



## T series spiral bevel steering box

T系列螺旋锥齿轮转向箱

### 性能特点 FUTURE

多样化的轴配置形式和速比, 满足您的各种使用需求。  
当速比不为1:1时, 横轴输入、纵轴输出为减速, 纵轴输入、横轴输出为增速。  
采用高精度螺旋锥齿轮, 效率高, 传动平稳, 噪声低, 振动小, 承载能力强。

Various shaft arrangements and ratio to meet your diverse needs.  
When the ratio is not 1:1 and pinion shaft is input, so cross shaft is reduced output. When cross shaft is input, the pinion shaft is increased output.  
High precision spiral bevel gear, high efficiency, stable transmission, low noise level, small vibration and strong loading capacity.



## T系列螺旋锥齿轮传动箱概述：

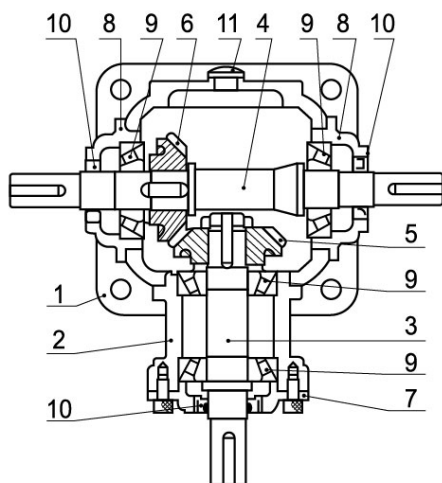
- T系列一级螺旋锥齿轮传动箱，标准化，多品种，速比1:1、1.5:1、2:1、2.5:1、3:1、4:1、5:1全部为实际传动比。平均效率98%。
- 有单轴、双横轴、单纵轴、双纵轴可选。
- 螺旋锥齿轮可以正反运转，低速或高速传动平稳，而且噪声低，振动小，承受力大。
- 当速比不为1:1时，横轴输入、纵轴输出为减速，纵轴输入、横轴输出为增速。

## T series spiral bevel gearbox overview:

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

## T系列结构图：

## T series structure drawing:



- |      |   |                                      |
|------|---|--------------------------------------|
| 1、机  | 座 | Housing                              |
| 2、横  | 轴 | Single-extendable shaft bearing seat |
| 3、横  | 轴 | Single-extendable shaft              |
| 4、纵  | 轴 | Double-extendable shaft              |
| 5、横  | 轴 | Spiral bevel gear                    |
| 6、纵  | 轴 | Spiral bevel gear                    |
| 7、端  | 盖 | Bearing seat                         |
| 8、端  | 盖 | Bearing seat                         |
| 9、轴  | 承 | Bearing                              |
| 10、油 | 封 | Seat                                 |
| 11、油 | 镜 | Oil gauge                            |

## 转向功能：

## Function of rotation:

| 1 横 轴 One single-extendable shaft |                     | 2 横 轴 2 extendable shafts |                     |
|-----------------------------------|---------------------|---------------------------|---------------------|
| 2轴 2-extended shaft               | 3轴 3-extended shaft | 3轴 3-extended shaft       | 4轴 4-extended shaft |
|                                   |                     |                           |                     |

说明：当输入轴旋转方向改变，输出轴相应改变。

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

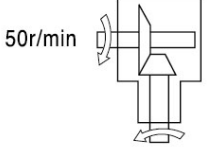
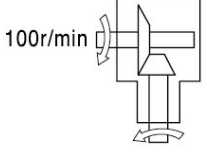


选定输入轴时应注意转速关系:(1:1传动比时无关系)

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

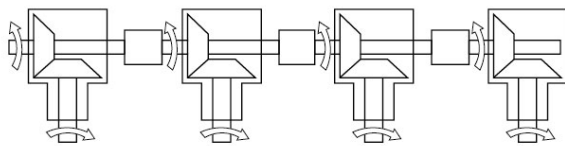
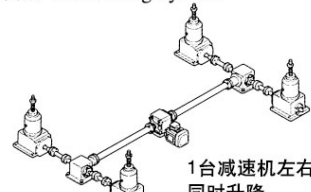
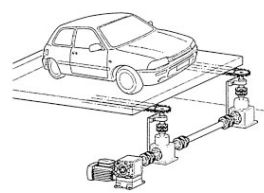
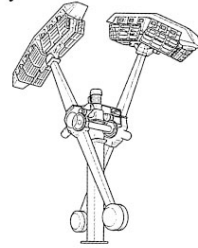
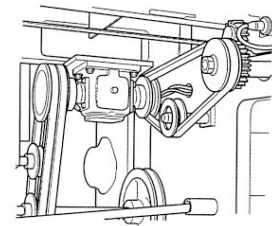
例: 速比为2:1时

Example: when ratio is 2.

| [ 减速 Reducing ]                                                                                                                                                                   | [ 增速 Increasing ]                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>当横轴输入100r/min时<br/>纵轴输出50r/min<br/>Output speed is 50rpm,<br/>when input speed is 100rpm</p> |  <p>当纵轴输入100r/min时<br/>横轴输出200r/min<br/>Output speed is 200rpm,<br/>when input speed is 100rpm</p> |

应用实例:

Application example:

|                                                                                                                                                                                                                                |                                                                                                                                              |                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| <p>并排传送 Transmission in line</p>  <p>给纵轴连结送力，使横轴同步运转</p>                                                                                      | <p>升降装置 Elevating system</p>  <p>1台减速机左右输出，通过转向后，同时升降。</p> |                                                                                                                  |
| <p>立体车库 Tridimensional car barn</p>  <p>1台减速机驱动左右链轮同步运转。<br/>One reducer drive right and left chain wheel and rotate at the same speed.</p> | <p>游戏机 Play machine</p>  <p>纵横输入，2横轴相反运转</p>              | <p>包装机 Packing machine</p>  |

型号表示方法:

T series model illustration:

|                           |   |             |   |                          |   |                           |
|---------------------------|---|-------------|---|--------------------------|---|---------------------------|
| T6                        | - | 1:1         | - | I-LR-0                   | - | B <sub>3</sub>            |
| 机座号<br>Size of gear units |   | 速比<br>ratio |   | 轴配置<br>Shaft arrangement |   | 安装方位<br>Mounting position |
| T8                        | - | 2:1         | - | I - I - LR               | - | B <sub>8</sub>            |
| 机座号<br>Size of gear units |   | 速比<br>ratio |   | 轴配置<br>Shaft arrangement |   | 安装方位<br>Mounting position |



T系列重量表:

T series weight table:

| Type  | T2 | T4 | T6 | T7 | T8 | T10 | T12 | T16 | T20 | T25 |
|-------|----|----|----|----|----|-----|-----|-----|-----|-----|
| m(kg) | 2  | 10 | 21 | 32 | 49 | 78  | 124 | 188 | 297 | 488 |

T系列Fr(N) 表:

T series Fr(N) table:

| i <sub>N</sub> | n <sub>1</sub><br>(r/min) | T2  |     | T4   |      | T6   |      | T7   |      | T8   |      | T10  |       | T12   |       | T16   |       | T20   |       | T25   |       |
|----------------|---------------------------|-----|-----|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                |                           | 横轴  | 纵轴  | 横轴   | 纵轴   | 横轴   | 纵轴   | 横轴   | 纵轴   | 横轴   | 纵轴   | 横轴   | 纵轴    | 横轴    | 纵轴    | 横轴    | 纵轴    | 横轴    | 纵轴    | 横轴    | 纵轴    |
| 1:1            | 1450                      | 265 | 216 | 833  | 951  | 1911 | 2450 | 2450 | 3136 | 3234 | 3381 | 4165 | 4508  | 5096  | 5586  | 10633 | 10976 |       |       |       |       |
|                | 1150                      | 323 | 235 | 882  | 1029 | 2058 | 2597 | 2744 | 3234 | 3479 | 3626 | 4459 | 4851  | 5488  | 6076  | 11368 | 11760 | 15386 | 15608 |       |       |
|                | 870                       | 402 | 255 | 960  | 1127 | 2205 | 2842 | 2989 | 3381 | 3773 | 3969 | 4851 | 5292  | 5880  | 6566  | 12446 | 12740 | 16660 | 17150 | 24794 | 25480 |
|                | 580                       | 549 | 314 | 1078 | 1323 | 2499 | 3185 | 3381 | 3822 | 4263 | 4459 | 5488 | 5880  | 6713  | 7301  | 14014 | 14504 | 18816 | 19404 | 28028 | 28910 |
|                | 400                       | 637 | 353 | 1372 | 1715 | 3185 | 3528 | 4018 | 4900 | 4851 | 5978 | 6272 | 7056  | 7742  | 8134  | 15680 | 16170 | 21070 | 21756 | 31360 | 32340 |
|                | 300                       | 696 | 392 | 1519 | 1960 | 3430 | 3528 | 4410 | 5537 | 5243 | 6958 | 6713 | 7987  | 8232  | 9065  | 17150 | 17640 | 23422 | 24108 | 34300 | 35280 |
|                | 200                       | 784 | 441 | 1911 | 1960 | 3430 | 3528 | 5096 | 6272 | 7889 | 8820 | 8575 | 9604  | 9261  | 10290 | 19600 | 19894 | 25970 | 26754 | 38612 | 39788 |
|                | 100                       | 980 | 588 | 1911 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11368 | 12593 | 22540 | 22540 | 28420 | 32928 | 39200 | 49000 |
|                | 10                        | 980 | 588 | 1911 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 22540 | 22540 | 28420 | 33320 | 39200 | 49000 |
| 1.5:1          | 1450                      |     |     | 1078 | 1960 | 2548 | 2842 | 3430 | 5390 | 4361 | 7987 | 5194 | 9212  | 5978  | 10486 | 5978  | 12152 | 7693  | 14602 |       |       |
|                | 1150                      |     |     | 1078 | 1960 | 3038 | 3087 | 4067 | 5978 | 5096 | 8820 | 6174 | 10486 | 7252  | 12152 | 6419  | 13083 | 8771  | 17934 | 12985 | 24647 |
|                | 870                       |     |     | 1078 | 1960 | 3430 | 3332 | 4753 | 6076 | 6076 | 8820 | 7448 | 11760 | 8869  | 14504 | 6958  | 14210 | 9506  | 19453 | 13573 | 29400 |
|                | 580                       |     |     | 1078 | 1960 | 3430 | 3528 | 5096 | 6174 | 7644 | 8820 | 9555 | 11760 | 11466 | 14504 | 7840  | 16072 | 10780 | 22001 | 15680 | 33222 |
|                | 400                       |     |     | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 8820  | 17934 | 12005 | 24598 | 17542 | 37142 |
|                | 300                       |     |     | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 9604  | 19600 | 13132 | 27342 | 19159 | 40474 |
|                | 200                       |     |     | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 10829 | 22148 | 14798 | 30282 | 21658 | 45766 |
|                | 100                       |     |     | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 13328 | 22540 | 18228 | 33320 | 26656 | 49000 |
|                | 10                        |     |     | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 22540 | 22540 | 28420 | 33320 | 39200 | 49000 |
| 2:1            | 1450                      |     |     | 1078 | 1960 | 2548 | 2842 | 3430 | 5390 | 4361 | 7987 | 5194 | 9212  | 5978  | 10486 | 5978  | 12152 | 7693  | 14602 |       |       |
|                | 1150                      |     |     | 1078 | 1960 | 3038 | 3087 | 4067 | 5978 | 5096 | 8820 | 6174 | 10486 | 7252  | 12152 | 6419  | 13083 | 8771  | 17934 | 12985 | 24647 |
|                | 870                       |     |     | 1078 | 1960 | 3430 | 3332 | 4753 | 6076 | 6076 | 8820 | 7448 | 11760 | 8869  | 14504 | 6958  | 14210 | 9506  | 19453 | 13573 | 29400 |
|                | 580                       |     |     | 1078 | 1960 | 3430 | 3528 | 5096 | 6174 | 7644 | 8820 | 9555 | 11760 | 11466 | 14504 | 7840  | 16072 | 10780 | 22001 | 15680 | 33222 |
|                | 400                       |     |     | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 8820  | 17934 | 12005 | 24598 | 17542 | 37142 |
|                | 300                       |     |     | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 9604  | 19600 | 13132 | 27342 | 19159 | 40474 |
|                | 200                       |     |     | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 10829 | 22148 | 14798 | 30282 | 21658 | 45766 |
|                | 100                       |     |     | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 13328 | 22540 | 18228 | 33320 | 26656 | 49000 |
|                | 10                        |     |     | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 22540 | 22540 | 28420 | 33320 | 39200 | 49000 |
| 2.5:1          | 1450                      |     |     | 1078 | 1960 | 2548 | 2842 | 3430 | 5390 | 4361 | 7987 | 5194 | 9212  | 5978  | 10486 | 5978  | 12152 | 7693  | 14602 |       |       |
|                | 1150                      |     |     | 1078 | 1960 | 3038 | 3087 | 4067 | 5978 | 5096 | 8820 | 6174 | 10486 | 7252  | 12152 | 6419  | 13083 | 8771  | 17934 | 12985 | 24647 |
|                | 870                       |     |     | 1078 | 1960 | 3430 | 3332 | 4753 | 6076 | 6076 | 8820 | 7448 | 11760 | 8869  | 14504 | 6958  | 14210 | 9506  | 19453 | 13573 | 29400 |
|                | 580                       |     |     | 1078 | 1960 | 3430 | 3528 | 5096 | 6174 | 7644 | 8820 | 9555 | 11760 | 11466 | 14504 | 7840  | 16072 | 10780 | 22001 | 15680 | 33222 |
|                | 400                       |     |     | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 8820  | 17934 | 12005 | 24598 | 17542 | 37142 |
|                | 300                       |     |     | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 9604  | 19600 | 13132 | 27342 | 19159 | 40474 |
|                | 200                       |     |     | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 10829 | 22148 | 14798 | 30282 | 21658 | 45766 |
|                | 100                       |     |     | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 13328 | 22540 | 18228 | 33320 | 26656 | 49000 |
|                | 10                        |     |     | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 22540 | 22540 | 28420 | 33320 | 39200 | 49000 |
| 3:1            | 1450                      |     |     | 1078 | 1960 | 2548 | 2842 | 3430 | 5390 | 4361 | 7987 | 5194 | 9212  | 5978  | 10486 | 5978  | 12152 | 7693  | 14602 |       |       |
|                | 1150                      |     |     | 1078 | 1960 | 3038 | 3087 | 4067 | 5978 | 5096 | 8820 | 6174 | 10486 | 7252  | 12152 | 6419  | 13083 | 8771  | 17934 | 12985 | 24647 |
|                | 870                       |     |     | 1078 | 1960 | 3430 | 3332 | 4753 | 6076 | 6076 | 8820 | 7448 | 11760 | 8869  | 14504 | 6958  | 14210 | 9506  | 19453 | 13573 | 29400 |
|                | 580                       |     |     | 1078 | 1960 | 3430 | 3528 | 5096 | 6174 | 7644 | 8820 | 9555 | 11760 | 11466 | 14504 | 7840  | 16072 | 10780 | 22001 | 15680 | 33222 |
|                | 400                       |     |     | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 8820  | 17934 | 12005 | 24598 | 17542 | 37142 |
|                | 300                       |     |     | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 9604  | 19600 | 13132 | 27342 | 19159 | 40474 |
|                | 200                       |     |     | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 10829 | 22148 | 14798 | 30282 | 21658 | 45766 |
|                | 100                       |     |     | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 13328 | 22540 | 18228 | 33320 | 26656 | 49000 |
|                | 10                        |     |     | 1078 | 1960 | 3430 | 3528 | 5096 | 6272 | 8428 | 8820 | 9996 | 11760 | 11858 | 14504 | 22540 | 22540 | 28420 | 33320 | 39200 | 49000 |

备注: 各规格更低的输出转速按以上最大的Fr值。

Notes: If there is lower output speed, please choose the maximum Fr in above table.

T系列被驱动设备系数 f<sub>l</sub>:T series service factor f<sub>l</sub>:

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

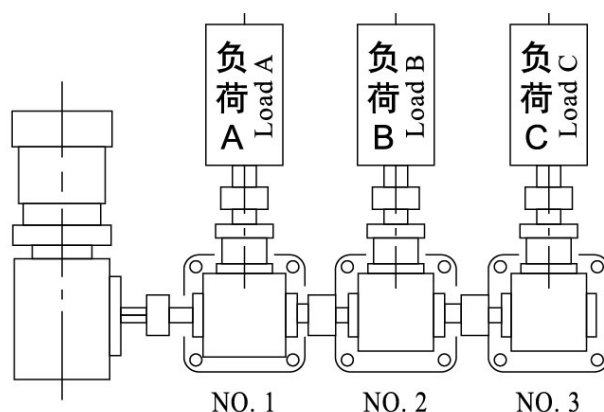
注: 当每小时起动、停止次数在10次以上, 请使用括号内数值。

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



## T系列举例：

## T series selection sample:



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

根据公式：

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

※1号齿轮箱 因1号齿轮箱本身的负载为 $245\text{N}\cdot\text{m}$ ，而2号、3号齿轮箱需通过1号齿轮箱体传递扭矩。所以1号齿轮箱应承担的负载为：

$$245\text{N}\cdot\text{m}+245\text{N}\cdot\text{m}+245\text{N}\cdot\text{m}=735\text{N}\cdot\text{m}，\text{依据传动能力表，应选T12。}$$

※2号齿轮箱 除本身的负载 $245\text{N}\cdot\text{m}$ ，还需传递3号齿轮箱的扭矩。所以总负载应为

$$245\text{N}\cdot\text{m}+245\text{N}\cdot\text{m}=490\text{N}\cdot\text{m}，\text{依据传动能力表，应选T10。}$$

※3号齿轮箱 由于仅一个负载C进行运转，即所需负载在 $245\text{N}\cdot\text{m}$ 以上即可，依据传动能力表可选T8。

## 注意事项：

1. 当速比不为 $1:1$ 时，请确定或告知输入轴；选横轴输入为减速，选纵轴输入为增速，安装方位和尺寸确定了以后，就不能更改两轴的位置。
2. 多台连动输出需校对换向箱的承载能力。

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

Calculate according to formula:

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

**No.1 gearbox** No.1 gearbox carry torque  $245\text{Nm}$ , but No.2 and No.3 gearbox need transfer torque through No.1, Consequently No.1 gearbox should carry torque  $735\text{Nm}$  ( $245\text{Nm}+245\text{Nm}+245\text{Nm}$ ), select T 12 according to transmission capacity table.

**No.2 gearbox** No.3 gearbox still transfers torque of No.3 gearbox besides torque of  $245\text{Nm}$ , so, the total torque is  $490\text{Nm}$  ( $245\text{Nm}+245\text{Nm}$ ), select T10 according to transmission capacity table.

**No.3 gearbox** Required torque is more than  $245\text{Nm}$  because of only load C according to transmission capacity table.

## Notes:

1. If ratio is not  $1:1$ , if input speed on single-extendable shaft, output speed will be reduced; if input speed on double-extendable shaft, output speed will be reduced. When mounting position and dimension are determined, the position of shafts can not be changed.
2. Several T boxes are linked, please verify the load capacity of these boxes.



| i       | n1    | T 2                      |                         | T 4                      |                         | T 6                      |                         | T 7                      |                         | T 8                      |                         |
|---------|-------|--------------------------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|
|         | r/min | T <sub>2N</sub><br>(N·m) | P <sub>1N</sub><br>(kw) | T <sub>2N</sub><br>(N·m) | P <sub>1N</sub><br>(kw) | T <sub>2N</sub><br>(N·m) | P <sub>1N</sub><br>(kw) | T <sub>2N</sub><br>(N·m) | P <sub>1N</sub><br>(kw) | T <sub>2N</sub><br>(N·m) | P <sub>1N</sub><br>(kw) |
| 1 : 1   | 1450  | 11.6                     | 1.79                    | 31.9                     | 4.94                    | 96.0                     | 14.9                    | 142                      | 22.0                    | 294                      | 45.6                    |
|         | 1150  | 11.7                     | 1.43                    | 34.1                     | 4.19                    | 103                      | 12.7                    | 150                      | 18.4                    | 305                      | 37.5                    |
|         | 870   | 12.1                     | 1.12                    | 37.2                     | 3.46                    | 113                      | 10.5                    | 164                      | 15.2                    | 312                      | 29.0                    |
|         | 580   | 12.1                     | 0.747                   | 39.5                     | 2.45                    | 119                      | 7.35                    | 184                      | 11.4                    | 319                      | 19.8                    |
|         | 400   | 12.3                     | 0.524                   | 40.2                     | 1.72                    | 122                      | 5.20                    | 195                      | 8.34                    | 326                      | 14.0                    |
|         | 300   | 12.3                     | 0.396                   | 40.5                     | 1.30                    | 123                      | 3.93                    | 198                      | 6.35                    | 331                      | 10.6                    |
|         | 200   | 12.4                     | 0.226                   | 41.2                     | 0.880                   | 124                      | 2.66                    | 201                      | 4.30                    | 338                      | 7.23                    |
|         | 100   | 12.7                     | 0.136                   | 41.9                     | 0.448                   | 127                      | 1.36                    | 206                      | 2.20                    | 346                      | 3.70                    |
|         | 10    | 13.0                     | 0.014                   | 43.0                     | 0.046                   | 132                      | 0.141                   | 214                      | 0.228                   | 361                      | 0.386                   |
| 1.5 : 1 | 1450  |                          |                         |                          |                         | 117                      | 12.1                    | 145                      | 15.0                    | 185                      | 19.1                    |
|         | 1150  |                          |                         |                          |                         | 122                      | 9.96                    | 147                      | 12.0                    | 188                      | 15.4                    |
|         | 870   |                          |                         |                          |                         | 123                      | 7.66                    | 150                      | 9.30                    | 191                      | 11.8                    |
|         | 580   |                          |                         |                          |                         | 126                      | 5.23                    | 153                      | 6.32                    | 197                      | 8.14                    |
|         | 400   |                          |                         |                          |                         | 128                      | 3.66                    | 155                      | 4.41                    | 200                      | 5.70                    |
|         | 300   |                          |                         |                          |                         | 129                      | 2.77                    | 157                      | 3.35                    | 203                      | 4.34                    |
|         | 200   |                          |                         |                          |                         | 131                      | 1.87                    | 160                      | 2.28                    | 204                      | 2.91                    |
|         | 100   |                          |                         |                          |                         | 134                      | 0.957                   | 163                      | 1.16                    | 210                      | 1.49                    |
|         | 10    |                          |                         |                          |                         | 139                      | 0.099                   | 169                      | 0.12                    | 218                      | 0.155                   |
| 2 : 1   | 1450  | 12.1                     | 0.94                    | 42.8                     | 3.32                    | 102                      | 7.90                    | 137                      | 10.6                    | 180                      | 14.0                    |
|         | 1150  | 12                       | 0.74                    | 43.4                     | 2.67                    | 104                      | 6.39                    | 139                      | 8.55                    | 183                      | 11.3                    |
|         | 870   | 12                       | 0.56                    | 43.8                     | 2.04                    | 105                      | 4.88                    | 141                      | 6.56                    | 187                      | 8.70                    |
|         | 580   | 11.9                     | 0.37                    | 44.4                     | 1.38                    | 108                      | 3.34                    | 144                      | 4.47                    | 191                      | 5.92                    |
|         | 400   | 12.2                     | 0.26                    | 45.1                     | 0.96                    | 109                      | 2.33                    | 146                      | 3.12                    | 194                      | 4.15                    |
|         | 300   | 11.9                     | 0.19                    | 45.5                     | 0.73                    | 110                      | 1.76                    | 148                      | 2.37                    | 196                      | 3.14                    |
|         | 200   | 12.2                     | 0.13                    | 46.1                     | 0.49                    | 111                      | 1.18                    | 149                      | 1.59                    | 198                      | 2.12                    |
|         | 100   | 11.2                     | 0.06                    | 46.6                     | 0.25                    | 114                      | 0.608                   | 152                      | 0.812                   | 202                      | 1.08                    |
|         | 10    | 28.1                     | 0.015                   | 48.5                     | 0.026                   | 116                      | 0.062                   | 157                      | 0.084                   | 209                      | 0.112                   |
| 2.5 : 1 | 1450  |                          |                         |                          |                         | 96.2                     | 5.97                    | 113                      | 6.99                    | 184                      | 11.4                    |
|         | 1150  |                          |                         |                          |                         | 97.2                     | 4.78                    | 115                      | 5.64                    | 185                      | 9.11                    |
|         | 870   |                          |                         |                          |                         | 99.0                     | 3.68                    | 116                      | 4.30                    | 188                      | 7.00                    |
|         | 580   |                          |                         |                          |                         | 100.0                    | 2.48                    | 118                      | 2.92                    | 192                      | 4.76                    |
|         | 400   |                          |                         |                          |                         | 100.9                    | 1.73                    | 120                      | 2.05                    | 195                      | 3.34                    |
|         | 300   |                          |                         |                          |                         | 102.9                    | 1.32                    | 121                      | 1.55                    | 197                      | 2.53                    |
|         | 200   |                          |                         |                          |                         | 103.9                    | 0.888                   | 123                      | 1.05                    | 200                      | 1.71                    |
|         | 100   |                          |                         |                          |                         | 104.9                    | 0.448                   | 123                      | 0.528                   | 203                      | 0.867                   |
|         | 10    |                          |                         |                          |                         | 107.8                    | 0.046                   | 126                      | 0.054                   | 208                      | 0.089                   |
| 3 : 1   | 1450  |                          |                         |                          |                         | 93.6                     | 4.84                    | 105                      | 5.42                    | 159                      | 8.20                    |
|         | 1150  |                          |                         |                          |                         | 94.8                     | 3.88                    | 106                      | 4.34                    | 160                      | 6.55                    |
|         | 870   |                          |                         |                          |                         | 95.9                     | 2.97                    | 108                      | 3.34                    | 163                      | 5.04                    |
|         | 580   |                          |                         |                          |                         | 97.6                     | 2.02                    | 109                      | 2.25                    | 166                      | 3.42                    |
|         | 400   |                          |                         |                          |                         | 99.0                     | 1.41                    | 111                      | 1.58                    | 168                      | 2.39                    |
|         | 300   |                          |                         |                          |                         | 100                      | 1.07                    | 111                      | 1.18                    | 169                      | 1.80                    |
|         | 200   |                          |                         |                          |                         | 100                      | 0.712                   | 113                      | 0.803                   | 171                      | 1.22                    |
|         | 100   |                          |                         |                          |                         | 102                      | 0.363                   | 115                      | 0.409                   | 173                      | 0.618                   |
|         | 10    |                          |                         |                          |                         | 104                      | 0.037                   | 118                      | 0.042                   | 179                      | 0.064                   |
| 4 : 1   | 1450  |                          |                         |                          |                         | 80.6                     | 3.12                    | 93.4                     | 3.62                    | 124                      | 4.80                    |
|         | 1150  |                          |                         |                          |                         | 81.5                     | 2.50                    | 94.3                     | 2.90                    | 125                      | 3.83                    |
|         | 870   |                          |                         |                          |                         | 82.4                     | 1.92                    | 95.9                     | 2.23                    | 127                      | 2.95                    |
|         | 580   |                          |                         |                          |                         | 84.1                     | 1.30                    | 96.9                     | 1.50                    | 129                      | 2.00                    |
|         | 400   |                          |                         |                          |                         | 85.1                     | 0.91                    | 98.7                     | 1.05                    | 131                      | 1.40                    |
|         | 300   |                          |                         |                          |                         | 86.1                     | 0.69                    | 98.3                     | 0.79                    | 131                      | 1.05                    |
|         | 200   |                          |                         |                          |                         | 86.0                     | 0.46                    | 101                      | 0.54                    | 134                      | 0.71                    |
|         | 100   |                          |                         |                          |                         | 87.7                     | 0.23                    | 101                      | 0.27                    | 135                      | 0.36                    |
|         | 10    |                          |                         |                          |                         | 89.3                     | 0.02                    | 101                      | 0.03                    | 140                      | 0.04                    |
| 5 : 1   | 1450  |                          |                         |                          |                         | 52.0                     | 1.61                    | 57.4                     | 1.78                    | 68.7                     | 2.13                    |
|         | 1150  |                          |                         |                          |                         | 52.5                     | 1.29                    | 58.0                     | 1.43                    | 69.2                     | 1.70                    |
|         | 870   |                          |                         |                          |                         | 53.2                     | 0.99                    | 59.0                     | 1.10                    | 70.4                     | 1.31                    |
|         | 580   |                          |                         |                          |                         | 54.2                     | 0.67                    | 59.6                     | 0.74                    | 71.7                     | 0.89                    |
|         | 400   |                          |                         |                          |                         | 54.9                     | 0.47                    | 60.7                     | 0.52                    | 72.6                     | 0.62                    |
|         | 300   |                          |                         |                          |                         | 55.5                     | 0.36                    | 60.4                     | 0.39                    | 72.9                     | 0.47                    |
|         | 200   |                          |                         |                          |                         | 55.4                     | 0.24                    | 61.7                     | 0.26                    | 74.1                     | 0.32                    |
|         | 100   |                          |                         |                          |                         | 56.5                     | 0.12                    | 62.9                     | 0.13                    | 75.1                     | 0.16                    |
|         | 10    |                          |                         |                          |                         | 57.6                     | 0.01                    | 64.5                     | 0.01                    | 77.8                     | 0.02                    |

1、横轴转速未达到10r/min时，请使用10r/min的数据。

2、 以上有灰色标识的规格定货时须咨询，横轴输入转速超过1450r/min时，向本公司咨询。



| i       | n1<br>r/min | T10          |             | T12          |             | T16          |             | T20          |             | T25          |             |
|---------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|
|         |             | T2N<br>(N·m) | P1N<br>(kw) | T2N<br>(N·m) | P1N<br>(kw) | T2N<br>(N·m) | P1N<br>(kw) | T2N<br>(N·m) | P1N<br>(kw) | T2N<br>(N·m) | P1N<br>(kw) |
| 1 : 1   | 1450        | 421          | 65.3        | 619          | 96.0        | 1019         | 163         |              |             |              |             |
|         | 1150        | 453          | 55.7        | 665          | 81.1        | 1098         | 139         | 1842         | 234         |              |             |
|         | 870         | 479          | 44.6        | 726          | 67.5        | 1186         | 114         | 2009         | 193         | 3489         | 335         |
|         | 580         | 493          | 30.6        | 802          | 49.7        | 1343         | 85.9        | 2274         | 145         | 3940         | 252         |
|         | 400         | 504          | 21.5        | 821          | 35.1        | 1499         | 66.1        | 2538         | 112         | 4410         | 195         |
|         | 300         | 513          | 16.4        | 835          | 26.8        | 1637         | 54.1        | 2744         | 90.8        | 4792         | 159         |
|         | 200         | 521          | 11.1        | 852          | 18.2        | 1784         | 39.3        | 3126         | 69.0        | 5390         | 119         |
|         | 100         | 535          | 5.72        | 875          | 9.36        | 1842         | 20.3        | 3205         | 35.3        | 5439         | 60.0        |
| 1.5 : 1 | 10          | 561          | 0.599       | 919          | 0.983       | 1940         | 2.14        | 3205         | 3.53        | 5713         | 6.30        |
|         | 1450        | 374          | 38.7        | 564          | 58.3        |              |             |              |             |              |             |
|         | 1150        | 380          | 31.2        | 601          | 49.2        |              |             |              |             |              |             |
|         | 870         | 389          | 24.1        | 656          | 40.7        |              |             |              |             |              |             |
|         | 580         | 396          | 16.4        | 699          | 28.9        |              |             |              |             |              |             |
|         | 400         | 406          | 11.6        | 711          | 20.3        |              |             |              |             |              |             |
|         | 300         | 411          | 8.78        | 724          | 15.5        |              |             |              |             |              |             |
|         | 200         | 417          | 5.95        | 736          | 10.5        |              |             |              |             |              |             |
| 2 : 1   | 100         | 426          | 3.04        | 754          | 5.37        |              |             |              |             |              |             |
|         | 10          | 443          | 0.316       | 785          | 0.56        |              |             |              |             |              |             |
|         | 1450        | 305          | 23.6        | 516          | 40.0        | 921          | 73.7        | 1578         | 126         |              |             |
|         | 1150        | 309          | 19.0        | 516          | 31.7        | 938          | 59.5        | 1607         | 102         | 3146         | 199         |
|         | 870         | 315          | 14.6        | 516          | 24.0        | 958          | 46.0        | 1646         | 79.0        | 3224         | 155         |
|         | 580         | 322          | 10.0        | 524          | 16.3        | 980          | 31.3        | 1695         | 54.2        | 3332         | 107         |
|         | 400         | 328          | 7.02        | 538          | 11.5        | 1000         | 22.0        | 1725         | 38.0        | 3420         | 75.4        |
|         | 300         | 332          | 5.33        | 543          | 8.71        | 1009         | 16.7        | 1754         | 29.0        | 3479         | 57.5        |
| 2.5 : 1 | 200         | 338          | 3.61        | 551          | 5.89        | 1029         | 11.3        | 1784         | 19.7        | 3557         | 39.2        |
|         | 100         | 344          | 1.84        | 563          | 3.01        | 1058         | 5.84        | 1833         | 10.1        | 3646         | 20.1        |
|         | 10          | 357          | 0.191       | 586          | 0.313       | 1098         | 0.605       | 1921         | 1.06        | 3822         | 2.11        |
|         | 1450        | 293          | 18.2        | 507          | 31.4        |              |             |              |             |              |             |
|         | 1150        | 298          | 14.7        | 514          | 25.3        |              |             |              |             |              |             |
|         | 870         | 302          | 11.2        | 523          | 19.5        |              |             |              |             |              |             |
|         | 580         | 310          | 7.68        | 535          | 13.3        |              |             |              |             |              |             |
|         | 400         | 315          | 5.38        | 545          | 9.32        |              |             |              |             |              |             |
| 3 : 1   | 300         | 317          | 4.06        | 552          | 7.08        |              |             |              |             |              |             |
|         | 200         | 321          | 2.75        | 560          | 4.79        |              |             |              |             |              |             |
|         | 100         | 326          | 1.40        | 568          | 2.43        |              |             |              |             |              |             |
|         | 10          | 336          | 0.144       | 588          | 0.251       |              |             |              |             |              |             |
|         | 1450        | 270          | 14.0        | 458          | 23.6        | 904          | 48.2        | 1529         | 82.3        | 2935         | 158         |
|         | 1150        | 275          | 11.3        | 464          | 19.0        | 920          | 38.9        | 1561         | 66.6        | 3045         | 130         |
|         | 870         | 279          | 8.66        | 469          | 14.6        | 940          | 30.1        | 1598         | 51.6        | 3135         | 101         |
|         | 580         | 285          | 5.89        | 480          | 9.92        | 960          | 20.4        | 1644         | 35.4        | 3246         | 69.9        |
| 4 : 1   | 400         | 288          | 4.11        | 490          | 6.98        | 978          | 14.4        | 1672         | 24.8        | 3317         | 49.3        |
|         | 300         | 291          | 3.11        | 495          | 5.29        | 990          | 10.9        | 1701         | 18.9        | 3372         | 37.6        |
|         | 200         | 294          | 2.10        | 501          | 3.57        | 1005         | 7.38        | 1733         | 12.9        | 3449         | 25.6        |
|         | 100         | 300          | 1.07        | 510          | 1.82        | 1038         | 3.82        | 1777         | 6.60        | 3537         | 13.1        |
|         | 10          | 308          | 0.110       | 527          | 0.188       | 1076         | 0.40        | 1865         | 0.69        | 3713         | 1.4         |
|         | 1450        | 241          | 9.35        | 434          | 16.8        | 850          | 34.3        | 1452         | 58.7        | 2798         | 113         |
|         | 1150        | 246          | 7.54        | 441          | 13.5        | 865          | 27.7        | 1483         | 47.5        | 2892         | 92.6        |
|         | 870         | 249          | 5.78        | 448          | 10.4        | 884          | 21.4        | 1518         | 36.8        | 2978         | 72.2        |
| 5 : 1   | 580         | 254          | 3.93        | 456          | 7.07        | 902          | 14.6        | 1562         | 25.2        | 3084         | 49.8        |
|         | 400         | 257          | 2.74        | 465          | 4.97        | 919          | 10.2        | 1588         | 17.7        | 3151         | 35.1        |
|         | 300         | 259          | 2.08        | 470          | 3.77        | 930          | 7.8         | 1616         | 13.5        | 3204         | 26.8        |
|         | 200         | 262          | 1.40        | 476          | 2.54        | 944          | 5.3         | 1646         | 9.17        | 3276         | 18.2        |
|         | 100         | 267          | 0.71        | 485          | 1.30        | 976          | 2.7         | 1688         | 4.70        | 3360         | 9.36        |
|         | 10          | 275          | 0.07        | 501          | 0.13        | 1011         | 0.3         | 1772         | 0.49        | 3527         | 0.98        |
|         | 1450        | 136          | 4.21        | 296          | 9.18        | 814          | 26.3        | 1391         | 44.9        | 2631         | 85.0        |
|         | 1150        | 138          | 3.39        | 301          | 7.39        | 828          | 21.2        | 1420         | 36.4        | 2771         | 71.0        |
|         | 870         | 140          | 2.60        | 305          | 5.68        | 847          | 16.4        | 1454         | 28.2        | 2853         | 55.3        |
|         | 580         | 143          | 1.77        | 311          | 3.86        | 864          | 11.2        | 1496         | 19.3        | 2954         | 38.2        |
|         | 400         | 144          | 1.23        | 318          | 2.72        | 881          | 7.85        | 1521         | 13.6        | 3018         | 26.9        |
|         | 300         | 146          | 0.93        | 321          | 2.06        | 891          | 5.96        | 1548         | 10.3        | 3069         | 20.5        |
|         | 200         | 148          | 0.63        | 325          | 1.39        | 905          | 4.03        | 1577         | 7.03        | 3138         | 14.0        |
|         | 100         | 150          | 0.32        | 331          | 0.71        | 935          | 2.08        | 1617         | 3.60        | 3218         | 7.17        |
|         | 10          | 155          | 0.03        | 342          | 0.07        | 969          | 0.22        | 1697         | 0.38        | 3378         | 0.75        |

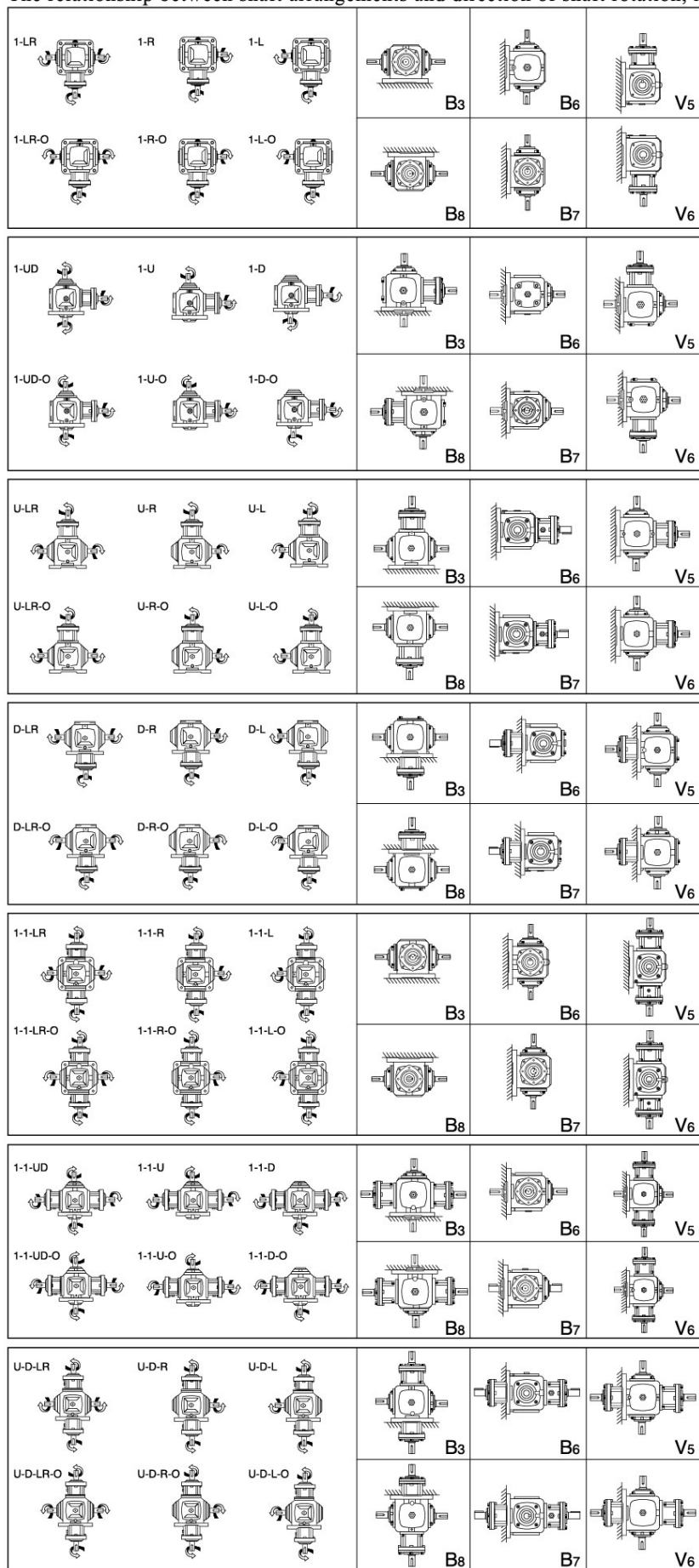
1、If speed is less than 10rpm, please choose 10rpm.

2、Please contact us, when order the model with gray sign or that input speed is more than 1450rpm.

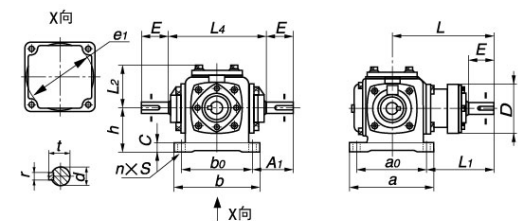


轴配置及轴旋转方向的关系、安装方位及尺寸图表：

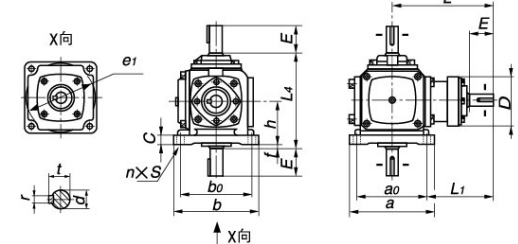
The relationship between shaft arrangements and direction of shaft rotation, Mounting position and dimension sheets: T2-T16



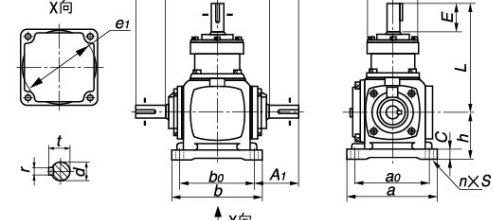
1-LR(O)



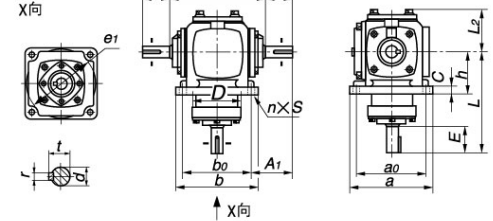
1UD(O)



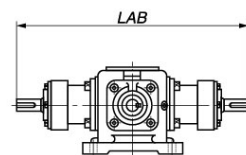
U-LR(O)



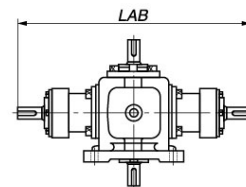
D-LR(O)



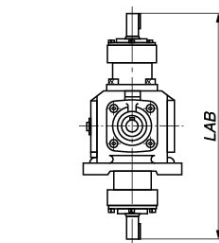
1-1-LR(O)



1-1-UD(O)



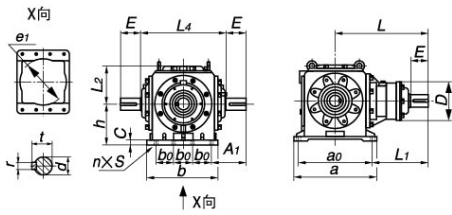
U-D-LR(O)



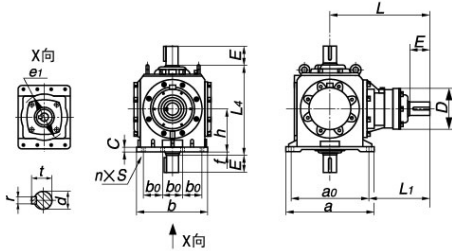


T20-T25

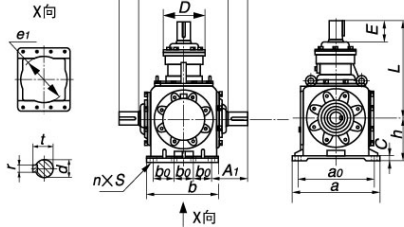
1-LR(O)



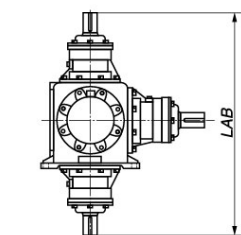
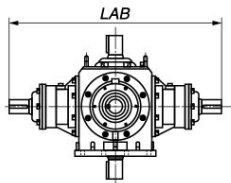
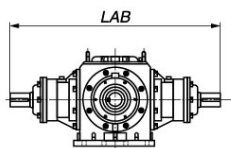
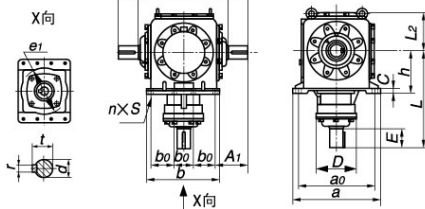
1-UD(O)



U-LR(O)



D-LR(O)



|          | T2   | T4    | T6    | T7    | T8    | T10   | T12   | T16   | T20    | T25    |
|----------|------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| A1       | 48   | 53.5  | 81    | 88    | 110.5 | 120   | 130   | 150   | 195    | 235    |
| a        | 100  | 155   | 190   | 210   | 235   | 285   | 340   | 390   | 490    | 580    |
| a0       | 84   | 125   | 152   | 174   | 195   | 240   | 290   | 330   | 430    | 520    |
| b        | 100  | 155   | 190   | 210   | 235   | 285   | 340   | 390   | 410    | 480    |
| b0       | 84   | 125   | 152   | 174   | 195   | 240   | 290   | 330   | 110    | 130    |
| C        | 10   | 17    | 17    | 20    | 23    | 25    | 32    | 40    | 32     | 35     |
| D        | 58   | 76    | 115   | 125   | 159   | 155   | 168   | 193   | 220    | 270    |
| d(h7)    | 15   | 19    | 25    | 32    | 40    | 45    | 50    | 60    | 72     | 85     |
| E        | 33   | 38    | 50    | 62    | 75    | 90    | 100   | 105   | 105    | 130    |
| e1(H8)×深 | 94×3 | 155×5 | 190×5 | 220×5 | 250×5 | 305×5 | 370×5 | 420×7 | 360×10 | 430×10 |
| f        | 5    | 2     | 17    | 13    | 18    | 10    | 0     | 10    | 10     | 10     |
| h        | 52   | 76    | 90    | 100   | 115   | 140   | 175   | 200   | 245    | 290    |
| L        | 124  | 180   | 222   | 265   | 308   | 360   | 415   | 455   | 545    | 660    |
| L1       | 82   | 117.5 | 146   | 178   | 210.5 | 240   | 270   | 290   | 330    | 400    |
| L2       | 52   | 76    | 87    | 97    | 114.5 | 133   | 160   | 186   | 217    | 255    |
| L4       | 114  | 156   | 214   | 226   | 266   | 300   | 350   | 420   | 510    | 600    |
| LAB      | 248  | 360   | 444   | 530   | 616   | 720   | 830   | 910   | 1090   | 1324   |
| n        | 4    | 4     | 4     | 4     | 4     | 4     | 4     | 4     | 8      | 8      |
| r        | 5    | 6     | 8     | 10    | 12    | 14    | 14    | 18    | 20     | 22     |
| s        | 9    | 10.5  | 14    | 14    | 14    | 16    | 21    | 25    | 21     | 24     |
| t        | 17   | 21.5  | 28    | 35    | 43    | 48.5  | 53.5  | 64    | 76.5   | 90     |

注意:当速比是 4:1 和 5:1 时, 纵轴尺寸不变, 横轴尺寸更改如下:

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

|     |        | T6   | T7   | T8    | T10 | T12 | T16  | T20  | T25  |
|-----|--------|------|------|-------|-----|-----|------|------|------|
| 4:1 | d (h7) | 19   | 22   | 28    | 32  | 36  | 50   | 55   | 70   |
|     | E      | 38   | 50   | 62    | 62  | 75  | 100  | 105  | 105  |
|     | L      | 210  | 253  | 295   | 332 | 390 | 450  | 545  | 637  |
|     | L1     | 134  | 178  | 212.5 | 242 | 270 | 300  | 345  | 400  |
|     | LAB    | 420  | 566  | 590   | 664 | 780 | 900  | 1090 | 1274 |
|     | r      | 6    | 6    | 8     | 10  | 10  | 14   | 16   | 20   |
| 5:1 | t      | 21.5 | 24.5 | 31    | 35  | 39  | 53.5 | 59   | 74.5 |
|     | d (h7) | 19   | 22   | 28    | 32  | 36  | 42   | 50   | 60   |
|     | E      | 38   | 50   | 62    | 62  | 75  | 90   | 100  | 105  |
|     | L      | 210  | 253  | 295   | 332 | 390 | 440  | 540  | 637  |
|     | L1     | 134  | 178  | 212.5 | 242 | 270 | 300  | 340  | 410  |
|     | LAB    | 420  | 566  | 590   | 664 | 780 | 880  | 1080 | 1262 |
|     | r      | 6    | 6    | 8     | 10  | 10  | 12   | 14   | 18   |
|     | t      | 21.5 | 24.5 | 31    | 35  | 39  | 45   | 53.5 | 64   |



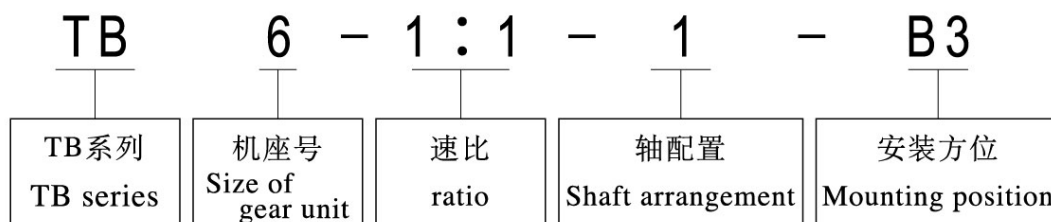
## TB系列螺旋锥齿轮转向箱概述：

### 特点：

TB系列是在T系列的基础上开发、设计的派生新产品。用简单的打断、换向、离合机构，可以实现以下四种功能：

- 1、输入方向不变，输出可以选择正转、反转、静止不转。
- 2、有单轴输出、双轴输出，在双轴输出时，可以左停右转、右停左转、同时停止、同时运转，方向可以相同，可以相反。
- 3、速比为1:1，其它速比另咨询。
- 4、型号从TB6、TB7、TB8、TB10、TB12、TB16，其它型号另咨询。

### TB型号表示方法：



## TB series spiral bevel gearbox overview:

### Specifications:

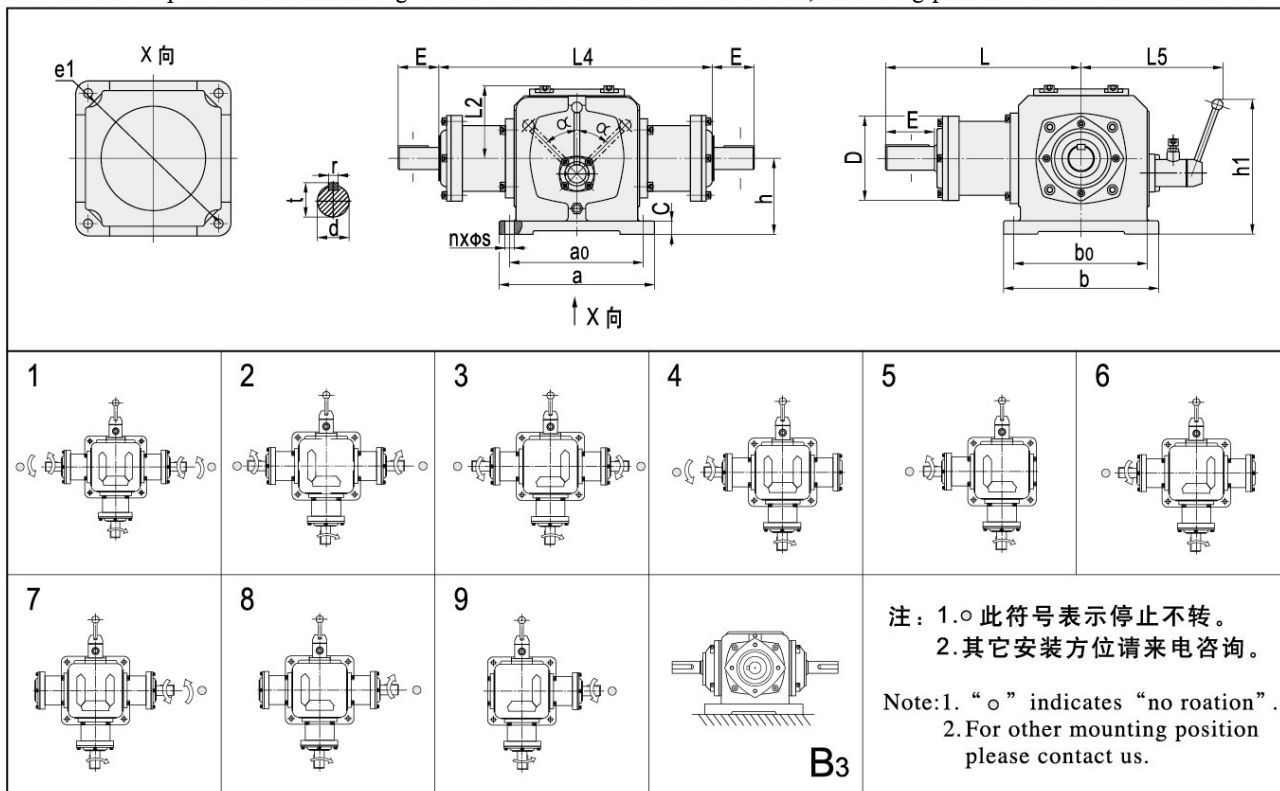
TB series are derivated from T series with interrupting part, transversal part, clutch, to realize the following functions:

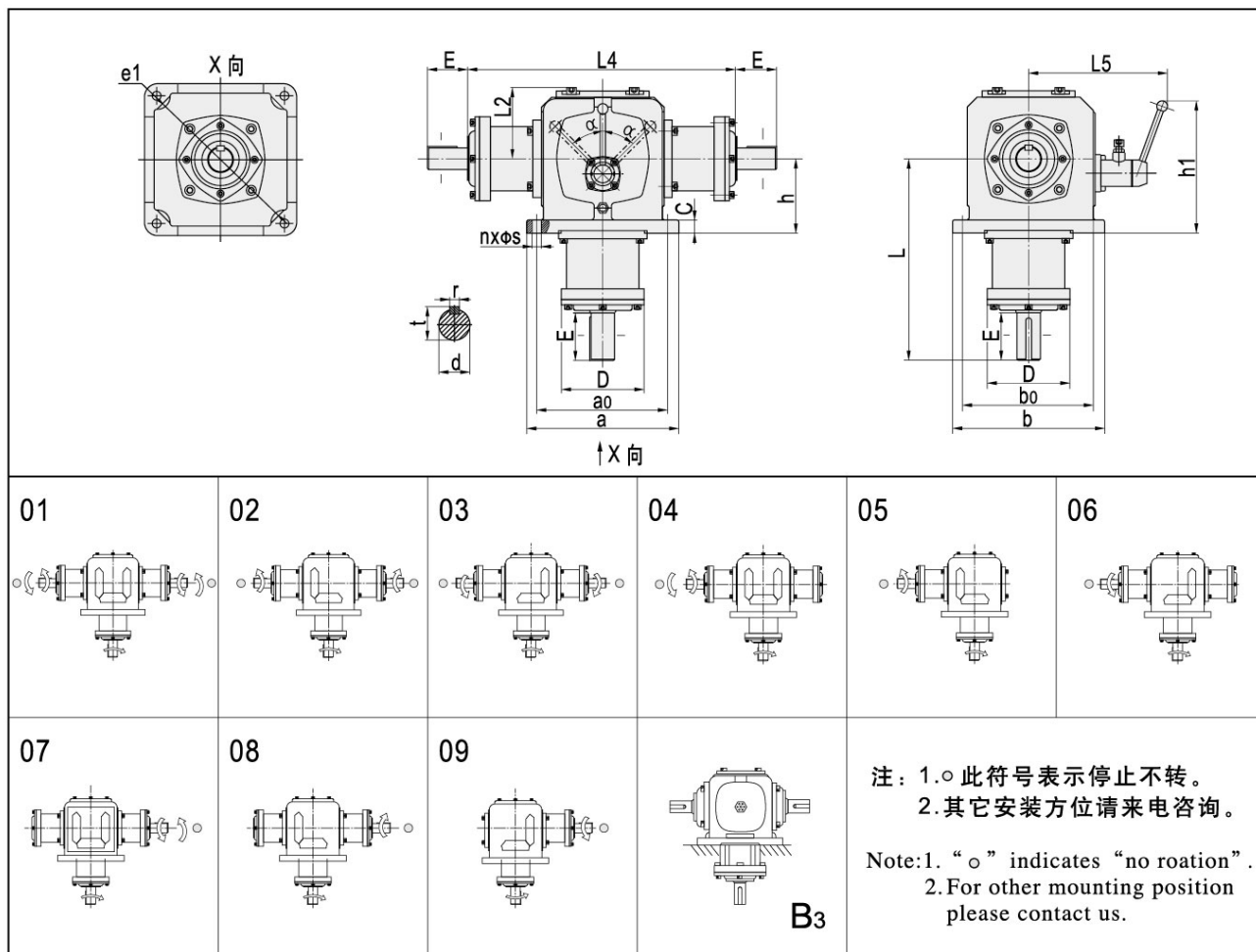
- 1、Input rotation direction keep no change, output roation direction can be opposite, same or no rotation.
- 2、Single-shaft-put shaft, double output shafts. In case of double out-put shafts, one shaft rotate, the other can stop; two output shafts can stop rotating or rotate together; and the rotative dinction of two output shafts can be the same or opposite.
- 3、Generally, ratio is 1:1,if not, please consult us.
- 4、Beyond type range: TB6、TB7、TB8、TB10、TB12、TB16, please consult us.

### TB series model illustration:

## 尺寸图表、轴配置及轴旋转方向的关系、安装方位：

The relationship between shaft arrangements and direction of shaft rotation, Mounting position and dimension sheets:



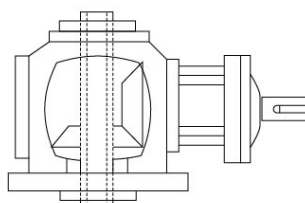
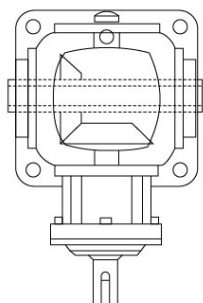


|           | TB6   | TB7   | TB8   | TB10  | TB12  | TB16  |
|-----------|-------|-------|-------|-------|-------|-------|
| a         | 190   | 210   | 235   | 285   | 340   | 390   |
| ao        | 152   | 174   | 195   | 240   | 290   | 330   |
| b         | 190   | 210   | 235   | 285   | 340   | 390   |
| bo        | 152   | 174   | 195   | 240   | 290   | 330   |
| c         | 17    | 20    | 23    | 25    | 32    | 40    |
| d(h7)     | 25    | 32    | 40    | 45    | 50    | 60    |
| E         | 50    | 62    | 75    | 90    | 100   | 105   |
| e1(H8)X 深 | 190X5 | 220X5 | 250X5 | 305X5 | 370X5 | 420X7 |
| L2        | 87    | 99    | 114.5 | 133   | 160   | 186   |
| h         | 90    | 100   | 115   | 140   | 175   | 200   |
| L         | 222   | 265   | 308   | 360   | 415   | 455   |
| L4        | 214   | 226   | 266   | 300   | 350   | 420   |
| L5        | 175   | 186   | 239   | 262   | 307.5 | 336   |
| h1        | 182   | 192.5 | 225   | 248   | 313.3 | 324   |
| n         | 4     | 4     | 4     | 4     | 4     | 4     |
| r         | 8     | 10    | 12    | 14    | 14    | 18    |
| S         | 14    | 14    | 14    | 16    | 21    | 25    |
| t         | 28    | 35    | 43    | 48.5  | 53.5  | 64    |
| D         | 115   | 125   | 159   | 155   | 168   | 193   |
| $\alpha$  | 45°   | 45°   | 40°   | 40°   | 42°   | 42°   |

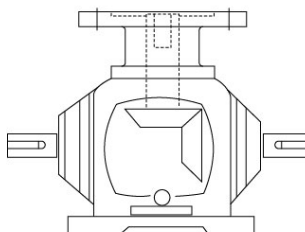
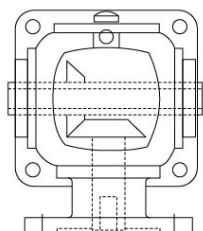


螺旋锥齿轮转向箱如带输入法兰、  
空心轴、内外花键请来电咨询：

Please refer to us, if selecting shaft with  
involute spline or shrink disk:



带空心输入输出轴 With hollow input or output shaft



带输入输出法兰 With input or output flange