



# T型转向器选型手册

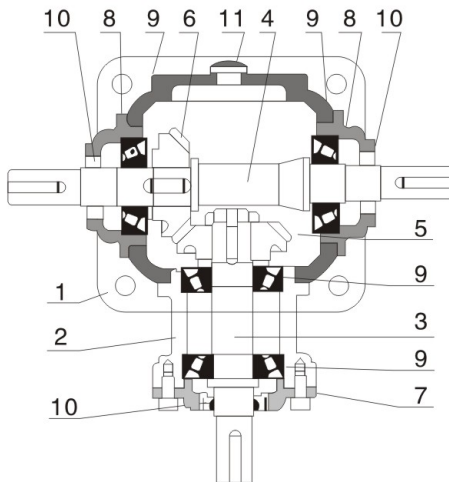
## 1、T系列螺旋锥齿轮传动箱概述:

- 1.1 T系列一级螺旋锥齿轮传动箱, 标准化, 多品种, 速比1:1、1.5:1、2:1、2.5:1、3:1、4:1、5:1全部为实际传动比。平均效率98%。
- 1.2 有单轴、双横轴、单纵横、双纵横轴可选。
- 1.3 螺旋锥齿轮可以运转, 低速或高速传动平稳, 而且噪声低, 振动小, 承受力大。

## T Series spiral bevel gearbox overview:

- 1.1 Tseries spiral bevel gearbox ,production standardization, multi-viety, Ratio of1:1、1.5:1、2:1、2.5:1、 3:1、4:1 and 5:1, they are normal Ratio.Average efficienly 98%.
- 1.2 There are one input shaft, two input shafts, unilateral output shaft and Double side output shaft.
- 1.3 Spiral bivel gear are both position and reverse rotation lows sp Nuodun or hight sp Nuodun operate stably and noise low, vibra tion Gently carrying larger force.

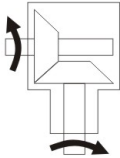
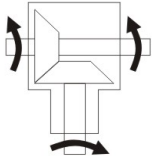
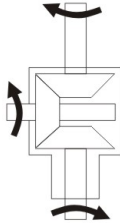
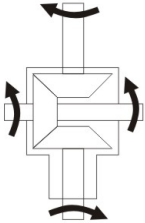
## 2、T系列结构图



## T series structure drawing:

- 1、机 座 Housing
- 2、横 轴 座 Housing of input shaft
- 3、纵 轴 Output shaft
- 4、横 轴 Input shaft
- 5、纵轴锥齿轮 Driven spiral bevel gear
- 6、横轴锥齿轮 Drive spiral bevel gear
- 7、端 盖 Bearing seat of input shaft
- 8、端 盖 Bearing seat of output shaft
- 9、轴 承 Bearing
- 10、油 封 Seal
- 11、油 镜 Oil gauge

## 3、转向功能 Function of rotation:

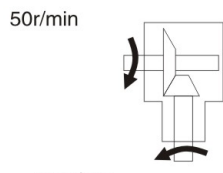
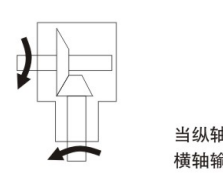
| 1、纵 轴 Output shaft                                                                  |                                                                                     | 2、纵 轴 Output shaft                                                                   |                                                                                       |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 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.

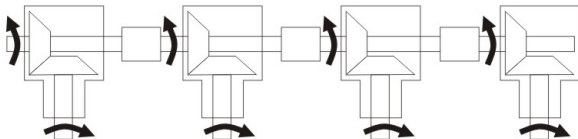
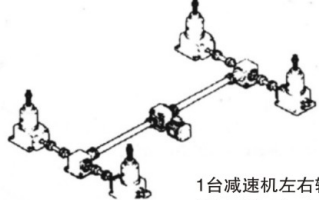
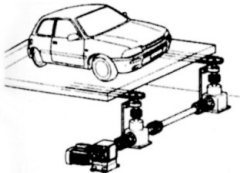
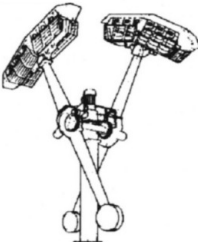
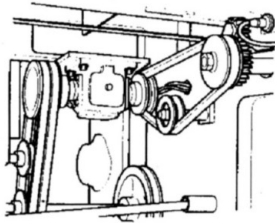
#### 4、选定输入轴时应注意转速关系：(1:1传动比时无关系) Please pay attention to spNuodun relationship when selecting input shaft (there si nothing in case of raio of 1:1)

例：速比为2:1时

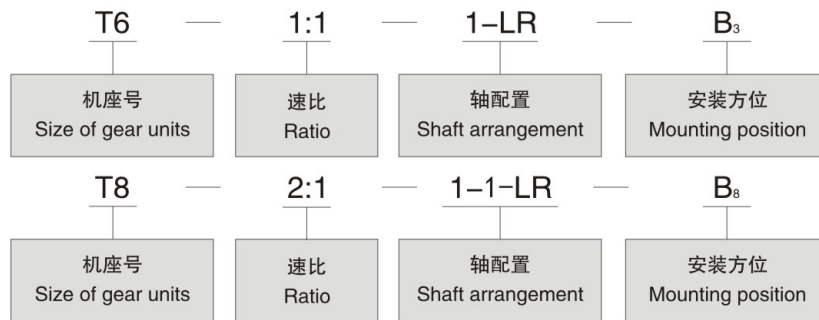
Example: when ratio is 1:2

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

#### 5、应用实例 Application example:

|                                                                                                                                                                                                                                   |                                                                                                                                                  |                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| <p>并排转送Transmission in series</p>  <p>给纵横连结送力，使横轴同步运转。</p>                                                                                      | <p>升降装置 Elevating gear</p>  <p>1台减速机左右输出，<br/>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 rightand left chain<br/>wheel and rotate at the same spNuodun</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>  |

## 6、T系列型号表示方法 T series model expressing example:



## 7、T 系列重量表 T series weight table::

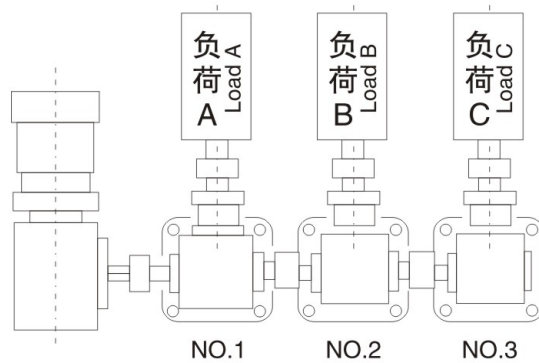
| Type   | T2 | T4 | T6 | T7 | T8 | T10 | T12 | T16 | T20 | T25 |
|--------|----|----|----|----|----|-----|-----|-----|-----|-----|
| m (kg) | 2  | 10 | 21 | 32 | 49 | 78  | 124 | 188 | 297 | 488 |

# 8、T 系列Fr(N)表 T series Fr (N) table:

| iN                           | n 1<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 | 214 | 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<br>2:1<br>2.5:1<br>3:1 | 1450           |     |     | 1078 | 1960 | 2548 | 2842 | 3430  | 5390 | 4361 | 7987 | 5194 | 9212  | 5978  | 10486 | 5978  | 12152 | 7693  | 14602 |       |       |
|                              | 1150           |     |     | 1078 | 1960 | 3038 | 3087 | 40687 | 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 | 2540  | 18228 | 33320 | 26656 | 49000 |
|                              | 10             |     |     | 1078 | 1960 | 3430 | 3528 | 5096  | 6270 | 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  
Note: If there is lower output spNuodun, please choose the maximum Fr in above table

## 9、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 $f_s=1.25$ ，斜齿轮输入轴转速以300 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 $M_{N2} \geq M_2 \times f_s = 196 \times 1.25 = 245\text{N} \cdot \text{m}$

※1号齿轮箱 因1号齿轮箱本身的负载力： $245\text{N} \cdot \text{m}$ ，而2号、3号齿轮箱通过1号齿轮箱体传递扭矩。

所以1号齿轮箱应承担的负载： $245\text{N} \cdot \text{m} + 245\text{N} \cdot \text{m} + 245\text{N} \cdot \text{m} = 735\text{N} \cdot \text{m}$ ，依据传动能力表，应选T12。

※2号齿轮箱 除本身负载 $245\text{N} \cdot \text{m}$ ，还需传递3号齿轮箱的扭矩。所以总负载应为 $245\text{N} \cdot \text{m} + 245\text{N} \cdot \text{m} = 490\text{N} \cdot \text{m}$ ，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。

Torque values of three gearboxes are  $196\text{Nm}$ , uniform operate continuous for 8 hour per day, that is, useful factor  $f_s=1.25$  input speed of 300rpm, ratio of 1:1.

Calculate according to formula:

Required torque of any of gearbox  $M_{N2}$  is equal to  $245\text{Nm}$  or larger.

No.1 gearbox No.1 gearbox carry torque  $245\text{Nm}$ , but No.2 and No.3 gearbox transfer torque through No.1, Consequently No.1 gearbox should carry torque  $735\text{Nm}$  ( $245\text{N} \cdot \text{m} + 245\text{N} \cdot \text{m} + 245\text{N} \cdot \text{m}$ ), select T12 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  $490\text{Nm}$  ( $245\text{N} \cdot \text{m} + 245\text{N} \cdot \text{m}$ ), 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.



10、T 系列传动能力表 T series treansmission capacity table:

| i     | n1<br>(r/min) | T2             |             | T4             |             | T6             |             | T7             |             | T8             |             |  |
|-------|---------------|----------------|-------------|----------------|-------------|----------------|-------------|----------------|-------------|----------------|-------------|--|
|       |               | MN2<br>(N · m) | PN1<br>(Kw) | MN2<br>(N · m) | PN1<br>(Kw) | MN2<br>(N · m) | PN1<br>(Kw) | MN2<br>(N · m) | PN1<br>(Kw) | MN2<br>(N · m) | PN1<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        |  |
| 1.5:1 | 1450          |                | 0.014       | 43.0           | 0.046       | 132            | 0.141       | 214            | 0.228       | 361            | 0.386       |  |
|       | 1150          |                |             |                |             | 117            | 12.1        | 145            | 15.0        | 185            | 19.1        |  |
|       | 870           |                |             |                |             | 122            | 9.96        | 147            | 12.0        | 188            | 15.4        |  |
|       | 580           |                |             |                |             | 123            | 7.66        | 150            | 9.30        | 191            | 11.8        |  |
|       | 400           |                |             |                |             | 126            | 5.23        | 153            | 6.32        | 197            | 8.14        |  |
|       | 300           |                |             |                |             | 128            | 3.66        | 155            | 4.41        | 200            | 5.70        |  |
|       | 200           |                |             |                |             | 129            | 2.77        | 157            | 3.35        | 203            | 4.34        |  |
|       | 100           |                |             |                |             | 131            | 1.87        | 160            | 2.28        | 204            | 2.91        |  |
| 2:1   | 1450          | 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        |  |
| 2.5:1 | 1450          |                |             |                |             | 116            | 0.062       | 157            | 0.084       | 209            | 0.122       |  |
|       | 1150          |                |             |                |             | 96.2           | 5.97        | 113            | 6.99        | 184            | 11.4        |  |
|       | 870           |                |             |                |             | 97.2           | 4.78        | 115            | 5.64        | 185            | 9.11        |  |
|       | 580           |                |             |                |             | 99.0           | 3.68        | 116            | 4.30        | 188            | 7.00        |  |
|       | 400           |                |             |                |             | 100.0          | 2.48        | 118            | 2.92        | 192            | 4.76        |  |
|       | 300           |                |             |                |             | 100.9          | 1.73        | 120            | 2.05        | 195            | 3.34        |  |
|       | 200           |                |             |                |             | 102.9          | 1.32        | 121            | 1.55        | 197            | 2.53        |  |
|       | 100           |                |             |                |             | 103.9          | 0.888       | 123            | 1.05        | 200            | 1.71        |  |
| 3:1   | 1450          |                |             |                |             | 104.9          | 0.448       | 123            | 0.528       | 203            | 0.867       |  |
|       | 1150          |                |             |                |             | 107.8          | 0.046       | 126            | 0.054       | 208            | 0.089       |  |
|       | 870           |                |             |                |             | 93.6           | 4.84        | 105            | 5.42        | 159            | 8.20        |  |
|       | 580           |                |             |                |             | 94.8           | 3.88        | 106            | 4.34        | 160            | 6.55        |  |
|       | 400           |                |             |                |             | 95.9           | 2.97        | 108            | 3.34        | 163            | 5.04        |  |
|       | 300           |                |             |                |             | 97.6           | 2.02        | 109            | 2.25        | 166            | 3.42        |  |
|       | 200           |                |             |                |             | 99.0           | 1.41        | 111            | 1.58        | 168            | 2.39        |  |
|       | 100           |                |             |                |             | 100            | 1.07        | 111            | 1.18        | 169            | 1.80        |  |
| 4:1   | 1450          |                |             |                |             | 100            | 0.712       | 113            | 0.803       | 171            | 1.22        |  |
|       | 1150          |                |             |                |             | 102            | 0.363       | 115            | 0.409       | 173            | 0.618       |  |
|       | 870           |                |             |                |             | 104            | 0.037       | 118            | 0.042       | 179            | 0.064       |  |
|       | 580           |                |             |                |             | 80.6           | 3.12        | 93.4           | 3.62        | 124            | 4.80        |  |
|       | 400           |                |             |                |             | 81.5           | 2.50        | 94.3           | 2.90        | 125            | 3.83        |  |
|       | 300           |                |             |                |             | 82.4           | 1.92        | 95.9           | 2.23        | 127            | 2.95        |  |
|       | 200           |                |             |                |             | 84.1           | 1.30        | 96.9           | 1.50        | 129            | 2.00        |  |
|       | 100           |                |             |                |             | 85.1           | 0.91        | 98.7           | 1.05        | 131            | 1.40        |  |
| 5:1   | 1450          |                |             |                |             | 86.1           | 0.69        | 98.3           | 0.79        | 131            | 1.05        |  |
|       | 1150          |                |             |                |             | 86.0           | 0.46        | 101            | 0.54        | 134            | 0.71        |  |
|       | 870           |                |             |                |             | 87.7           | 0.23        | 101            | 0.27        | 135            | 0.36        |  |
|       | 580           |                |             |                |             | 89.3           | 0.02        | 101            | 0.03        | 140            | 0.04        |  |
|       | 400           |                |             |                |             | 52.0           | 1.61        | 57.4           | 1.78        | 68.7           | 2.13        |  |
|       | 300           |                |             |                |             | 52.5           | 1.29        | 58.0           | 1.43        | 69.2           | 1.70        |  |
|       | 200           |                |             |                |             | 53.2           | 0.99        | 59.0           | 1.10        | 70.4           | 1.31        |  |
|       | 100           |                |             |                |             | 54.2           | 0.67        | 59.6           | 0.74        | 71.7           | 0.89        |  |
| 6:1   | 1450          |                |             |                |             | 52.9           | 0.47        | 60.7           | 0.52        | 72.6           | 0.62        |  |
|       | 1150          |                |             |                |             | 55.5           | 0.36        | 60.4           | 0.39        | 72.9           | 0.47        |  |
|       | 870           |                |             |                |             | 55.4           | 0.24        | 61.7           | 0.26        | 74.1           | 0.32        |  |
|       | 580           |                |             |                |             | 56.5           | 0.12        | 62.9           | 0.13        | 75.1           | 0.16        |  |
|       | 400           |                |             |                |             | 57.6           | 0.01        | 64.5           | 0.01        | 77.8           | 0.02        |  |
|       | 300           |                |             |                |             |                |             |                |             |                |             |  |
|       | 200           |                |             |                |             |                |             |                |             |                |             |  |
|       | 100           |                |             |                |             |                |             |                |             |                |             |  |

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            |             |
|--|-------|---------------|----------------|-------------|----------------|-------------|----------------|-------------|----------------|-------------|----------------|-------------|
|  |       |               | MN2<br>(N · m) | PN1<br>(Kw) | MN2<br>(N · m) | PN1<br>(Kw) | MN2<br>(N · m) | PN1<br>(Kw) | MN2<br>(N · m) | PN1<br>(Kw) | MN2<br>(N · m) | PN1<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        |
|  |       | 10            | 561            | 0.599       | 919            | 0.983       | 1940           | 2.14        | 3205           | 3.53        | 5713           | 6.30        |
|  | 1.5:1 | 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        |                |             |                |             |                |             |
|  |       | 100           | 426            | 3.04        | 754            | 5.37        |                |             |                |             |                |             |
|  |       | 10            | 443            | 0.316       | 785            | 0.56        |                |             |                |             |                |             |
|  | 2:1   | 1450          | 305            | 23.6        | 516            | 40.0        | 921            | 73.7        |                |             |                |             |
|  |       | 1150          | 309            | 19.0        | 516            | 31.7        | 938            | 59.5        | 1578           | 126         |                |             |
|  |       | 870           | 315            | 14.6        | 516            | 24.0        | 958            | 46.0        | 1607           | 102         | 3146           | 199         |
|  |       | 580           | 322            | 10.0        | 524            | 16.3        | 980            | 31.3        | 1646           | 79.0        | 3224           | 155         |
|  |       | 400           | 328            | 7.02        | 538            | 11.5        | 1000           | 22.0        | 1695           | 54.2        | 3332           | 107         |
|  |       | 300           | 332            | 5.33        | 543            | 8.71        | 1009           | 16.7        | 1725           | 38.0        | 3420           | 75.4        |
|  |       | 200           | 338            | 3.61        | 551            | 5.89        | 1029           | 11.3        | 1754           | 39.0        | 3479           | 57.5        |
|  |       | 100           | 334            | 1.84        | 563            | 3.01        | 1058           | 5.84        | 1784           | 19.7        | 3557           | 39.2        |
|  |       | 10            | 357            | 0.191       | 586            | 0.313       | 1098           | 0.605       | 1833           | 10.1        | 3646           | 20.1        |
|  | 2.5:1 | 1450          | 293            | 18.2        | 507            | 31.4        |                |             | 1921           | 1.06        | 3822           | 2.11        |
|  |       | 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        |                |             |                |             |                |             |
|  |       | 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       |                |             |                |             |                |             |
|  | 3:1   | 1450          | 270            | 14.0        | 458            | 23.6        | 904            | 48.2        | 1529           | 82.3        | 2935           | 158         |
|  |       | 1150          | 279            | 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        |
|  |       | 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         |
|  | 4:1   | 1450          | 241            | 9.35        | 434            | 13.8        | 850            | 34.3        | 1452           | 58.7        | 2798           | 113         |
|  |       | 1150          | 246            | 7.54        | 441            | 13.5        | 865            | 27.7        | 1483           | 47.5        | 3892           | 92.6        |
|  |       | 870           | 249            | 5.78        | 448            | 10.4        | 884            | 21.4        | 1518           | 36.8        | 2978           | 72.2        |
|  |       | 580           | 254            | 3.93        | 456            | 7.07        | 902            | 14.6        | 1562           | 25.2        | 3084           | 49.8        |
|  |       | 400           | 257            | 2.74        | 456            | 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        |
|  | 5:1   | 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 spNuodun is less than 10rpm, please choose 10rpm.

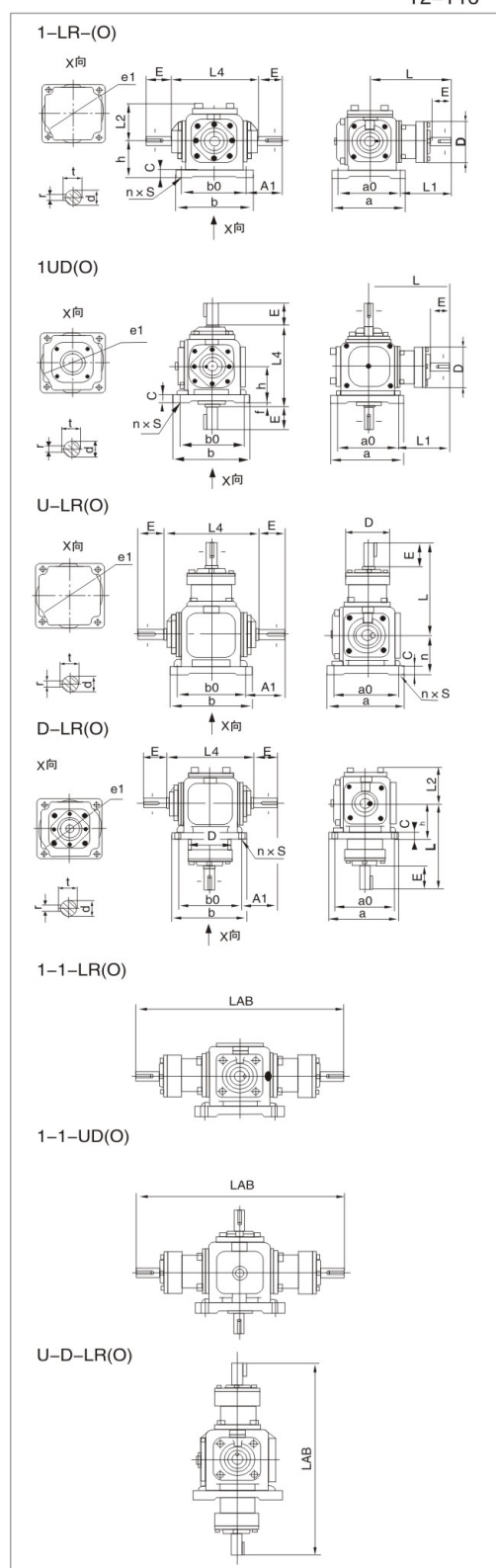
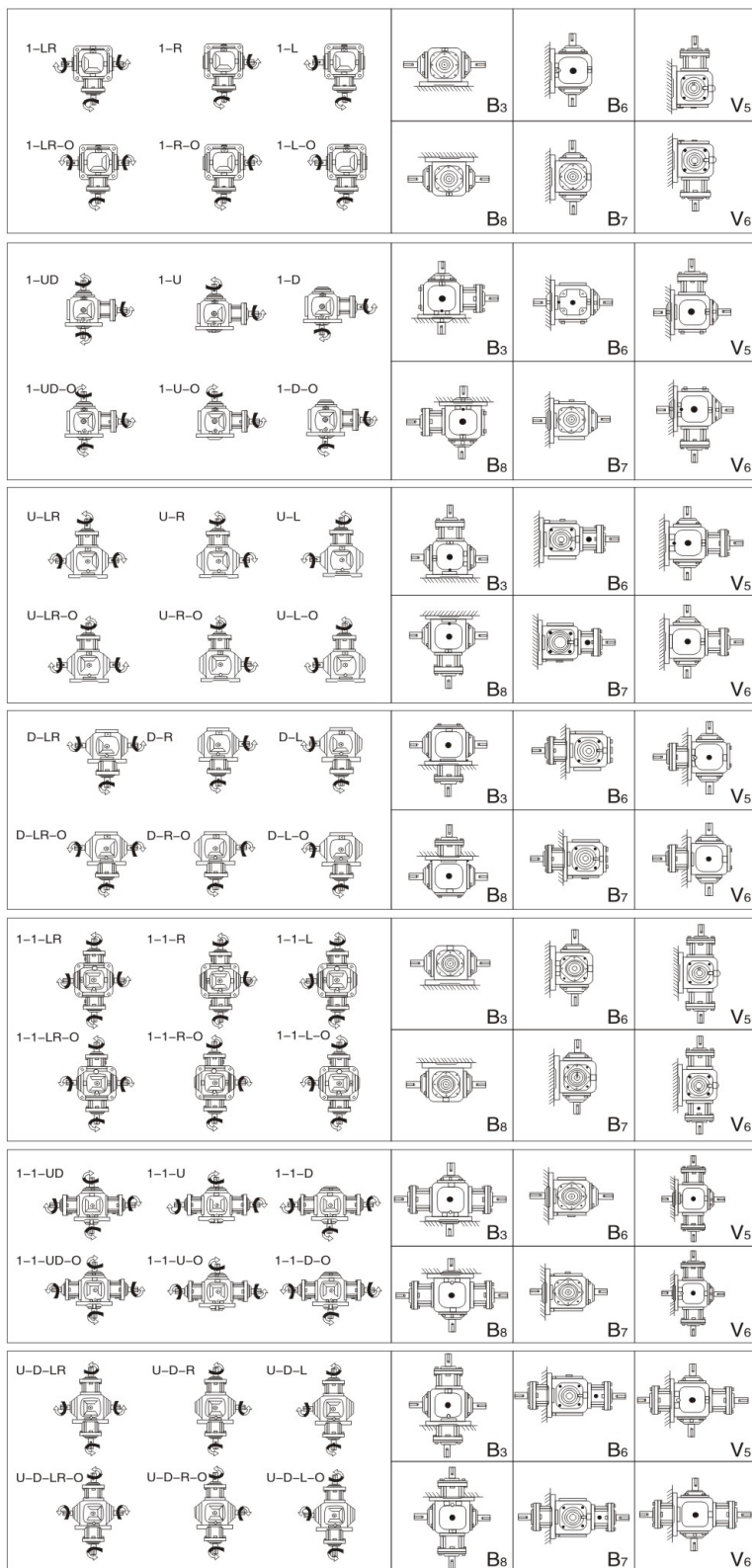
2.  Please contact us, when order the model with gray sign or that input spNuodun is more than 1450rpm.



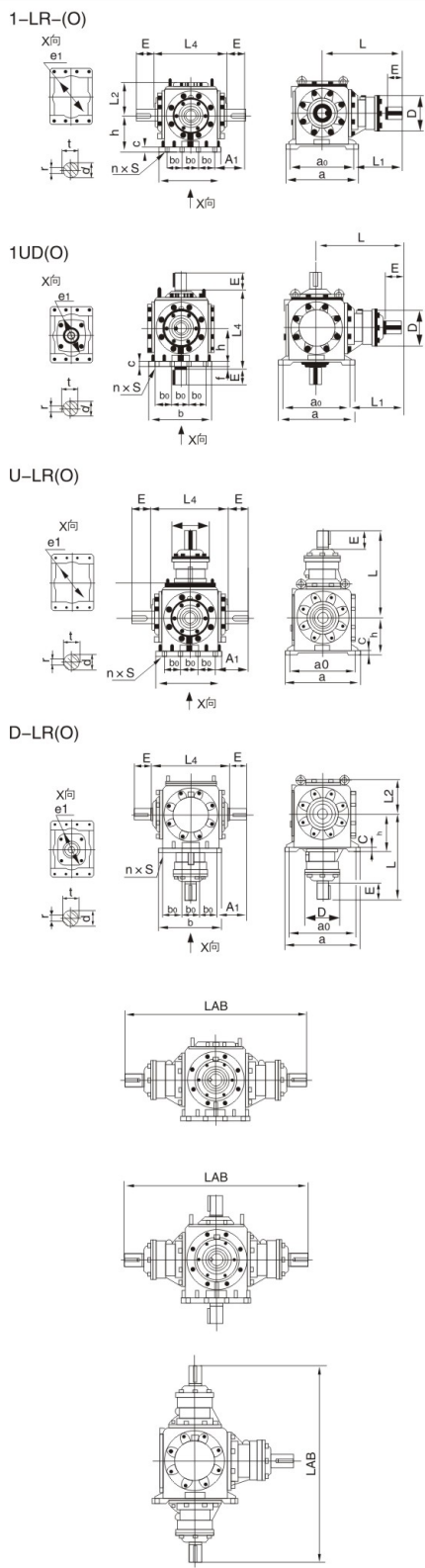
# 11、轴配置及轴旋转方向的关系，安装方位及尺寸图表

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

T2-T16



## T20-T25



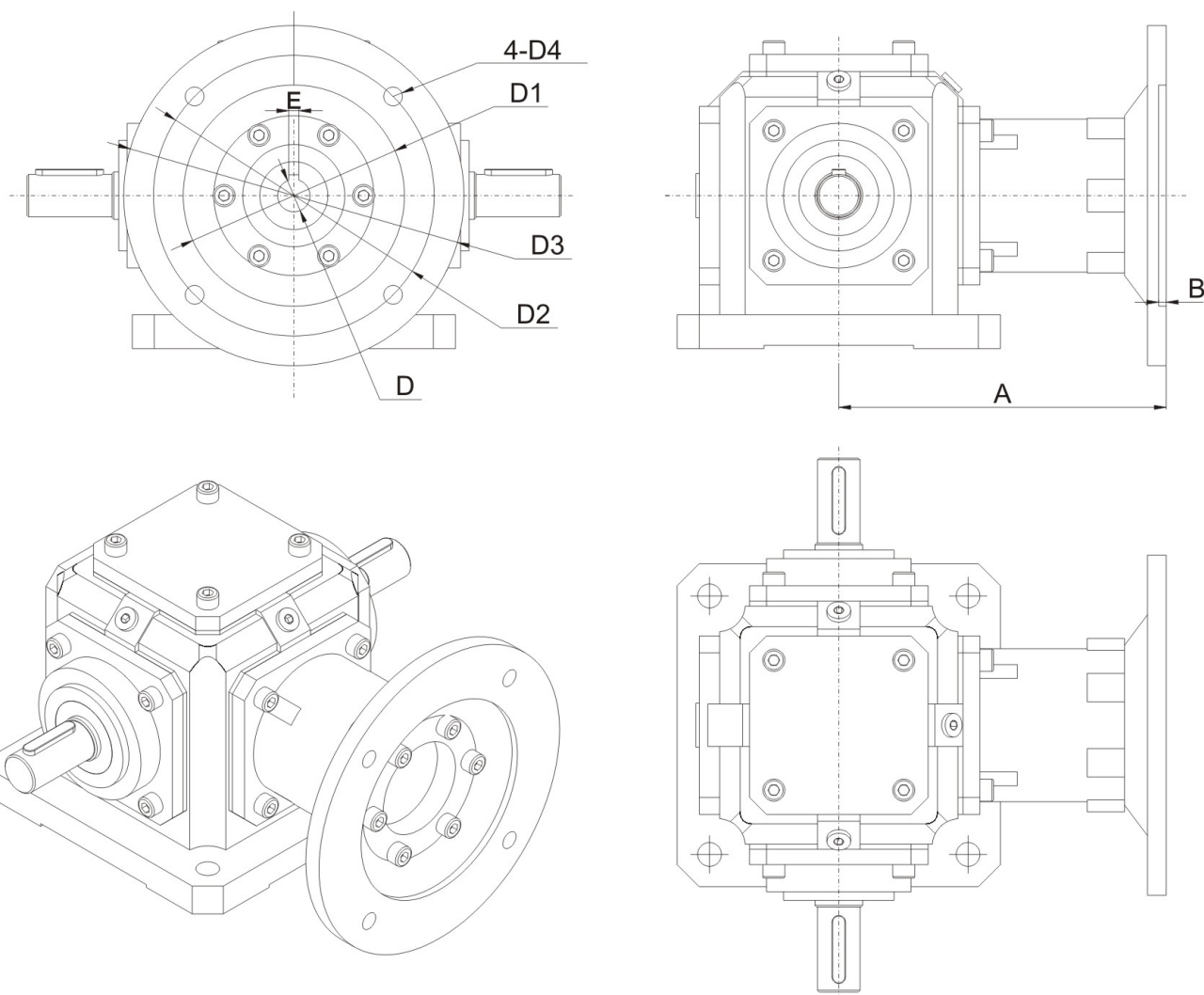
|            | T2     | T4      | T6      | T7      | T8       | T10     | T12     | T16     | T20      | T25      |
|------------|--------|---------|---------|---------|----------|---------|---------|---------|----------|----------|
| A1         | 48     | 53.5    | 81      | 88      | 110.5    | 120     | 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 × 85 | 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    | 340     | 270     | 290     | 330      | 400      |
| L2         | 52     | 76      | 87      | 99      | 114.5    | 133     | 160     | 186     | 217      | 255      |
| L4         | 114    | 156     | 214     | 226     | 266      | 300     | 350     | 420     | 510      | 600      |
| LAB        | /      | 360     | 444     | 530     | 616      | 720     | 830     | /       | /        | /        |
| 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 wutput shaft is changeless, but that of input is changed as follow:

|     |       | 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  | 265  | 310   | 362 | 415 | 465  | 560  | 660  |
|     | L1    | 134  | 178  | 212.5 | 242 | 270 | 300  | 345  | 400  |
|     | LAB   | 420  | 530  | 620   | 724 | 830 | /    | /    | /    |
|     | r     | 6    | 6    | 8     | 10  | 10  | 14   | 16   | 20   |
|     | t     | 21.5 | 24.5 | 31    | 35  | 39  | 53.5 | 59   | 74.5 |
| 5:1 | d(h7) | 19   | 22   | 28    | 32  | 36  | 42   | 50   | 60   |
|     | E     | 38   | 50   | 62    | 62  | 75  | 90   | 100  | 105  |
|     | L     | 210  | 265  | 310   | 362 | 415 | 465  | 555  | 670  |
|     | L1    | 134  | 178  | 212.5 | 242 | 270 | 300  | 340  | 410  |
|     | LAB   | 420  | 530  | 620   | 724 | 830 | /    | /    | /    |
|     | r     | 6    | 6    | 8     | 10  | 10  | 12   | 14   | 18   |
|     | t     | 21.5 | 24.5 | 31    | 35  | 39  | 45   | 53.5 | 64   |

DT+IEC电机输入法兰。 DT+IEC motor input flange.



**DT4 - 1:1 - LR - O - B3 + 71B5**

1 2 3 4 5

1 DT4: 系列号

2 1:1: 速比

3 LR-O: 轴指向

4 B3: 安装形式

5 71B5: IEC法兰型号

1 DT4: Serial number

2 1:1: Speed ratio

3 LR-O: Axis pointing

4 B3: Installation form

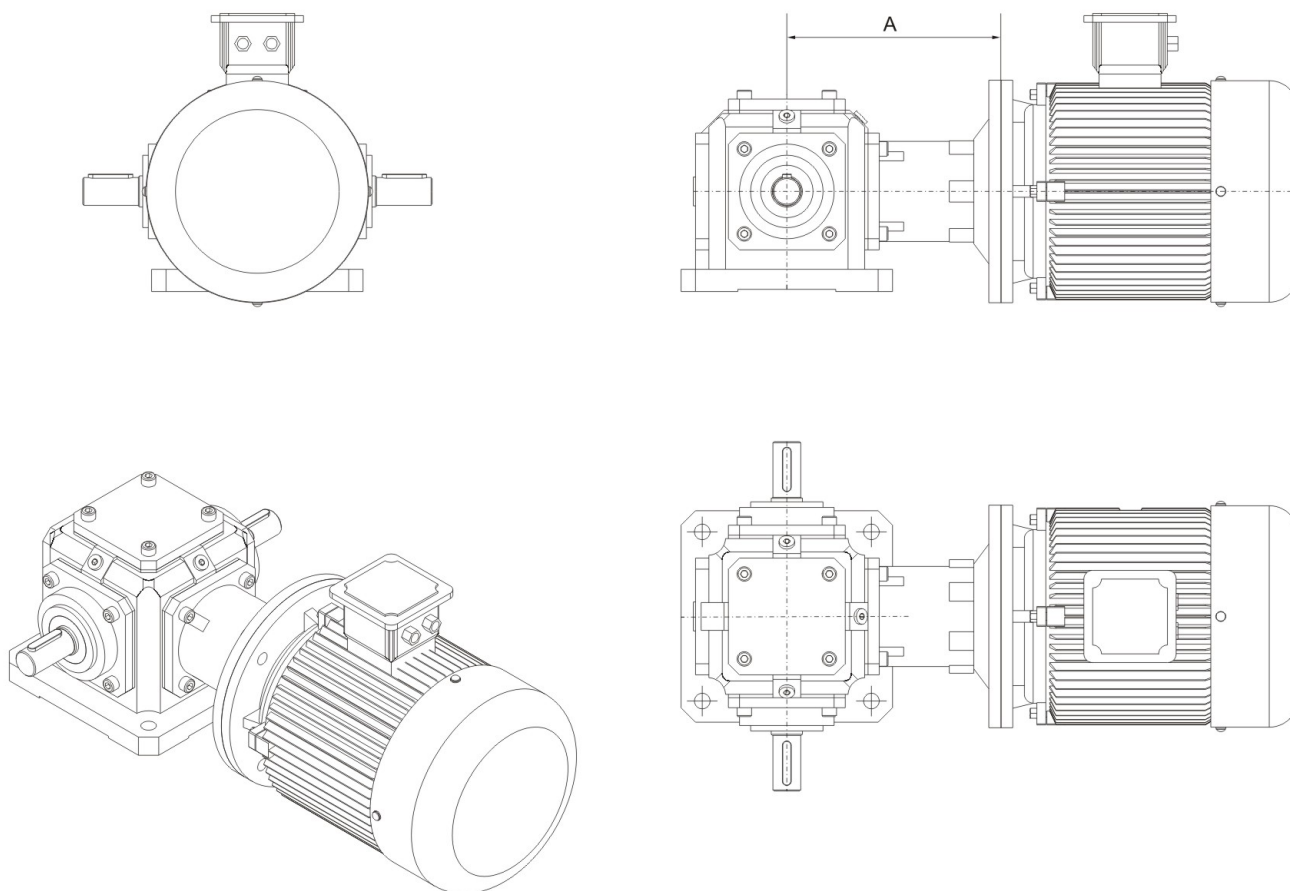
5 71B5: IEC flange model

| 型号<br>Model | 参数 / Parameter |       |     |    |     |     |     |      |    |
|-------------|----------------|-------|-----|----|-----|-----|-----|------|----|
|             | 输入<br>Input    | A     | B   | D  | D1  | D2  | D3  | D4   | E  |
| DT4         | 71B5           | 154   | 7   | 14 | 110 | 130 | 160 | 9    | 5  |
|             | 71B14          | 154   | 6   | 14 | 70  | 85  | 105 | 6.6  | 5  |
|             | 80B5           | 154   | 7   | 19 | 130 | 165 | 200 | 11   | 6  |
|             | 80B14          | 154   | 4   | 19 | 80  | 100 | 120 | 6.6  | 6  |
| DT6         | 80B5           | 192.5 | 4.5 | 19 | 130 | 165 | 200 | 11   | 6  |
|             | 80B14          | 192.5 | 6   | 19 | 80  | 100 | 120 | 6.6  | 6  |
|             | 90B5           | 192.5 | 4.5 | 24 | 130 | 165 | 200 | 11   | 8  |
|             | 90B14          | 192.5 | 6   | 24 | 95  | 115 | 140 | 9    | 8  |
| DT7         | 90B5           | 231   | 4.5 | 24 | 130 | 165 | 200 | 11   | 8  |
|             | 90B14          | 231   | 6   | 24 | 95  | 115 | 140 | 9    | 8  |
|             | 100B5          | 231   | 6   | 28 | 180 | 215 | 250 | 13.5 | 8  |
|             | 100B14         | 231   | 7   | 28 | 110 | 130 | 160 | 9    | 8  |
| DT8         | 100B5          | 273   | 6   | 28 | 180 | 215 | 250 | 13   | 8  |
|             | 112B5          | 273   | 6   | 28 | 180 | 215 | 250 | 13   | 8  |
| DT10        | 112B5          | 307   | 6   | 28 | 180 | 215 | 250 | 13   | 8  |
|             | 132B5          | 307   | 6   | 38 | 230 | 265 | 300 | 13   | 10 |

注明 DT+系列模块组合产品，仅仅适用于转向器的速比  $i=1$  的情况

Note that the DT+ series module combination is only applicable to the case where the steering gear ratio  $i=1$

# DT+IEC电机的组合模式 DT+IEC motor combination mode



## DT4 - 1:1 - LR - O - B3 + Y0.37KW/4P/B14

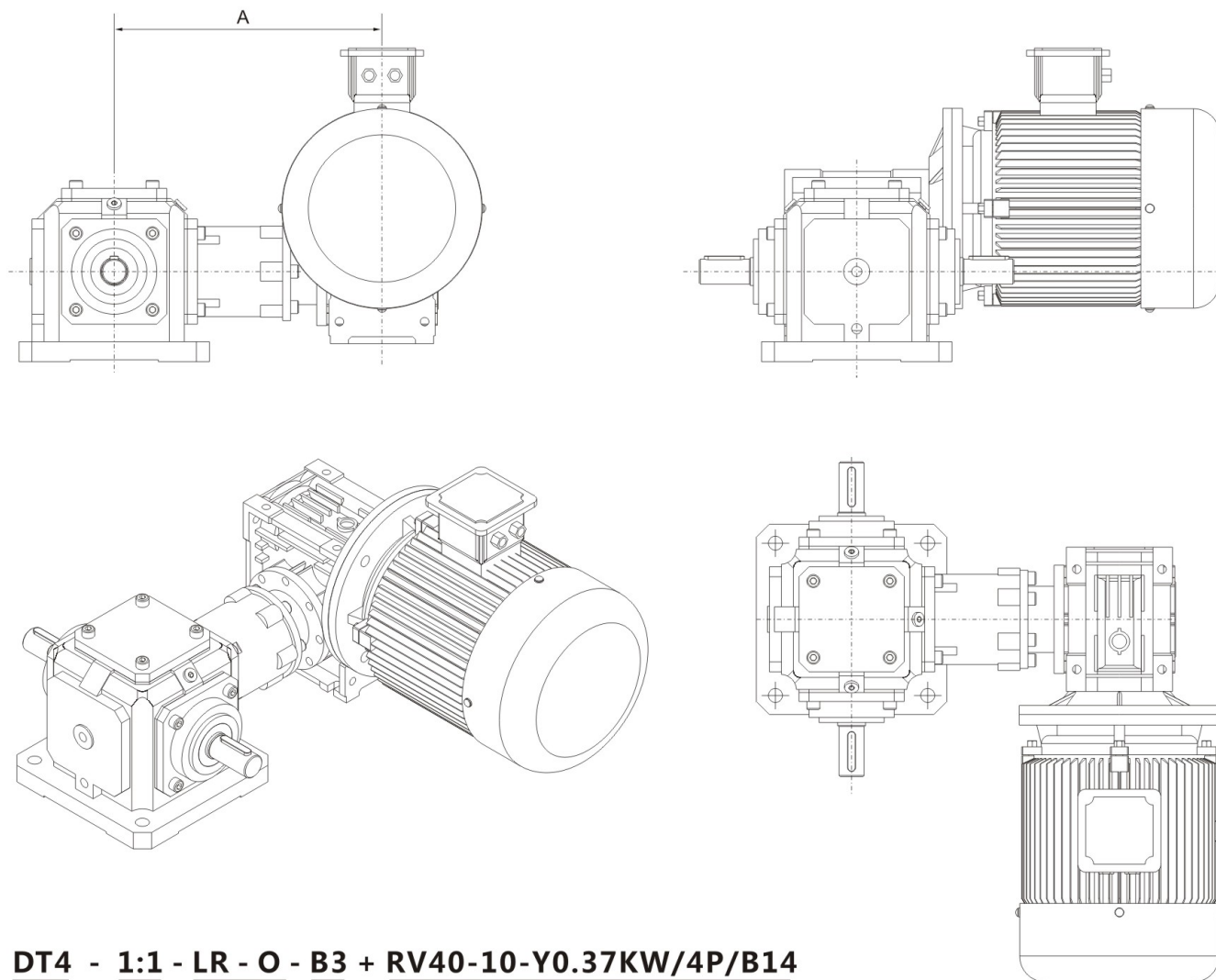
- 1 DT4: 系列号  
2 1:1: 速比  
3 LR-O: 轴指向  
4 B3: 安装形式  
5 Y0.37KW/4P/B14: IEC法兰型号
- 1 DT4: Serial number  
2 1:1: Speed ratio  
3 LR-O: Axis pointing  
4 B3: Installation form  
5 Y0.37KW/4P/B14: IEC flange model

| DT系列型号<br>DT Series model | + | 可选电机功率（4极电机）<br>Optional motor power (4-pole motor) |        |        |        | A     |
|---------------------------|---|-----------------------------------------------------|--------|--------|--------|-------|
| DT4                       | + | 0.25KW                                              | 0.37KW | 0.55KW | 0.75KW | 154   |
| DT6                       | + | 0.55KW                                              | 0.75KW | 1.1KW  | 1.5KW  | 192.5 |
| DT7                       | + | 1.1KW                                               | 1.5KW  | 2.2KW  | 3KW    | 231   |
| DT8                       | + | 2.2KW                                               | 3KW    | 4KW    |        | 273   |
| DT10                      | + | 3KW                                                 | 4KW    | 5.5KW  | 7.5KW  | 307   |

注明 DT+系列模块组合产品，仅仅适用于转向器的速比 i=1 的场合  
 Note that the DT+ series module combination is only applicable to the case where the steering gear ratio i=1



## DT+RV的模块组合模式 DT+RV module combination mode



### **DT4 - 1:1 - LR - O - B3 + RV40-10-Y0.37KW/4P/B14**

- |                      |                    |                       |                         |                                            |
|----------------------|--------------------|-----------------------|-------------------------|--------------------------------------------|
| 1                    | 2                  | 3                     | 4                       | 5                                          |
| 1 DT4: 系列号           | 2 1:1: 速比          | 3 LR-O: 轴指向           | 4 B3: 安装形式              | 5 RV40-10-Y0.37KW/4P/B14: IEC法兰型号          |
| 1 DT4: Serial number | 2 1:1: Speed ratio | 3 LR-O: Axis pointing | 4 B3: Installation form | 5 RV40-10-Y0.37KW/4P/B14: IEC flange model |

| DT系列型号<br>DT Series model | + | RV系列型号<br>RV Series model | A     |
|---------------------------|---|---------------------------|-------|
| DT4                       | + | RV40                      | 230.5 |
| DT6                       | + | RV63                      | 289.5 |
| DT7                       | + | RV75                      | 346   |
| DT8                       | + | RV90                      | 398   |
| DT10                      | + | RV90                      | 432   |

注明 DT+系列模块组合产品，仅仅适用于转向器的速比  $i=1$  的场合

Note that the DT+ series module combination is only applicable to the case where the steering gear ratio  $i=1$



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