



五星减速机
WUXING JIANSUJI

T系列螺旋锥齿轮转向箱

泰兴市五星减速机有限公司

Taixing Five Star Reducer Co., Ltd.

地址：江苏省泰兴市姚王镇118号

24小时服务热线：13961848999

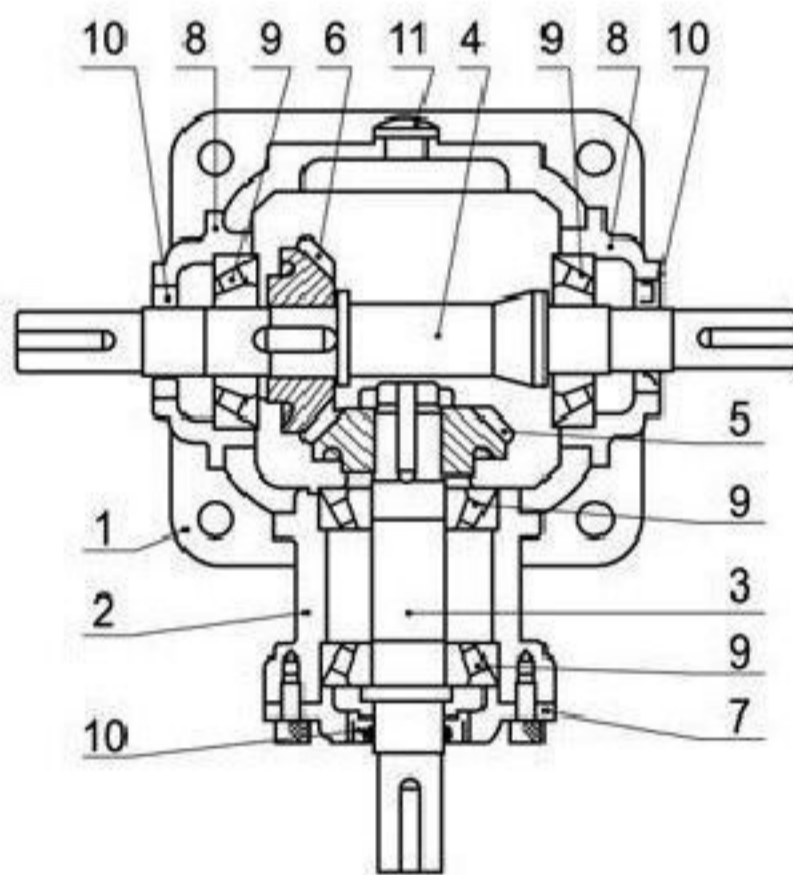


扫一扫加微信

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系列结构图：



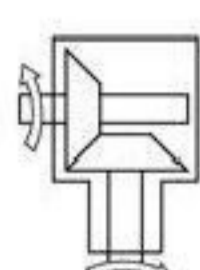
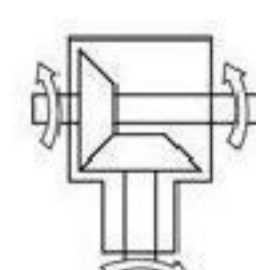
T series spiral bevel gearbox overview:

- 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 series structure drawing:

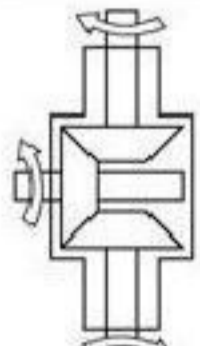
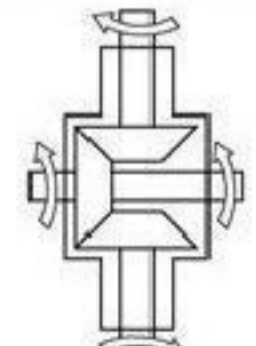
- | | |
|---------|--------------------------------------|
| 1、机座 | Housing |
| 2、横轴座 | Single-extendable shaft bearing seat |
| 3、横轴 | Single-extendable shaft |
| 4、纵轴 | Double-extendable shaft |
| 5、横轴锥齿轮 | Spiral bevel gear |
| 6、纵轴锥齿轮 | Spiral bevel gear |
| 7、端盖 | Bearing seat |
| 8、端盖 | Bearing seat |
| 9、轴承 | Bearing |
| 10、油封 | Seat |
| 11、油镜 | Oil gauge |

转向功能：

| 1 横轴 One single-extendable shaft | |
|---|---|
| 2轴 2-extended shaft | 3轴 3-extended shaft |
|  |  |

说明：当输入轴旋转方向改变，输出轴相应改变。

Function of rotation:

| 2 横轴 2 extendable shafts | |
|---|---|
| 3轴 3-extended shaft | 4轴 4-extended shaft |
|  |  |

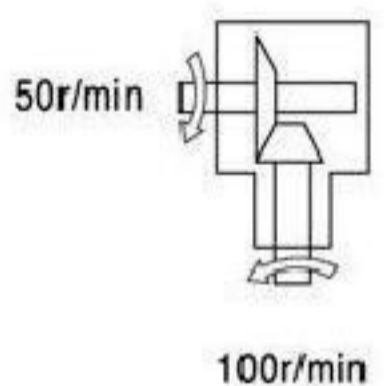
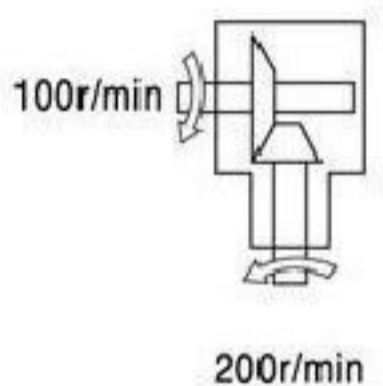
Specification: Direction of rotation of output shaft varies with that of input shaft.

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):

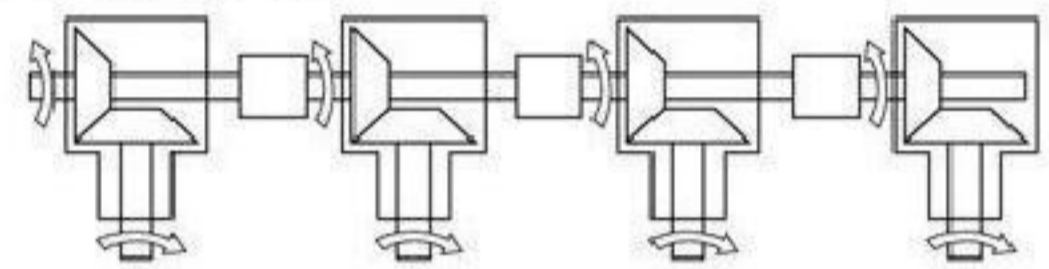
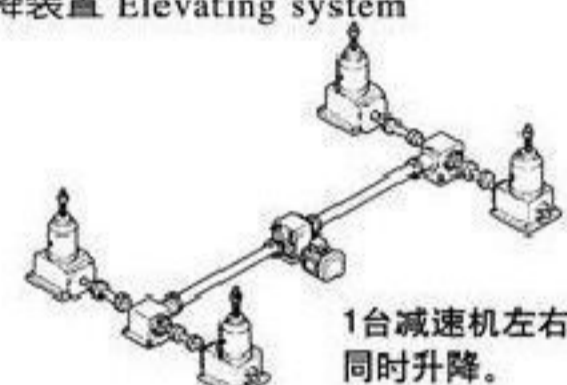
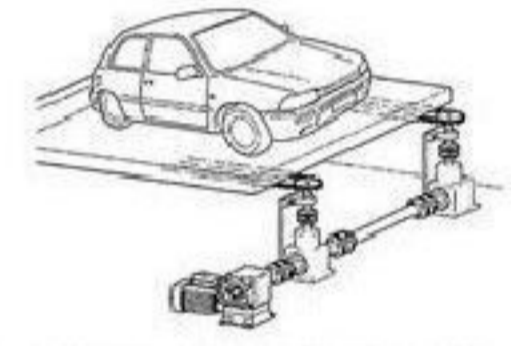
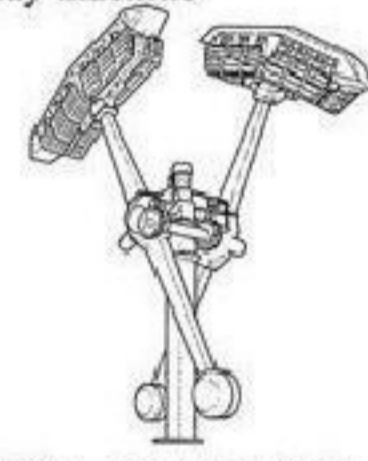
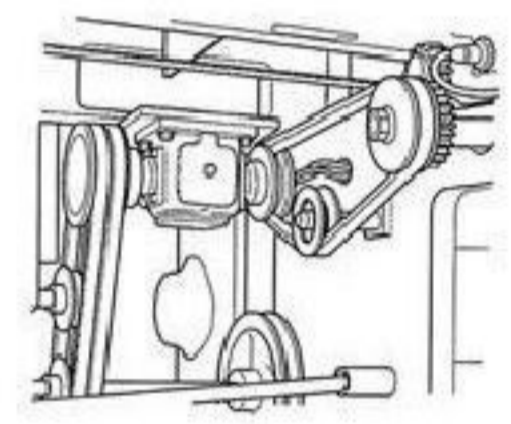
例: 速比为2:1时

Example: when ratio is 2.

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

应用实例:

Application example:

| | | |
|---|--|--|
| <p>并排转送 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。 One reducer drive rightand 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 ₃ |
| 机座号 Size of gear units | | 速比 ratio | | 轴配置 Shaft arrangement | | 安装方位 Mounting position |
| T8 | - | 2:1 | - | I-I-LR | - | B ₈ |
| 机座号 Size of gear units | | 速比 ratio | | 轴配置 Shaft arrangement | | 安装方位 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 _N | n ₁ (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 |
| 2:1 | 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 |
| 2.5:1 | 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 |
| 3:1 | 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 f1:
T series service factor f1:

| 负荷性质 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) |

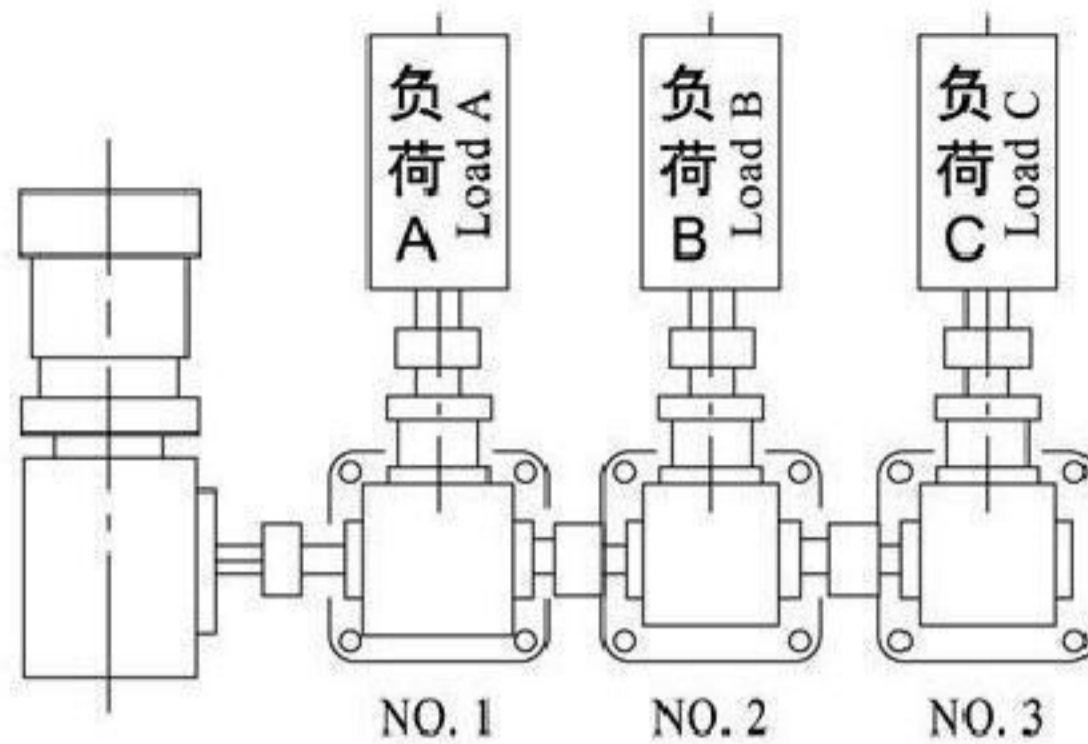
注: 当每小时起动、停止次数在10次以上, 请使用括号内数值。

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

T

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 $300\text{r}/\text{min}$ ，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：

$245\text{N}\cdot\text{m} + 245\text{N}\cdot\text{m} + 245\text{N}\cdot\text{m} = 735\text{N}\cdot\text{m}$ ，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

$245\text{N}\cdot\text{m} + 245\text{N}\cdot\text{m} = 490\text{N}\cdot\text{m}$ ，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 196Nm , uniform shock, duration of operation is 8 hour per day, service factor $f_1=1.25$, input speed is 300rpm , 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 245Nm , but No.2 and No.3 gearbox need transfer torque through No.1, Consequently No.1 gearbox should carry torque 735Nm ($245\text{Nm}+245\text{Nm}+245\text{Nm}$), select T 12 according to transmission capacity table.

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

No.3 gearbox Required torque is more than 245Nm 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, out put 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 | T2 | | T4 | | T6 | | T7 | | T8 | |
|-------|-------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|
| | r/min | T2N (N·m) | P1N (kw) | T2N (N·m) | P1N (kw) | T2N (N·m) | P1N (kw) | T2N (N·m) | P1N (kw) | T2N (N·m) | P1N (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订货时须咨询 横轴输入转速超过1450r/min时 向本公司咨询。

T

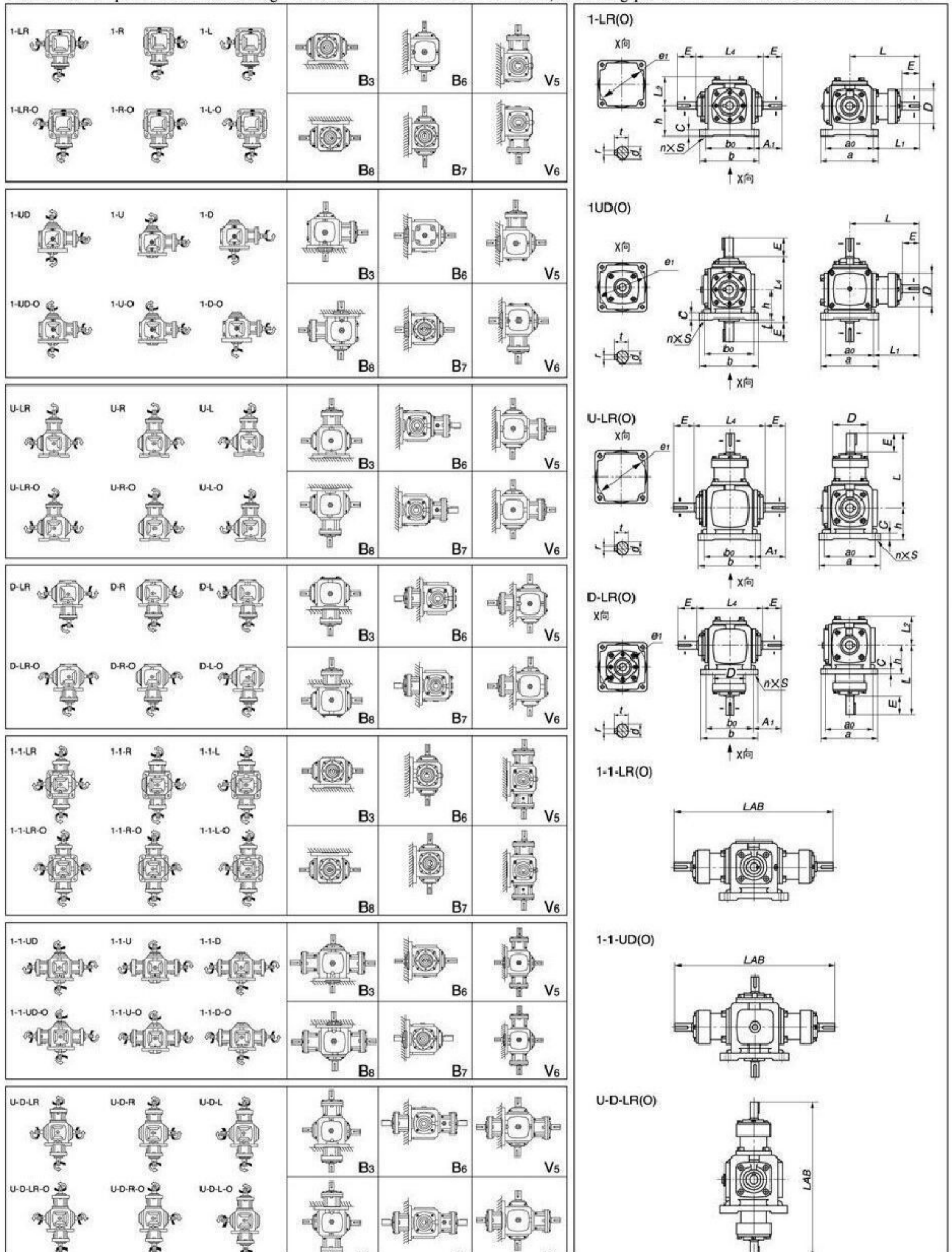


| i | n1 r/min | T 10 | | T 12 | | T 16 | | T 20 | | T 25 | |
|---------|-------------|--------------------------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|--------------------------|-------------------------|
| | | T _{2N} (N·m) | P _{1N} (kw) | T _{2N} (N·m) | P _{1N} (kw) | T _{2N} (N·m) | P _{1N} (kw) | T _{2N} (N·m) | P _{1N} (kw) | T _{2N} (N·m) | P _{1N} (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 | 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 |
| | 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 |
| 2.5 : 1 | 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 | | | | | | |
| | 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 | 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 |
| | 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 | 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 |
| | 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 |
| 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 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：

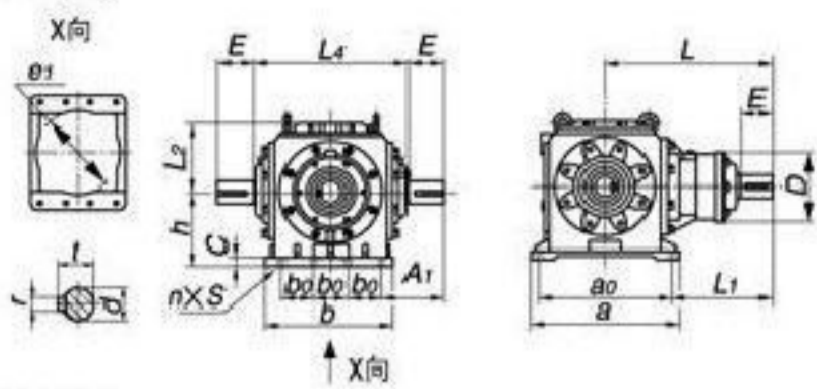
The relationship between shaft arrangements and direction of shaft rotation, Mounting position and dimension sheets: T2-T16



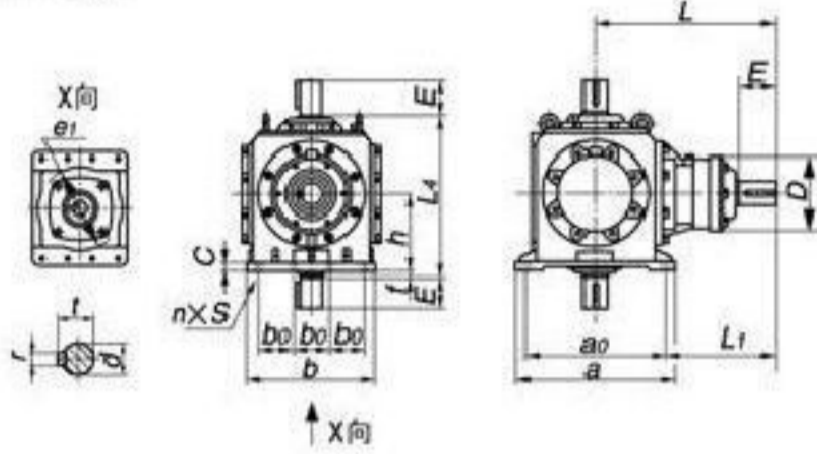


T20-T25

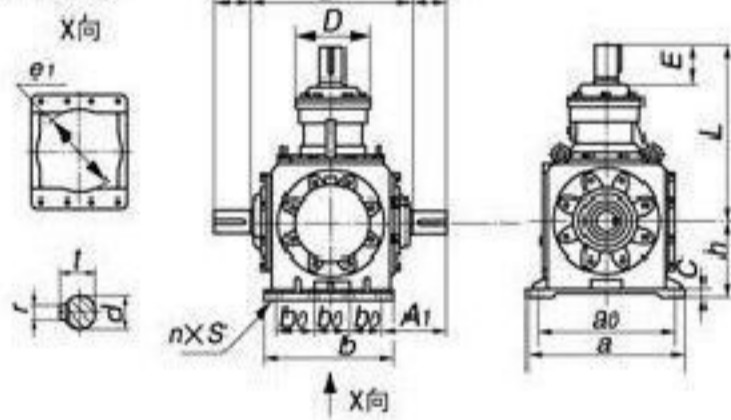
1-LR(O)



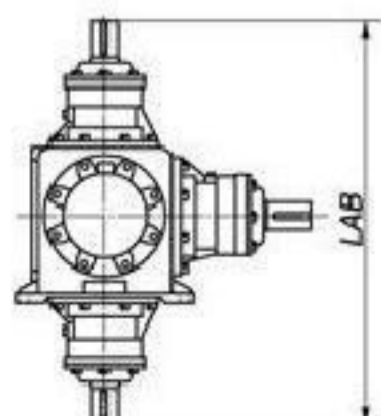
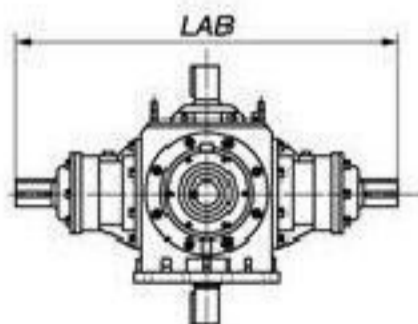
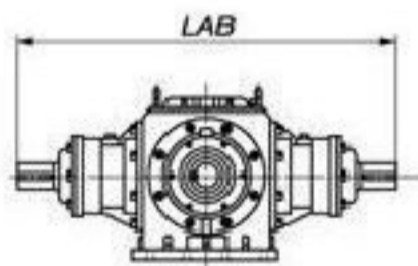
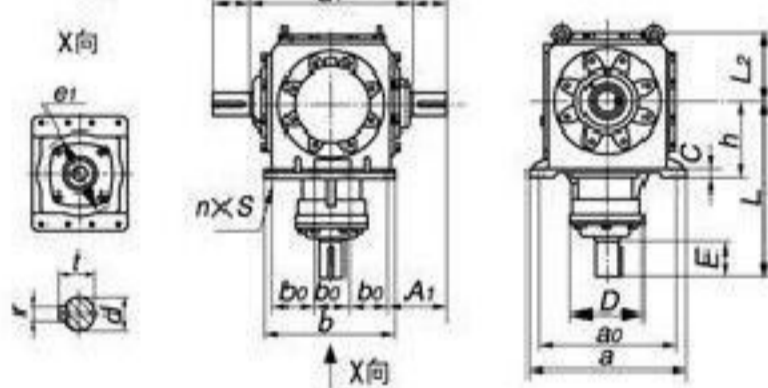
1-UD(O)



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)X深 | 94X3 | 155X5 | 190X5 | 220X5 | 250X5 | 305X5 | 370X5 | 420X7 | 360X10 | 430X10 |
| 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 | 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 | |

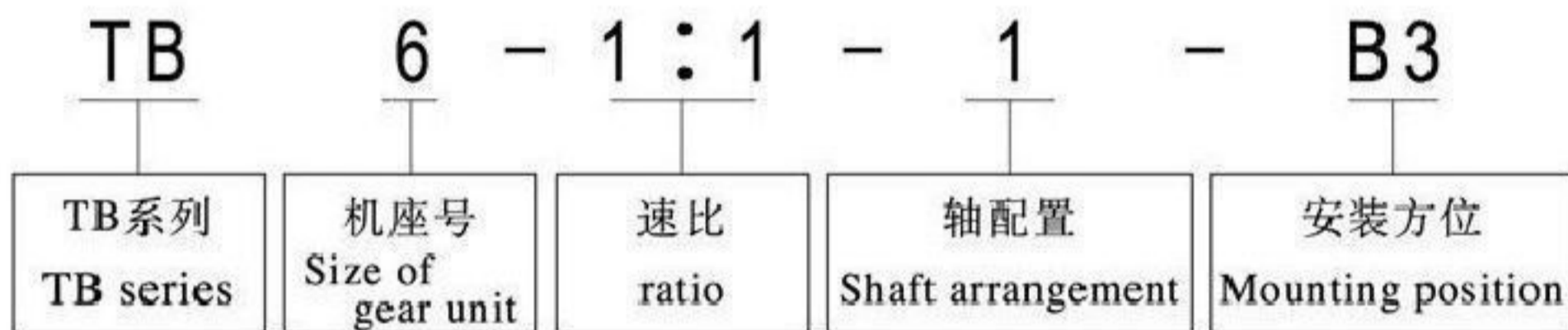
TB系列螺旋锥齿轮转向箱概述：

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:

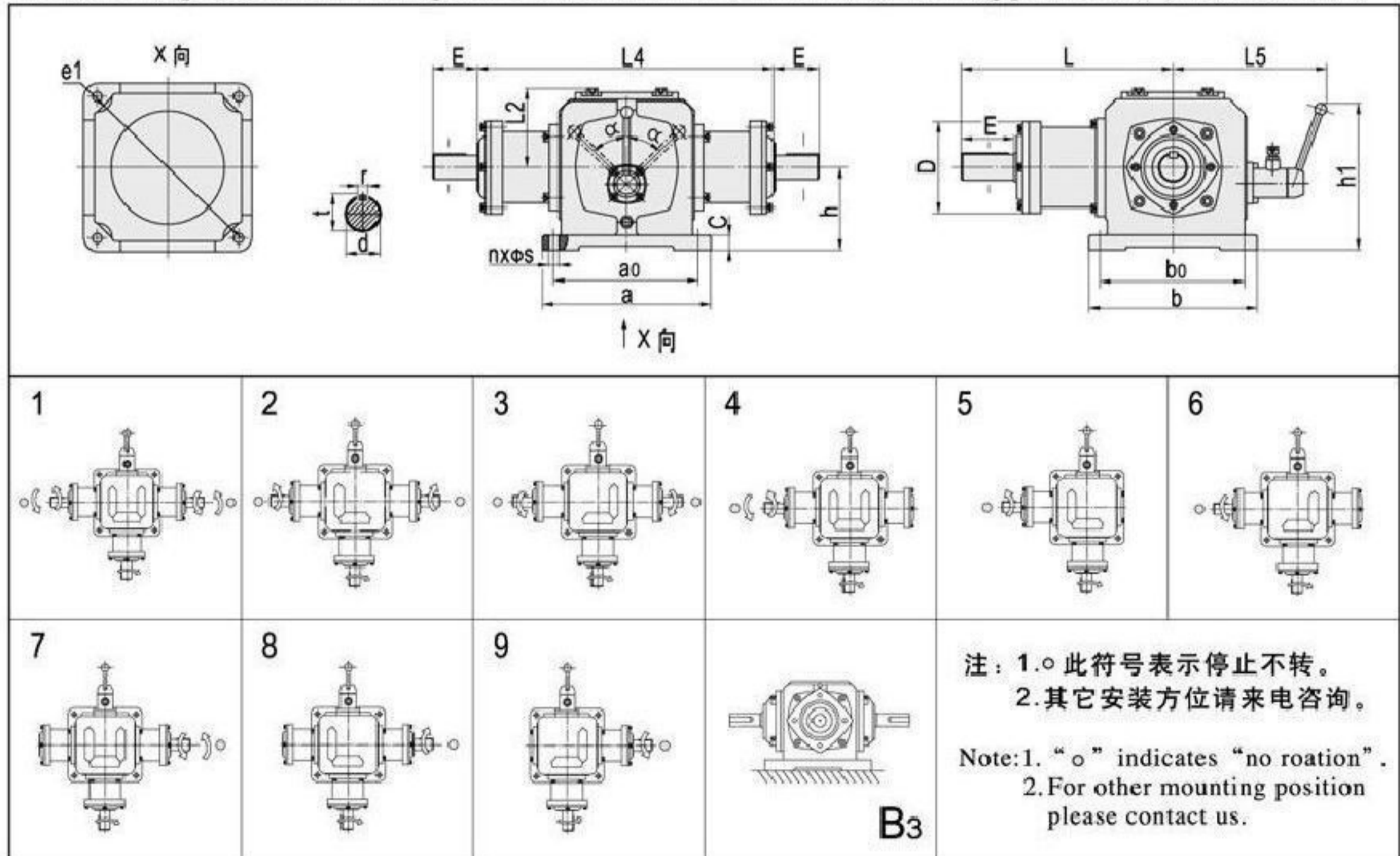
TB series are derivated from T series with interrupting part, transversal part, clutch, to realize the following functions:

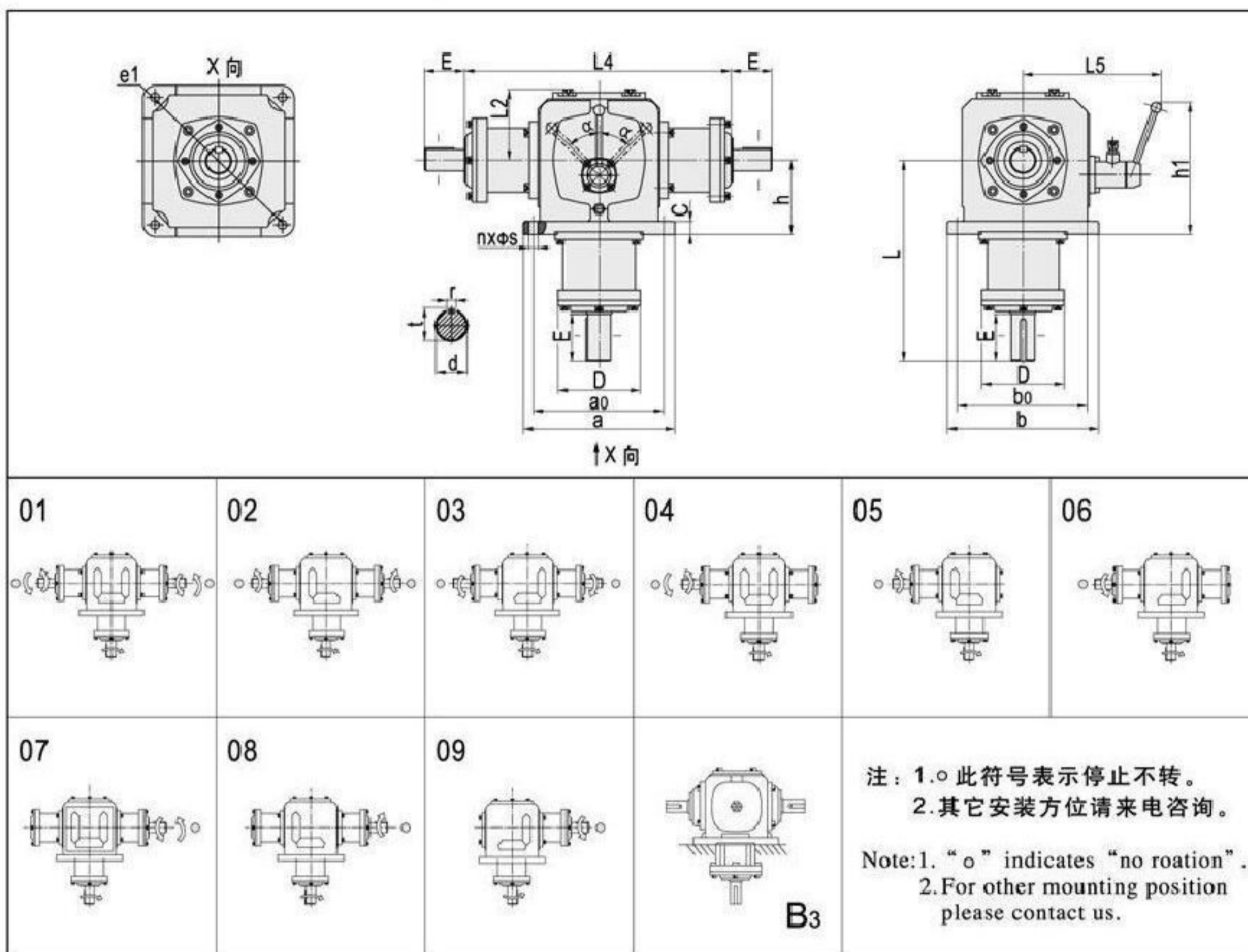
- 1、 Input rotation direction keep no change, output roation direction can be opposite, same or no rotation.
- 2、 Single-shaft-put shaft, double output shafts. In case of double out-put shafts, one shaft rotate, the other can stop; two output shafts can stop rotating or rotate together; and the rotative 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 |
| a0 | 152 | 174 | 195 | 240 | 290 | 330 |
| b | 190 | 210 | 235 | 285 | 340 | 390 |
| b0 | 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 |
| α | 45° | 45° | 40° | 40° | 42° | 42° |