 500 | － | － | 310 | 315 |  | 465 |  | 670 | 380 | 330 | 6400 | 5950 |
| 21 | $\begin{aligned} & 320 \\ & \hline 340 \end{aligned}$ |  | 500 | － | － | 330 | 335 |  | 490 |  | 715 | 395 | 430 | 7750 | 7250 |
| 22 |  |  | 550 | － | － | 340 | 345 |  | 490 |  | 725 | 420 | 450 | 8350 | 7750 |

类型 MTH4．H，MTH4．M Types MTH4．H，MTH4．M 规格 $23 \ldots 26$ Sizes $23 \ldots 26$


폌

 2）鲯棈 GB／T1095－1979。Keyway GBT1095－1979．
3）抯力支梀位于工作机喚。Torque support on driven machine side．

平行轴齿轮箱 Helical Gear Units 四级传动 For Stage 卧式安装 Horizontal类型 MTH4．H，MTH4．M Types MTH4．H，MTH4．M 规格23．．． 26 Sizes 23．．． 26

| $\underset{\text { 热梅 }}{\text { Size }}$ | R寸 mm Dimensionsin mm |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | A |  |  |  | $0_{1}$ |
|  | $\mathrm{i}_{\mathrm{N}}=100-180$ |  | $\mathrm{i}=112-2$ |  | $\mathrm{i}_{\mathrm{N}}=200-355$ |  | $\mathrm{i}_{\mathrm{N}}=224-400$ |  |  |
|  | $\mathrm{d}_{1}{ }^{1}{ }^{\text {（ }}$ | $I_{1}$ | $\mathrm{d}_{1}{ }^{1)}$ | $\mathrm{I}_{1}$ | $d_{1}{ }^{1)}$ | $\mathrm{I}_{1}$ | $\mathrm{d}_{1}{ }^{1)}$ | $\mathrm{I}_{1}$ |  |
| 23 | 90 | 130 |  |  | 70 | 105 |  |  | 505 |
| 24 |  |  | 90 | 130 |  |  | 70 | 105 | 505 |
| 25 | 100 | 205 |  |  | 85 | 170 |  |  | 565 |
| 26 |  |  | 100 | 205 |  |  | 85 | 170 | 565 |


|  | R $\mathrm{Tmm}^{\text {d }}$ |  |  |  |  | Dimensions in mm |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 齿辒锺 |  |  |  |  | Gear units |  | $\mathrm{E}_{1}$ | $\mathrm{f}_{1}$ | 9 | h |
|  | a | b | － | 9 | $\mathrm{D}_{5}$ |  |  |  |  |  |  |
| 23 | 2530 | 930 | 115 | $120 \pm 2$ | 80 | 730 | 1505 | 225 | 35 | 342 | 780 |
| 24 | 2660 | 930 | 115 | $120 \pm 2$ | 80 | 795 | 1570 | 225 | 35 | 342 | 780 |
| 25 | 2830 | 1045 | 130 | $120 \pm 2$ | 90 | 790 | 1695 | 265 | 65 | 400 | 860 |
| 26 | 3010 | 1045 | 130 | $120 \pm 2$ | 90 | 880 | 1785 | 265 | 65 | 400 | 860 |



| 格格 Size | R寸 mm Dimensions in |  |  |  |  |  |  | $\begin{gathered} \text { 洞㴋油 } \\ \text { Oil } \end{gathered}$ |  | $\begin{aligned} & \text { 重雃 } \\ & \text { Welght } \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | MTH4SH |  |  | Output |  |  |  |  |  |  |  |
|  |  |  |  |  | MTH4 | H4DN |  | MTH4．H | MTH4．M | MTH4．H | MTH |
|  | （d）${ }^{11}$ | $\mathrm{G}_{2}$ | $\mathrm{I}_{2}$ | $\mathrm{D}_{3}$ | $\mathrm{D}_{4}$ | $\mathrm{G}_{4}$ | $\mathrm{G}_{5}$ | （1） | （1） | （kg） | （kg） |
| 23 | 350 | 540 | 590 | 360 | 365 | 540 | 785 | 520 | 500 | 11600 | 10700 |
| 24 | 380 | 540 | 590 | 380 | 385 | 40 | 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 TwoStage

类型 MTB2．H Type MTB2．H 规格 1．．． 12 Sizes 1．．． 12

雨


1） $\mathrm{k} \varepsilon \leq \Phi 50 \mathrm{~m} \in>\mathrm{m}_{50}$


3）扭力支落位于工作机细。Torque support on driven machine side．

## 直交轴齿轮箱 Bevel－helical Gear Units 二级传动 Two Stage

## 卧式安装 Horizontal 类型 MTB2．H Type MTB2．H 规格 1．．． 12 Sizes 1．．． 12

| $\begin{gathered} \text { 热格 } \\ \text { Size } \end{gathered}$ | 尺寸 mm Dimensions in mm |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | di1） | ${ }^{1}$ | 13 |  |  | 13 |  |  |  | $\mathrm{G}_{1}$ | G3 |
| 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 |  |  |  |  |  |  | ${ }_{7} 75$ | 790 |
| 10 |  |  |  | 80 | 165 | 130 |  |  |  | 805 | 840 |
| 11 | 90 | 165 | 130 |  |  |  |  |  |  | ${ }_{9}^{925}$ | ${ }^{960}$ |
| 12 |  |  |  | 90 | 165 | 130 |  |  |  | 995 | 1030 |


|  | RYmm Dimension inmm |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1 | 305 | 125 | 130 | 180 | 128 | 18 | $16 \pm 1$ | 12 | 110 | 90 | 90 | 74 |
| 2 | 355 | 140 | 145 | 205 | 143 | 18 | $20 \pm 1$ | 14 | 110 | 110 | 110 | 82.5 |
| 3 | 405 | 170 | 170 | 225 | 163 | 22 | $24 \pm 1$ | 18 | 120 | 130 | 130 | 88.5 |
| 4 | 505 | 195 | 200 | 270 | 188 | 28 | $30 \pm 1$ | 24 | 150 | 160 | 160 | 105 |
| 5 | 565 | 220 | 235 | 320 | 215 | 28 | $30 \pm 1$ | 24 | 160 | 185 | 185 | 130 |
| 6 | 645 | 220 | 235 | 320 | 215 | 28 | $30 \pm 1$ | 24 | 160 | 185 | 220 | 130 |
| 7 | 690 | 270 | 285 | 380 | 250 | 35 | $36 \pm 1$ | 28 | 210 | 225 | 225 | 154 |
| 8 | 795 | 270 | 285 | 380 | 250 | 35 | $36 \pm 1$ | 28 | 210 | 225 | 270 | 154 |
| 9 | 820 | 310 | 325 | 440 | 270 | 40 | $48 \pm 1.5$ | 36 | 195 | 265 | 265 | 172 |
| 10 | 920 | 310 | 325 | 440 | 270 | 40 | $48 \pm 1.5$ | 36 | 195 | 265 | 315 | 172 |
| 11 | 975 | 370 | 385 | 530 | 328 | 50 | $54 \pm 1.5$ | 40 | 210 | 320 | 320 | 211 |



直交轴齿轮箱 Bevel－helical Gear Units
二级传动 Two Stage

## 卧式安装 Horizontal

类型MTB2．H，MTB2．M Types MTB2．H，MTB2．M 规格 13．．． 18 Sizes 13．．． 18
MTB2SH MTB2HH MTB2DH


直交轴齿轮箱 Bevel－helical Gear Units 二级传动 Two Stage 卧式安装 Horizontal类型 MTB2．H，MTB2．M Types MTB2．H，MTB2．M 规格 13．．． 18 Sizes 13．．． 18

| $\begin{aligned} & \text { 规相 } \\ & \text { Size } \end{aligned}$ | R寸 mm Dimensions in mm |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 魩入韧 Input |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | in $=5-11.2$ |  |  | iw＝5．6－11．2 |  |  | iv＝5．6－12．5 |  |  | IN $=6.3-14$ |  |  | iv $=7.1$－12．5 |  |  | G 1 | Gs |
|  | d1） | h | b | di ${ }^{1)}$ | L | b | d1） | ${ }^{\text {h }}$ | b | di ${ }^{1)}$ | h | b | di1） | h | ： |  |  |
| 13 | 110 | 205 | 165 |  |  |  |  |  |  |  |  |  |  |  |  | 1070 | 1110 |
| 14 |  |  |  |  |  |  |  |  |  | 110 | 205 | 165 |  |  |  | 1140 | 1180 |
| 15 | 130 | 245 | 200 |  |  |  |  |  |  |  |  |  |  |  |  | 127 | 1322 |
| 16 |  |  |  |  |  |  | 130 | 245 | 200 |  |  |  |  |  |  | 1323 | 1368 |
| 17 |  |  |  | 150 | 245 | 200 |  |  |  |  |  |  |  |  |  | 1435 | 1480 |
| 18 |  |  |  |  |  |  |  |  |  |  |  |  | 150 | 245 | 200 | 1495 | 1540 |



| 格格 <br> Size |
| :---: |
| 13 |
| 14 |
| 15 |
| 16 |
| 16 |
| 17 |
| 18 |


| R寸mm |  |  |  |  |  | Dimensions in mm |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 齿辒觰 Gear units |  |  |  |  |  |  |  |  |  |  |  |  |
| $0_{8}$ | h | $\mathrm{h}_{1}$ | $\mathrm{h}_{2}$ | H | m1 | $\mathrm{m}_{2}$ | $\mathrm{m}_{3}$ | ${ }^{n}$ | n2 | ns | n4 | s |
| 1130 | 440 | 450 | 460 | 900 | 465 | 465 | 580 | 100 | 305 | 675 | 340 | 35 |
| 200 | 440 | 450 | 460 | 900 | 465 | 605 | 580 | 100 | 375 | 745 | 340 | 35 |
| 1340 | 500 | 490 | 500 | 1000 | 555 | 555 | 670 | 120 | 365 | 805 | 375 | 42 |
| 1305 | 500 | 490 | 500 | 1000 | 555 | 645 | 670 | 120 | 410 | 850 | 375 | 42 |
| 1500 | 550 | 555 | 560 | 1110 | 610 | 610 | 780 | 135 | 390 | 895 | 420 | 48 |
| 1560 | 550 | 555 | 560 | 1110 | 610 | 730 | 780 | 135 | 450 | 955 | 420 | 48 |


| $\begin{aligned} & \text { 㚘格 } \\ & \text { Size } \end{aligned}$ | 矿 mm Dimensions in mm |  |  |  |  |  |  |  |  |  |  | Weight |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 絾出轱 Output |  |  |  |  |  |  |  |  | мтв2．${ }^{\text {¢ }}$ | MTB2．M |  |  |
|  | MTB2SH |  |  | MTS［2HH｜MTB2H｜ |  | MTB2DH MTB2DM |  |  |  |  |  | $\begin{array}{\|c\|} \hline \text { Мтв2. } \mathrm{H} \\ \hline \\ \hline(\mathrm{~kg}) \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline \text { мтв2.M } \\ \hline(\mathrm{kg}) \\ \hline \end{array}$ |
|  | $\mathrm{d}_{2}$ 1） | $\mathrm{G}_{2}$ | ${ }^{1}$ | $\mathrm{D}^{2}{ }^{2)}$ | $\mathrm{G}_{4}$ | $\mathrm{D}_{3}$ | D4 | $\mathrm{G}_{4}$ | $\mathrm{G}_{5}$ |  |  |  |  |
| 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 MTB3．H Type MTB3．H 规格 3 ．．12 Sizes 3．．． 12


1）$k \in \Phi \Phi_{50} \quad$ me $>\Phi_{50}$
 2）铛書 GB／1095－1979。Keyway GB／T1095－1979．
3）扭力支掊位于工作机钢。Torque support on diven 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 MTB3．H Type MTB3．H

规格 $3 . . .12$
Sizes 3．．． 12

| $\begin{aligned} & \text { 规格 } \\ & \text { Size } \end{aligned}$ | R才mm Dimensions in mm |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 櫄入戟 Input |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | in $=12.5-45$ |  |  | $\mathrm{in}=16-56$ |  |  | in $=20-45$ |  |  | $\mathrm{in}=50-71$ |  |  | $\mathrm{in}=63-90$ |  |  | $G_{1}$ | $\mathrm{G}_{3}$ |
|  | $\mathrm{d}_{1}{ }^{11}$ | $\mathrm{I}_{1}$ | 13 | $\mathrm{d}_{1}{ }^{1)}$ | $\mathrm{I}_{1}$ | 13 | $d_{1}{ }^{1}$ | ${ }_{1}$ | 13 | $d_{1}{ }^{11}$ | $\mathrm{I}_{1}$ | 13 | $\mathrm{d}_{1}{ }^{11}$ | $\mathrm{I}_{1}$ | 13 |  |  |
| 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 |


| $\begin{aligned} & \text { 衉 } \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | a | $\mathrm{A}_{1}$ | $\mathrm{A}_{2}$ |  | b | $\mathrm{B}_{1}$ | c | $c_{1}$ |  | $\mathrm{d}_{6}$ | $\mathrm{D}_{5}$ |  | ${ }^{\text {e }}$ | E | $g$ |
| 3 | 450 | 170 | 170 |  | 190 | 128 | 22 | $24 \pm 1$ |  | 90 | 18 |  | 90 | 220 | 71 |
| 4 | 565 | 195 | 200 |  | 215 | 143 | 28 | $30 \pm 1$ |  | 110 | 24 |  | 110 | 270 | 77.5 |
| 5 | 640 | 220 | 235 |  | 255 | 168 | 28 | $30 \pm 1$ |  | 130 | 24 |  | 130 | 315 | 97.5 |
| 6 | 720 | 220 | 235 |  | 255 | 168 | 28 | $30 \pm 1$ |  | 130 | 24 |  | 130 | 350 | 97.5 |
| 7 | 785 | 275 | 275 |  | 300 | 193 | 35 | $36 \pm 1$ |  | 165 | 28 |  | 160 | 385 | 114 |
| 8 | 890 | 275 | 275 |  | 300 | 193 | 35 | $36 \pm 1$ |  | 165 | 28 |  | 160 | 430 | 114 |
| 9 | 925 | 315 | 325 |  | 370 | 231 | 40 | $45 \pm 1.5$ |  | 175 | 36 |  | 185 | 450 | 140 |
| 10 | 1025 | 315 | 325 |  | 370 | 231 | 40 | $45 \pm 1.5$ |  | 175 | 36 |  | 185 | 500 | 140 |
| 11 | 1105 | 370 | 385 |  | 430 | 263 | 50 | $54 \pm 1.5$ |  | 190 | 40 |  | 225 | 545 | 161 |
| 12 | 1260 | 370 | 385 |  | 430 | 263 | 50 | $54 \pm 1.5$ |  | 190 | 40 |  | 225 | 615 | 161 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | R才mm | Dimensions in | in mm |  |  |  |  |  |  |
|  |  |  |  |  |  |  | 齿辚 | Gear units |  |  |  |  |  |  |  |
| Size | $\mathrm{G}_{6}$ | h |  | $\mathrm{h}_{5}$ |  | H | $\mathrm{m}_{1}$ | $\mathrm{m}_{3}$ | $\mathrm{n}_{1}$ | $\mathrm{n}_{2}$ |  | $\mathrm{n}_{3}$ |  | $\mathrm{n}_{4}$ | $s$ |
| 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 | 840 | 230 |  | 130 |  | 482 | 510 | 220 | 105 | 145 |  | 440 |  | 180 | 19 |
| 7 | 720 | 280 |  | 170 |  | 572 | 545 | 260 | 120 | 130 |  | 500 |  | 215 | 24 |
| 8 | 765 | 230 |  | 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 | 350 |  | 220 |  | 782 | 775 | 370 | 165 | 180 |  | 710 |  | 300 | 35 |
| 12 | 1080 | 380 |  | 210 |  | 790 | 930 | 370 | 165 | 265 |  | 780 |  | 300 | 35 |


| $\begin{aligned} & \text { 双格 } \\ & \text { Size } \end{aligned}$ | R才mm Dimensions in mm |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | ， |  |  |  |  |  |  |
|  | MTB3SH |  |  | мтвзн |  | MTB3DH |  |  |  |  |  |
|  | $\mathrm{d}_{2}{ }^{1}$ | $\mathrm{G}_{2}$ | $\mathrm{I}_{2}$ | $\mathrm{D}_{2}{ }^{2}$ | $\mathrm{a}_{4}$ | $\mathrm{D}_{3}$ | $\mathrm{D}_{4}$ | $\mathrm{G}_{4}$ | $\mathrm{a}_{5}$ |  |  |
| 3 | 65 | 125 | 140 | 65 | ${ }^{25}$ | 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 | 180 | 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 Horizonta类型 MTB3．H，MTB3．M Types MTB3．H，MTB3．M 规格 $13 \ldots 22$ Sizes $13 \ldots 22$



直交轴齿轮箱 Bevel－helical Gear Units 三级传动 Three Stage 卧式安装 Horizontal类型 MTB3．H，B3．M Types MTB3．H，MTB3．M 规格 13．．． 22 Sizes 13．．． 22

| $\begin{array}{\|l\|}  \\ \text { 知格 } \\ \text { Size } \end{array}$ | Jmm Dimensions in mm |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | in $=63-90$ |  |  |  |  |
|  | $\mathrm{i}=12.5-45$ |  |  | in＝14－50 |  |  | in＝16－56 |  |  |  |  |  | in 5 56－80 |  |  |  |  |  | G1 | ¢3 |
|  | di1） | h | 13 | di1） | ${ }^{4}$ | 13 | di1） | ${ }_{1}$ | 13 | di1） | ${ }^{1}$ | 13 | di1） | 1 | 13 |  | 1 | 13 |  |  |
| 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 |  |  |  |  |  |  | 30 | 170 | 130 |  |  |  |  |  |  | 1560 | 1600 |
| 18 |  |  |  | 110 | 205 | 165 |  |  |  |  |  |  | 80 | 170 | 130 |  |  |  | 1620 | 1660 |
| 19 | 130 | 245 | 200 |  |  |  |  |  |  | 100 | 210 | 165 |  |  |  |  |  |  | 1832 | 187 |
| 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 |  |  |  |  | 2002 |


| $\begin{aligned} & \text { 规格 } \\ & \text { Size } \end{aligned}$ | 尺寸mm Dimensionsin mm |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 齿挠鯆 Gear units |  |  |  |  |  |  |  |  |  |  |  |  |
|  | a | A | $\mathrm{A}_{2}$ | b | $B_{1}$ | c | 9 | ds | D5 | $\theta 2$ | ${ }^{\text {es }}$ | E | 9 |
| 13 | 1290 | 425 | 435 | 550 | 325 | 60 | $61 \pm 2$ | 210 | 48 | 405 | 265 | 635 | 211.5 |
| 14 | 1430 | 425 | 435 | 550 | 325 | 60 | $61 \pm 2$ | 210 | 48 | 475 | 265 | 705 | 211.5 |
| 15 | 1550 | 485 | 520 | 625 | 365 | 70 | $72 \pm 2$ | 210 | 55 | 485 | 320 | 762 | 238 |
| 16 | 1640 | 485 | 520 | 625 | 365 | 70 | $72 \pm 2$ | 210 | 55 | 530 | 320 | 808 | 238 |
| 17 | 1740 | 535 | 570 | 690 | 395 | 80 | $81 \pm 2$ | 230 | 55 | 525 | 370 | 860 | 259 |
| 18 | 1860 | 535 | 570 | 690 | 395 | 80 | $81 \pm 2$ | 230 | 55 | 585 | 370 | 920 | 259 |
| 19 | 2010 | 610 | 630 | 790 | 448 | 90 | $91 \pm 2$ | 245 | 65 | 590 | 420 | 997 | 299 |
| 20 | 2130 | 610 | 630 | 790 | 448 | 90 | $91 \pm 2$ | 245 | 65 | 650 | 420 | 1057 | 299 |
| 21 | 2140 | 690 | 690 | 830 | 473 | 100 | $100 \pm 2$ | 280 | 75 | 655 | 450 | 1067 | 310 |
| 22 | 2250 | 690 | 690 | 830 | 473 | 100 | $100 \pm 2$ | 280 | 75 | 710 | 450 | 1122 | 310 |


|  | R才mm Dimensions in mm |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 齿业䥻 Gear units |  |  |  |  |  |  |  |  |  |  |  |  |
|  | ${ }^{6}$ | h | ${ }^{\text {h1 }}$ | ${ }^{2}$ | H | m1 | m2 | m | ${ }^{1} 1$ | n2 | n3 | n 4 | $s$ |
| $1{ }^{13}$ | 1130 | 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 | 1600 | 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 | （20 | 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 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | fmm | Dimen | ns in m |  |  |  |  |  |  |  |
| 规格 |  |  |  | － | － 0 |  |  |  |  |  |  |  |  |
| Size |  | пtb3sh |  | MTE ЗH | итззн |  | мTB3D | TB3DM |  | мтвз．Н | мтвз．M | мтвз．${ }^{\text {¢ }}$ | мтвз．М |
|  | $\mathrm{D}_{2}{ }^{1}$ | $\mathrm{G}_{2}$ | 12 | $\mathrm{D}_{2}{ }^{2}$ | Q | $\mathrm{D}_{3}$ | $\mathrm{D}_{4}$ | $\mathrm{G}_{4}$ | $\mathrm{G}_{5}$ | （I） | （1） | （kg） | （kg） |
| 13 | 200 | 335 | 350 | 190 | －335 | 190 | 195 | 335 | 480 | 130 | 110 | 2380 | 2260 |
| 14 | 210 | 335 | 350 | 210 | 335 | 210 | 215 | 335 | 480 | 140 | 115 | 2750 | 2615 |
| 15 | 230 | 380 | 410 | 230 | 360 | 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 | 6240 | 6050 |
| 20 | 300 | 465 | 500 | － | － | 310 | 315 | 465 | 670 | 440 | 420 | 6950 | 6710 |
| 21 | 320 | 490 | 500 | － | － | 330 | 335 | 490 | 715 | 370 | 420 | 8480 | 8190 |
| 22 | 340 | 490 | 550 | － | － | 340 | 345 | 490 | 725 | 430 | 490 | 9240 | 895 |

直交轴齿轮箱 Bevel－helical Gear Units类型 MTB3．H，MTB3．M Types MTB3．H，MTB3．M 规格 $23 . .26$ Sizes $23 . . .26$


風期
＊输出辅 Output


1） $\mathrm{k} \varepsilon \leq \Phi 50 \quad \mathrm{~m} \gg \Phi 50$

3）捙力支排位于工作机。Keyway GB／T1095－1979．
3）捙力支排位于工作机滞。Torque support on diviven 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 MTB3．H，MTB3．M Types MTB3．H，MTB3．M 规格 23．．． 26 Sizes $23 . . .26$


|  | R才mm Dimensions in mm |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 齿轮镇 Gear units |  |  |  |  |  |  |  |  |  |  |  |  |
|  | a | $A_{1}$ | $\mathrm{A}_{2}$ | b | $B_{1}$ | c | ${ }^{\circ}$ | ds | Ds | ${ }^{2}$ | ${ }^{\text {es }}$ | E | $g$ |
| 23 | 2380 | 70 | 770 | 930 | 528 | 115 | $120 \pm 2$ | 350 | 80 | 730 | 490 | 1185 | 342 |
| 24 | 2510 | 770 | 770 | 930 | 528 | 115 | $120 \pm 2$ | 350 | 80 | 795 | 490 | 1250 | 342 |
| 25 | 2580 | 845 | 865 | 1045 | 585 | 130 | $120 \pm 2$ | 380 | 90 | 790 | 490 | 1325 | 400 |
| 26 | 2760 | 845 | 865 | 1045 | 585 | 130 | $120 \pm 2$ | 330 | 90 | 880 | 490 | 1415 | 400 |



| Size | R才 $m \mathrm{~m}$ Dimensions l m $m$ |  |  |  |  |  |  |  |  | 解 Weight |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | мTB3SH |  |  | MTB3D MTB3D |  |  |  | мтвз．${ }^{\text {¢ }}$ | мтвз．М | мтвз．Н | мтвз |
|  | （21） | $\mathrm{Q}_{2}$ | 12 | D3 | D4 | a | ${ }^{45}$ | （1） | （1） | （kg） | （kg） |
| 23 | ${ }^{360}$ | 540 | 590 | 360 | ${ }^{365}$ | 540 | 785 | 520 | 560 | 11500 | 10600 |
| ${ }^{24}$ | ${ }^{330}$ | 540 | 590 | 380 | 385 | 540 | 805 | 600 | ${ }_{650}$ | 13400 | 12500 |
| ${ }^{25}$ | 400 | 605 | ${ }_{650}$ | 400 | 405 | 605 | ${ }^{875}$ | 720 | 790 | 18000 | 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 Horizonta

类型 MTB4．H Type MTB4．H 规格 $5 . . .12$ Sizes $5 . . .12$

1） $\mathrm{ke} \leqslant \Phi 50 \quad \mathrm{me}>\Phi 50$

2）镪塂 $\mathrm{GB} / \mathrm{T} 1095-1979$ 。 Keyway GB／T1095－1979．
3）扭力支拫位于工作机则。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 MTB4．H Type MTB4．H 规格5．．． 12 Sizes 5．．． 12

| $\underset{\substack{\text { 賏格 } \\ \text { Size }}}{ }$ | R寸 mm Dimensionsin mm |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | in $=80-180$ |  | $\mathrm{in}=100-224$ |  | $\begin{aligned} & \text { Input } \\ & \text { in }=200-315 \end{aligned}$ |  | $\mathrm{in}=250-400$ |  | $a_{1}$ |
|  |  |  |  |  |  |  |  |  |  |
|  | d11） | 11 | d1 1） | 11 | d11） | 11 |  |  |  |
| 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 |


|  | R才mm Dimensionsin mm |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | Dimensions in mm |  |  |  |  |  |  |  |  |
|  | a | b | － | 9 | Ds | E | 9 | h | hs | H | m1 | ms | n1 | n2 | ns | n4 | $s$ |
| 5 | 690 | 255 | 28 | $30 \pm 1$ | 24 | 405 | 97.5 | 230 | 100 | 482 | 480 | 220 | 105 | 100 | 455 | 180 | 19 |
| 6 | 770 | 255 | 28 | $30 \pm 1$ | 24 | 440 | 97.5 | 230 | 100 | 482 | 560 | 220 | 105 | 145 | 490 | 180 | 19 |
| 7 | 845 | 300 | 35 | $36 \pm 1$ | 28 | 495 | 114 | 280 | 140 | 572 | 605 | 260 | 120 | 130 | 560 | 215 | 24 |
| 8 | 950 | 300 | 35 | $36 \pm 1$ | 28 | 540 | 114 | 280 | 130 | 582 | 710 | 260 | 120 | 190 | 605 | 215 | 24 |
| 9 | 1000 | 370 | 40 | $45 \pm 1.5$ | 36 | 580 | 140 | 320 | 135 | 662 | 710 | 320 | 145 | 155 | 660 | 245 | 28 |
| 10 | 1100 | 370 | 40 | $45 \pm 1.5$ | 36 | 630 | 140 | 320 | 135 | 662 | 810 | 320 | 145 | 205 | 710 | 245 | 28 |
| 11 | 1200 | 430 | 50 | $54 \pm 1.5$ | 40 | 705 | 161 | 380 | 170 | 782 | 870 | 370 | 165 | 180 | 805 | 300 | 35 |
| 12 | 1355 | 430 | 50 | $54 \pm 1.5$ | 40 | 775 | 161 | 380 | 160 | 790 | 1025 | 370 | 165 | 265 | 875 | 300 | 35 |

直交轴齿轮箱 Bevel－helical Gear Units 四级传动 Four Stage 卧式安装 Horizontal类型 MTB4．H，MTB4．M Types MTB4．H，MTB4．M 规格 13．．． 22 Sizes $13 . . .22$



 2）


直交轴齿轮箱 Bevel－helical Gear Units 四级传动 FourStage
卧式安装 Horizontal类型 MTB4，H，MTB4．M Types MTB4．H，MTB4．M 规格 13．．．22 Sizes 13．．． 22

| $\begin{aligned} & \text { 墔格 } \end{aligned}$ | R寸 mm Dimensions in mm |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | $\mathrm{i}=80-180$ |  | in＝90－200 |  | in $=100-224$ |  | $\mathrm{i}=200-315$ |  | in＝224－355 |  | in＝250－400 |  | $\mathrm{a}_{1}$ |
|  | d11） | 11 | d11） | 1 | d11） | 11 | d11） | 11 | d11） | 11 | d11） | 11 |  |
| 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 |


| $\begin{aligned} & \text { 鍆格相 } \end{aligned}$ | R寸 mm Dimensions in mm |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 齿糔策 Gear units |  |  |  |  |  |  |  |  |  |
|  | a | b | － | 9 | Ds | ${ }^{2}$ | E | 9 | h | $h_{1}$ |
| 13 | 1395 | 550 | 60 | $61 \pm 2$ | 48 | 405 | 820 | 211.5 | 440 | 450 |
| 14 | 1535 | 550 | 60 | $61 \pm 2$ | 48 | 475 | 890 | 211.5 | 440 | 450 |
| 15 | 1680 | 625 | 70 | $72 \pm 2$ | 55 | 485 | 987 | 238 | 500 | 490 |
| 16 | 1770 | 625 | 70 | $72 \pm 2$ | 55 | 530 | 1033 | 238 | 500 | 490 |
| 17 | 1770 | 0 | 80 | $81 \pm 2$ | 55 | 525 | 1035 | 259 | 550 | 555 |
| 18 | 1890 | 690 | 80 | $81 \pm 2$ | 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さ2 | 75 | 655 | 1387 | 310 | 700 | 685 |
| 22 | 2450 | 830 | 100 | $100 \pm 2$ | 75 | 710 | 1442 | 310 | 700 | 685 |


|  | R寸 mm Dimensions in mm |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 齿较祴 Goar units |  |  |  |  |  |  |  |  |  |  |  |  |
|  | $\mathrm{h}_{2}$ |  |  | m1 | m2 | m3 |  | n1 | n2 | n3 |  | n4 | $s$ |
| 13 | 460 |  |  | 597.5 | 597.5 | 475 |  | 100 | 305 | 940 |  | 340 | 35 |
| 14 | 460 |  |  | 597.5 | 737.5 | 475 |  | 100 | 375 | 1010 |  | 340 | 35 |
| 15 | 500 |  |  | 720 | 720 | 535 |  | 120 | 365 | 1135 |  | 375 | 42 |
| 16 | 500 |  |  | 720 | 810 | 535 |  | 120 | 410 | 1180 |  | 375 | 42 |
| 17 | 560 |  |  | 750 | 750 | 600 |  | 135 | 390 | 1175 |  | 425 | 42 |
| 18 | 560 |  |  | 750 | 870 | 600 |  | 135 | 450 | 123 |  | 425 | 42 |
| 19 | 620 | 12 |  | 860 | 860 | 690 |  | 155 | 435 | 1365 |  | 475 | 48 |
| 20 | 620 | 12 |  | 860 | 980 | 690 |  | 155 | 495 | 1425 |  | 475 | 48 |
| 21 | 690 |  |  | 1000 | 1000 | 720 |  | 170 | 485 | 1615 |  | 520 | 56 |
| 22 | 690 | 18 |  | 1000 | 1110 | 720 |  | 170 | 540 | 1670 |  | 520 | 56 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | R寸 mm | Dimensio | ns in mm |  |  |  |  |  |  |  |
|  |  |  |  |  | Imp | ut |  |  |  |  |  |  |  |
| Size |  | TB4SH |  | M ［B4HH | TB4HM |  | итB4D | MTB4D |  | MTB4．H | MTB4．M | MTB4．H | MTB4．M |
|  | d1） | $\mathrm{G}_{2}$ | 12 | （02） | 04 | D3 | D4 | $\mathrm{G}_{4}$ | G5 | （1） | （1） | （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 | 350 | 230 | 235 | 380 | 550 | 230 | 170 | 3630 | 3435 |
| 16 | 240 | 380 | 410 | 240 | 380 | 240 | 245 | 380 | 550 | 235 | 175 | 3995 | 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 | － | － | 265 | 295 | 465 | 670 | 480 | 440 | 5750 | 5400 |
| 20 | 300 | 465 | 500 | － | － | 310 | 315 | 465 | 670 | 550 | 510 | 6450 | 6000 |
| 21 | 320 | 490 | 500 | － | － | 330 | 335 | 490 | 715 | 540 | 590 | 7850 | 7350 |
| 22 | 340 | 490 | 550 | － | － | 340 | 345 | 490 | 725 | 620 | 680 | 8400 | 7850 |

直交轴齿轮箱 Bevel－Helical Gear Units 四级传动 Four Stage 卧式安装 Horizontal类型 MTB4．H，MTB4．M Types MTB4．H，MTB4．M 规格 $23 \ldots 26$ Sizes $23 \ldots 26$


1）$k \in \leq \Phi 50 \quad \mathrm{me}>\Phi_{50}$

2）锶樓 GBT1095－1979。Kesway GBT1095－1979
3）扭力支榇位于工作机鲃。Torque support on driven machine side

直交轴齿轮箱 Bevel－helical GearUnits 四级传动 Four Stage 卧式安装 Horizontal类型 MTB4．H，MTB4．M Types MTB4．H，MTB4．M 规格 $23 . . .26$ Sizes $23 . . .26$

| $\underset{\substack{\text { 賏格 } \\ \text { Sizo }}}{ }$ | R寸mm Dimensions in mm |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |
|  | in＝80－180 |  | $\mathrm{in}=90-200$ |  | $\mathrm{in}=200-315$ |  | in＝224－355 |  | G1 |
|  | d11） | 11 | d11） | 1 | d1） | ${ }^{1}$ | d11） | 1 |  |
| 23 | 90 | 165 |  |  | 70 | 140 |  |  | 2110 |
| 24 |  |  | 90 | 165 |  |  | 70 | 140 | 2175 |
| 25 | 110 | 205 |  |  | 80 | 170 |  |  | 2395 |
| 26 |  |  | 110 | 205 |  |  | 80 | 170 | 2485 |


|  | R $\mathrm{Jtmm}^{\text {dimensions in } \mathrm{mm}}$ |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 齿轮铺 Gear units |  |  |  |  |  |  |  |  |  |
|  | a | b | c | 01 | Ds | ${ }^{\text {® }}$ | E | $g$ | h | $\mathrm{h}_{1}$ |
| 23 | 2530 | 930 | 115 | 120 2 | 80 | 730 | 1505 | 342 | 780 | 770 |
| 24 | 2660 | 930 | 115 | $120 \pm 2$ | 80 | 795 | 1570 | 342 | 780 | 770 |
| 25 | 2830 | 1045 | 130 | $120 \pm 2$ | 80 | 790 | 1695 | 400 | 860 | 860 |
| 26 | 3010 | 1045 | 130 | $120 \pm 2$ | 80 | 880 | 1785 | 400 | 860 | 860 |



类型 MTH2．V Type MTH2．V
二级传动 Two Stage
立式安装 Vertical规格 3． 12 Sizes 3．．． 12


理
MTH2SV MTH2HV MTH2DV
采用强制润滑 With forced lubrication
．



| ＊输出轴 Output |  |  | 布旁形式 Design |
| :---: | :---: | :---: | :---: |
| MTH2SV实心轴 <br> Solid shaft | MTH2HV空心轴 <br> Hollow shaft | MTH2DV <br>  Hollow shatt tor shrink disk |  |

1）$k \in \leq \Phi 50 \quad m \in>\Phi_{50}$
 2）铺棈 GB／T1095－1979 Keyway GB／T1095－1979．


## 平行轴齿轮箱 Helical Gear Units

类型 MTH2．V Type MTH2．V 规格 3．．． 12 Sizes 3．．． 12

| $\underset{\substack{\text { 执梅 } \\ \text { Size }}}{ }$ | 尺寸t mm Dimensionsin mm |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |
|  | $\mathrm{i}_{\mathrm{N}} \mathrm{N}=6.3-11.2$ |  | $\mathrm{i}^{\mathrm{N}=8-14}$ |  | $\mathrm{i}^{1} \mathrm{~N}=12.5-22.4$ |  | I $\mathrm{N}=16-28$ |  | $\mathrm{a}_{1}$ |
|  | $d_{1}{ }^{1)}$ | $\mathrm{I}_{1}$ | $\mathrm{d}_{1}{ }^{1)}$ | $I_{1}$ | $\mathrm{d}_{1}{ }^{1}$ | $\mathrm{I}_{1}$ | $\mathrm{d}_{1}{ }^{11}$ | $\mathrm{I}_{1}$ |  |
| 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 |



| ${ }_{\text {Size }}^{\text {Sku }}$ | R才mm Dimensions in mm |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | Gear units |  |  |  |  |  |
|  | n | $\mathrm{h}_{1}$ | $\mathrm{h}_{2}$ | $\mathrm{h}_{3}$ | $\mathrm{m}_{1}$ | $\mathrm{m}_{2}$ | $\mathrm{n}_{1}$ | $\mathrm{n}_{2}$ | $p_{14}$ | $\mathrm{P}_{2}{ }^{4}$ | $s$ |
| ， | 95 | 165 | － | 180 | 410 | 265 | 20 | 125 | 35 | 210 | 18 |
| 4 | 1075 | 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 |


| $\begin{aligned} & \text { 琽格 } \\ & \text { Size } \end{aligned}$ | 下可 mm Dimensions in mm |  |  |  |  |  |  |  |  | 洞㴆油 O |  | $\begin{gathered} \text { 畺畵 } \\ \text { Welght } \end{gathered}$$(\mathrm{kg})$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | MTH2SV |  |  |  |  | Outpu |  |  |  | $\begin{array}{\|c\|} \hline \begin{array}{c} \text { 浸油浸润 } \\ \text { Dip lubrication } \\ \text { (I) } \end{array} \\ \hline \end{array}$ | 强制洞滑Foged lubrication（I） |  |
|  |  |  |  | MTH2DV |  |  |  |
|  | ${ }^{\text {d }}{ }^{11}$ | $\mathrm{G}_{2}$ | $\mathrm{I}_{2}$ |  |  | $\mathrm{D}_{2}$ 2 | $\mathrm{G}_{4}$ | $\mathrm{D}_{3}$ | $\mathrm{D}_{4}$ |  |  |  | $\mathrm{G}_{4}$ | $\mathrm{G}_{5}$ |
| 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 | 105 | 100 | 100 | 185 | 240 | 23 | 10 | 300 |
| 6 | 110 | 165 | 210 | 105 | 165 | 110 | 110 | 185 | 240 | 27 | 11 | 355 |
| 7 | 120 | 195 | 210 | 115 | 195 | 120 | 120 | 195 | 280 | 58 | 22 | 505 |
| 8 | 130 | 195 | 250 | 125 | 195 | $130^{\circ}$ | 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 | 180 | 60 | 1335 |
| 12 | 180 | 270 | 300 | 180 | 270 | 180 | 185 | 270 | 405 | 180 | 70 | 1615 |




| ＊输出轴 Output |  |  | 布䁺形式 Design |
| :---: | :---: | :---: | :---: |
| MTH2SV实心轴 <br> Solid shaft | MTH2HV空心轴 <br> Hollow shaft | MTH2DV带脤紧盘的空心斩 <br> Hollow shaft for shrink disk <br> 布罝形式 $A+D$ 根据用户要求供货 Design $A+D$ on request |  |

## 平行轴齿轮箱 Helical Gear Units

两级传动 Two Stage
立式安装 Vertical
规格 13．．．18Sizes 13．．． 18

1） $\mathrm{ke} \leq \Phi 50 \mathrm{me}>\Phi$ ©


4）有关油录，油管和护盖的安安装室间及解切尺寸，请与我们联系。Space for pump，pipes and cover，for exact dimensions，please refer to us．


## 类型 MTH2．V Type MTH2．V



| 平行轴齿轮箱 Helical Gear Units | 三级传动 Three Stage |
| :--- | ---: |
| 类型 MTH3．V Type MTH3．V 立式安装 Vertical |  |



MTH 3 SV MTHзHV MTHзDV
MTH3SV MTH3HV MTH3DV
采用强制润滑 With forced lubrication




1）$k \in \leqslant \Phi 50 \quad$ me $>\Phi_{50}$
有关平律 GB／1095－1979型和中心れ，参见第316面

3）扭力嫁位于工作抗風 Torque support on dirven machine side．


## 平行轴齿轮箱 Helical Gear Units

类型 MTH3．V Type MTH3．V立式安装 Vertical

| 规格SizeSter | R寸 mm Dimensions in mm |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Inputin $=63-80$ |  |  |  |  |  | $\mathrm{G}_{1}$ |
|  | in $=25-45$ |  | $\mathrm{in}^{\mathrm{N}=31.5-56}$ |  | $\mathrm{in}=50-63$ |  |  |  | $\mathrm{in}=71-90$ |  | in $=90-112$ |  |  |
|  | $\mathrm{D}_{1}{ }^{11}$ | ， | d ${ }^{11^{1}}$ | ${ }_{1}$ | d，${ }^{1}$ ） | 1 | d11） | ${ }_{1}$ | di1）${ }^{\text {d }}$ |  | $\left.{ }_{\text {d1 }}{ }^{1}\right)$ | 1 |  |
| 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 |


| $\begin{aligned} & \text { 帻格 } \\ & \text { Size } \end{aligned}$ | R寸 mm Dimensionsin mm |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 齿辒钵 |  |  |  |  | Gearunits |  | 12 | ${ }^{5}$ | h |
|  | $a$ | $\mathrm{b}_{1}$ | － | ${ }^{4}$ | ${ }^{\text {as }}$ |  |  |  |  |  |
| 5 | 690 | 240 | $30 \pm 1$ | 230 | 252 | 385 | 405 | 28 | 190 | 127.5 |
| 6 | 770 | 240 | $30 \pm 1$ | 230 | 252 | 425 | 440 | 28 | 190 | 127.5 |
| 7 | 845 | 240 | $36 \pm 1$ | 280 | 292 | 425 | 495 | 30 | 185 | 150 |
| 8 | 950 | 240 | $36 \pm 1$ | 280 | 312 | 485 | 540 | 32 | 185 | 150 |
| 9 | 1000 | 330 | $45 \pm 1.5$ | 320 | 342 | 560 | 580 | 32 | 170 | 185 |
| 10 | 1100 | 330 | $45 \pm 1.5$ | 320 | 342 | 610 | 630 | 32 | 170 | 185 |
| 11 | 1200 | 330 | $54 \pm 1.5$ | 380 | 402 | 595 | 705 | 35 | 170 | 215 |
| 12 | 1355 | 330 | $54 \pm 1.5$ | 380 | 410 | 680 | 775 | 35 | 170 | 215 |


| $\begin{aligned} & \text { Sk 格 } \\ & \text { Size } \end{aligned}$ | R才 mm Dimensions in mm |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 齿较钼 |  |  |  |  | Gear units |  |  |  |  |
|  | h1 | h2 | h3 | m1 | m2 | ${ }^{\text {n1 }}$ | ${ }^{1} 2$ | $\mathrm{p}^{4}{ }^{4}$ | $\mathrm{p}_{2}{ }^{4}$ | $s$ |
| 5 | 205 | 190 | 240 | 630 | 360 | 30 | 5 | 35 | 70 | 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 | 24 | 340 | 1100 | 600 | 50 | 295 | 50 | 440 | 40 |
| 12 | 275 | 24. | 340 | 1255 | 600 | 50 | 380 | 50 | 440 | 40 |


| $\begin{aligned} & \text { 頳格 } \end{aligned}$ | R寸 nm Dimensions inm |  |  |  |  |  |  |  |  | 浦肃油 Oill |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | utput |  |  |  | $\begin{gathered} \text { 漫油洞滑 } \\ \text { Dip lubrication } \\ \text { (I) } \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { 强制润濐 } \\ \text { Forced } \\ \text { (I) } \\ \text { (I) } \end{array}$ |  |
|  |  |  |  |  |  | MT |  |  |  |  |  |  |
|  | d2 ${ }^{1}$ | $\mathrm{G}_{2}$ | 12 | $\left(\mathrm{D}_{2}{ }^{2}\right.$ | $\mathrm{a}_{4}$ | D3 | D4 | G4 | Gs |  |  |  |
| 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 MTH3．V Type MTH3．V | 规格 13.18 Sizes 13．．．18 |  |


| 平行轴齿轮箱 Helical Gear Units类型 MTH3．V Type MTH3．V |  |  |  |  |  |  |  |  | 三级传动 Three Stage规格13．．． 18 Sizes 13．．． 18 |  |  |  |  |  | 立式安装 Vertical |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 妷格Size |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | in $=22.4-45$ |  | in＝25－50 |  | in $=28-56$ |  | in F 50－63 |  | in $=56-71$ |  | in $=63-80$ |  | in $=71-90$ |  |  | in＝80－100 |  | in $=90-112$ |  |  |
|  | di1） | 1 | di ${ }^{1)}$ | ${ }^{1}$ | d1 ${ }^{12}$ | 1 | di1） | 11 | d1） | 1 |  |  | d1 |  |  | 1 |  |  | 1） 11 |  |
| 13 | 85 | 160 |  |  |  |  | 60 | 135 |  |  |  |  | 50 | 11 |  |  |  | 310 |  |  |
| 14 |  |  |  |  | 85 | 160 |  |  |  |  | 60 | 135 |  |  |  |  |  |  | 50 | 110 | 310 |
| 15 | 100 | 200 |  |  |  |  | 75 | 140 |  |  |  |  | 60 | 14 |  |  |  |  |  | 350 |
| 16 |  |  | 100 | 200 |  |  |  |  | 75 | 140 |  |  |  |  |  |  |  |  |  | 350 |
| 17 | 100 | 200 |  |  |  |  | 75 | 140 |  |  |  |  | 60 | 14 |  |  |  |  |  | 380 |
| 18 |  |  | 100 | 200 |  |  |  |  | 75 | 140 |  |  |  |  |  |  |  |  |  | 380 |
| 19 |  |  |  |  |  |  |  | 根据用户要求供贷 On request |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



1）$k \in \leq \Phi 5_{0} \quad m \in>\Phi 50$
 2）铛撸 $G B / 1095-1979$ Keyway GB／T1095－1979．
3）扭力支掊位于工作机细 Torque support on diriven machine side．
4）有关油条，油管和护盖的安装空间及嫥切尺寸，请与我们联系 Space for pump，pipes and cover；for exact dimensions，please refer to us，

## 1



| $\begin{aligned} & \text { 知格 } \\ & \text { Size } \end{aligned}$ | 尺寸 mm Dimensions in mm |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 齿轮箱 Gear units |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | a | b | － | E | 12 |  | ${ }^{1}$ | h | h2 | m1 |  | m2 | n1 | n2 | p14） | p2 |  |  |
| 13 | 1395 | 900 | $61 \pm 2$ | 820 | 35 |  | 170 | 272.5 | 300 | 1300 |  | 680 | 50 | 360 | 50 | 500 |  |  |
| 14 | 1535 | 900 | $61 \pm 2$ | 890 | 35 |  | 170 | 272.5 | 300 | 1440 |  | 680 | 50 | 430 | 50 | 500 |  |  |
| 15 | 1680 | 980 | $72 \pm 2$ | 987 | 42 |  | 170 | 310 | 340 | 1565 |  | 750 | 60 | 430 | 50 | 570 |  |  |
| 16 | 1770 | 980 | 72ı2 | 1033 | 42 |  | 170 | 310 | 340 | 1655 |  | 750 | 60 | 475 | 50 | 570 |  |  |
| 17 | 1770 | 1110 | 81ı2 | 1035 | 42 |  | 210 | 340 | 374 | 1640 |  | 850 | 70 | 465 | 70 | 630 |  |  |
| 18 | 1890 | 1110 | $81 \pm 2$ | 1095 | 42 |  | 210 | 340 | 374 | 1760 |  | 850 | 70 | 525 | 70 | 630 |  |  |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  | 用户要求 |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  | On request |  |  |  |  |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ， |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 2 |  |  |  |  |  |  | R寸 mm D | imensi | $n \mathrm{sin} \mathrm{m}$ |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | 世轹 ou |  |  |  |  |  |  |  |  |  |
| siro |  |  | TH3SV |  |  |  | тНзнV |  |  |  |  | TH3D |  |  |  |  |  |  |
|  | （2） |  | $\mathrm{G}_{2}$ | 12 |  | $\mathrm{D}_{2}{ }^{2}$ |  | G4 | D3 |  |  |  | G4 | G5 |  |  |  |  |
| 13 | 200 |  | 335 | 350 |  | 190 |  | 335 | 190 |  |  |  | 335 | 480 |  |  | 215 |  |
| 14 | 210 |  | 335 | 350 |  | 210 |  | 335 | 210 |  |  |  | 335 | 480 |  |  | 249 |  |
| 15 | 230 |  | 350 | 410 |  | 230 |  | 380 | 230 |  |  |  | 380 | 550 |  |  | 326 |  |
| 16 | 240 |  | 380 | 410 |  | 240 |  | 380 | 240 |  |  |  | 380 | 550 |  |  | 362 |  |
| 17 | 250 |  | 415 | 410 |  | 250 |  | 415 | 250 |  |  |  | 415 | 600 |  |  | 425 |  |
| 18 | 270 |  | 4 | 470 |  | 275 |  | 415 | 280 |  |  |  | 415 | 600 |  |  | 474 |  |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  | － |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  | ， |  |  |  | On reques |  |  |  |  |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## 平行轴齿轮箱 Helical Gear Units

类型 MTH4．V Type MTH4．VMTH4SV MTH4HV MTH4DV
采用强制洞滑 With forced lubrication



## 平行轴齿轮箱 Helical Gear Units

类型 MTH4．V Type MTH4．V|  | R寸 mm Dimensions in mm |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mathrm{i}=100-180$ |  | im $125-224$ |  |  |  |  |  |  |
|  |  |  | in $=200-355$ | $\mathrm{l}=250-450$ |  | G1 |
|  | di1） | 1 |  |  | di ${ }^{11}$ |  | ${ }_{1}$ | di）${ }^{1}$ | ${ }_{1}$ | di ${ }^{11}$ | 1 |
| 7 | 30 | 50 |  |  | 24 | 40 |  |  | 180 |
| 8 |  |  | 30 | 50 |  |  | 24 | 40 | 180 |
| 9 | 35 | 60 |  |  | 28 | 50 |  |  | 215 |
| 10 |  |  | 35 | 60 |  |  | 28 | 50 | 215 |
| 11 | 45 | 100 |  |  | 32 | 80 |  |  | 250 |
| 12 |  |  | 45 | 100 |  |  | 32 | 80 | 250 |



| $\begin{aligned} & \text { 热秝 } \\ & \text { Size } \end{aligned}$ | R才mm Dimensionsin mm |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 齿挠钵 Gear units |  |  |  |  |  |  |  |  |  |  |
|  | h | $h_{1}$ | $\mathrm{h}_{2}$ | h3 | $\mathrm{m}_{1}$ | m2 | ${ }^{\text {n }}$ | n2 | $p^{44}$ | $\mathrm{p}_{2}{ }^{4}$ | $s$ |
| 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 |


| 知格Size | R寸 mm Dimensions in mm |  |  |  |  |  |  |  |  | 洞洓油 O |  | $\begin{array}{\|c} \left\lvert\, \begin{array}{c} \text { 黄 } \\ \text { Weight } \end{array}\right. \end{array}$(kg) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | MTT－4SV |  |  | 㚜出较 Output |  |  |  |  |  | $\qquad$ | $\underset{\substack{\text { 强制润滑 } \\ \text { Force lubrication } \\ \text {（I）}}}{ }$ |  |
|  |  |  |  |  |  |  |  |  |  |
|  | d2 ${ }^{11}$ | Q | 12 |  |  |  | $\mathrm{D}_{2}{ }^{2}$ | $\mathrm{G}_{4}$ | Ds |  |  |  | D4 | G4 | Gs |
| 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 |

[^2]
## 平行轴齿轮箱 Helical Gear Units 四级传动 Four Stage 立式安装 vertical 类型 MTH4 V The



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[^3]有关平鯕 GB／1095－1979型和中心秋，参见策316页。 For parallel key GBT1095－1979 and for center hole，see page 316．
2）镄榫 $\mathrm{GB} / \mathrm{T} 1095-1979$ Keyway GB／T1095－1979．
3）扭力支排位于工作机泡 Torque support on diven machine side．


## 平行轴齿轮箱 Helical Gear Units 四级传动 Four Stage 立式安装 Vertical

类型 MTH4．V Type MTH4．V 规格 13．．． 18 Sizes 13．．． 18


直交轴齿轮箱 Bevel－helical Gear Units 二级传动 Two Stage 立式安装 Vertical
类型 MTB2．V Type MTB2．V 规格 1．．． 12 Sizes 1 ．．． 12

## MTB2SV MTB2HV MTB2DV 采用尔油洞温 With dip Iubrication




有关供油方式（睃油洋洲或强制润㴗），参见332－340页 Oill supply（dip or forced lubrication），see pages 332－340


2）镂棈 $G B / 1$ 1095－1979 Keyway GB／T1095－1979．
4）有关油录，伷管和作护盖的安装定间及确切尺寸，清与我们㕸系 Space for pump，pipes and cover，for exact dimensions，please refer to us，

直交轴齿轮箱 Bevel－helical Gear Units 二级传动 Two Stage立式传动
规格 $1 . . .12$ Vertical Sizes 1．．． 12

| $\begin{aligned} & \text { 槥 } \\ & \hline \end{aligned}$ | R寸 mm Dimensions in mm |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mathrm{iN}=5-11.2$ |  |  |  |  |  |  |  |  | $\mathrm{G}_{1}$ | G3 |
|  |  |  |  | $\mathrm{iN}=12.5-18$ |  |  |
|  | di ${ }^{1}$ | 1 | 13 |  |  |  | di ${ }^{11}$ | 11 | 13 |  |  | $\mathrm{d}_{1}{ }^{1}$ | ${ }_{1}$ | 13 |
| 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 |


| 12 |  |  |  |  | 90 | 165 | 130 |  |  |  |  | 995 | 1030 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 替格 | R才 mm Dimensions in mm |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 齿域筆 Gear units |  |  |  |  |  |  |  |  |  |  |  |  |
|  | a | $A_{1}$ | $\mathrm{b}_{1}$ |  | B1 | c | ${ }^{\text {de }}$ | ${ }^{8}$ | ${ }^{4}$ | es | $\because$ | E | $\mathrm{f}_{2}$ |
| 1 | 305 | 128 | 150 |  | 130 | $16 \pm 1$ | 100 | 90 | 130 | 145 | 280 | 90 | 22 |
| 2 | 355 | 143 | 150 |  | 145 | $20 \pm 1$ | 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 | $30 \pm 1$ | 150 | 160 | 200 | 215 | 320 | 160 |  |
| 5 | 565 | 215 | 240 |  | 235 | $30 \pm 1$ | 160 | 185 | 230 | 252 | 385 | 185 | 30 |
| 6 | 645 | 215 | 240 |  | 235 | $30 \pm 1$ | 160 | 185 | 230 | 252 | 425 | 220 | 30 |
| 7 | 690 | 250 | 240 |  | 285 | $36 \pm 1$ | 210 | 225 | 280 | 302 | 425 | 225 | 32 |
| 8 | 795 | 250 | 240 |  | 285 | $36 \pm 1$ | 210 | 225 | 280 | 302 | 485 | 270 | 32 |
| 9 | 820 | 270 | 330 |  | 325 | $48 \pm 1.5$ | 195 | 265 | 320 | 342 | 560 | 265 | 45 |
| 10 | 920 | 270 | 330 |  | 325 | $48 \pm 1.5$ | 195 | 265 | 320 | 342 | 610 | 315 | 45 |
| 11 | 975 | 328 | 330 |  | 385 | $54 \pm 1.5$ | 210 | 320 | 380 | 410 | 595 | 320 | 47 |
| 12 | 1130 | 328 | 330 |  | 385 | $54 \pm 1.5$ | 210 | 320 | 380 | 410 | 680 | 390 | 47 |
|  | R寸 mm Dimensionsin mm |  |  |  |  |  |  |  |  |  |  |  |  |
| （e） | 歯辒解 Gear units |  |  |  |  |  |  |  |  |  |  |  |  |
|  | $\mathrm{f}_{3}$ | $\mathrm{G}_{6}$ | h |  | $\mathrm{h}_{1}$ | $\mathrm{h}_{2}$ | $\mathrm{h}_{3}$ | $\mathrm{m}_{1}$ | $\mathrm{m}_{2}$ | $\mathrm{n}_{1}$ | $\mathrm{n}_{2}$ | $\mathrm{P}_{2}$ | $s$ |
| 1 | － | 325 | 90 |  | 165 | － | 1770 | 275 | 210 | 15 | ${ }^{115}$ | ${ }^{150}$ | 12 |
|  | － | 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 | 180 |  | 205 | 245 | 240 | 505 | 360 | 30 | 175 | 270 | 24 |
| 6 | 190 | 610 | 180 |  | 205 | 245 | 240 | 585 | 360 | 30 | 220 | 270 | 24 |
| 7 | 200 | 685 | 190 |  | 205 | 220 | 250 | 620 | 430 | 35 | 215 | 330 | 28 |
| 8 | 200 | ${ }^{7} 30$ | 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 | 26 |  | 275 | 300 | 340 | 1030 | 600 | 50 | 380 | 440 | 40 |
| $\begin{aligned} & \text { 热䄷 } \\ & \text { Size } \end{aligned}$ | 勆 mm Dimensions in mm |  |  |  |  |  |  |  |  | 湳漓油 Oil |  |  | (kg) |
|  | MTB2SV |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { 浸油浸润 } \\ & \text { Dip lubriation } \\ & \text { (() } \end{aligned}$ | $\qquad$ |  |  |
|  |  |  |  | MTB2DV |  |  |  |  |
|  | ${ }^{\text {d }}{ }^{17}$ | $\mathrm{G}_{2}$ | 12 |  |  |  | $\mathrm{D}_{2}{ }^{2}$ | $\mathrm{G}_{4}$ | $\mathrm{D}_{3}$ |  |  |  | $\mathrm{D}_{4}$ | $\mathrm{G}_{4}$ | $G_{5}$ |
| 1 | 45 | 120 | 80 |  |  | ， |  |  |  | 7 |  |  |  | 65 |
| 2 | 55 | 135 | 110 | 55 | 13 | 50 | 60 | 135 | 180 | 11 |  |  | 90 |
| 3 | 65 | 145 | 140 | 65 | 14 | 570 | 70 | 145 | 200 | 16 |  | － | 140 |
| 4 | 80 | 170 | 170 | 80 | 170 | － 85 | 85 | 170 | 235 | 28 |  | － | 235 |
| 5 | 100 | 200 | 210 | 95 | 20 | 0 | 100 | 200 | 275 | 41 |  | 20 | 360 |
| 6 | 110 | 200 | 210 | 105 | 200 | －110 | 10 | 200 | 275 | 50 |  | 23 | 410 |
| 7 | 120 | 235 | 210 | 115 | 23 | 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 | 27 | 150 | 155 | 270 | 385 | 135 |  | 60 | 1155 |
| 11 | 170 | 320 | 300 | 165 | 32 | － 165 | 170 | 320 | 450 | 190 |  | 86 | 1640 |
| 12 | 180 | 320 | 300 | 180 | 32 | 0 | 185 | 320 | 455 | 215 |  | 95 | 1910 |

直交轴齿轮箱 Bevel－helical Gear Units
二级传动 Two Stage
类型 MTB2．V Type MTB2．V 规格 13． 18 Sizes 13．．． 18



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1）$k \in \leq \Phi 50$ me $>\Phi 50$

2）镮睢 GB／T1095－1979 Keyway GB／T1095－1979．
3）扭力支排位于工作机侧 Torque support on driven machine side．
4）有关油录，油管和护盖的安装空间硕确切尺寸，请与我们联系 Space for pump，pipes and cover，for exact dimensions，please refer to us，

直交轴齿轮箱 Bevel－helical Gear Units 二级传动 Two Stage 立式安装 Vertical类型 MTB2．V Type MTB2．V 规格 13．．． 18 Sizes 13．．． 18

| $\begin{aligned} & \text { 知格 } \\ & \text { Size } \end{aligned}$ | R寸 mm Dimensionsin mm |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 羭入辒 Input |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | in $=5-11.2$ |  |  | $\mathrm{in}=5.6-11.2$ |  |  | $\mathrm{iN}=5.6$－12．5 |  |  | $\mathrm{in}=6.3-14$ |  |  | $\mathrm{iN}=7.1-12.5$ |  |  | G1 | ${ }^{\text {a }}$ |
|  | di1） | ${ }_{1}$ | 13 | di1） | 11 | 13 | d1 ${ }^{11}$ | 1 | 13 | di1） | 11 | 13 | $\mathrm{d}_{1}{ }^{1}$ | 11 | 11 |  |  |
| 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 |


| $\begin{aligned} & \text { 帻格 } \\ & \text { Size } \end{aligned}$ | RJmm Dimensions in mm |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 齿轪简 Gearunits |  |  |  |  |  |  |  |  |  |
|  | a | $A_{1}$ | b | B1 | c | de | ${ }^{\text {es }}$ | E | 12 | ${ }^{13}$ |
| 13 | 1130 | 375 | 900 | 450 | $61 \pm 2$ | 245 | 380 | 370 | 38 | 200 |
| 14 | 1270 | 375 | 900 | 450 | $61 \pm 2$ | 245 | 380 | 440 | 45 | 200 |
| 15 | 1350 | 435 | 980 | 495 | $72 \pm 2$ | 280 | 450 | 442 | 75 | 200 |
| 16 | 1440 | 435 | 980 | 495 | $72 \pm 2$ | 280 | 450 | 488 | 75 | 200 |
| 17 | 1490 | 505 | 1110 | 555 | $81 \pm 2$ | 380 | 510 | 490 | 98 | 200 |
| 18 | 1610 | 505 | 1110 | 555 | $81 \pm 2$ | 380 | 510 | 550 | 98 | 200 |


| $\begin{aligned} & \text { 规格 } \\ & \hline \\ & \hline \end{aligned}$ | R寸 mmm ${ }_{\text {歯轮铺 }}^{\text {Dimensions in } \mathrm{mm}}$ |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |
|  | Ge | h | $\mathrm{h}_{2}$ | m1 | m2 | n1 | n2 | p2 ${ }^{4}$ | $s$ |
| 13 | 1130 | 325 | 350 | 1035 | 680 | 50 | 360 | 500 | 48 |
| 14 | ${ }^{200}$ | 325 | 350 | 1175 | 680 | 50 | 430 | 500 | 48 |
| 15 | 13.40 | 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 | 137.5 | 480 | 1480 | 840 | 70 | 525 | 630 | 65 |


| $\begin{aligned} & \text { 规格 } \\ & \text { Size } \end{aligned}$ | R才 mm Dimensions in mm |  |  |  |  |  |  |  |  | $\begin{gathered} \text { 湍洪油 } \\ \text { Oill } \\ \text { (i) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { 重量 } \\ \text { Weight } \\ \text { (kg) } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | MTB2SV |  |  | 输出辅 Output |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  | d2 ${ }^{\text {² }}$ | $\mathrm{G}_{2}$ | 12 | $\mathrm{D}^{2}{ }^{2}$ | G4 | D3 | D4 | G4 | Gs |  |  |
| 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 MTB3．V Type MTB3．V 规格 $3 . . .12$ Sizes $3 . . .12$

理
MTB3SV MTB3HV MTB3DV
采用强制润滑 With forced lubrication



| ＊櫄出絠 Output |  |  | 布鲑形式 Design |
| :---: | :---: | :---: | :---: |
| MTB3SV实心轴 <br> Solid shaft | MTB3HV空心轴 <br> Hollow shaft | MTB3DV <br> 带胀㩆盘的空心轴 <br> Hollow shaft for shrink disk <br> 布置形式 A＋D 根据用户要求供货 Design $A+D$ on request |  |

[^4]

4）有关油貰，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 dimensions，please refer to us．

直交轴齿轮箱 Bevel－helical Gear Units 三级传动 Three Stage 立式安装 Vertical类型 MTB3．V Type MTB3．V 规格 3．．． 12 Sizes 3．．． 12

| $\begin{aligned} & \text { 敖格 } \\ & \text { Size } \end{aligned}$ | R mm Dimensions in $m m$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | IN $=20-45$ |  |  | Input |  |  |  |  |  |  |  |  |
|  | $\mathrm{iN}=12.5-45$ |  |  | in $=16-56$ |  |  |  |  |  | IN＝50－71 |  |  | in $=63-90$ |  |  |  | G1 | G3 |
|  | di1） | ${ }_{1}$ | 13 | di ${ }^{11}$ | ${ }^{1}$ | 13 | d1）${ }^{11}$ | ${ }^{1}$ | 13 | di ${ }^{1}$ | ${ }^{1}$ | 13 |  |  |  | 13 |  |  |
| 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 |  |  |  |  |  |  | ${ }^{28}$ |  |  | 40 | 610 | 630 |
| 7 | 45 | 100 | 80 |  |  |  |  |  |  | 35 | 80 | 60 |  |  |  |  | 690 | 710 |
| 8 |  |  |  | 45 | 100 | 80 |  |  |  |  |  |  | 35 |  |  | 60 | 735 | 755 |
| 9 | 55 | 110 | 80 |  |  |  |  |  |  | 40 | 100 | 70 |  |  |  |  | 800 | 830 |
| 10 |  |  |  | 55 | 110 | 80 |  |  |  |  |  |  | 40 |  |  | 70 | 850 | 880 |
| 11 | 70 | 135 | 105 |  |  |  |  |  |  | 50 | 110 | 80 |  |  |  |  | 960 | 990 |
| 12 |  |  |  | 70 | 135 | 105 |  |  |  |  |  |  | 50 |  |  | 80 | 1030 | 1060 |


| 基格 <br> Size | R寸 mm Dimensions in mm |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mathrm{A}_{1} \mathrm{~A}^{\text {a }}$ |  |  |  |  |  |  | Gear units |  |  |  |  |  |
|  |  |  |  |  |  |  |  | ${ }^{\text {es }}$ | ${ }^{0}$ | ${ }^{\text {es }}$ | ${ }^{\circ}$ | E | 12 |
| 3 | 450 | 128 |  | 150 | 170 | $24 \pm 1$ | 90 | 90 | 175 | 185 | 290 | 220 | 20 |
| 4 | 565 | 143 |  | 150 | 200 | $30 \pm 1$ | 110 | 110 | 200 | 215 | 320 | 270 | 22 |
| 5 | 640 | 168 |  | 240 | 235 | $30 \pm 1$ | 130 | 130 | 230 | 252 | 385 | 315 | 28 |
| 6 | 720 | 168 |  | 240 | 235 | $30 \pm 1$ | 130 | 130 | 230 | 252 | 425 | 350 | 28 |
| 7 | 785 | 193 |  | 240 | 275 | $36 \pm 1$ | 165 | 160 | 280 | 292 | 425 | 385 | 30 |
| 8 | 890 | 193 |  | 240 | 275 | $36 \pm 1$ | 165 | 160 | 280 | 302 | 485 | 430 | 32 |
| 9 | 925 | 231 |  | 330 | 325 | $45 \pm 1.5$ | 175 | 185 | 320 | 342 | 560 | 450 | 32 |
| 10 | 1025 | 231 |  | 330 | 325 | $45 \pm 1.5$ | 175 | 185 | 320 | 342 | 610 | 500 | 32 |
| 11 | 1105 | 263 |  | 330 | 385 | $54 \pm 1.5$ | 190 | 225 | 380 | 402 | 595 | 545 | 35 |
| 12 | 1260 | 263 |  | 330 | 385 | $54 \pm 1.5$ | 190 | 225 | 380 | 410 | 680 | 615 | 35 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | 尺寸t |  | Dimension | sin mm |  |  |  |  |
|  | － |  |  |  |  |  | 䡋铺 | Gaar | units |  |  |  |  |
| Size | \％ | Gs |  | h | $h_{1}$ | ${ }^{2}$ | hs | m1 | m2 | n 1 | n2 | p24） | $s$ |
| 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 | 1060 | 600 | 50 | 380 | 440 | 40 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | 只寸 m | Dime | ensions in m |  |  |  | 澳洣 |  | Oil |  |
| 如格 |  |  |  |  | 䉼榞 | Output |  |  |  |  |  |  |  |
| Size |  | utbssV |  |  | ${ }^{1}$ взнV |  |  | B3DV |  | Dip lubrication |  | Forced | Weight |
|  | $\mathrm{dz}^{\text {＂}}$ | G2 | $k$ | $\mathrm{D}_{2}$ | ${ }^{2}{ }^{\text {a }}$ | Ds | D4 | G4 | G5 | （1） |  | lubrication（1） |  |
| 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 |

둘
有关供油方式（浸油润清或强制骕滑），参见332－340页 Oil supply（dip or forced lubrication），see pages 332－340，


1）$k \in \leq \Phi 50 \quad m \in>\Phi 50$

2）氟据 GB／T1095－1979 Keyway GB／T1095－1979．
3）扭力支毅位于工作机财 Torque support on driven machine side．
4）有关油录，油管和护盖的安諘空间及确㘮尺寸，请与我们联系 Space for pump，pipes and cover，for exact dimensions，please refer to us．

直交轴齿轮箱 Bevel－helical Gear Units 三级传动 Three Stage 立式安装 Vertical类型 MTB3．V Type MTB3．V 规格 13．．． 18 Sizes 13．．． 18

|  | R才 mm Dimensions in mm |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  | ${ }_{\text {in }=50-71}^{\text {Input }}$ |  |  |  |  |  |  |  | 91 |  |
|  | $\mathrm{i}=12.5-45$ |  |  | in＝$=14-50$ |  |  |  | in＝16－56 |  |  |  | in $=50-71$ |  |  | im＝56－80 |  |  | in $=63-90$ |  |  |  |  |
|  | di1 | 1 | 13 |  |  | ${ }^{1}$ | 1 |  |  | ${ }^{1}$ | 13 | di ${ }^{11}$ | 1 | 13 | ${\mathrm{d} 11^{11}}$ | 1 | 13 | d1＂ | 1 | 13 |  |  |
| 13 | 80 | 165 | 130 |  |  |  |  |  |  |  |  | 60 | 140 | 105 |  |  |  |  |  |  | 1125 | ${ }^{\text {G }} 16$ |
| 14 |  |  |  |  |  |  |  |  |  | 165 | 130 |  |  |  |  |  |  | 60 | 140 | 105 | 1195 | 1230 |
| 15 | 90 | 165 | 130 |  |  |  |  |  |  |  |  | 70 | 140 | 105 |  |  |  |  |  |  | 1367 | 1402 |
| 16 |  |  |  | 90 |  | 165 | 13 |  |  |  |  |  |  |  | 70 | 140 | 105 |  |  |  | 1413 | 1448 |
| 17 | 110 | 205 | 165 |  |  |  |  |  |  |  |  | 80 | 170 | 130 |  |  |  |  |  |  | 1560 | 1600 |
| 18 |  |  |  | 110 |  | 205 | 16 |  |  |  |  |  |  |  | 80 | 170 | 130 |  |  |  | 1620 | 1660 |
| 19 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |  | Onreq | st |  |  |  |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| $\begin{aligned} & \text { 替林 } \\ & \text { Size } \end{aligned}$ | R $\mathrm{mmm}^{\text {dimensions }} \mathrm{nmm}$ |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 齿轱祴 Gear units |  |  |  |  |  |  |  |  |  |
|  | $a$ | $A_{1}$ | b | B1 | c | de | ${ }^{\text {a }}$ | E | 12 | ${ }^{\text {ts }}$ |
| 13 | 1290 | 325 | 900 | 475 | $61 \pm 2$ | 210 | 265 | 635 | 35 | 170 |
| 14 | 1430 | 325 | 900 | 475 | $61 \pm 2$ | 210 | 265 | 705 | 35 | 170 |
| 15 | 1550 | 365 | 980 | 520 | $72 \pm 2$ | 210 | 320 | 762 | 42 | 170 |
| 16 | 1640 | 365 | 980 | 520 | $72+2$ | 210 | 320 | 808 | 42 | 170 |
| 17 | 1740 | 395 | 1110 | 570 | $81 \pm 2$ | 230 | 370 | 860 | 42 | 170 |
| 18 | 1860 | 395 | 1110 | 570 | $81 \pm 2$ | 230 | 370 | 920 | 42 | 170 |
| 19 |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |
| 21 |  |  |  |  |  |  |  |  |  |  |
| 22 |  |  |  |  |  |  |  |  |  |  |






1） $\mathrm{Ke} \leq \Phi 50 \quad \mathrm{me}>\Phi 50$

2）鳃 GBT1095－1979 Keven GBT1005－1079
3）捚力支檪位于工作机勿 Torque support on driven machine sid．


## 直交轴齿轮箱 Bevel－helical Gear Units 四级传动 Four Stage立式安装 Vertical <br> \section*{规格 5．．． 12 Sizes 5．．． 12}

| $\begin{gathered} \text { 热格格 } \\ \text { Siz } \end{gathered}$ | R寸 mm Dimensionsin mm |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | in $=80-180$ |  | in $=100-224$ |  | $\begin{aligned} & \text { Input } \\ & \text { in }=200-315 \end{aligned}$ |  |  |  | G1 |
|  |  |  | in $=250-400$ |  |  |  |
|  | d11） | 11 |  |  | d11） | 11 | d1）${ }^{11}$ | 11 |  | d11） | 11 |
| 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 |



## 直交轴齿轮箱 Bevel－helical Gear Units

类型 MTB4V．Type MTB4V．
## 四级传动 Four Stage <br> 立式安装 Verticall

规格 13 ．．． 18 Sizes 13 ．．． 18$$
\text { 规格 } 13 \text {... } 18 \text { Sizes } 13 \text {... } 18
$$





1） $\mathrm{k} \leqslant \leqslant \Phi 50 \quad \mathrm{~m} \in>\mathrm{C}_{50}$

2）铁槜 $\mathrm{GB} / \mathrm{T}$ 1095－1979 Keyway GB／T1095－1979．
3）扭力支澵位于工作机侧 Torque support on diviven machine side．
4）有关油穼，油管和护监的安装空间及矿㘮尺寸，请与我们联系 Space for pump，pipes and cover；for exact dimensions，please refer to us．

## 直交轴齿轮箱 <br> 立式安装

## 规格 $13 \ldots$

四级传动
Type MTB4．V
Four Stage

| $\begin{aligned} & \text { 巭格格 } \\ & \text { Siz } \end{aligned}$ | R寸 mm Dimensions in mm |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | in $=80-180$ |  | $\mathrm{in}=90-200$ |  | $\mathrm{i} \mathrm{N}=100-224$ |  | in $=200-315$ |  | $\mathrm{in}=224-355$ |  | in $=250-400$ |  | $\mathrm{G}_{1}$ |
|  | di ${ }^{11}$ | 1 | $\mathrm{d}_{1}{ }^{11}$ | ${ }_{1}$ | d1 ${ }^{11}$ | 1 | $\mathrm{di}^{1}{ }^{10}$ | 1 | $\mathrm{d}_{1}{ }^{1{ }^{1}}$ | 1 | di1） | 1 |  |
| 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 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  | 根据用户䙵求供袋 <br> On request |  |  |  |  |  |  |  |  |
| 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型中心孔し Form C
雉孔，带一段直孔和护锥沉孔l Tapped hole，with straight running face and counterbore

置

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 and keyways

|  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 选择 ISO 配合粸度 Selection of ISO fits | 辅 shaft d |  | 制公差 Shaft tolerance | 孔公美 <br> Bore tolerance |
|  | $\begin{array}{\|c\|c\|} \hline \text { A于 } \\ \text { Above } \\ \text { mm } \\ \hline \end{array}$ | $\begin{aligned} & \text { 至 } \\ & \text { To } \\ & \mathrm{mm} \end{aligned}$ |  |  |
|  confimed according to standards of our company． |  | 50 | k6 | H7 |
|  | 50 |  | m6 |  |


 the ISO P9 tolerance is selected．


齿轮箱 Gear Units
带涨紧盘的空心轴 Hollow Shaft For Shrink Disk
类型 MTH2，MTH3，MTH4，MTB3，MTB4 Type MTH2，MTH3，MTH4，MTB3，B4
规格 $3 . . .26$ Sizes 3．．． 26





Matorial of ditver machine sh
of machine shaft on request．

齿轮箱 Gear units 带胀紧盘联接的空心轴 Hollow shafts for shrink disks类型 MTB2D．Type MTB2D．



## 

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

Material of diviver machine shaft：60 or higher strengti．Shrink ilisk on machine side on request．Shrink disk is supplied as loose item．Dimensions of machine shaft on request．

齿轮箱 Gear Units 带平键联接的空心戟 Hollow Shafts for Parallel Key Connections类型 MTH2，MTH3，MTH4，MTB3，MTB4 Types MTH2，MTH3，MTH4，MTB3，MTB4
规格 3 ．．． 18 Sizes 3 ．．． 18


1）工作机取动轴林质： 60 或强度更高的钢。平煡不在我们的供贷范围 之内。如果需要的话，请另行订贷。
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 带平键联接的空心轴 Hollow Shafts for Parallel Key Connections类型 MTB2H．Type MTB2H．规格 2 ．．． 18 Sizes $2 \ldots 18$


| 类型 MTB2H．Type |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 工作机驱动轴1） Driven machine shaft |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 空心轴Hollow shaft |  |  |
|  | $\mathrm{d}_{2}$ | $\mathrm{d}_{4}$ | $\mathrm{d}_{5}$ | $\mathrm{f}_{1}$ | 1 | $I_{1}$ | r | s | t | c | D | Ds | d | m | 规格 Size |  | $\mathrm{D}_{2}$ | $\mathrm{G}_{4}$ | 9 |
|  | mm |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | mm |  |  |
| 2 | 55 | 54.5 | 63 | ， | 268 | 30 | 1.2 | M8 | 15 | 8 | 9 | 18 | 70 | 40 | M $8 \times 20$ | 2 | 55 | 135 | 5 |
| 3 | 65 | 64.5 | 73 | 4 | 288 | 30 | 1.2 | M 10 | 18 | 8 | 11 | 18 | 78 | 45 | M $10 \times 25$ | 2 | 65 | 145 | 35 |
| 4 | 30 | 79.5 | 88 | 4 | 338 | 35 | 1.2 | M 10 | 18 | 10 | 11 | 22 | 100 | 60 | M $10 \times 25$ | 2 | 80 | 170 | 35 |
| 5 | 95 | 94.5 | 105 | 5 | 398 | 40 | 1.6 | M 10 | 18 | 10 | 11 | 26 | 120 | 70 | M $10 \times 25$ | 2 | 95 | 200 | 40 |
| 6 | 105 | 104.5 | 116 | 5 | 398 | 45 | 1.6 | M 10 | 18 | 10 | 11 | 26 | 120 | 70 | M 10×25 | 2 | 105 | 200 | 40 |
| 7 | 115 | 114.5 | 126 | 5 | 468 | 50 | 1.6 | M 12 | 20 | 12 | 13.5 | 26 | 140 | 80 | M $12 \times 30$ | 2 | 115 | 235 | 40 |
| 8 | 125 | 124.5 | 136 | 6 | 468 | 55 | 2.5 | M 12 | 20 | 12 | 13.5 | 26 | 150 | 85 | M $12 \times 30$ | 2 | 125 | 235 | 40 |
| 9 | 135 | 1345 | 147 | 6 | 537 | 60 | 2.5 | M 12 | 20 | 12 | 13.5 | 33 | 160 | 90 | M $12 \times 30$ | 2 | 135 | 270 | 45 |
| 10 | 150 | 149.5 | 162 | 6 | 537 | 65 | 2.5 | M 12 | 20 | 12 | 13.5 | 33 | 185 | 110 | M $12 \times 30$ | 2 | 150 | 270 | 45 |
| 11 | 165 | 164.5 | 177 | 7 | 637 | 70 | 2.5 | M 16 | 28 | 15 | 17.5 | 33 | 195 | 120 | M $16 \times 40$ | 2 | 165 | 320 | 45 |
| 12 | 180 | 179.5 | 192 | 7 | 637 | 75 | 2.5 | M 16 | 28 | 15 | 17.5 | 33 | 220 | 130 | M $16 \times 40$ | 2 | 180 | 320 | 45 |
| 14 | 210 | 209.5 | 22 | 8 | 77 | 85 | 3 | M 16 | 28 | 18 | 17.5 | 33 | 250 | 160 | M $16 \times 40$ | 2 | 210 | 390 | 45 |
| 16 | 240 | 239.5 | 258 | 8 | 896 | 100 | 3 | M 20 | 38 | 25 | 22 | 39 | 280 | 180 | M $20 \times 55$ | 4 | 240 | 450 | 60 |
| 18 | 275 | 274.5 | 295 | 9 | 1016 | 120 | 4 | M 20 | 38 | 25 | 22 | 39 | 330 | 210 | M $20 \times 55$ | 4 | 275 | 510 | 60 |


Material of diriven machine shaft： 60 or higher sirength．Parallel key does not belong to our scope of supply．Please order separately，if Material of
required．

## 平行轴齿轮箱Helical Gear Units 实际速比Actual Ratios

类型 MTH1．．，MTH2．．，MTH3．．，MTH4．．Types MTH1．．，MTH2．．，MTH3．．，MTH4．．
规格 1 ．．． 13 Sizes $1 \ldots 13$

平行轴齿轮箱 Helical Gear Units 实际速比 Actual Ratios
类型 MTH1．．，MTH2．．，MTH3．．，MTH4．．Types MTH1．．，MTH2．．，MTH3．．，MTH4．
规格 $14 \ldots 26$ Sizes $14 \ldots 26$

| 实际速比 C Actual ratios i |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  | iw |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | 1.25 |
|  |  |  |  |  |  |  |  |  |  |  |  |  | 1.4 |
|  |  |  |  |  |  |  |  |  |  |  |  |  | 1.6 |
|  |  |  |  |  |  |  |  |  |  |  |  |  | 1.8 |
|  | 2.000 |  | 2.000 |  | 1.967 |  |  |  |  |  |  |  | 2.0 |
|  | 2.231 |  | 2.250 |  | 2.296 |  |  |  |  |  |  |  | 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 |  | 5.556 |  | 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 | 9.000 | 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 | 13.801 | 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 |
| $10: 000$ | 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 | 25.233 | 24.850 | 25.837 | 25.000 | 25.457 | 24.671 | 24.32 | 24.306 | 25 |
| 27.92 | 27.204 | 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 | 32.424 | 31.5 |
| 36.408 | 3.514 | 34.311 | 34.776 | 34.397 | 34.708 | 35.500 | 35.088 | 35.294 | 34.572 | 34.830 | 34.598 | 35.376 | 35.5 |
| 40.283 | －39756 | 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 | 4.090 | 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 | 43.878 | 47．174 | 49.000 | 4.9977 | 48.648 | 48.632 | 40.105 | 47.916 | 48.459 | 49.132 | 49.835 | 50 |
| 55.957 | 54.229 | 54.447 | 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 | 69.220 | 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－ | 35.833 | 88.439 | 87.816 | 86.427 | 90.882 | 85.156 | 89.687 | 85.076 | 86.407 | 90 |
| 97.020 | 97.768 | 96.471 | 95.73 | 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 | 111.170 | 71.862 | 114.174 | 109.386 | 110.670 | 107.778 | 109.214 | 111.637 | 116.054 | 112 |
| 127.803 | 125.238 | 128.390 | 122.634 | 128710 | 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 | 142.14 | 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 | 102.413 | 159.273 | 159.017 | 156.931 | 156.925 | 155.051 | 159.316 | 160 |
| 175.901 | 170.993 | 175.962 | 167.438 | 176.400 | 18.079 | 181.156 | 172.63 | 178.011 | 170.093 | 175.669 | 169.982 | 178.544 | 180 |
| 203.339 | 189.597 | 193.962 | 185.656 | 194.44 | 201.040 | 203．16． | 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 | 22.355 | 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， 41 | 20.617 | 242.817 | 242.990 | 239.622 | 251.183 | 256.454 | 250 |
| 280.665 | 282.605 | 288.288 | 278.730 | 287.000 | 299.058 | 291，144 | 271.278 | 275.630 | 267.289 | 272.004 | 271.709 | 289.241 | 280 |
| 316.751 | 317.021 | 32.566 | 310.431 | 321.364 | 308.761 | 332.052 | 302.399 | 303.193 | 297.952 | 299.204 | 306.839 | 312.87 | 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 |  | 388.158 |  | 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 MTB2．．，MTB3．．，MTB4．．Types MTB2．．，M7B3．，MTB4．．规格 1 ．．． 13 Sizes 1 ．．． 13

| 实际速比i A A y y ratios ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| w |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 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 | 5.836 | 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 | 6.351 | 6.271 | 6.296 | 6.226 | 6.386 |
| 7.1 | 7.068 | 7.158 | 6.947 | 6.959 | 7.058 | 6.802 | ${ }^{6.860}$ | 6.725 | 7.053 | ${ }^{6.875}$ | 7.037 | 7.036 | 7.138 |
| 8.0 | 7.668 | 7.765 | 7.536 | 7.549 | 7.657 | 7.915 | 7.880 | 7.825 | 8.101 | 8.000 | 7.994 | 8.005 | 8.108 |
| 9.0 | 8.829 | 8.941 | 8.678 | 8.693 | 8.817 | 8.749 | 8.569 | 8.649 | 8.810 | 8.842 | 8.993 | 8.947 | 8.817 |
| 10 | 10.027 | 10.154 | 9.855 | 9.872 | 10.108 | 9.490 | 9.823 | 9.935 | 10.099 | 10．15 | 9.965 | 10.164 | 10.108 |
| 11.2 | 10.938 | 11.07 | 10.751 | 10.769 | 10.923 | 10.928 | 10.615 | 10.804 | 10.914 | 11.045 | 10.769 | 11.052 | 10.923 |
| 12.5 | 12.458 | 12.615 | 12.244 | 12.034 | 12.703 | 12.528 | 12.433 | 12.385 | 12.554 | 12.662 | 12.334 | 12.670 | 12.482 |
| 14 | 14.005 | 14.182 | 13.765 | 13.484 | 13.964 | 13.538 | 13.515 | 13.385 | 14.137 | 13.683 | 13.821 | 13.662 | 13.721 |
| 16 | 15.441 | 15.636 | 15.176 | 15.601 | 15.835 | 15.826 | 16.275 | 15.73 | 15.55 | 15.69 | 15.522 | 15.888 | 16.354 |
| 18 | 17.595 | 818 | 17.294 | 17.482 | 17.407 | 17.307 | 17.692 | 17.041 | 17.963 | 17.724 | 17.393 | 17.572 | 17078 |
| 20 |  |  | 19.336 | 19.614 | 19.645 | 19.729 | 19.948 | 20.648 | 20.259 | 19.940 | 19.744 | 19.995 | 20.276 |
| 22.4 |  |  | 21.609 | 21.919 | 21.954 | 21.575 | 22.146 | 22.308 | 22.208 | 22.520 | 21.643 | 22.114 | 22.226 |
| 25 |  |  | 25.021 | 25.380 | 25.421 | 24.349 | 25.446 | 25.152 | 25.843 | 25.400 | 25.185 | 25.103 | 25.864 |
| 28 |  |  | 27.442 | 27.836 | 27.881 | 27.211 | 28，125 | 27，923 | 28.563 | 27.842 | 27.836 | 27.517 | 28.587 |
| 31.5 |  |  | 29.769 | 30.196 | 30.245 | 31.508 | 30.509 | 32.084 | 30.985 | 32.400 | 31.975 | 32.021 | 32.838 |
| 35.5 |  |  | 34.279 | 34.771 | 34.827 | 3．557 | 35.131 | 35.461 | 35.679 | 35.311 | 34.771 | 35.392 | 35.709 |
| 40 |  |  | 38.228 | 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 | 50.881 | 50．383 |
| 56 |  |  | 54.371 | 55.152 | 55.240 | 53．47 | 55．723 | 54.87 | 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 | 7.465 | 79.497 | 78.228 | 80.949 | 7.313 | 82.118 |
| 90 |  |  |  |  | 86.720 | 88.022 | 88.585 | 88.274 | 88.442 | 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 | 115．77 |
| 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 | 185.791 |
| 180 |  |  |  |  | 170.427 | 170.506 | 174.092 | 177.184 | 174.597 | 176.692 | 176.615 | 181.258 | 179.166 |
| 200 |  |  |  |  | 194.098 | 193.631 | 198.272 | 201.215 | 198.847 | 200.656 | 201.145 | 205.841 | 204.050 |
| 224 |  |  |  |  | 218.199 | 211.234 | 222.891 | 219.508 | 223.537 | 218.898 | 226.121 | 224.554 | 229.386 |
| 250 |  |  |  |  | 240.578 | 240.572 | 245.752 | 249.995 | 246.464 | 249.300 | 249．313 | 255.742 | 252.913 |
| 280 |  |  |  |  | 274.147 | 270.443 | 280.042 | 281.036 | 280.855 | 280.256 | 284.101 | 287.497 | 288.204 |
| 315 |  |  |  |  | 302.121 | 298.181 | 308.618 | 309.861 | 309.513 | 309.000 | 313.091 | 316.984 | 317.612 |
| 355 |  |  |  |  |  | 339.788 |  | 353.097 |  | 352.116 |  | 361.214 |  |
| 400 |  |  |  |  |  | 374.460 |  | 389.127 |  | 388.046 |  | 398.073 |  |
| 450 |  |  |  |  |  |  |  |  |  |  |  |  |  |

## 直交轴齿轮箱 Bevel－helical Gear Units 实际速比 Actual Ratios

类型 MTB2．．，MTB3．．，MTB4．．Types MTB2．．，MTB3．．，MTB4．．规格14 ．．． 26 Sizes 14 ．．． 26

| 实辰㟟比 1 Actual ratios 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 齿跤销根格 Gear unit sizes |  |  |  |  |  |  |  |  |  |  |  |  | $\mathbb{N}$ |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |  |
|  | 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 | 13.832 | 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 | 15.440 | 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 |
| 4.259 | 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 | 4.065 | 48.226 | 48.297 | 48．933 | 50 |
| 54.831 | 54．502 | 55.055 | 55.641 | 57.479 | 55.203 | 56.022 | 55.981 | 55.656 | 55.158 | 54.924 | 54.294 | 55.615 | 56 |
| 62.45 | 60.158 | 61.892 | 61.348 | 64.616 | 60.865 | 62.978 | 61.72 | 62.567 | 60.815 | 61.744 | 59.863 | 62.520 | 63 |
| 70.200 | ${ }^{68.553}$ | 6.239 | 69.909 | 71.243 | 69.358 | 69.438 | 70.335 | 68.984 | 69.301 | 68.076 | 68.216 | 68.933 | 71 |
| 7.400 | 7． 131 | 7761 | 76.506 | 81.184 | 79．977 | 79.127 | 7.639 | 78.610 | 76.497 | 7.575 | 78.100 | 78.551 | 80 |
| 88.200 | 85.645 | 88.620 | 23.865 | 88.846 | 87.670 | 91.242 | 87.739 | 86.772 | 86.448 | 85.831 | 88.260 | 89．933 | 90 |
| 101.780 | 99.664 | 97150 | 87.593 | 97.391 | 102.020 | 100.017 | 99.821 | 98.061 | 98.353 | 96.70 | 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 | 12.90 | 12 ¢̂．263 | 129.526 | 128.641 | 126.733 | 124.690 | 124.870 | 123.049 | 127.487 | 129.232 | 25 |
| 143.498 | 137.599 | 143.532 | 134．739 | 143.889 | 140.851 | 147.769 | 137．815 | 141.643 | 135.788 | 139.780 | 138.634 | 146.80 | 140 |
| 155.663 | 157.741 | 156.082 | 154.462 | 156.47 | 101.470 | 180.690 | 157．989 | 154.029 | 155.665 | 152.002 | 155.928 | 159.639 | 160 |
| 179.284 | 170.467 | 178.930 | 166.923 | 179375 | 17.496 | 184.212 | 170.735 | 176.576 | 168.224 | 174．252 | 171.749 | 183.008 | 180 |
| 205.487 | 194.143 | 193．365 | 190.107 | 193.840 | 198／32 | 199.073 | 194.448 | 190.821 | 191.588 | 188.310 | 195.603 | 197．72 | 200 |
| 222.065 | 218.249 | 220.222 | 213.712 | 220.769 | 23.408 | 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 | 254.374 | 241.012 | 244.309 | 237.467 | 241.094 | 242.444 | 253.208 | 250 |
| 284.310 | 274.210 | 272.957 | 268.510 | 27.636 | 280.692 | 281.015 | 274，641 | 269.366 | 270.602 | 265.82 | 27.274 | 279.178 | 280 |
| 313.470 | 302.191 | 311.045 | 295.909 | 311.818 | 309.334 | 32.226 | 302.666 | 306.952 | 298.215 | 302.913 | 304.465 | 318.133 | 315 |
| 357.210 |  | 342.784 |  | 343.636 |  | 352.902 |  | 3．273 |  | 333.823 |  | 350.596 | 355 |
| 393.660 |  |  |  |  |  |  |  |  |  |  |  |  | 400 |
|  |  |  |  |  |  |  |  |  |  |  |  |  | 450 |

平行轴齿轮箱 Helical Gear Units 转动惯量 $\mathrm{J}_{1}$ Mass Moments of Inertia J $\mathrm{J}_{1}$
类型 MTH1．．，MTH2．．，MTH3．．，MTH4．．Types MTH1．．，MTH2．．，MTH3．．，MTH4．
规格 1 ．．． 13 Sizes 1 ．．． 13
转动惯量 $\mathrm{J}_{2}$（单位 $\mathrm{kgm}^{2}$ ）是指相对于齿轮䈐输出轴 $\mathrm{d}_{2}$ 的转动惯量，可按下式计算： $\mathrm{J}_{2}=i \mathrm{~N}^{2} \mathrm{X} \mathrm{J}_{1}$

如果输入轴 $\mathrm{d}_{1}$ 上带有风扇，则应加上 $\mathrm{JL}_{\mathrm{L}}$ 。
The mass moment of inertia $\mathrm{J}_{2}$ in $\mathrm{kgm}^{2}$ refers to the output shaft $\mathrm{d}_{2}$ of a gear unit and is calculated with the following The mass moment $J_{2}=\mathrm{iN}^{2} \times \mathrm{J}_{1}$ ．
The mass moment of inertia $\mathrm{J}_{1}$ in $\mathrm{kgm}^{2}$ refers to the input shaft $d_{1}$ of a gear unit winout fan．
The $\mathrm{J}^{2}$ ． For shaft d with fan，JL has to be added．


平行轴齿轮箱 Helical Gear Units 转动惯量 $\mathrm{J}_{1}$ Mass Moments of Inertia J $\mathrm{J}_{1}$

## 类型 MTH1．．，MTH2．．，MTH3．．，MTH4．．Types MTH1．．，MTH2．．，MTH3．．，MTH4．

## 规格 14 ．．． 26 Sizes 14 ．．． 26

转动惯量 $\mathrm{J}_{2}$（单位 $\mathrm{kgm}^{2}$ ）是指相对于齿轮箱输出轴的的转动惯量，可按下式计算： $\mathrm{J}_{2}=\mathrm{iN} 2 \times \mathrm{J}_{1}$ 。转动惯量 $\mathrm{J}_{1}$（单位 $\mathrm{kgm}^{2}$ ）是指相对于齿轮箱输入轴 $\mathrm{d}_{1}$ 的转动惯量，输入轴不带风扇。
如果输入轴 $\mathrm{d}_{1}$ 上带有风扇，则应加上 J
The mass moment of inertia $\mathrm{J}_{2}$ in $\mathrm{kgm}^{2}$ refers to the output shaft $\mathrm{d}_{2}$ of a gear unit and is calculated with the following
The mass moment of inertia $\mathrm{J}_{1}$ in $\mathrm{kgm}^{2}$ refers to the input shaft d1 of a gear unit without fan
For shaft d with fan，JL has to be added．


直交轴齿轮箱 Bevel－helical Gear Units
转动惯量 $\mathrm{J}_{1}$ Mass Moments of Inertia J
类型 MTB2．．，MTB3．．，MTB4．．Types MTB2．．，MTB3．．，MTB4．．规格 1 ．．． 13 Sizes 1 ．．． 13转动惯量 $\mathrm{J}_{2}$（单位 $\mathrm{kgm}^{2}$ ）是指相对于齿轮箱输出轴的的较那僙 Z ，可按下式计算： $\mathrm{J}_{2}=\mathrm{in}^{2} 2 \mathrm{JJ}_{1}$ 。
转动渍量 $\mathrm{J}_{1}$（单位 $\mathrm{kgm}^{2}$ ）是指相对于齿轮箱输入轴d 1 的转动 $h$ 運，输入轴不带风扇。
如果输入轴d1上带有风扇，则应加上JL。
The mass moment of inertia $\mathrm{J}_{2}$ in $\mathrm{kgm}^{2}$ refers to the output shafi ar of a gear unit and is calculated with the following formula：$J_{2}=\operatorname{in}^{2} 2 J_{1}$ ．
The mass moment of inertia $\mathrm{J}_{1}$ in $\mathrm{kgm}^{2}$ refers to the input shaft d1 of a gear unit without fan．
For shaft d with fan，JL has to be added．

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| iv |  |  |  |  |  |  |  |  |  |  | － |  |  |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ， | 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 | 0.1257 | 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 | 0．8251 | ¢． 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 | 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 | 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 | 0.0188 | 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 |  |  | 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

## 类型 MTB2．．，MTB3．．，MTB4．．Types MTB2．．，MTB3．．，MTB4．． <br> 规格 14．．． 26 Sizes 14．．． 26



如果输入轴d1上带有风扇，则应加上JL
The mass moment of inertia $\mathrm{J}_{2}$ in $\mathrm{kgm}^{2}$ refers to the output shaft d2 of a gear unit and is calculated with the following formula： $\mathrm{J}_{2}=\mathrm{in}^{2} \times \mathrm{J}_{1}$ ．
The mass moment of inertia $J_{1}$ in $\mathrm{kgm}^{2}$ refers to the input shaft d1 of a gear unit without fan．
For shaft d with fan，JL has to be added．

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |  | w |
| 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 | 5.8746 | 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 |  | T |  |  | － |  |  |  | 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 |  |  |  |  |  |  |  |  | J |
|  | 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 | 3.0681 | 3.5337 | 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 |
| 0.5518 | 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 | 2.4445 | 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 |
| 0.3817 | 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 |
| 0.281 ？ | 0.50 \％ 2 | 0.5703 | 1.0968 | 1.2332 | 2.5642 | 2.8550 | 2.6917 | 3.0169 | 4.70 | 5.32 | 5.76 | 6.88 | 35.5 |
| 0.2072 | 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 | 0.369 | 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 |
| 0.1080 | 0.1956 | 0.2314 | 04054 | 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 |
| 0.0801 |  |  |  |  |  |  |  |  |  |  |  |  | 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 | J |
|  | 0.2219 |  | $0.27^{78}$ |  | 0.4955 |  | 1.4120 |  | 1.519 |  | 3.158 |  | 80 |
|  | 0.1883 | 0.2234 | 0.1931 | 0.2307 | 0.4203 | 0.5009 | 1.1776 | 1.4199 | 1.261 | 1.533 | 2.645 | 3.188 | 90 |
| 0.0807 | 0.1507 | 0.1896 | 0.1542 | 0.1556 | 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 | 0.1357 | 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 | 1.194 | 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 | 0.1538 | 02829 | 0.3794 | 0.300 | 0.403 | 0.598 | 0.882 | 200 |
| 0.0235 | 0.0393 | 0.0483 | 0.0400 | 0.0495 | 0.0880 | 0.107 | 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 |

齿轮箱 Gear Units 冷却盘管 Cooling Coils 卧式安装 Horizontal 规格 $1 \ldots 26$ Sizes $1 \ldots 26$类型 MTH．．H，MTH．．M，MTB．．H，MTB．．M Types MTH．．H，MTH．．M，MTB．．H，MTB．．M

## 齿轮箱 Gear Units

类型 MTH．．V，MTB．．V Types MTH．．V，MTB．．V 规格 1．．． 26 Sizes 1 ．．． 26


MTH2．V，MTH3．V，MTB2．V，MTB3．V
规格13．．．26 Size 13．．．26





齿轮箱 Gear Units
润滑油供给方式可选方案 Oil Supply for
类型 MTH2 ．．．MTH4，MTB2 ．．．MTB4 Types MTH2 ．．．MTH4，MTB2 ．．．MTB4
规格 1 ．．． 18 立式安装 Sizes 1 ．．． 18 Vertica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
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 |  | （1） |  |  |
| :---: | :---: | :---: | :---: | :---: |
| $\underset{\text { 数巽 }}{\text { Types }}$ | 规格 | $\begin{gathered} \text { 㴆油润滑 } \\ \text { Dip lubrication } \end{gathered}$ |  | $\begin{gathered} \text { 电动泉强制润滑 } \\ \text { Forced lubrication, motor pump } \end{gathered}$ |
| мтH2．V | $\begin{gathered} 4 \\ 5.12 \\ 13 . .18 \\ \hline \end{gathered}$ | $\begin{aligned} & \mathrm{x} \\ & \underline{x} \end{aligned}$ | $\begin{aligned} & \overline{\mathrm{x}} \\ & \mathrm{x} \end{aligned}$ | Z |
| мтнз．V | $\begin{gathered} 5 . .12 \\ 13 . .18 \end{gathered}$ | $\underline{x}$ | $\begin{aligned} & x \\ & x \end{aligned}$ | $\begin{aligned} & x \\ & x \end{aligned}$ |
| мTH4．V | $\begin{aligned} & 7 \ldots 12 \\ & 13 . .18 \end{aligned}$ | $\underline{x}$ | $\underline{x}$ |  |
| мтв2．V | $\begin{gathered} 4 \\ 5.12 \\ 13 . .18 \\ \hline \end{gathered}$ | $\begin{aligned} & \mathrm{x} \\ & \underline{\mathrm{x}} \end{aligned}$ | $\begin{aligned} & \overline{\mathrm{x}} \\ & \mathrm{x} \\ & \hline \end{aligned}$ |  |
| мтвз．V | $\begin{gathered} \mathbf{c}_{4}^{5.12} \\ 13 . .18 \end{gathered}$ | x <br> $\times$ <br> - | $\begin{aligned} & \overline{\mathrm{x}} \\ & \mathrm{x} \end{aligned}$ | $\begin{aligned} & \overline{\mathrm{x}} \\ & \mathrm{x} \end{aligned}$ |
| мTB4．V | $\begin{aligned} & 5 \ldots 12 \\ & 13 . .18 \end{aligned}$ | $\underline{x}$ | $\underline{x}$ | $\underset{x}{x}$ |

$\mathrm{X}=$ 可供货 $\mathrm{X}=$ Possible variants

1）采用实心轴，带偖油管的齿轮箱所用的各种润滑油供给方式见338页表14
1）For possible variants for gear units with solid shaft and oil retaining tube，see page 338 ，table 14 ．
推荐供油方式 Preferred order：
规格 6 号（含）以下各型：浸油润滑，规格 7 号以上各型：强制润滑
up to size 6：dip lubrication from size 7 up：forced lubrication
对各种润滑油供给方式的说明 Notes on the individual oil supply variants

## 浸油润滑Dip lubrication：

当用浸油润滑时，所有需要润滑的零部件均需浸在润滑油液中。

选择依据参见见332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 332

## 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柰或单独的电动油豖进行飞涩润滑。
选择依据参见 333 － 336 页。
In case of forced lubrication，all parts which are not lying in oil are splash lubricated by means of a flanged－onpump or by a separate motor pump．criteria for selection，see pages 333－336

齿轮箱 Gear Units 浸油润滑方式 Dip Lubrication for
类型 MTH2．．．MTH4，MTB2．．．MTB4 Types MTH2．．．MTH4，MTB2．．．MTB4规格1．．． 12 立式安装 Sizes1．．．12Vertical
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 n 1 ，See table 2．b）Permissible oil temperatures，see table 3 ．
表2 Table2

| $\begin{aligned} & \text { 傩 } \\ & \text { Size } \end{aligned}$ |  |  |  |  |  |  | Types |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | мтв2．V |  | мтв3．v |  | мTB4．V |  |
|  | in | ntmax | in | ${ }^{1}$ max | in | ${ }^{1}$ max | in | ${ }^{1 \text { max }}$ | in | ${ }^{n 1 \text { max }}$ | in | n1max |
| 1 | － | － | － | － | － | － | $\begin{array}{\|c\|c\|c\|c\|c\|c\|c\|} \hline 7.1-8 \\ 9-18 \\ \hline \end{array}$ | $\begin{aligned} & 1200 \\ & \hline \begin{array}{l} 1500 \\ 1800 \end{array} \\ & \hline \end{aligned}$ | － | － | － | － |
| 2 | － | － | － | － | － | － | $\begin{gathered} 5.3 .5 .6 \\ .5 .6 \\ 19.2-18 \\ \hline \end{gathered}$ | $\begin{gathered} \substack { 1000 \\ \begin{subarray}{c}{\text { Soin } \\ \hline 8000{ 1 0 0 0 \\ \begin{subarray} { c } { \text { Soin } \\ \hline 8 0 0 0 } } \\ {\hline} \\ {\hline} \\ \hline \end{gathered}$ | － | － | － | － |
| 3 | $\begin{gathered} 6.3-7.1 \\ 18-10.1 \\ 12-22.4 \end{gathered}$ | $\begin{aligned} & 1200 \\ & \hline \begin{array}{l} 1500 \\ 1800 \end{array} \end{aligned}$ | － | － | － | － | $\begin{gathered} 5-71 \\ \hline 8-9.1 \\ 10-12 \\ 14-18 \end{gathered}$ |  | 20－71 | 1800 | － | － |
| 4 | $\left\lvert\, \begin{gathered} 6.3-10 \\ 11.2-12.5 \\ 14-22.4 \end{gathered}\right.$ | $\begin{aligned} & \text { livo } \\ & \hline 1500 \\ & 18000 \end{aligned}$ | － | － | － | － | $\begin{array}{\|c\|c\|c\|c\|c\|} \hline 6.5 .76 \\ 8-9 \\ 10-11.2 \\ \hline \end{array}$ | $\begin{aligned} & 7500 \\ & \hline 9000 \\ & \text { 1000 } \\ & 1200 \end{aligned}$ | 12．5－71 | 1800 | － | － |
| 5 | $\begin{gathered} \hline 6.3-9.5 \\ 10-12.5 \\ 14-16 \\ 18-22.4 \end{gathered}$ | $\begin{array}{\|l\|l} 1000 \\ \text { 年 } 500 \\ \text { 1800 } \\ \hline \end{array}$ | 25－90 | 1800 | － | － | $\begin{gathered} 6.3-7.1 \\ .8-9.9 \\ 10-19.2 \end{gathered}$ | $\begin{aligned} & 750 \\ & \substack{7500 \\ 1000} \end{aligned}$ | 12．5－71 | 1800 | 80－315 | 1800 |
| 6 | $\begin{aligned} & \begin{array}{l} 8-11 \\ 10.16 \\ 18.26 \end{array} \\ & 22.4-28 \\ & \hline \end{aligned}$ | $\begin{array}{\|l\|l\|} \hline 1000 \\ \text { 等 } 5000 \\ \hline 8000 \\ \hline \end{array}$ | 31．5－112 | 1800 | － | － | $\begin{gathered} 109112, \\ 12.5-14 \end{gathered}$ | $\begin{gathered} 750 \\ 10000 \\ 1000 \end{gathered}$ | 16－90 | 1800 | 100－400 | 1800 |
| 7 |  |  | 25－90 | 1800 | 100－355 | 1800 | 9－10 | ${ }_{900}^{750}$ | $\begin{array}{\|l\|l\|} \hline 2.5-25 \\ 28-71 \end{array}$ | $\begin{aligned} & 1500 \\ & 1800 \\ & \hline \end{aligned}$ | 80－315 | 1800 |
| 3 |  |  | 31．5－112 | 1800 | 125－450 | 1800 | $\underset{14}{11.2-12.5}$ | ${ }_{900}^{750}$ | $\begin{gathered} 16-31.5 \\ 35.5-90 \end{gathered}$ | $\begin{aligned} & 1500 \\ & 1800 \end{aligned}$ | 100－400 | 1800 |
|  | $\begin{gathered} 6.4 .4-7.1 \\ 6.3-7.1 \\ 18.10 .22 .4 \end{gathered}$ | $\begin{aligned} & 12000 \\ & \begin{array}{l} 1200 \\ 1500 \\ 1800 \end{array} \end{aligned}$ | 25－90 | 1800 | 100－355 | 1800 | $\begin{gathered} 5.5 .6 .6 \\ \hline 8.71 \\ \hline 8.10 \\ \hline 11.2 \\ \hline \end{gathered}$ |  | 12．5－71 | 1800 | 80－315 | 1800 |
| 10 | $\begin{aligned} & 8-9 \\ & 10-128 \\ & 14-28 \\ & \hline 18 \end{aligned}$ | $\begin{array}{r} 1200 \\ 1500 \\ 1800 \\ \hline \end{array}$ | 31．5－112 | 1800 | 125－450 | 1800 |  |  | 16－90 | 1800 | 100－400 | 1800 |
| 11 |  | $\begin{aligned} & 1000 \\ & 1000 \\ & 1500 \\ & 1800 \\ & \hline 100 \end{aligned}$ | 25－90 | 1800 | 100－355 | 1800 |  | $\begin{aligned} & 7500 \\ & \hline 900 \\ & \text { 1000 } \\ & \hline \end{aligned}$ | $\left\lvert\, \begin{gathered} 12.5-22.44 \\ 25-7]^{1} \end{gathered}\right.$ | $\begin{aligned} & 1500 \\ & 1800 \end{aligned}$ | 80－315 | 1800 |
| 12 |  | $\begin{aligned} & 000 \\ & \hline 100 \\ & 1500 \\ & 1800 \\ & \hline 800 \end{aligned}$ | 31．5－112 | 1800 | 125－450 | 1800 |  | $\begin{aligned} & 7500 \\ & \substack{7000 \\ 1000 \\ 1200 \\ \hline} \end{aligned}$ | $\begin{gathered} 16-28 \\ 31.5-90 \end{gathered}$ | $\begin{aligned} & 1500 \\ & 1800 \end{aligned}$ | 100－400 | 1800 |

$n 1$ 和iN值不在表2所列范围应的齿辍箱必须采用强制润滑方式。
Gear units with $n_{1}$ and in which are not listed in table 2 must be designed for forced lubrication


若油温低于表中所列数值，则必须对润滑油进行加热。
若油温低表中所列数值，则 the
If the temperatures are below the values as listed in the table，the oil must be heated．当采用澹油润滑时，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 MTH2 ．．．MTH4 Types MTH2 ．．．MTH4 规洛 5 ．．． 18 立式安装 Sizes 5 ．．． 18 Vertical

| 表4 Table 4 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| $40^{\circ} \mathrm{c}$ 以下的 <br> ISO－VG絡度， $\mathrm{mm}^{2 / \mathrm{s}}$（CSt Viscosity ISO－VG at $40^{\circ} \mathrm{C}$ in mm²／（CSt） |  <br> Permissible temperaturi limis in＇ C for forced feed lubrication |  |  |  |
|  | 䣱牰 Mineral oil |  | 合成油 Synthetic oil |  |
|  | 最低 min | 最高 max | 最倠 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．Amininum operating viscosity of 25 cSt must been sured．If the temperatures are below the values as listed in tables，dip Lubrication has to be provided or the oil must Beheated．

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| 表5 Table5 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  <br> Assignment of flanged－on pumps to vertical helical gear units |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { 糧 } \\ & \text { Types } \end{aligned}$ | $\begin{gathered} \mathrm{r}_{\mathrm{n} / \mathrm{min}} \end{gathered}$ | 齿轮籍相格 Gearunit size |  | 法兰亦规格 <br> Flanged－on pumpsize | 齿轮箱规格 Gearunitsize |  |  | 法兰录规格 Flanged－on Pump size |
|  |  | 5，7，9，11 | 6，8，10，12 |  | 13，15，17 | 14 | 16，18 |  |
|  |  | $\begin{aligned} & \text { 速比 Ratio } \\ & \text { in } \end{aligned}$ |  |  | 速比 Ratio |  |  |  |
| MTH2．V1） | 750－1800 | 6．3－22．4 | 8－28 | ksw1 | 6．3－22．4 | 8－28 | 7．1－25 | kSW2 |
| MTH3．V＇） | 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 | ＊ |
| mTH4．V1） | 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 | － |  |  |  |  |

平行轴齿轮箱 Helical Gear Units 强制润滑方式 Forced Lubrication for类型 MTH2 ．．．MTH4 Types MTH2 ．．．MTH4 规格 5 ．．． 18 立式安装 Sizes 5 ．．． 18 Vertical


## 1）布哑形式B，

\section*{直交轴齿轮箱 Helical Gear Units}类型 MTB2 ．．．MTB4 Types MTB2 ．．．MTB4 | 表笿 8 Table 8 |
| :--- |
| 40 C以下 |

$\qquad$
$\qquad$選制润媇公许极限遇度て

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

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 25 cSt must be ensured．If the temperatures are below the values as listed in table 8，dip Lubrication has to be provided or the oil must be heated

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## 表格 9 Table 9

| 表格9 Tabl |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |
| $\begin{gathered} \text { 类翟 } \\ \text { Tpyes } \end{gathered}$ | $\begin{gathered} \mathrm{r}_{\mathrm{n}}^{\mathrm{n}} \mathrm{~min} \end{gathered}$ | 齿较䥽效格 Gear unit size |  | 法兰焉规格 FFanged－on Pump <br> Pump siza | 齿轪筹媇格 Gear unit size |  |  | 法兰票规格 Flanged－on Pump siz |
|  |  | 5，7，9，11 | 6，8，10，12 |  | 13，15，17 | 14 | 16，18 |  |
|  |  | 格比Ratio In |  |  | 栍比 Ratioin |  |  |  |
| мTB2．V1） | 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 | － |  |  |  |  |
| мтвз．V1） | 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 | － |
| mTB4．V1） | 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 | － |  |  |  |  |

直交轴齿轮箱 Helical Gear Units 强制润滑方式 Forced Lubrication for类型 MTB2 ．．．MTB4 Types MTB2 ．．．MTB4 规格 5 ．．． 18 立式安装 Sizes 5 ．．． 18 Vertical表 10 Table 10

| 表10 Table 10 |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 立式安装直交轴箱采用法兰录 <br> Assignment of flanged－on pumps to vertical bevel－helical gear units |  |  |  |  |  |  |  |  |
| $\begin{aligned} & \text { 类型 } \\ & \text { Types } \end{aligned}$ | $\underset{\mathrm{r} / \mathrm{min}}{\mathrm{n}}$ | 歯轵 | 㚘格 nit size | 法兰呆规格 Flanged－onpump size pamp size | 齿轮箱规格 Gear unit size |  |  | 法兰票规格 Flanged－on pump size |
|  |  | 5，7，9， 11 | 6，8，10， 12 |  | 13，15， 17 | 14 | 16， 18 |  |
|  |  | $\stackrel{\text { 迷比 }}{\mathrm{Ni}}$ |  |  | 速比 Ratio |  |  |  |
|  |  |  |  | Ni |  |
| мтв2．${ }^{1}{ }^{1}$ | 1201－1800 | 5－6．3 | 6．3－8 |  | KSW 1 | 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 | KSW 3 |
|  |  | 9－11．2 | 11．2－14 | KSW 3 | 11.2 | 14 | 12.5 | ＊ |
|  | 750－900 | 5－6．3 | 6．3－8 | KSW2 | 5－7．1 | 6．3－9 | 5．6－8 | KSW 3 |
|  |  | 7．1－10 | 9－12．5 | KSW3 | 8－11．2 | 10－14 | 9－12．5 | ＊ |
|  |  | 11.2 | 14 | ＊ |  |  |  |  |
| $\text { мтвз. } \mathbf{V}^{2}$ | 1201－1800 | 12．5－35．5 | 16－45 | KSW2 | 12．5－22．4 | 16－28 | 14－25 | KSW2 |
|  |  | 40－71 | 50－90 | KSW 3 | 25－50 | 31．5－63 | 28－56 | KSW 3 |
|  |  |  |  |  | 56－71 | 71－90 | 63－80 | KSW 4 |
|  | 901－1200 | 12．5－25 | 16－31．5 | Ksw2 | 12．5－35．5 | 16－45 | 14－40 | KSW 3 |
|  |  | 28－50 | 35．5－63 | KSW 3 | 40－56 | 50－71 | 45－63 | KSW 4 |
|  |  | 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 | KSW 3 |
|  |  | 40－71 | 50－90 | ， | 28－40 | 35．5－50 | 31．5－45 | KSW 4 |
|  |  |  |  |  | 45－71 | 56－90 | 50－80 | ＊ |
| MTB4． $\mathrm{V}^{1)}$ | 1201－1800 | 80－100 | 100－224 | KSW 3 | 80－315 | 100－400 | 90－355 | ． |
|  |  | 200－315 | 250－400 | ． |  |  |  |  |
|  | 901－1200 | $\frac{80-125}{140-315}$ | 100－160 $180-400$ | KSW 3 |  |  |  |  |
|  | 750－900 | 80－90 | 100－112 | KSW 3 |  |  |  |  |
|  |  | 100－315 | 125－400 | ． |  |  |  |  |




齿轮箱 Gear Units
电动泉强制润滑方式 Mounted Motor Pumps
类型 MTH3，MTH4，MTB2，MTB3，MTB4 Types MTH3，MTH4，MTB2，MTB3，MTB4规格 $5 \ldots 18$ 立式安装 Sizes $5 \ldots 18$ Vertical


監

| 表格 12 Table 12 |  |  |  |  |  |  | 表格 13 Table 13 |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 安蕒尺寸 Mounting dimensions on mm |  |  |  |  |  |  | 安䫡尺寸 Mounting dimensions on mm |  |  |  |  |  |  |
| $\begin{aligned} & \text { 粦䍚 } \end{aligned}$ | $\begin{aligned} & \text { 巭棌 } \\ & \text { Sze } \end{aligned}$ | $\begin{aligned} & \text { 㤫冨形式 } \\ & \text { Design } \end{aligned}$ | A | B | c | D |  | $\begin{aligned} & \text { 唯桫 } \end{aligned}$ | 变酔形式 | $\mathrm{A}_{1}$ | $\mathrm{B}_{1}$ | $\mathrm{C}_{1}$ | $\mathrm{D}_{1}$ |
| мтнз．v | 5／6 | AB／C／D | －30／5 | 560 | 480 | 385 | мтв2．v | 5／6 | AB／C／D | －160／－125 | 480 | 470 | 415 |
|  | $7 / 8$ | AB／CID | 55／100 | 585 | 550 | 430 |  | $7 / 8$ | AB／CID | 5／50 | 480 | 525 | 510 |
|  | 9／10 | AB／CID | 140／190 | 610 | 565 | 500 |  | 9／10 | A $1 / 1 / C / D$ | 60／110 | 480 | 565 | 570 |
|  | 11／12 | AB／CID | 375／445 | 530 | 625 | 560 |  | 11／12 | AB／CID | 150／220 | 480 | 625 | 660 |
|  | 13／14 | A／C | 155／225 | 880 | 670 | 700 |  | 13／14 | AB／C／D | －70／0 | 755 | 670 | 805 |
|  | 13／14 | B／D | 100／170 | 935 | 670 | 700 |  | 15／16 | AB／CID | 15／60 | 780 | 710 | 910 |
|  | 15／16 | A／C | 275／320 | 965 | 710 | 770 |  | 17／18 | AB／C／D | －5／55 | 890 | 775 | 1025 |
|  | 15／16 | B／D | $220 / 265$ | 1020 | 710 | 770 | мтвз．V | 5／6 | AB／CID | －85／－50 | 480 | 480 | 365 |
|  | 17／18 | A／C | 250／310 | 1040 | 770 | 835 |  | $7 / 8$ | AB／C／D | －5／40 | 480 | 550 | 430 |
|  | 17／18 | B／D | 195／255 | 1095 | 770 | 835 |  | 9／10 | A $1 / 1 / C D$ | 65／115 | 480 | 565 | 500 |
| MTH4．V | $7 / 8$ | A／C | 55／100 | 600 | 550 | 430 |  | 11／12 | AB／CID | 280／350 | 480 | 625 | 560 |
|  | $7 / 8$ | B／D | $0 / 45$ | 680 | 550 | 430 |  | 13／14 | ABICID | 35／105 | 810 | 670 | 700 |
|  | 9／10 | A／C | 140／190 | 625 | 565 | 500 |  | 15／16 | AB／C／D | 120／165 | 875 | 710 | 775 |
|  | 9／10 | B／D | 85／135 | 705 | 565 | 500 |  | 17／18 | AB／CID | 165／225 | 970 | 77 | 835 |
|  | 11／12 | A／C | 375／445 | 550 | 625 | 560 | мтв4．V | 5／6 | AB／C／D | －35／0 | 480 | 480 | 385 |
|  | 11／12 | B／D | 320／390 | 635 | 625 | 560 |  | $7 / 8$ | AB／CID | 55／100 | 480 | 550 | 430 |
|  | 13／14 | AB／CID | 135／205 | 910 | 670 | 700 |  | 9／10 | AB／CID | 140／190 | 615 | 565 | 500 |
|  | 15／16 | AB／CID | 255／300 | 1000 | 710 | 775 |  | 11／12 | AB／C／D | 375／445 | 530 | 625 | 560 |
|  | 17／18 | AB／CID | 230／290 | 1070 | 775 | 835 |  | 13／14 | AB／CID | 135／205 | 905 | 670 | 700 |
|  |  |  |  |  |  |  |  | 15／16 | AB／CID | 255／300 | 990 | 710 | 775 |
|  |  |  |  |  |  |  |  | 17／18 | ABBCID | 230／290 | 1065 | 77 | 835 |

齿轮箱 Gear Units
采用实心轴，带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 MTH2 ．．．MTH4，MTB2 ．．．MTB4 Types MTH2 ．．．MTH4，MTB2 ．．．MTB4规格 5 ．．． 18 立式安装 Sizes $5 \ldots 18$ Vertical

| 表14 Table 14 |  |  |  |
| :---: | :---: | :---: | :---: |
| 可选洞洋油治侁方方式 Possible oil supply variants |  |  |  |
| $\begin{aligned} & \hline \text { 溇 } \\ & \text { Types } \end{aligned}$ | 㭑㭲 <br> Size | 布䁂形式 Design |  |
|  |  | B | c |
| MTH2SV | 5－6 | 01） | － |
|  | 7－12 | O2） | － |
|  | 13－18 | 03） | － |
| mTH3SV | 5－7 | － | － |
|  | 7－12 | － | － |
|  | 13－18 | － | － |
| mTH2SV | 5－6 | － | o |
|  | 7－12 | － | $\bigcirc$ |
|  | 13－18 | － | $\bigcirc$ |
| mTB3sv | 5－6 | － | － |
|  | 7－12 | － | － |
|  | 13－18 | － | － |
| mTB4SV | 5－6 | － | － |
|  | 7－12 | － | － |
|  | 13－18 | － | － |

## possible

 2）对于规格 7 号安，铁复，仅适用于速比 $1 \leqslant 16$ For size 7 only possible up to $i \leqslant 16$
对于规格似号甘開算，仅适用于速比 $i \leqslant 18$ For size11 only possible up to $i \leqslant 18$

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


齿轮箱 GearUnit 润滑油供给方式监测之件 Oil Supply for类型 MTH2 ．．MTH4，MTB2 ．．．MTB4 TypesMTH2 ．．．MTH4，MTB2．．．MTB4
立式安装 Vertical规格 5．．． 18 Sizes 5．．． 18

| 齿轻筹椝格 $5 \ldots .12$ Gear unit size 5．．． 12 | 齿轮籍规格 $13 \ldots 18$ Gear unit size 13 ．．． 18 |
| :---: | :---: |
| a）过樃裙 Coarse filter | 双切换过站瞄 Double change－over filter |
| b）压力监淍开关 Preesure monitor | b）压力监测开关 Pressure monitor |
|  | Connection for preesur gauge 1／2 |

a）过攄器用于觑除和收集杂质颗粒，以保护传动装置的安全。
双坱过䍃器带有并排布惪的两个滤筒，设有一个光电污染指示器。
电器参数最大额定值
切换电压U $\leq 250 \mathrm{~V}$ DC＋AC
切换电流 $1 \leq 1 \mathrm{~A}$
切换容量 $\mathrm{P} \leq 30 \mathrm{~W}$ 或 $\leqslant 60 \mathrm{VA}$
b）当油压降至 0.5 bar以下时，压力监测开关通过报警系统可发出光，声报警信号，或关闭该系统技术参数：
最大切换能力
（交流）2A／250V，AC／250VA
至胃 保护级别： 1 P 65
a）Coarse filters serve to protect downstream units by catching and collecting dirt particles．
Double change－over filters with opposed cylinders have an opot－electrical contaminationindicator Differential pressure $\Delta \mathrm{p}=2 \mathrm{bar} ; 1$ change over contact．
Electrical maximum ratings
Switching current $I \leqslant 1 \mathrm{~A}$
Switching capability $\mathrm{P} \leqslant 30 \mathrm{~W}$ or $\leqslant 60 \mathrm{VA}$
Type of protection Ip65
When the oil pressure drops below 0.5 bar，the pressure monitor in combination with a qwarning system can give an optical or acoustical warning or switch off the system＇
Technicaldata：
Max．switching capacity：
2A／250V；AC／250VA（alternating current
4A／200V；DC／20W（direct current）
Tyoe of protection IP65

## 齿轮箱 Gear Units 布置形式 Design

类型 MTH2 ．．．MTH4 ．．．，MTB2 ．．．MTB4 Types MTH2 ．．．MTH4，MTB2 ．．．MTB4
规格 1 ．．． 26 Sizes 1 ．．． 26



MTH．DH，MTH．DM，MTH．DV 带胀紧盘的空心轴





[^0]:    －

[^1]:    有关平鳃 GB／1095－1979型和中心れ孔，参见第315页。 For parallel key GB／T1095－1979 and for center hole，see page 315
    2）魹拱 GB／1095－1979。Keyway GB／1095－1979，
    3）扭力支掊位于工作机徚。Torque support on driven machine side．

[^2]:    1） $\mathrm{k} \leqslant \leq \Phi 50 \mathrm{~m}$ m $>$ Ф 50
     2）氟椎 $G B / T 1095-1979 \mathrm{Keyway} \mathrm{GB/T1095-1979}$.
    

[^3]:    ${ }_{k 6} \leqslant \Phi 50 \quad$ me $>\Phi_{50}$

[^4]:    ） $\mathrm{k} \leqslant$ $\leqslant \Phi 50 \mathrm{~m} 6>$ © 50
    2）鳃棈 GB／1095－1979 Keyway GB／T1095－1979．
    

