



NMRV گپی بکس



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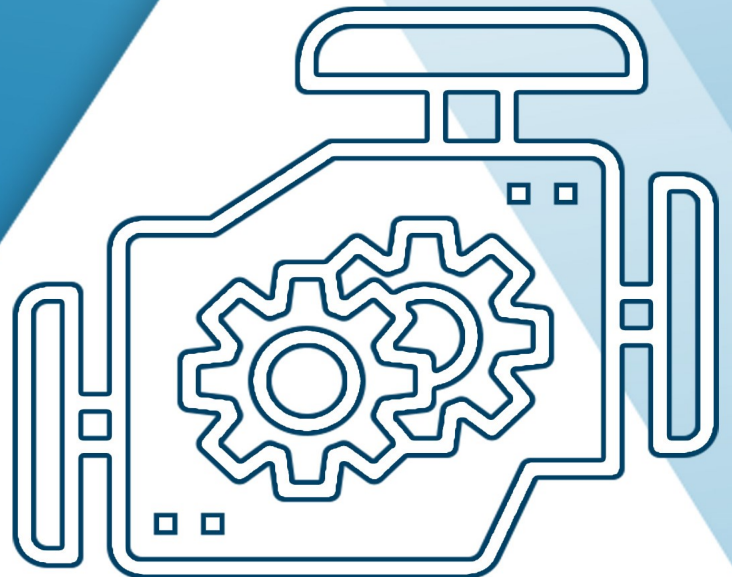


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Catalog 2021



GEARBOX

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گیربکس‌های چینی نوع NMRV

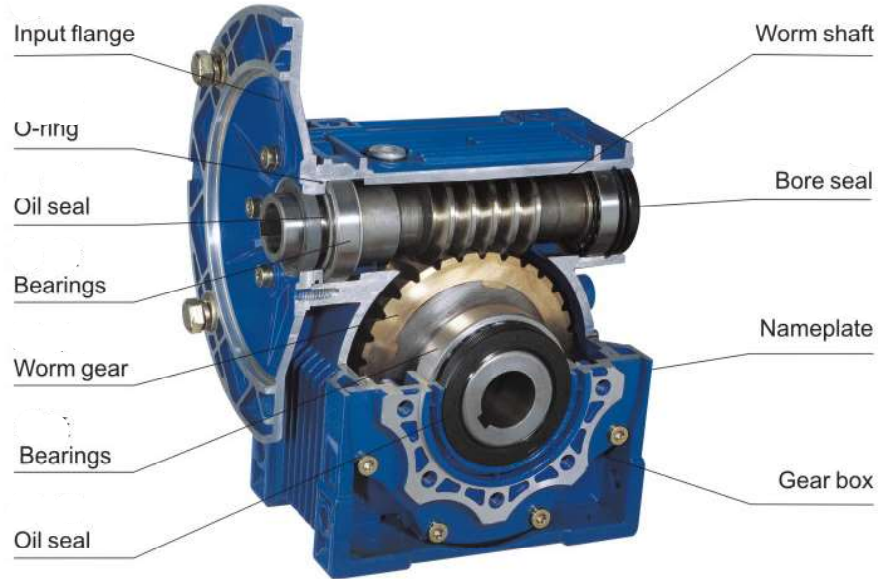


Gearbox

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1. Products Structure



2. Model Notes

2.1 Model and Structure Table

| | | | | | | | | | |
|----------|------------|---|----------|------------|------------|--------------------------|----------|-----------|-------------|
| J | RST | | D | 110 | 100 | B₈/AS1 | U | AE | 90B5 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

| | | | | |
|---|---|---|--|--|
| <p>1</p> <p>Brand code J-JIE</p> | <p>2</p> <p>Product Code RST-universal installation worm gear reducer</p> | <p>3</p> <p>Unit Structure Non-code-basic E-double</p> | <p>4</p> <p>Connector of input shaft Non-code-single input shaft B-Double shaft input DB-Shaft input with motor flange input D-with motor flange</p> | <p>5</p> <p>Products Specifications The center distance of 110 expresses single step specifications. Double step specifications is expressed by the center distance of two pairs of worm gear 63/130</p> |
| <p>6</p> <p>100 Ratio 100</p> | <p>7</p> <p>Mounting Positions One step B3.B6.B7.B8.V5.V6. Double step AS1.AS2.BS1.BS2.VS1.VS2.PS1.PS2. 48 types in whole, selected according to this manual.</p> | <p>8</p> <p>Output Flange Selecting it according to directions of input shaft & output flange figure in this manual</p> | <p>9</p> <p>Accessories A-Single output shaft B-Double output shaft C-Base plate D-Protective cover E-Torque Arm</p> | <p>10</p> <p>90 - specifications of motor B5, B14-the structure of motor flange No code - input isn't flange</p> |

Note: 1.If you need motor, please note “with motor” and the model, power & poles of the motor.
2.Accessories are unassembled. You may assemble them according to your need.

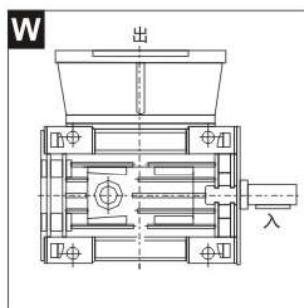
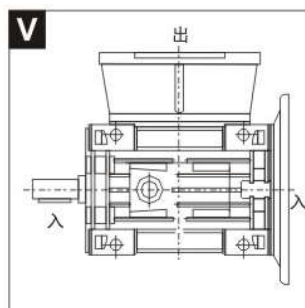
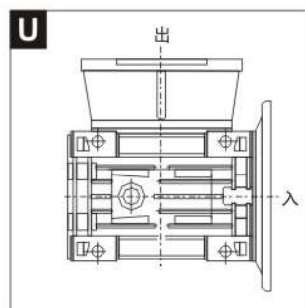
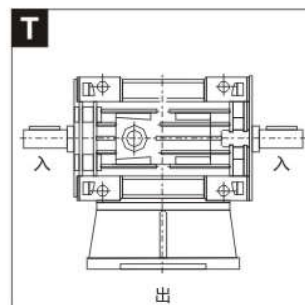
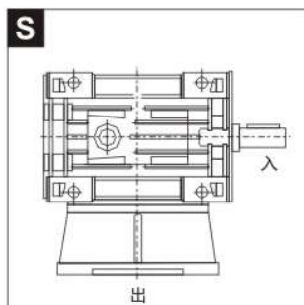
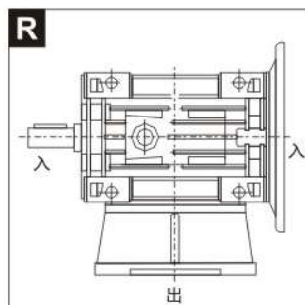
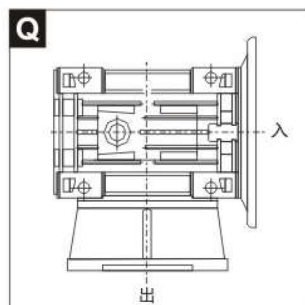


2.2 Comparative table of model

| | | | | | | | | | | |
|------------------|---------|---------|---------|---------|---------|---------|---------|----------|----------|----------|
| 万杰公司 JIE | JRSTD25 | JRSTD30 | JRSTD40 | JRSTD50 | JRSTD63 | JRSTD75 | JRSTD90 | JRSTD110 | JRSTD130 | JRSTD150 |
| | | JRST30 | JRST40 | JRST50 | JRST63 | JRST75 | JRST90 | JRST110 | JRST130 | JRST150 |
| 国外企业 Foreign | NMRV025 | NMRV030 | NMRV040 | NMRV050 | NMRV063 | NMRV075 | NMRV090 | NMRV110 | NMRV130 | NMRV150 |
| | | NRV030 | NRV040 | NRV050 | NRV063 | NRV075 | NRV090 | NRV110 | NRV130 | NRV150 |
| 国内企业 Domestic | NMRV025 | NMRV030 | NMRV040 | NMRV050 | NMRV063 | NMRV075 | NMRV090 | NMRV110 | NMRV130 | NMRV150 |
| | | NRV030 | NRV040 | NRV050 | NRV063 | NRV075 | NRV090 | NRV110 | NRV130 | NRV150 |
| | WJ25 | W J30 | W J40 | W J50 | W J63 | W J75 | W J90 | W J110 | W J130 | W J150 |
| | WWJK25 | WWJK30 | WWJK40 | WWJK50 | WWJK63 | WWJK75 | WWJK90 | WWJK110 | WWJK130 | WWJK150 |
| | | WWJZ30 | WWJZ40 | WWJZ50 | WWJZ63 | WWJZ75 | WWJZ90 | WWJZ110 | WWJZ130 | WWJZ150 |

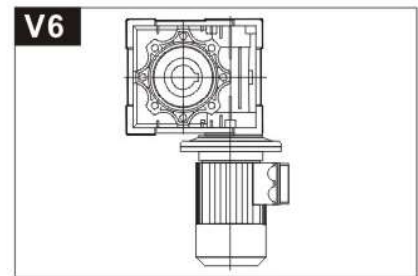
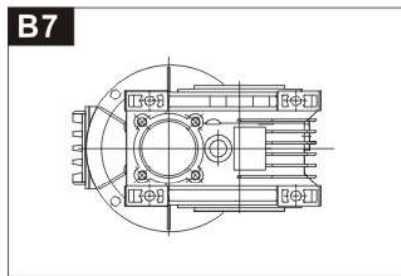
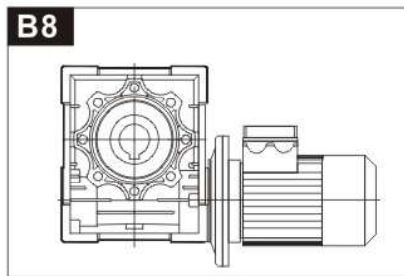
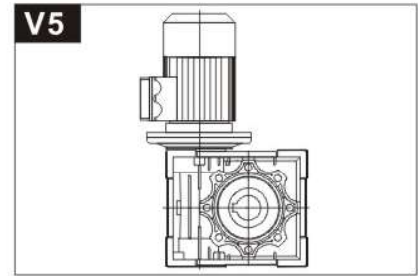
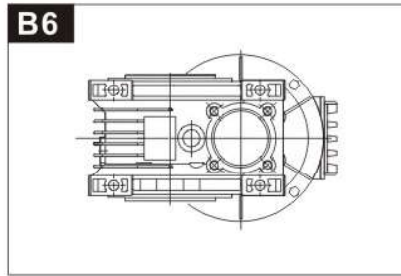
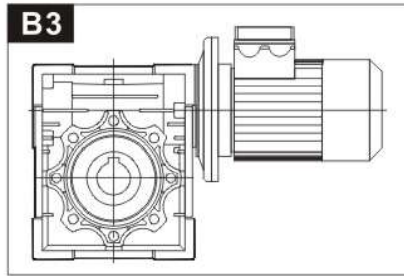


2.3. Directions of input shaft & output flange

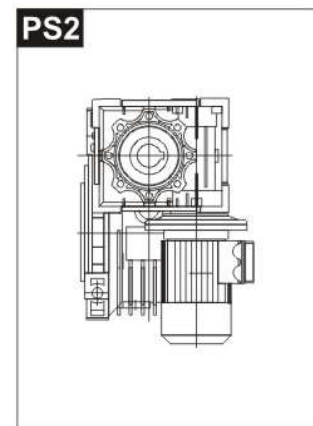
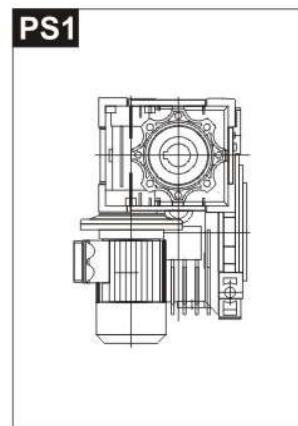
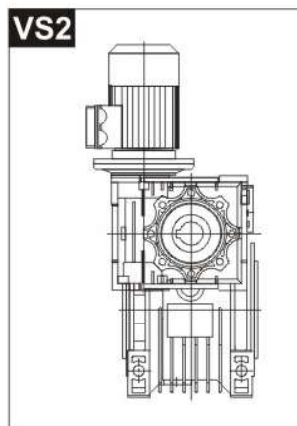
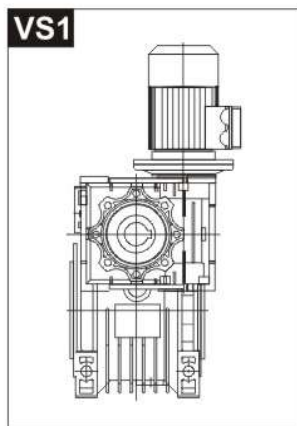
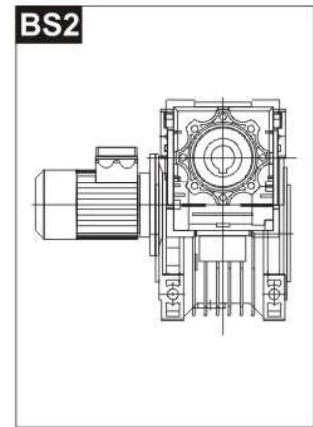
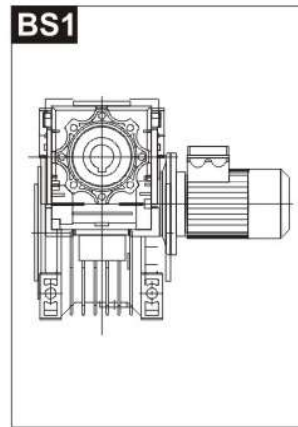
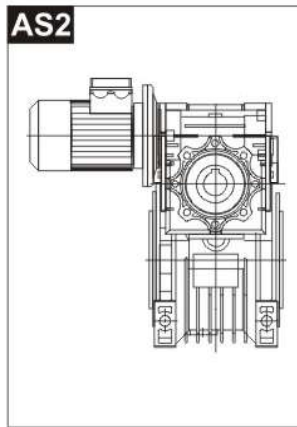
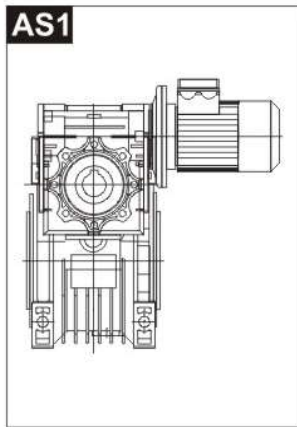




2.4. Single Step Mounting Positions



2.5. Double Step Mounting Positions

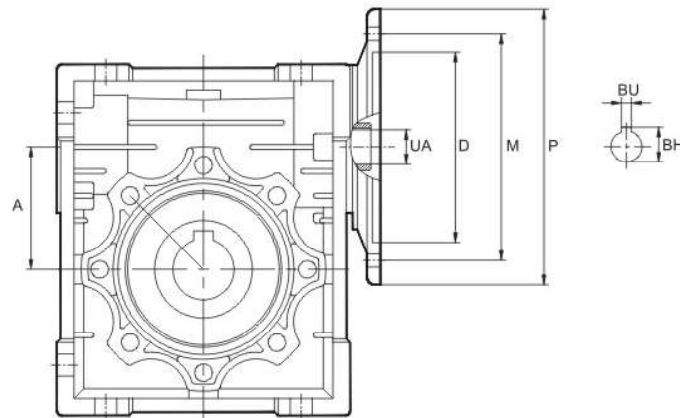




3. Mounting dimensions

3.1 Single Step Worm Gear Reducer

Motor Input Flange

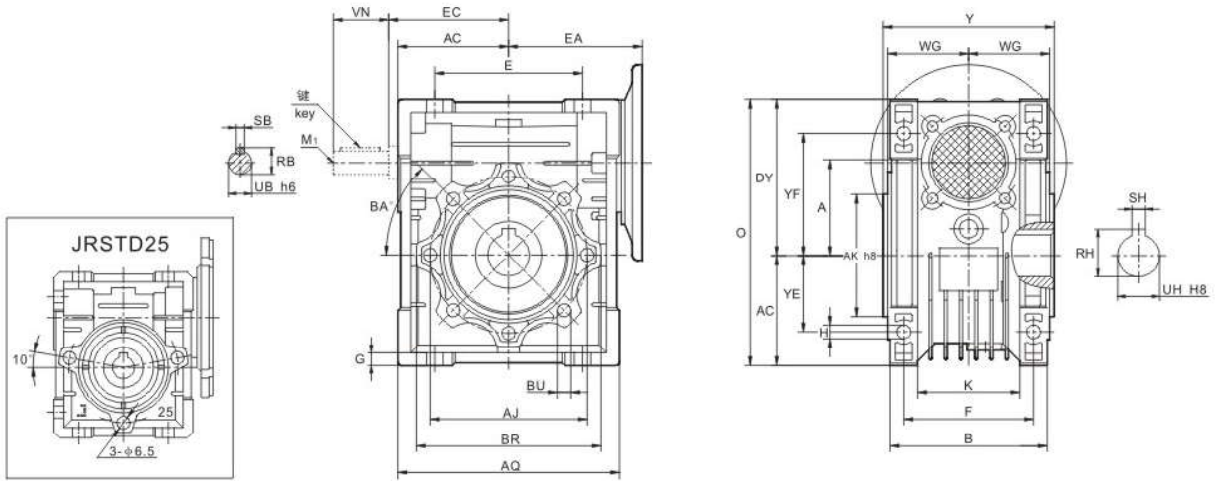


| 中心距 Center Distance A | 电机法兰 Motor Flange | | | | | | 输入轴孔直径UA The Hole Diameter of Shaft | | | | | | | | | | |
|--------------------------------|-------------------|-----|-----|-----|----|------|-------------------------------------|----|----|----|----|----|----|----|----|----|-----|
| | 法兰 规格 | D | M | P | BU | BH | 传动比 i Transmission Ratio | | | | | | | | | | |
| | | | | | | | 7.5 | 10 | 15 | 20 | 25 | 30 | 40 | 50 | 60 | 80 | 100 |
| 25 | 56B14 | 50 | 65 | 80 | 3 | 10.4 | 9 | 9 | 9 | 9 | - | 9 | 9 | 9 | 9 | - | - |
| | 63B5 | 95 | 115 | 140 | 4 | 12.8 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | - | - | - |
| 30 | 63B14 | 60 | 75 | 90 | 3 | 10.4 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | - |
| | 56B5 | 80 | 100 | 120 | 3 | 10.4 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | - |
| | 56B14 | 50 | 65 | 80 | 3 | 10.4 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | - |
| | 71B5 | 110 | 130 | 160 | 4 | 12.8 | - | - | - | 11 | 11 | 11 | 11 | 11 | 11 | 11 | - |
| 40 | 71B14 | 70 | 85 | 105 | 5 | 16.3 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | - | - | - | - |
| | 63B5 | 95 | 115 | 140 | 4 | 12.8 | - | - | - | 11 | 11 | 11 | 11 | 11 | 11 | 11 | - |
| | 63B14 | 60 | 75 | 90 | 4 | 12.8 | - | - | - | 11 | 11 | 11 | 11 | 11 | 11 | 11 | - |
| | 56B5 | 80 | 100 | 120 | 3 | 10.4 | - | - | - | - | - | - | - | 9 | 9 | 9 | 9 |
| | 80B5 | 130 | 165 | 200 | 6 | 21.8 | 19 | 19 | 19 | 19 | 19 | 19 | - | - | - | - | - |
| | 80B14 | 80 | 100 | 120 | 6 | 21.8 | 19 | 19 | 19 | 19 | 19 | 19 | - | - | - | - | - |
| 50 | 71B5 | 110 | 130 | 160 | 5 | 16.3 | - | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | - |
| | 71B14 | 70 | 85 | 105 | 5 | 16.3 | - | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | - |
| | 63B5 | 95 | 115 | 140 | 4 | 12.8 | - | - | - | - | - | - | 11 | 11 | 11 | 11 | 11 |
| | 80B5 | 130 | 165 | 200 | 6 | 21.8 | 19 | 19 | 19 | 19 | 19 | 19 | - | - | - | - | - |
| | 80B14 | 80 | 100 | 120 | 6 | 21.8 | 19 | 19 | 19 | 19 | 19 | 19 | - | - | - | - | - |
| | 71B5 | 110 | 130 | 160 | 5 | 16.3 | - | - | - | - | - | - | 14 | 14 | 14 | 14 | 14 |
| 63 | 71B14 | 70 | 85 | 105 | 5 | 16.3 | - | - | - | - | - | - | 14 | 14 | 14 | 14 | 14 |
| | 90B5 | 130 | 165 | 200 | 8 | 27.3 | 24 | 24 | 24 | 24 | 24 | 24 | - | - | - | - | - |
| | 90B14 | 95 | 115 | 140 | 8 | 27.3 | 24 | 24 | 24 | 24 | 24 | 24 | - | - | - | - | - |
| | 80B5 | 130 | 165 | 200 | 6 | 21.8 | - | - | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
| | 80B14 | 80 | 100 | 120 | 6 | 21.8 | - | - | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
| | 100/112B5 | 180 | 215 | 250 | 8 | 31.3 | 28 | 28 | 28 | 28 | 28 | 28 | - | - | - | - | - |
| 75 | 100/112B14 | 110 | 130 | 160 | 8 | 31.3 | 28 | 28 | 28 | 28 | 28 | 28 | - | - | - | - | - |
| | 90B5 | 130 | 165 | 200 | 8 | 27.3 | - | 24 | 24 | 24 | 24 | 24 | - | - | - | - | - |
| | 90B14 | 95 | 115 | 140 | 8 | 27.3 | - | 24 | 24 | 24 | 24 | 24 | - | - | - | - | - |
| | 80B5 | 130 | 165 | 200 | 6 | 21.8 | - | - | - | - | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
| | 80B14 | 80 | 100 | 120 | 6 | 21.8 | - | - | - | - | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
| | 100/112B5 | 180 | 215 | 250 | 8 | 31.3 | 28 | 28 | 28 | 28 | 28 | 28 | - | - | - | - | - |
| 90 | 100/112B14 | 110 | 130 | 160 | 8 | 31.3 | 28 | 28 | 28 | 28 | 28 | 28 | - | - | - | - | - |
| | 90B5 | 130 | 165 | 200 | 8 | 27.3 | - | - | - | 24 | 24 | 24 | 24 | 24 | 24 | - | - |
| | 90B14 | 95 | 115 | 140 | 8 | 27.3 | - | - | - | 24 | 24 | 24 | 24 | 24 | 24 | - | - |
| | 80B5 | 130 | 165 | 200 | 6 | 21.8 | - | - | - | - | - | - | 19 | 19 | 19 | 19 | 19 |
| | 80B14 | 80 | 100 | 120 | 6 | 21.8 | - | - | - | - | - | - | 19 | 19 | 19 | 19 | 19 |
| | 132B5 | 230 | 265 | 300 | 10 | 41.1 | 38 | 38 | 38 | 38 | 38 | 38 | - | - | - | - | - |
| 110 | 100/112B5 | 180 | 215 | 250 | 8 | 31.3 | - | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | - | - |
| | 90B5 | 130 | 165 | 200 | 8 | 27.3 | - | - | - | - | - | - | 24 | 24 | 24 | 24 | 24 |
| | 132B5 | 230 | 265 | 300 | 10 | 41.1 | 38 | 38 | 38 | 38 | 38 | 38 | - | - | - | - | - |
| 130 | 100/112B5 | 180 | 215 | 250 | 8 | 31.3 | - | - | - | - | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| | 160B5 | 250 | 300 | 350 | 12 | 45.3 | 42 | 42 | 42 | 42 | 42 | - | - | - | - | - | - |
| 150 | 132B5 | 230 | 265 | 300 | 10 | 41.3 | - | - | - | 38 | 38 | 38 | 38 | 38 | 38 | - | - |
| | 100/112B5 | 180 | 215 | 250 | 8 | 31.3 | - | - | - | - | - | - | 28 | 28 | 28 | 28 | 28 |



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JRSTD(B) (JRSTD(B) Mounting Dimensions)



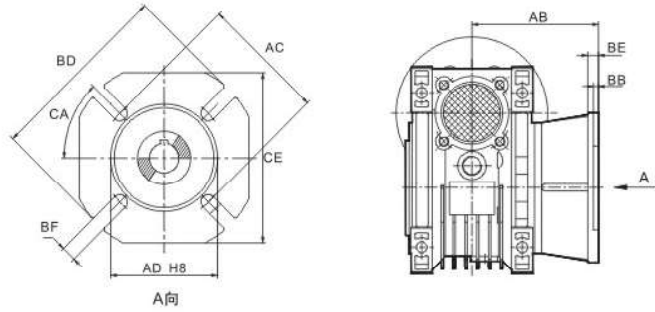
| | 25 | 30 | 40 | 50 | 63 | 75 | 90 | 110 | 130 | 150 |
|-----------|------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|
| A | 25 | 30 | 40 | 50 | 63 | 75 | 90 | 110 | 130 | 150 |
| AC | 35 | 40 | 50 | 60 | 72 | 86 | 103 | 127.5 | 147.5 | 170 |
| AJ | 55 | 65 | 75 | 85 | 95 | 115 | 130 | 165 | 215 | 215 |
| AK | 45 | 55 | 60 | 70 | 80 | 95 | 110 | 130 | 180 | 180 |
| AQ | 70 | 80 | 100 | 120 | 144 | 172 | 206 | 252 | 292 | 340 |
| B | 42 | 56 | 71 | 85 | 103 | 112 | 130 | 144 | 155 | 185 |
| BA | | 0° | 45° | 45° | 45° | 45° | 45° | 45° | 45° | 45° |
| BR | 65 | 75 | 87 | 100 | 110 | 140 | 160 | 200 | 250 | 250 |
| BU | | M6×11(n.4) | M6×10(n.4) | M8×14(n.4) | M8×14(n.8) | M8×14(n.8) | M10×18(n.8) | M10×18(n.8) | M12×21(n.8) | M12×21(n.8) |
| DY | 48 | 57 | 71.5 | 84 | 102 | 119 | 135 | 167.5 | 187.5 | 230 |
| E | 45 | 54 | 70 | 80 | 100 | 120 | 140 | 170 | 200 | 240 |
| EA | 45 | 55 | 71 | 80 | 95 | 112.5 | 130 | 160 | 180 | 210 |
| EC | - | 45 | 53 | 64 | 75 | 90 | 108 | 135 | 155 | 175 |
| F | 34 | 44 | 60 | 70 | 85 | 90 | 100 | 115 | 120 | 145 |
| G | 5 | 5.5 | 6.5 | 7 | 8 | 10 | 11 | 15 | 15 | 18 |
| H | 6 | 6.5 | 7 | 8.5 | 8.5 | 11 | 13 | 14 | 16 | 18 |
| K | 22 | 32 | 43 | 49 | 67 | 72 | 74 | - | - | - |
| M1 | - | - | - | M6 | M6 | M8 | M8 | M10 | M10 | M12 |
| O | 83 | 97 | 121.5 | 144 | 174 | 205 | 238 | 295 | 335 | 400 |
| RB | - | 10.2 | 12.5 | 16 | 21.5 | 27 | 27 | 31 | 33 | 38 |
| RH | 12.8 | 16.3 | 20.8 | 28.3 | 28.3 | 31.3 | 38.3 | 45.3 | 48.8 | 53.8 |
| SB | - | 3 | 4 | 5 | 6 | 8 | 8 | 8 | 8 | 10 |
| SH | 4 | 5 | 6 | 8 | 8 | 8 | 10 | 12 | 14 | 14 |
| UB | - | 9 | 11 | 14 | 19 | 24 | 24 | 28 | 30 | 35 |
| UH | 11 | 14 | 18 | 25 | 25 | 28 | 35 | 42 | 45 | 50 |
| VN | - | 20 | 23 | 30 | 40 | 50 | 50 | 60 | 80 | 80 |
| WG | 22.5 | 29 | 36.5 | 43.5 | 53 | 57 | 67 | 74 | 81 | 96 |
| Y | 50 | 63 | 78 | 92 | 112 | 120 | 140 | 155 | 170 | 200 |
| YE | 22 | 27 | 35 | 40 | 50 | 60 | 70 | 85 | 100 | 120 |
| YF | 35.5 | 44 | 55 | 64 | 80 | 93 | 102 | 125 | 140 | 180 |
| 重量 (kg) | 0.7 | 1.2 | 2.3 | 3.5 | 6.2 | 9 | 13 | 35 | 48 | 84 |

JRST.. Series Universal Position Worm Reducer



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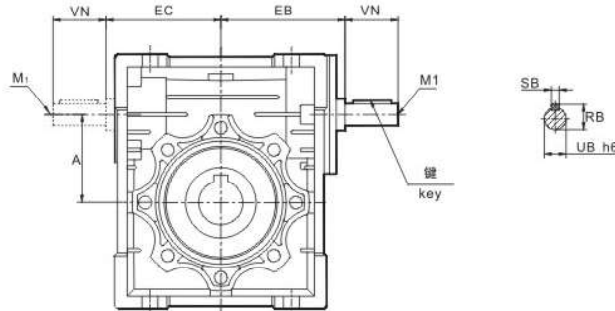
(Output Flange Mounting Dimensions)



| | 25 | 30 | 40 | 50 | 63 | 75 | 90 | 110 | 130 | 150 |
|-----------|----------|----------|--------|---------|---------|---------|---------|-----------|-----------|-----------|
| AB | 45 | 54.5 | 67 | 90 | 82 | 111 | 111 | 131 | 140 | 155 |
| AC | 55 | 68 | 80 | 85 | 150 | 165 | 175 | 230 | 255 | 255 |
| AD | 40 | 50 | 60 | 70 | 115 | 130 | 152 | 170 | 180 | 180 |
| BB | 3 | 4 | 4 | 5 | 6 | 6 | 6 | 6 | 6 | 7 |
| BD | 75 | 80 | 110 | 125 | 180 | 200 | 210 | 280 | 320 | 320 |
| BE | 6 | 6 | 7 | 9 | 10 | 13 | 13 | 15 | 15 | 15 |
| BF | 6.5(n.4) | 6.5(n.4) | 9(n.4) | 11(n.4) | 11(n.4) | 14(n.4) | 14(n.4) | φ 14(n.8) | φ 16(n.8) | φ 16(n.8) |
| CA | 45° | 45° | 45° | 45° | 45° | 45° | 45° | 45° | 22.5° | 22.5° |
| CE | 70 | 70 | 95 | 110 | 142 | 170 | 200 | 260 | 290 | 290 |

注：BF尺寸110~150为 φ 圆孔。

JRST(B) (JRST(B) Mounting Dimensions)



| | 30 | 40 | 50 | 63 | 75 | 90 | 110 | 130 | 150 |
|-----------|------|------|----|------|-----|-----|-----|-----|-----|
| A | 30 | 40 | 50 | 63 | 75 | 90 | 110 | 130 | 150 |
| EB | 50 | 61 | 74 | 90 | 105 | 125 | 142 | 162 | 195 |
| EC | 45 | 53 | 64 | 75 | 90 | 108 | 135 | 155 | 175 |
| M1 | - | - | M6 | M6 | M8 | M8 | M10 | M10 | M12 |
| RB | 10.2 | 12.5 | 16 | 21.5 | 27 | 27 | 31 | 33 | 38 |
| SB | 3 | 4 | 5 | 6 | 8 | 8 | 8 | 8 | 10 |
| UB | 9 | 11 | 14 | 19 | 24 | 24 | 28 | 30 | 35 |
| VN | 20 | 23 | 30 | 40 | 50 | 50 | 60 | 80 | 80 |

输入轴平键

| | | | | | | | | | |
|----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 规格 | 3×3 | 4×4 | 5×5 | 6×6 | 8×7 | 8×7 | 8×7 | 8×7 | 10×8 |
| 长度 | 15 | 20 | 25 | 35 | 45 | 45 | 55 | 70 | 70 |

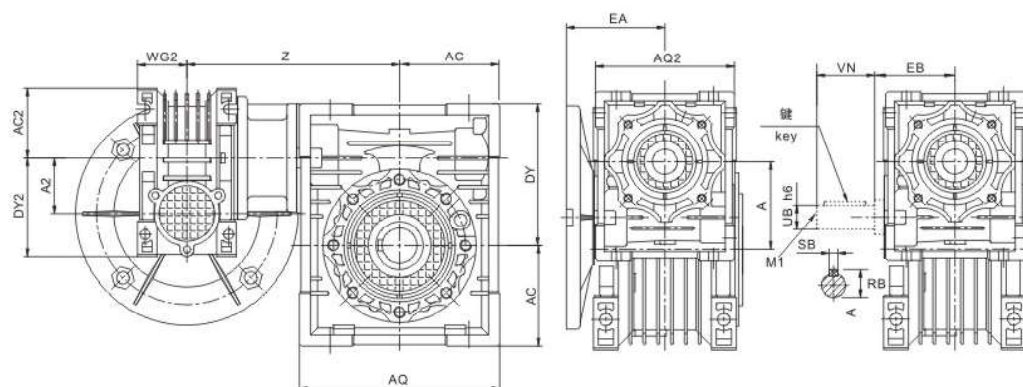


JRST... 系列多置式蜗杆减速机
Series Universal Position Worm Reducer



3.2 Double Step Worm Gear Reducer

JRSTE(D) (JRSTE(D) Mounting Dimensions)

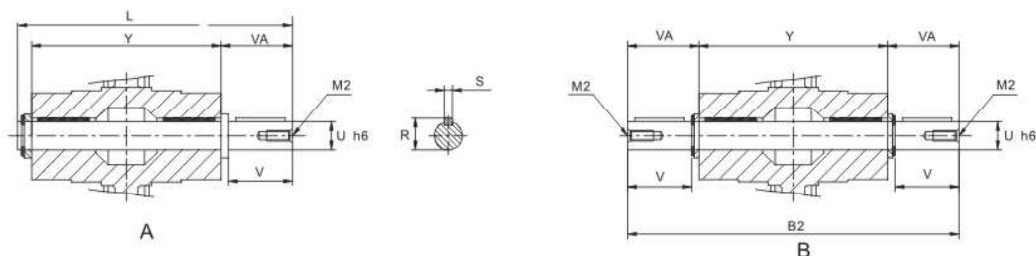


| | 25/30 | 25/40 | 30/40 | 30/50 | 30/63 | 40/75 | 40/90 | 50/110 | 63/130 | 63/150 |
|------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| A | 30 | 40 | 40 | 50 | 63 | 75 | 90 | 110 | 130 | 150 |
| A2 | 25 | 25 | 30 | 30 | 30 | 40 | 40 | 50 | 63 | 63 |
| AC | 40 | 50 | 50 | 60 | 72 | 86 | 103 | 127.5 | 147.5 | 170 |
| AC2 | 35 | 35 | 40 | 40 | 40 | 50 | 50 | 60 | 72 | 72 |
| AQ | 80 | 100 | 100 | 120 | 144 | 172 | 206 | 252.5 | 292.5 | 340 |
| AQ2 | 70 | 70 | 80 | 80 | 80 | 100 | 100 | 120 | 144 | 144 |
| DY | 57 | 71.5 | 71.5 | 84 | 102 | 119 | 135 | 167.5 | 187.5 | 230 |
| DY2 | 48 | 48 | 57 | 57 | 57 | 71 | 71 | 84 | 102 | 102 |
| EA | 45 | 45 | 55 | 55 | 55 | 71 | 71 | 80 | 95 | 95 |
| EB | - | - | 50 | 50 | 50 | 61 | 61 | 74 | 90 | 90 |
| M1 | - | - | - | - | - | - | - | M6 | M6 | M6 |
| RB | - | - | 10.2 | 10.2 | 10.2 | 12.5 | 12.5 | 16 | 21.5 | 21.5 |
| SB | - | - | 3 | 3 | 3 | 4 | 4 | 5 | 6 | 6 |
| UB | - | - | 9 | 9 | 9 | 11 | 11 | 14 | 19 | 19 |
| VN | - | - | 20 | 20 | 20 | 23 | 23 | 30 | 40 | 40 |
| WG2 | 22.5 | 22.5 | 29 | 29 | 29 | 36.5 | 36.5 | 43.5 | 53 | 53 |
| Z | 100 | 115 | 122 | 132 | 145 | 167.5 | 184.5 | 226 | 245 | 275 |
| 输入轴平键 | | | | | | | | | | |
| 规格 | - | - | 3×3 | 3×3 | 3×3 | 4×4 | 4×4 | 5×5 | 6×6 | 6×6 |
| 长度 | - | - | 15 | 15 | 15 | 20 | 20 | 25 | 35 | 35 |



3.3 (Accessories)

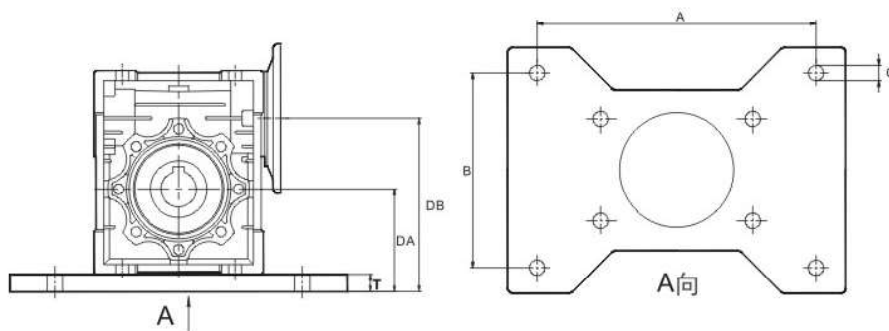
Single & Double Output Shaft



| | 25 | 30 | 40 | 50 | 63 | 75 | 90 | 110 | 130 | 150 |
|-----------|------|------|------|------|------|------|------|------|------|------|
| B2 | 101 | 128 | 164 | 199 | 219 | 247 | 308 | 324 | 340 | 374 |
| L | 81 | 102 | 128 | 153 | 173 | 192 | 234 | 249 | 265 | 297 |
| M2 | - | M6 | M6 | M10 | M10 | M10 | M12 | M16 | M16 | M16 |
| R | 12.5 | 16 | 20.5 | 28 | 28 | 31 | 38 | 45 | 48.5 | 53.5 |
| S | 4 | 5 | 6 | 8 | 8 | 8 | 10 | 12 | 14 | 14 |
| U | 11 | 14 | 18 | 25 | 25 | 28 | 35 | 42 | 45 | 50 |
| V | 23 | 30 | 40 | 50 | 50 | 60 | 80 | 80 | 80 | 82 |
| VA | 25.5 | 32.5 | 43 | 53.5 | 53.5 | 63.5 | 84.5 | 84.5 | 85 | 87 |
| Y | 50 | 63 | 78 | 92 | 112 | 120 | 140 | 155 | 170 | 200 |



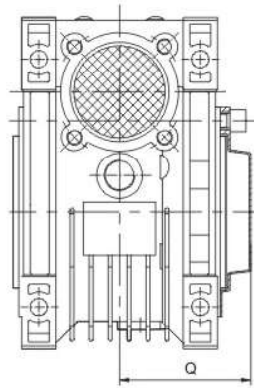
(C) Base plate



| | 30 | 40-A | 40-B | 50 | 63-A | 63-B | 75 | 90 |
|-----------|-----|------|------|------|------|------|-------|-------|
| A | 111 | 111 | 146 | 162 | 179 | 203 | 214 | 241 |
| B | 84 | 84 | 114 | 119 | 124 | 133 | 149 | 156 |
| C | 8.5 | 8.5 | 10.5 | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 |
| DA | 57 | 67 | 70 | 76 | 89 | 93 | 101.5 | 117.5 |
| DB | 87 | 107 | 110 | 126 | 152 | 156 | 176.5 | 207.5 |
| T | 17 | 17 | 20 | 16 | 17 | 21 | 15.5 | 14.5 |

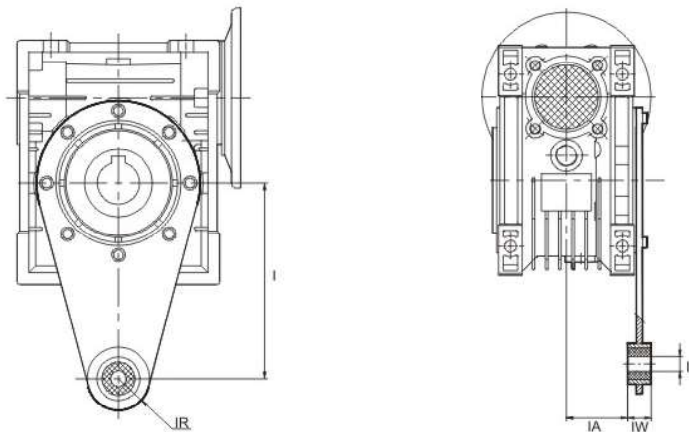


(D) Protective Cover



| | 30 | 40 | 50 | 63 | 75 | 90 | 110 | 130 | 150 |
|---|----|----|----|----|----|----|-----|-----|-----|
| Q | 42 | 50 | 58 | 69 | 74 | 86 | 94 | 102 | 117 |

(E) Torque Arm



| | 25 | 30 | 40 | 50 | 63 | 75 | 90 | 110 | 130 | 150 |
|----|------|----|------|------|-----|------|------|-----|-----|-----|
| I | 70 | 85 | 100 | 100 | 150 | 200 | 200 | 250 | 250 | 250 |
| IA | 17.5 | 24 | 31.5 | 38.5 | 49 | 47.5 | 57.5 | 62 | 69 | 84 |
| IL | 8 | 8 | 10 | 10 | 10 | 20 | 20 | 25 | 25 | 25 |
| IR | 15 | 15 | 18 | 18 | 18 | 30 | 30 | 35 | 35 | 35 |
| IW | 14 | 14 | 14 | 14 | 14 | 25 | 25 | 30 | 30 | 30 |



4. Methods for model chosen

4.1 Please understand the following at first in order to select the model of JRST Worm gear speed reducer properly:

- Load condition.
- Speed scope or ratio in application.
- Working condition and environment.
- Installation space.

4.2 Define working condition Coefficient K1 and revise coefficient K2.

- Ensure machinery load types A, B, C according to table 1
- Get the working condition coefficient K1 from diagram 1 according to turning time (hour/day) and start frequency (times/hour)
- Inspect working condition and select coefficient K2 from table 2.

Table 1 Machinery Load classification selection

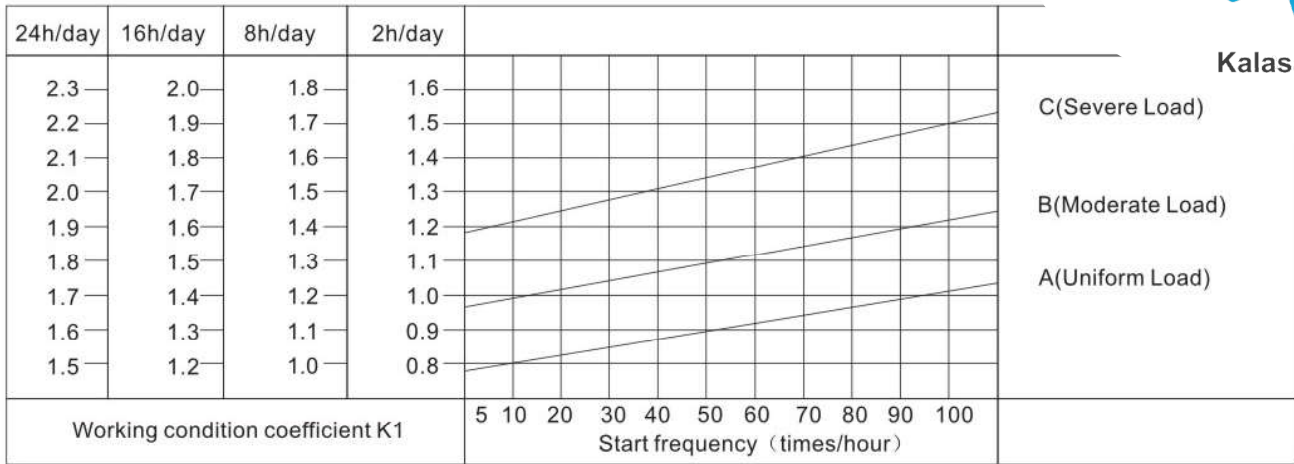
| Using situation | Example | Load type |
|-----------------|--------------------------------|------------------|
| Uniform load | Convey band(uniform conveying) | A(Uniform load) |
| Moderate Load | Speed changed conveying | B(Moderate load) |
| Severe Load | Compressor, pulverizer, etc. | C(Severe load) |

Table 2 Working condition coefficient K2

| Ambient temperature | Working condition coefficient K2 |
|---------------------|----------------------------------|
| -10℃~30℃ | 1 |
| 30℃~40℃ | 1.1~1.2 |



Diagram 1 working Condition coefficient K1



4.3 Reducer selected

- At first it is better to make sure the value of input machinery load T (torque) and then you can get the output torque through T multiply with work situation coefficient K1 and work situation revise coefficient K2. The required model can be gained by the above and connecting ratio or output speed.
- You can also select the reducer as followings: calculate output torque according to known input power and then select the reducer in accordance with output torque and rotate speed.
- Our standard reducers all have right-hand helical tooth, deciding the rotating direction of input shaft and output shaft according to the right-hand criterion.



4.4 Examples for model chosen

EX1 Common convey band (uniform load)

Torque: 19N·m Turning time: 8hours/day
 Speed: About 55r/min Start frequency: 10times/hour
 Ratio: 1/25 Environment temperature: indoor 25°C Connect with motor directly

- Load classification: Uniform load, choose A. Select load classification according to table 1.
- As per cross point of 10 times/hour frequency on line A in diagram 1, get coefficient K1 value is 1 that turning time is 8 hours/day.
- Get the coefficient K2 according to table 2.
- So the torque value is 19N · m.

Choose model: JRSTD30-1/25

Input power is 0.18KW, output speed is 56r/min, output torque is 21N·m

Check computation

You can get the actual output torque through the nominal output torque 21N·m multiply with the coefficient fs 1, so the actual output torque is 21 N·m > 19N·m. The selected model is suitable for use.

EX2 Covey band (moderate load)

Torque: 65N·m Turning time: 16 hours/day
 Speed: About 21r/min Start frequency: 100 times/hour
 Ratio: 1/60 Environment temperature: indoor 35°C Connect with motor directly

- As per load classification table 1 : moderate load, choose B.
- As per cross point of 100 times/hours frequency on line B in diagram 1, get coefficient K1 valer is 1.68 that turni -ng time is 16 hours/day.
- Get the coefficient K2 1.15 according to table 2.
- So the torque value is 65N · m. You can select the model that torque value is the closest to 123 N · m.

Choose model: JRSTD63-1/60

Input power is 0.55 KW, output speed is 23.3r/min, output torque is 140N·m

Check computation

You can get the actual output torque through the nominal output torque 140N·m mutiply with the coefficient fs 0.9, so the actual output is 126N·m > 123N·m. The selected model is suitable for use.



5. Parameter Selections

5.1 Single step reducer (flange input,input speed is 1400r/min)/(matched with 4 poles motor)

| 输出转速 Output speed r/min | 输出转矩 Output torque N·m | 传动比 Transmission ratio i | 输出轴径 向力 Output radial force kN | 使用 系数 fs | 机型代号 Model code |
|----------------------------------|---------------------------------|-----------------------------------|--|----------------|-----------------------|
| 0.06kW | | | | | |
| 186.7 | 2.6 | 7.5 | 0.5 | 4.2 | JRSTD25 |
| 140 | 3.4 | 10 | 0.55 | 3.5 | |
| 93.3 | 4.9 | 15 | 0.63 | 2.5 | |
| 70 | 6.1 | 20 | 0.69 | 2.0 | |
| 46.7 | 8.2 | 30 | 0.79 | 1.6 | |
| 35 | 10 | 40 | 0.87 | 1.3 | |
| 28 | 12 | 50 | 0.94 | 0.9 | |
| 23.3 | 14 | 60 | 1 | 0.7 | |
| 0.09kW | | | | | |
| 186.7 | 2.6 | 7.5 | 0.68 | 6.9 | JRSTD30 |
| 140 | 3.4 | 10 | 0.75 | 5.4 | |
| 93.3 | 4.7 | 15 | 0.86 | 3.8 | |
| 70 | 6 | 20 | 0.94 | 3.0 | |
| 56 | 7 | 25 | 1.02 | 3.0 | |
| 46.7 | 8 | 30 | 1.08 | 2.5 | |
| 35 | 9.7 | 40 | 1.19 | 1.9 | |
| 28 | 11 | 50 | 1.28 | 1.5 | |
| 23.3 | 13 | 60 | 1.36 | 1.3 | |
| 17.5 | 14 | 80 | 1.5 | 0.9 | |
| 0.12kW | | | | | |
| 186.7 | 3.9 | 7.5 | 0.5 | 2.8 | JRSTD25 |
| 140 | 5.1 | 10 | 0.55 | 2.4 | |
| 93.3 | 7.3 | 15 | 0.63 | 1.6 | |
| 70 | 9.2 | 20 | 0.69 | 1.3 | |
| 46.7 | 12 | 30 | 0.79 | 1.1 | |
| 35 | 15 | 40 | 0.87 | 0.9 | |
| 0.12kW | | | | | |
| 186.7 | 3.9 | 7.5 | 0.68 | 4.6 | JRSTD30 |
| 140 | 5 | 10 | 0.75 | 3.6 | |
| 93.3 | 7.1 | 15 | 0.86 | 2.5 | |
| 70 | 9 | 20 | 0.94 | 2.0 | |
| 56 | 10 | 25 | 1.02 | 2.0 | |
| 46.7 | 12 | 30 | 1.08 | 1.7 | |
| 35 | 14 | 40 | 1.19 | 1.2 | |
| 28 | 17 | 50 | 1.28 | 1.0 | |
| 23.3 | 19 | 60 | 1.36 | 0.9 | |
| 0.18kW | | | | | |
| 186.7 | 7.8 | 7.5 | 0.68 | 2.3 | JRSTD30 |
| 140 | 10 | 10 | 0.75 | 1.8 | |
| 93.3 | 14 | 15 | 0.86 | 1.3 | |
| 70 | 18 | 20 | 0.94 | 1.0 | |
| 56 | 21 | 25 | 1.02 | 1.0 | |
| 46.7 | 24 | 30 | 1.08 | 0.8 | |
| 0.25kW | | | | | |
| 186.7 | 11 | 7.5 | 1.31 | 3.6 | JRSTD40 |
| 140 | 14 | 10 | 1.44 | 2.8 | |
| 93.3 | 21 | 15 | 1.65 | 1.9 | |
| 70 | 27 | 20 | 1.82 | 1.5 | |
| 0.12kW | | | | | |
| 186.7 | 5.2 | 7.5 | 0.68 | 3.4 | JRSTD30 |





| 输出转速 Output speed r/min | 输出转矩 Output torque N·m | 传动比 Transmission ratio i | 输出轴径 向力 Output radial force kN | 使用系数 fs | 机型代号 Model code |
|-------------------------------|------------------------------|--------------------------------|---|------------|--------------------|
| 0.25kW | | | | | |
| 56 | 32 | 25 | 1.96 | 1.2 | JRSTD40 |
| 46.7 | 36 | 30 | 2.08 | 1.3 | |
| 35 | 44 | 40 | 2.29 | 0.9 | |
| 28 | 37 | 50 | 2.47 | 0.8 | |
| 70 | 26 | 20 | 2.5 | 2.7 | JRSTD50 |
| 56 | 32 | 25 | 2.69 | 2.2 | |
| 46.7 | 37 | 30 | 2.86 | 2.3 | |
| 35 | 46 | 40 | 3.15 | 1.7 | |
| 28 | 54 | 50 | 3.39 | 1.4 | |
| 23.3 | 60 | 60 | 3.61 | 1.1 | |
| 17.5 | 72 | 80 | 3.97 | 0.9 | |
| 28 | 56 | 50 | 4.44 | 2.4 | JRSTD63 |
| 23.3 | 63 | 60 | 4.71 | 2.0 | |
| 17.5 | 78 | 80 | 5.19 | 1.6 | |
| 14 | 87 | 100 | 5.59 | 1.4 | |
| 0.37kW | | | | | |
| 186.7 | 16 | 7.5 | 1.31 | 2.4 | JRSTD40 |
| 140 | 21 | 10 | 1.44 | 1.9 | |
| 93.3 | 31 | 15 | 1.65 | 1.3 | |
| 70 | 39 | 20 | 1.82 | 1.0 | |
| 56 | 47 | 25 | 1.96 | 0.8 | |
| 46.7 | 53 | 30 | 2.08 | 0.8 | |
| 140 | 21 | 10 | 1.98 | 3.3 | JRSTD50 |
| 93.3 | 31 | 15 | 2.27 | 2.4 | |
| 70 | 40 | 20 | 2.5 | 1.8 | |
| 56 | 48 | 25 | 2.69 | 1.5 | |
| 46.7 | 55 | 30 | 2.86 | 1.5 | |
| 35 | 68 | 40 | 3.15 | 1.1 | |
| 28 | 80 | 50 | 3.39 | 0.9 | |
| 23.3 | 89 | 60 | 3.61 | 0.8 | |
| 35 | 70 | 40 | 4.12 | 2.1 | JRSTD63 |
| 28 | 83 | 50 | 4.44 | 1.6 | |
| 23.3 | 94 | 60 | 4.71 | 1.4 | |
| 17.5 | 115 | 80 | 5.19 | 1.1 | |
| 14 | 129 | 100 | 5.59 | 0.9 | |
| 0.55kW | | | | | |
| 186.7 | 25 | 7.5 | 1.8 | 2.9 | JRSTD50 |
| 140 | 32 | 10 | 1.98 | 2.2 | |
| 93.3 | 46 | 15 | 2.27 | 1.6 | |
| 70 | 59 | 20 | 2.5 | 1.2 | |
| 56 | 71 | 25 | 2.69 | 1.0 | |
| 46.7 | 81 | 30 | 2.86 | 1.0 | |
| 35 | 80 | 40 | 3.15 | 0.9 | |

| 输出转速 Output speed r/min | 输出转矩 Output torque N·m | 传动比 Transmission ratio i | 输出轴径 向力 Output radial force kN | 使用系数 fs | 机型代号 Model code |
|-------------------------------|------------------------------|--------------------------------|---|------------|--------------------|
| 0.55kW | | | | | |
| 70 | 60 | 20 | 3.27 | 2.2 | JRSTD63 |
| 56 | 73 | 25 | 3.52 | 1.8 | |
| 46.7 | 83 | 30 | 3.74 | 1.9 | |
| 35 | 105 | 40 | 4.12 | 1.4 | |
| 28 | 124 | 50 | 4.44 | 1.1 | |
| 23.3 | 140 | 60 | 4.71 | 0.9 | |
| 35 | 108 | 40 | 4.86 | 2.0 | JRSTD75 |
| 28 | 129 | 50 | 5.24 | 1.6 | |
| 23.3 | 146 | 60 | 5.56 | 1.4 | |
| 17.5 | 180 | 80 | 6.13 | 1.1 | |
| 14 | 206 | 100 | 6.6 | 0.9 | |
| 17.5 | 189 | 80 | 6.78 | 1.5 | JRSTD90 |
| 14 | 221 | 100 | 7.3 | 1.2 | |
| 0.75kW | | | | | |
| 186.7 | 34 | 7.5 | 1.8 | 2.1 | JRSTD50 |
| 140 | 44 | 10 | 1.98 | 1.6 | |
| 93.3 | 63 | 15 | 2.27 | 1.2 | |
| 70 | 81 | 20 | 2.5 | 0.9 | |
| 93.3 | 63 | 15 | 2.97 | 2.2 | JRSTD63 |
| 70 | 83 | 20 | 3.27 | 1.6 | |
| 56 | 100 | 25 | 3.52 | 1.3 | |
| 46.7 | 114 | 30 | 3.74 | 1.4 | |
| 35 | 143 | 40 | 4.12 | 1.0 | |
| 56 | 102 | 25 | 4.16 | 2.0 | JRSTD75 |
| 46.7 | 117 | 30 | 4.42 | 2.0 | |
| 35 | 147 | 40 | 4.86 | 1.5 | |
| 28 | 177 | 50 | 5.24 | 1.2 | |
| 23.3 | 200 | 60 | 5.56 | 1.0 | |
| 28 | 184 | 50 | 5.79 | 1.8 | JRSTD90 |
| 23.3 | 212 | 60 | 6.16 | 1.5 | |
| 17.5 | 258 | 80 | 6.78 | 1.1 | |
| 14 | 302 | 100 | 7.3 | 0.9 | |
| 1.1kW | | | | | |
| 186.7 | 49 | 7.5 | 2.35 | 2.6 | JRSTD63 |
| 140 | 65 | 10 | 2.59 | 2.0 | |
| 93.3 | 93 | 15 | 2.97 | 1.5 | |



| 输出转速 Output speed r/min | 输出转矩 Output torque N · m | 传动比 Transmission ratio i | 输出轴径 向力 Output radial force kN | 使用系数 fs | 机型代号 Model code |
|-------------------------------|--------------------------------|--------------------------------|---|------------|--------------------|
| 1.1kW | | | | | |
| 70 | 122 | 20 | 3.27 | 1.1 | JRSTD63 |
| 56 | 146 | 25 | 3.52 | 0.9 | |
| 46.7 | 167 | 30 | 3.74 | 1.0 | |
| 35 | 165 | 40 | 3.59 | 0.9 | |
| JRSTD75 | | | | | |
| 93.3 | 95 | 15 | 3.5 | 2.1 | |
| 70 | 123 | 20 | 3.86 | 1.7 | |
| 56 | 150 | 25 | 4.16 | 1.3 | |
| 46.7 | 171 | 30 | 4.42 | 1.3 | |
| 35 | 216 | 40 | 4.86 | 1.0 | |
| 28 | 264 | 50 | 4.6 | 0.9 | |
| 23.3 | 223 | 60 | 4.89 | 0.8 | |
| JRSTD90 | | | | | |
| 35 | 225 | 40 | 5.38 | 1.6 | |
| 28 | 270 | 50 | 5.79 | 1.3 | |
| 23.3 | 311 | 60 | 6.16 | 1.0 | |
| 17.5 | 328 | 80 | 6.17 | 0.9 | |
| JRSTD110 | | | | | |
| 28 | 281 | 50 | 7.32 | 2.3 | |
| 23.3 | 324 | 60 | 7.78 | 1.9 | |
| 17.5 | 402 | 80 | 8.57 | 1.3 | |
| 14 | 473 | 100 | 9.23 | 1.0 | |
| 1.5kW | | | | | |
| JRSTD63 | | | | | |
| 186.7 | 67 | 7.5 | 2.35 | 1.9 | |
| 140 | 89 | 10 | 2.59 | 1.5 | |
| 93.3 | 127 | 15 | 2.97 | 1.1 | |
| 70 | 166 | 20 | 3.27 | 0.8 | |
| JRSTD75 | | | | | |
| 140 | 90 | 10 | 3.06 | 2.2 | |
| 93.3 | 130 | 15 | 3.5 | 1.5 | |
| 70 | 168 | 20 | 3.86 | 1.3 | |
| 56 | 205 | 25 | 4.16 | 1.0 | |
| 46.7 | 233 | 30 | 4.42 | 1.0 | |
| JRSTD90 | | | | | |
| 70 | 171 | 20 | 4.27 | 2.1 | |
| 56 | 210 | 25 | 4.6 | 1.6 | |
| 46.7 | 239 | 30 | 4.89 | 1.7 | |
| 35 | 307 | 40 | 5.38 | 1.2 | |
| 28 | 368 | 50 | 5.79 | 0.9 | |
| 23.3 | 424 | 60 | 6.16 | 0.8 | |
| JRSTD110 | | | | | |
| 35 | 319 | 40 | 6.8 | 2.2 | |
| 28 | 384 | 50 | 7.32 | 1.7 | |
| 23.3 | 442 | 60 | 7.78 | 1.4 | |
| 17.5 | 548 | 80 | 8.57 | 0.9 | |
| 2.2kW | | | | | |
| JRSTD75 | | | | | |
| 186.7 | 100 | 7.5 | 2.78 | 1.8 | |
| 140 | 132 | 10 | 3.06 | 1.5 | |
| 93.3 | 191 | 15 | 3.5 | 1.0 | |
| 70 | 240 | 20 | 3.38 | 0.9 | |
| 46.7 | 269 | 30 | 3.89 | 0.8 | |
| JRSTD90 | | | | | |
| 186.7 | 101 | 7.5 | 3.08 | 2.9 | |

| 输出转速 Output speed r/min | 输出转矩 Output torque N · m | 传动比 Transmission ratio i | 输出轴径 向力 Output radial force kN | 使用系数 fs | 机型代号 Model code |
|-------------------------------|--------------------------------|--------------------------------|---|------------|--------------------|
| 2.2kW | | | | | |
| 140 | 134 | 10 | 3.39 | 2.3 | JRSTD90 |
| 93.3 | 194 | 15 | 3.88 | 1.9 | |
| 70 | 252 | 20 | 4.27 | 1.4 | |
| 56 | 308 | 25 | 4.6 | 1.1 | |
| 46.7 | 351 | 30 | 4.89 | 1.2 | |
| 35 | 433 | 40 | 4.9 | 1.0 | |
| 28 | 393 | 50 | 5.28 | 0.9 | |
| JRSTD110 | | | | | |
| 70 | 255 | 20 | 5.39 | 2.5 | |
| 56 | 315 | 25 | 5.81 | 2.2 | |
| 46.7 | 356 | 30 | 6.18 | 2.0 | |
| 35 | 468 | 40 | 6.8 | 1.5 | |
| 28 | 563 | 50 | 7.32 | 1.2 | |
| 23.3 | 648 | 60 | 7.78 | 1.0 | |
| JRSTD130 | | | | | |
| 35 | 468 | 40 | 8.89 | 2.2 | |
| 28 | 563 | 50 | 9.58 | 1.7 | |
| 23.3 | 648 | 60 | 10.18 | 1.4 | |
| 17.5 | 816 | 80 | 11.21 | 1.0 | |
| 14 | 869 | 100 | 10.62 | 0.8 | |
| JRSTD150 | | | | | |
| 28 | 570 | 50 | 13.1 | 2.5 | |
| 23.3 | 657 | 60 | 13.92 | 1.9 | |
| 17.5 | 816 | 80 | 15.32 | 1.4 | |
| 14 | 960 | 100 | 16.5 | 1.0 | |
| 3kW | | | | | |
| JRSTD75 | | | | | |
| 186.7 | 136 | 7.5 | 2.78 | 1.4 | |
| 140 | 180 | 10 | 3.06 | 1.1 | |
| 93.3 | 261 | 15 | 3.5 | 0.8 | |
| JRSTD90 | | | | | |
| 186.7 | 138 | 7.5 | 3.08 | 2.1 | |
| 140 | 182 | 10 | 3.39 | 1.7 | |
| 93.3 | 264 | 15 | 3.88 | 1.4 | |
| 70 | 344 | 20 | 4.27 | 1.0 | |
| 56 | 420 | 25 | 4.6 | 0.8 | |
| 46.7 | 479 | 30 | 4.89 | 0.9 | |
| JRSTD110 | | | | | |
| 93.3 | 264 | 15 | 4.9 | 2.5 | |
| 70 | 348 | 20 | 5.39 | 1.9 | |
| 56 | 430 | 25 | 5.81 | 1.6 | |
| 46.7 | 485 | 30 | 6.18 | 1.5 | |
| 35 | 638 | 40 | 6.8 | 1.1 | |
| 28 | 767 | 50 | 7.32 | 0.9 | |
| JRSTD130 | | | | | |
| 56 | 429 | 25 | 7.6 | 2.2 | |
| 46.7 | 491 | 30 | 8.08 | 2.1 | |
| 35 | 638 | 40 | 8.89 | 1.6 | |
| 28 | 767 | 50 | 9.58 | 1.3 | |
| 23.3 | 884 | 60 | 10.18 | 1.0 | |
| 17.5 | 1113 | 80 | 11.21 | 0.8 | |





| 输出转速 Output speed r/min | 输出转矩 Output torque N · m | 传动比 Transmission ratio 1 | 输出轴径 向力 Output radial force kN | 使用系数 fs | 机型代号 Model code |
|-------------------------------|--------------------------------|--------------------------------|---|------------|--------------------|
| 3kW | | | | | |
| 28 | 777 | 50 | 13.1 | 1.8 | JRSTD150 |
| 23.3 | 896 | 60 | 13.92 | 1.4 | |
| 17.5 | 1113 | 80 | 15.32 | 1.0 | |
| 14 | 1310 | 100 | 16.5 | 0.8 | |
| 4kW | | | | | |
| 186.7 | 182 | 7.5 | 2.44 | 1.0 | JRSTD75 |
| 140 | 240 | 10 | 3.06 | 0.8 | |
| 186.7 | 184 | 7.5 | 3.08 | 1.6 | JRSTD90 |
| 140 | 243 | 10 | 3.39 | 1.3 | |
| 93.3 | 352 | 15 | 3.88 | 1.0 | |
| 70 | 458 | 20 | 4.27 | 0.8 | |
| 140 | 242 | 10 | 4.28 | 2.5 | JRSTD110 |
| 93.3 | 352 | 15 | 4.9 | 1.9 | |
| 70 | 464 | 20 | 5.39 | 1.4 | |
| 56 | 573 | 25 | 5.81 | 1.2 | |
| 46.7 | 647 | 30 | 6.18 | 1.1 | |
| 56 | 573 | 25 | 7.6 | 1.6 | JRSTD130 |
| 46.7 | 655 | 30 | 8.08 | 1.6 | |
| 35 | 851 | 40 | 8.89 | 1.2 | |
| 28 | 1023 | 50 | 9.58 | 1.0 | |
| 23.3 | 1179 | 60 | 10.18 | 0.8 | |
| 28 | 1036 | 50 | 13.1 | 1.4 | JRSTD150 |
| 23.3 | 1195 | 60 | 13.92 | 1.1 | |
| 17.5 | 1484 | 80 | 15.32 | 0.8 | |
| 5.5kW | | | | | |
| 186.7 | 253 | 7.5 | 3.89 | 2.2 | JRSTD110 |
| 140 | 334 | 10 | 4.28 | 1.8 | |
| 93.3 | 484 | 15 | 4.9 | 1.4 | |
| 70 | 638 | 20 | 5.39 | 1.0 | |
| 56 | 711 | 25 | 5.15 | 0.9 | |
| 140 | 333 | 10 | 5.6 | 2.5 | JRSTD130 |
| 93.3 | 490 | 15 | 6.41 | 1.9 | |
| 70 | 645 | 20 | 7.06 | 1.4 | |
| 56 | 788 | 25 | 7.6 | 1.2 | |
| 46.7 | 900 | 30 | 8.08 | 1.2 | |
| 35 | 1171 | 40 | 8.89 | 0.9 | |
| 28 | 1103 | 50 | 8.51 | 0.8 | |
| 70 | 645 | 20 | 9.65 | 2.0 | JRSTD150 |
| 56 | 788 | 25 | 10.4 | 1.5 | |
| 46.7 | 934 | 30 | 11.05 | 1.3 | |
| 35 | 1171 | 40 | 12.16 | 1.3 | |

| 输出转速 Output speed r/min | 输出转矩 Output torque N · m | 传动比 Transmission ratio 1 | 输出轴径 向力 Output radial force kN | 使用系数 fs | 机型代号 Model code |
|-------------------------------|--------------------------------|--------------------------------|---|------------|--------------------|
| 5.5kW | | | | | |
| 28 | 1426 | 50 | 13.1 | 1.0 | JRSTD150 |
| 23.3 | 1643 | 60 | 13.92 | 0.8 | |
| 7.5kW | | | | | |
| 186.7 | 345 | 7.5 | 3.89 | 1.6 | JRSTD110 |
| 140 | 455 | 10 | 4.28 | 1.3 | |
| 93.3 | 660 | 15 | 4.9 | 1.0 | |
| 186.7 | 349 | 7.5 | 5.09 | 2.1 | JRSTD130 |
| 140 | 455 | 10 | 5.6 | 1.8 | |
| 93.3 | 668 | 15 | 6.41 | 1.4 | |
| 70 | 880 | 20 | 7.06 | 1.0 | |
| 56 | 1074 | 25 | 7.6 | 0.9 | |
| 46.7 | 1228 | 30 | 8.08 | 0.8 | |
| 35 | 1596 | 40 | 8.89 | 0.7 | |
| 70 | 880 | 20 | 9.65 | 1.5 | JRSTD150 |
| 56 | 1074 | 25 | 10.4 | 1.1 | |
| 46.7 | 1274 | 30 | 11.05 | 0.9 | |
| 35 | 1596 | 40 | 12.16 | 1.0 | |
| 11kW | | | | | |
| 186.7 | 512 | 7.5 | 6.96 | 2.3 | JRSTD150 |
| 140 | 675 | 10 | 7.66 | 1.8 | |
| 93.3 | 990 | 15 | 8.77 | 1.3 | |
| 70 | 1291 | 20 | 9.65 | 1.0 | |
| 56 | 1576 | 25 | 10.4 | 0.8 | |
| 15kW | | | | | |
| 186.7 | 698 | 7.5 | 6.96 | 1.7 | JRSTD150 |
| 140 | 921 | 10 | 7.66 | 1.3 | |
| 93.3 | 1351 | 15 | 8.77 | 0.9 | |
| 70 | 1760 | 20 | 9.65 | 0.7 | |



5.2 Double step reducer (flange input, input speed is 1400r/min)/(matched with 4 poles motor)

| 输出转速 Output speed r/min | 输出转矩 Output torque N · m | 总传动比 General transmission ratio i | 高速级传动比 High speed transmission ratio i ₁ | 低速级传动比 Low speed transmission ratio i ₂ | 输出轴径 Output radial force kN | 使用系数 fs | 组合机 型规格 Combination model Size |
|-------------------------------|--------------------------------|---|---|--|-----------------------------------|------------|--------------------------------------|
| 0.06kW | | | | | | | |
| 14 | 25 | 100 | 10 | 10 | 1.62 | 1.3 | 25/30 |
| 9.3 | 32 | 150 | 10 | 15 | 1.83 | 0.9 | |
| 7.0 | 41 | 200 | 10 | 20 | 1.83 | 0.7 | |
| 5.6 | 44 | 250 | 10 | 25 | 1.83 | 0.8 | |
| 25/40 | | | | | | | |
| 4.7 | 59 | 300 | 10 | 30 | 3.49 | 1.2 | 25/40 |
| 3.5 | 71 | 400 | 10 | 40 | 3.49 | 0.9 | |
| 2.8 | 82 | 500 | 20 | 25 | 3.49 | 0.7 | |
| 2.3 | 101 | 600 | 20 | 30 | 3.49 | 0.6 | |
| 1.9 | 116 | 750 | 25 | 30 | 3.49 | 0.5 | |
| 1.6 | 143 | 900 | 30 | 30 | 3.49 | 0.5 | |
| 1.2 | 171 | 1200 | 30 | 40 | 3.49 | 0.4 | |
| 0.9 | 197 | 1500 | 50 | 30 | 3.49 | 0.3 | |
| 0.78 | 217 | 1800 | 60 | 30 | 3.49 | 0.3 | |
| 0.6 | 268 | 2400 | 60 | 40 | 3.49 | 0.2 | |
| 0.5 | 324 | 3000 | 60 | 50 | 3.49 | 0.2 | |
| 0.4 | 294 | 4000 | 50 | 80 | 3.49 | 0.1 | |
| 0.3 | 356 | 5000 | 50 | 100 | 3.49 | 0.1 | |
| 30/40 | | | | | | | |
| 4.7 | 57 | 300 | 10 | 30 | 3.49 | 1.3 | 30/40 |
| 3.5 | 70 | 400 | 10 | 40 | 3.49 | 0.9 | |
| 2.8 | 96 | 500 | 20 | 25 | 3.49 | 0.6 | |
| 2.3 | 104 | 600 | 20 | 30 | 3.49 | 0.7 | |
| 1.9 | 121 | 750 | 25 | 30 | 3.49 | 0.6 | |
| 1.6 | 139 | 900 | 30 | 30 | 3.49 | 0.5 | |
| 1.2 | 166 | 1200 | 30 | 40 | 3.49 | 0.4 | |
| 0.9 | 196 | 1500 | 50 | 30 | 3.49 | 0.4 | |
| 0.78 | 218 | 1800 | 60 | 30 | 3.49 | 0.3 | |
| 0.58 | 261 | 2400 | 60 | 40 | 3.49 | 0.2 | |
| 0.4 | 300 | 3200 | 80 | 40 | 3.49 | 0.2 | |
| 0.4 | 279 | 4000 | 50 | 80 | 3.49 | 0.1 | |
| 0.28 | 338 | 5000 | 50 | 100 | 3.49 | 0.1 | |
| 30/50 | | | | | | | |
| 1.6 | 141 | 900 | 30 | 30 | 4.84 | 1.0 | 30/50 |
| 1.2 | 169 | 1200 | 30 | 40 | 4.84 | 0.7 | |
| 0.93 | 199 | 1500 | 50 | 30 | 4.84 | 0.7 | |
| 0.78 | 222 | 1800 | 60 | 30 | 4.84 | 0.7 | |
| 0.6 | 266 | 2400 | 60 | 40 | 4.84 | 0.5 | |
| 0.5 | 307 | 3000 | 60 | 50 | 4.84 | 0.4 | |
| 0.35 | 288 | 4000 | 50 | 80 | 4.84 | 0.3 | |
| 0.29 | 311 | 4800 | 60 | 80 | 4.84 | 0.3 | |
| 30/63 | | | | | | | |
| 0.9 | 203 | 1500 | 30 | 50 | 6.27 | 1.1 | 30/63 |
| 0.78 | 225 | 1800 | 30 | 60 | 6.27 | 0.9 | |
| 0.58 | 276 | 2400 | 60 | 40 | 6.27 | 0.8 | |

| 输出转速 Output speed r/min | 输出转矩 Output torque N · m | 总传动比 General transmission ratio i | 高速级传动比 High speed transmission ratio i ₁ | 低速级传动比 Low speed transmission ratio i ₂ | 输出轴径 Output radial force kN | 使用系数 fs | 组合机 型规格 Combination model Size |
|-------------------------------|--------------------------------|---|---|--|-----------------------------------|------------|--------------------------------------|
| 0.06kW | | | | | | | |
| 0.47 | 319 | 3000 | 60 | 50 | 6.27 | 0.7 | 30/63 |
| 0.35 | 306 | 4000 | 50 | 80 | 6.27 | 0.6 | |
| 0.28 | 360 | 5000 | 50 | 100 | 6.27 | 0.4 | |
| 40/75 | | | | | | | |
| 0.6 | 330 | 2400 | 60 | 40 | 7.38 | 1.1 | 40/75 |
| 0.47 | 377 | 3000 | 60 | 50 | 7.38 | 0.8 | |
| 0.35 | 355 | 4000 | 50 | 80 | 7.38 | 0.7 | |
| 0.28 | 419 | 5000 | 50 | 100 | 7.38 | 0.5 | |
| 40/90 | | | | | | | |
| 0.5 | 405 | 3000 | 60 | 50 | 8.18 | 1.4 | 40/90 |
| 0.35 | 365 | 4000 | 50 | 80 | 8.18 | 1.3 | |
| 0.28 | 431 | 5000 | 50 | 100 | 8.18 | 1.0 | |
| 0.06kW | | | | | | | |
| 14 | 37 | 100 | 10 | 10 | 1.62 | 0.8 | 25/30 |
| 9.3 | 49 | 150 | 10 | 15 | 1.83 | 0.6 | |
| 7.0 | 62 | 200 | 10 | 20 | 1.83 | 0.5 | |
| 5.6 | 66 | 250 | 10 | 25 | 1.83 | 0.5 | |
| 4.7 | 75 | 300 | 10 | 30 | 1.83 | 0.4 | |
| 3.5 | 107 | 400 | 10 | 40 | 1.83 | 0.3 | |
| 2.8 | 115 | 500 | 20 | 25 | 1.83 | 0.2 | |
| 2.3 | 135 | 600 | 20 | 30 | 1.83 | 0.2 | |
| 1.9 | 151 | 750 | 25 | 30 | 1.83 | 0.2 | |
| 1.6 | 178 | 900 | 30 | 30 | 1.83 | 0.2 | |
| 1.2 | 212 | 1200 | 30 | 40 | 1.83 | 0.1 | |
| 0.9 | 247 | 1500 | 50 | 30 | 1.83 | 0.1 | |
| 0.78 | 304 | 1800 | 60 | 30 | 1.83 | 0.1 | |
| 0.58 | 340 | 2400 | 60 | 40 | 1.83 | 0.1 | |
| 0.47 | 405 | 3000 | 60 | 50 | 1.83 | 0.1 | |
| 30/40 | | | | | | | |
| 4.7 | 88 | 300 | 10 | 30 | 3.49 | 0.8 | 30/40 |
| 30/50 | | | | | | | |
| 3.5 | 107 | 400 | 10 | 40 | 4.84 | 1.2 | 30/50 |
| 2.8 | 123 | 500 | 10 | 50 | 4.84 | 1.0 | |
| 2.3 | 159 | 600 | 20 | 30 | 4.84 | 0.9 | |
| 1.9 | 185 | 750 | 25 | 30 | 4.84 | 0.8 | |
| 1.6 | 212 | 900 | 30 | 30 | 4.84 | 0.7 | |
| 30/63 | | | | | | | |
| 1.6 | 200 | 900 | 15 | 60 | 6.27 | 1.0 | 30/63 |
| 1.2 | 263 | 1200 | 30 | 40 | 6.27 | 0.9 | |
| 0.93 | 305 | 1500 | 30 | 50 | 6.27 | 0.7 | |
| 40/75 | | | | | | | |
| 0.9 | 359 | 1500 | 50 | 30 | 7.38 | 1.1 | 40/75 |
| 0.78 | 404 | 1800 | 60 | 30 | 7.38 | 1 | |
| 0.58 | 496 | 2400 | 60 | 40 | 7.38 | 0.7 | |
| 40/90 | | | | | | | |
| 0.5 | 608 | 3000 | 60 | 50 | 8.18 | 0.9 | 40/90 |
| 0.35 | 548 | 4000 | 50 | 80 | 8.18 | 0.8 | |





| 输出转速 Output speed r/min | 输出转矩 Output torque N·m | 总传动比 General transmission ratio i | 高速级传动比 High speed transmission ratio i ₁ | 低速级传动比 Low speed transmission ratio i ₂ | 输出轴径 Output radial force kN | 使用系数 fs | 组合机 型规格 Combination model Size |
|-------------------------------|------------------------------|---|---|--|-----------------------------------|------------|--------------------------------------|
| 0.12kW | | | | | | | |
| 4.7 | 118 | 300 | 10 | 30 | 4.84 | 1.2 | 30/50 |
| 3.5 | 142 | 400 | 10 | 40 | 4.84 | 0.9 | |
| 2.8 | 164 | 500 | 10 | 50 | 4.84 | 0.7 | |
| 2.8 | 171 | 500 | 10 | 50 | 6.27 | 1.3 | 30/63 |
| 2.3 | 208 | 600 | 15 | 40 | 6.27 | 1.1 | |
| 1.9 | 241 | 750 | 15 | 50 | 6.27 | 0.9 | |
| 1.6 | 324 | 900 | 30 | 30 | 7.38 | 1.2 | 40/75 |
| 1.2 | 399 | 1200 | 30 | 40 | 7.38 | 0.9 | |
| 0.78 | 546 | 1800 | 30 | 60 | 8.18 | 0.9 | 40/90 |
| 0.58 | 695 | 2400 | 60 | 40 | 8.18 | 0.9 | |
| 0.5 | 883 | 3000 | 60 | 50 | 10.32 | 1.2 | 50/110 |
| 0.35 | 784 | 4000 | 50 | 80 | 10.32 | 1.0 | |
| 0.28 | 928 | 5000 | 50 | 100 | 10.32 | 0.8 | |
| 0.18kW | | | | | | | |
| 3.5 | 221 | 400 | 10 | 40 | 6.27 | 1.0 | 30/63 |
| 2.8 | 257 | 500 | 10 | 50 | 6.27 | 0.8 | |
| 2.3 | 362 | 600 | 20 | 30 | 7.38 | 1.1 | 40/75 |
| 1.9 | 435 | 750 | 25 | 30 | 7.38 | 0.9 | |
| 1.6 | 487 | 900 | 30 | 30 | 7.38 | 0.8 | |
| 1.2 | 629 | 1200 | 30 | 40 | 8.18 | 1.0 | 40/90 |
| 0.93 | 735 | 1500 | 30 | 50 | 8.18 | 0.8 | |
| 0.78 | 860 | 1800 | 60 | 30 | 10.32 | 1.5 | 50/110 |
| 0.58 | 1113 | 2400 | 60 | 40 | 10.32 | 1.1 | |
| 0.25kW | | | | | | | |
| 3.5 | 336 | 400 | 10 | 40 | 7.38 | 1.1 | 40/75 |
| 2.8 | 384 | 500 | 10 | 50 | 7.38 | 0.8 | |
| 2.3 | 511 | 600 | 15 | 40 | 8.18 | 1.2 | 40/90 |
| 1.9 | 598 | 750 | 15 | 50 | 8.18 | 0.9 | |
| 1.6 | 667 | 900 | 15 | 60 | 8.18 | 0.8 | |
| 1.2 | 943 | 1200 | 30 | 40 | 10.32 | 1.3 | 50/110 |
| 0.93 | 1064 | 1500 | 50 | 30 | 10.32 | 1.2 | |
| 0.78 | 1195 | 1800 | 60 | 30 | 10.32 | 1.1 | |
| 0.6 | 1624 | 2400 | 60 | 40 | 13.5 | 1.0 | 63/130 |
| 0.47 | 1935 | 3000 | 60 | 50 | 13.5 | 0.8 | |
| 0.35 | 2046 | 4000 | 50 | 80 | 13.5 | 0.6 | |
| 0.28 | 2430 | 5000 | 50 | 100 | 13.5 | 0.5 | |

| 输出转速 Output speed r/min | 输出转矩 Output torque N·m | 总传动比 General transmission ratio i | 高速级传动比 High speed transmission ratio i ₁ | 低速级传动比 Low speed transmission ratio i ₂ | 输出轴径 Output radial force kN | 使用系数 fs | 组合机 型规格 Combination model Size |
|-------------------------------|------------------------------|---|---|--|-----------------------------------|------------|--------------------------------------|
| 0.25kW | | | | | | | |
| 0.78 | 1199 | 1800 | 60 | 30 | 18 | 1.8 | 63/150 |
| 0.6 | 1446 | 2400 | 60 | 40 | 18 | 1.8 | |
| 0.5 | 1713 | 3000 | 60 | 50 | 18 | 1.4 | |
| 0.4 | 2026 | 4000 | 50 | 80 | 18 | 0.9 | |
| 0.3 | 2251 | 5000 | 50 | 100 | 18 | 0.7 | |
| 0.37kW | | | | | | | |
| 4.7 | 405 | 300 | 10 | 30 | 7.38 | 1.0 | 40/75 |
| 3.5 | 498 | 400 | 10 | 40 | 7.38 | 0.7 | |
| 4.7 | 401 | 300 | 7.5 | 40 | 8.18 | 1.5 | 40/90 |
| 3.5 | 523 | 400 | 10 | 40 | 8.18 | 1.2 | |
| 2.8 | 611 | 500 | 10 | 50 | 8.18 | 0.9 | |
| 2.3 | 757 | 600 | 15 | 40 | 8.18 | 0.8 | |
| 1.9 | 949 | 750 | 25 | 30 | 10.32 | 1.3 | 50/110 |
| 1.6 | 1079 | 900 | 30 | 30 | 10.32 | 1.2 | |
| 1.2 | 1396 | 1200 | 30 | 40 | 10.32 | 0.8 | |
| 0.9 | 1674 | 1500 | 50 | 30 | 13.5 | 1.1 | 63/130 |
| 0.78 | 1887 | 1800 | 60 | 30 | 13.5 | 0.9 | |
| 0.78 | 1774 | 1800 | 60 | 30 | 18 | 1.2 | 63/150 |
| 0.6 | 2141 | 2400 | 60 | 40 | 18 | 1.2 | |
| 0.5 | 2535 | 3000 | 60 | 50 | 18 | 0.9 | |
| 0.55kW | | | | | | | |
| 4.7 | 638 | 300 | 10 | 30 | 10.32 | 2.0 | 50/110 |
| 3.5 | 826 | 400 | 10 | 40 | 10.32 | 1.4 | |
| 2.8 | 984 | 500 | 10 | 50 | 10.32 | 1.1 | |
| 2.3 | 1181 | 600 | 15 | 40 | 10.32 | 1.0 | |
| 1.9 | 1411 | 750 | 25 | 30 | 10.32 | 0.9 | |
| 2.8 | 995 | 500 | 10 | 50 | 13.5 | 1.6 | 63/130 |
| 1.9 | 1471 | 750 | 25 | 30 | 13.5 | 1.2 | |
| 1.2 | 2132 | 1200 | 30 | 40 | 13.5 | 0.8 | |
| 0.78 | 2637 | 1800 | 60 | 30 | 18 | 0.8 | 63/150 |
| 0.6 | 3182 | 2400 | 60 | 40 | 18 | 0.8 | |
| 0.75kW | | | | | | | |
| 4.7 | 871 | 300 | 10 | 30 | 10.32 | 1.5 | 50/110 |
| 3.5 | 1126 | 400 | 10 | 40 | 10.32 | 1.1 | |



| 输出转速 Output speed r/min | 输出转矩 Output torque N · m | 总传动比 General transmission ratio i | 高速级传动比 High speed transmission ratio i ₁ | 低速级传动比 Low speed transmission ratio i ₂ | 输出轴径 Output radial force kN | 使用系数 f _s | 组合机型规格 Combination model Size. |
|-------------------------------|--------------------------------|---|---|--|-----------------------------------|------------------------|-----------------------------------|
| 0.75kW | | | | | | | |
| 2.8 | 1357 | 500 | 10 | 50 | 13.5 | 1.1 | 63/130 |
| 2.3 | 1631 | 600 | 15 | 40 | 13.5 | 1.0 | |
| 1.9 | 2005 | 750 | 25 | 30 | 13.5 | 0.9 | |
| 1.6 | 2283 | 900 | 30 | 30 | 13.5 | 0.8 | |
| | | | | | | | |
| 2.8 | 1290 | 500 | 10 | 50 | 18 | 1.8 | 63/150 |
| 2.3 | 1529 | 600 | 15 | 40 | 18 | 1.7 | |
| 1.9 | 1783 | 750 | 25 | 30 | 18 | 1.3 | |
| 1.6 | 2215 | 900 | 30 | 30 | 18 | 0.9 | |
| 1.2 | 2680 | 1200 | 30 | 40 | 18 | 1.0 | |
| | | | | | | | |
| 1.1kW | | | | | | | |
| 4.7 | 1312 | 300 | 10 | 30 | 13.5 | 1.3 | 63/130 |
| 3.5 | 1671 | 400 | 10 | 40 | 13.5 | 1.0 | |
| 2.8 | 1991 | 500 | 10 | 50 | 13.5 | 0.8 | |
| | | | | | | | |
| 9.3 | 752 | 150 | 10 | 15 | 18 | 3.1 | 63/150 |
| 7.0 | 966 | 200 | 10 | 20 | 18 | 2.4 | |
| 5.6 | 1175 | 250 | 10 | 25 | 18 | 1.7 | |
| 4.7 | 1364 | 300 | 10 | 30 | 18 | 1.7 | |
| 3.5 | 1619 | 400 | 10 | 40 | 18 | 1.6 | |
| 2.8 | 1893 | 500 | 10 | 50 | 18 | 1.2 | |
| 2.3 | 2242 | 600 | 15 | 40 | 18 | 1.2 | |
| 1.9 | 2616 | 750 | 25 | 30 | 18 | 0.9 | |
| | | | | | | | |
| 1.5kW | | | | | | | |
| 4.7 | 1789 | 300 | 10 | 30 | 13.5 | 1.0 | 63/130 |
| 3.5 | 2279 | 400 | 10 | 40 | 13.5 | 0.7 | |
| | | | | | | | |
| 9.3 | 1026 | 150 | 10 | 15 | 18 | 2.3 | 63/150 |
| 7.0 | 1317 | 200 | 10 | 20 | 18 | 1.8 | |
| 5.6 | 1602 | 250 | 10 | 25 | 18 | 1.3 | |
| 4.7 | 1860 | 300 | 10 | 30 | 18 | 1.3 | |
| 3.5 | 2208 | 400 | 10 | 40 | 18 | 1.2 | |
| 2.8 | 2582 | 500 | 10 | 50 | 18 | 0.9 | |
| 2.3 | 3057 | 600 | 15 | 40 | 18 | 0.9 | |





5.3 Single step reducer (shaft extend input, input speed is 1400r/min)

| 输入轴 功率 Input Power kW | 输出转速 Output speed r/min | 输出转 矩 Output torque N·m | 传动比 Transmi ssion ratio i | 输出轴径 向力 Output radial force kN | 输入轴径 向力 Input radial force kN | 机型代号 Model code | 输入轴 功率 Input Power kW | 输出转速 Output speed r/min | 输出转 矩 Output torque N·m | 传动比 Transmi ssion ratio i | 输出轴径 向力 Output radial force kN | 输入轴径 向力 Input radial force kN | 机型代号 Model code |
|-----------------------------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|-----------------------|-----------------------------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|-----------------------|
| 0.4 | 186.7 | 18 | 7.5 | 0.68 | 0.15 | JRST30 | 0.4 | 17.5 | 122 | 80 | 5.19 | 0.70 | JRST63 |
| 0.3 | 140 | 18 | 10 | 0.75 | 0.16 | | 0.3 | 14 | 118 | 100 | 5.59 | 0.70 | |
| 0.2 | 93.3 | 18 | 15 | 0.86 | 0.16 | | | | | | | | |
| 0.2 | 70 | 18 | 20 | 0.94 | 0.19 | | 4.1 | 186.7 | 185 | 7.5 | 2.78 | 0.70 | JRST75 |
| 0.2 | 56 | 21 | 25 | 1.02 | 0.21 | | 3.2 | 140 | 195 | 10 | 3.06 | 0.83 | |
| 0.2 | 46.7 | 20 | 30 | 1.08 | 0.21 | | 2.3 | 93.3 | 200 | 15 | 3.50 | 0.85 | |
| 0.1 | 35 | 18 | 40 | 1.19 | 0.21 | | 1.9 | 70 | 210 | 20 | 3.86 | 0.98 | |
| 0.1 | 28 | 17 | 50 | 1.28 | 0.21 | | 1.5 | 56 | 200 | 25 | 4.16 | 0.98 | |
| 0.1 | 23.3 | 16 | 60 | 1.36 | 0.21 | | 1.5 | 46.7 | 230 | 30 | 4.42 | 0.98 | |
| 0.1 | 17.5 | 13 | 80 | 1.5 | 0.21 | | 1.1 | 35 | 220 | 40 | 4.86 | 0.98 | |
| | | | | | | | 0.9 | 28 | 210 | 50 | 5.24 | 0.98 | |
| 0.9 | 186.7 | 40 | 7.5 | 1.31 | 0.29 | JRST40 | 0.8 | 23.3 | 200 | 60 | 5.56 | 0.98 | |
| 0.7 | 140 | 40 | 10 | 1.44 | 0.33 | | 0.6 | 17.5 | 190 | 80 | 6.13 | 0.98 | |
| 0.5 | 93.3 | 40 | 15 | 1.65 | 0.33 | | 0.5 | 14 | 180 | 100 | 6.60 | 0.98 | |
| 0.4 | 70 | 39 | 20 | 1.82 | 0.35 | | | | | | | | |
| 0.3 | 56 | 38 | 25 | 1.96 | 0.35 | | 6.3 | 186.7 | 290 | 7.5 | 3.08 | 0.90 | JRST90 |
| 0.3 | 46.7 | 45 | 30 | 2.08 | 0.35 | | 5.1 | 140 | 310 | 10 | 3.39 | 1.08 | |
| 0.2 | 35 | 41 | 40 | 2.29 | 0.35 | | 4.1 | 93.3 | 360 | 15 | 3.88 | 1.25 | |
| 0.2 | 28 | 39 | 50 | 2.47 | 0.35 | | 3.1 | 70 | 355 | 20 | 4.27 | 1.27 | |
| 0.2 | 23.3 | 36 | 60 | 2.63 | 0.35 | | 2.4 | 56 | 340 | 25 | 4.60 | 1.27 | |
| 0.1 | 17.5 | 33 | 80 | 2.89 | 0.35 | | 2.6 | 46.7 | 410 | 30 | 4.89 | 1.27 | |
| 0.1 | 14 | 29 | 100 | 3.11 | 0.35 | | 1.8 | 35 | 360 | 40 | 5.38 | 1.27 | |
| | | | | | | | 1.4 | 28 | 340 | 50 | 5.79 | 1.27 | |
| 1.6 | 186.7 | 71 | 7.5 | 1.8 | 0.4 | JRST50 | 1.1 | 23.3 | 320 | 60 | 6.16 | 1.27 | |
| 1.2 | 140 | 72 | 10 | 1.98 | 0.49 | | 0.8 | 17.5 | 285 | 80 | 6.78 | 1.27 | |
| 0.9 | 93.3 | 74 | 15 | 2.27 | 0.49 | | 0.7 | 14 | 270 | 100 | 7.30 | 1.27 | |
| 0.7 | 70 | 73 | 20 | 2.5 | 0.49 | | | | | | | | |
| 0.5 | 56 | 70 | 25 | 2.69 | 0.49 | | 12 | 186.7 | 552 | 7.5 | 3.89 | 1.20 | JRST110 |
| 0.6 | 46.7 | 84 | 30 | 2.86 | 0.49 | | 9.8 | 140 | 598 | 10 | 4.28 | 1.46 | |
| 0.4 | 35 | 76 | 40 | 3.15 | 0.49 | | 7.5 | 93.3 | 656 | 15 | 4.90 | 1.60 | |
| 0.3 | 28 | 73 | 50 | 3.39 | 0.49 | | 5.6 | 70 | 644 | 20 | 5.39 | 1.70 | |
| 0.3 | 23.3 | 68 | 60 | 3.61 | 0.49 | | 4.7 | 56 | 679 | 25 | 5.81 | 1.70 | |
| 0.2 | 17.5 | 65 | 80 | 3.97 | 0.49 | | 4.5 | 46.7 | 725 | 30 | 6.18 | 1.70 | |
| 0.2 | 14 | 55 | 100 | 4.28 | 0.49 | | 3.3 | 35 | 702 | 40 | 6.80 | 1.70 | |
| | | | | | | | 2.6 | 28 | 660 | 50 | 7.32 | 1.70 | |
| 2.8 | 186.7 | 128 | 7.5 | 2.35 | 0.5 | JRST63 | 2.1 | 23.3 | 616 | 60 | 7.78 | 1.70 | |
| 2.2 | 140 | 130 | 10 | 2.59 | 0.57 | | 1.4 | 17.5 | 515 | 80 | 8.57 | 1.70 | |
| 1.6 | 93.3 | 140 | 15 | 2.97 | 0.61 | | 1.1 | 14 | 483 | 100 | 9.23 | 1.70 | |
| 1.2 | 70 | 135 | 20 | 3.27 | 0.66 | | | | | | | | |
| 1.0 | 56 | 130 | 25 | 3.52 | 0.70 | | 16.1 | 186.7 | 750 | 7.5 | 5.09 | 1.50 | JRST130 |
| 1.1 | 46.7 | 160 | 30 | 3.74 | 0.70 | | 13.5 | 140 | 820 | 10 | 5.60 | 1.84 | |
| 0.8 | 35 | 145 | 40 | 4.12 | 0.70 | | 10.3 | 93.3 | 920 | 15 | 6.41 | 2.07 | |
| 0.6 | 28 | 135 | 50 | 4.44 | 0.70 | | 7.8 | 70 | 910 | 20 | 7.06 | 2.10 | |
| 0.5 | 23.3 | 130 | 60 | 4.71 | 0.70 | | 6.5 | 56 | 930 | 25 | 7.60 | 2.10 | |





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| 输入轴 功率 Input Power kW | 输出转速 Output speed r/min | 输出转 矩 Output torque N · m | 传动比 Transmi ssion ratio i | 输出轴径 向力 Output radial force kN | 输入轴径 向力 Input radial force kN | 机型代号 Model code |
|-----------------------------------|----------------------------------|---------------------------------------|---------------------------------------|---|--|-----------------------|
| 6.4 | 46.7 | 1040 | 30 | 8.08 | 2.10 | JRST130 |
| 4.9 | 35 | 1050 | 40 | 8.89 | 2.10 | |
| 3.8 | 28 | 980 | 50 | 9.58 | 2.10 | |
| 3.1 | 23.3 | 900 | 60 | 10.18 | 2.10 | |
| 2.3 | 17.5 | 840 | 80 | 11.21 | 2.10 | |
| 1.7 | 14 | 740 | 100 | 12.07 | 2.10 | |
| 25.8 | 186.7 | 1200 | 7.5 | 6.96 | 1.95 | JRST150 |
| 20.2 | 140 | 1240 | 10 | 7.66 | 2.26 | |
| 13.9 | 93.3 | 1250 | 15 | 8.77 | 2.28 | |
| 11.1 | 70 | 1300 | 20 | 9.65 | 2.67 | |
| 8.4 | 56 | 1200 | 25 | 10.40 | 2.80 | |
| 7.1 | 46.7 | 1200 | 30 | 11.05 | 2.80 | |
| 7.3 | 35 | 1550 | 40 | 12.16 | 2.80 | |
| 5.4 | 28 | 1400 | 50 | 13.10 | 2.80 | |
| 4.2 | 23.3 | 1260 | 60 | 13.92 | 2.80 | |
| 3.1 | 17.5 | 1150 | 80 | 15.32 | 2.80 | |
| 2.3 | 14 | 1000 | 100 | 16.50 | 2.80 | |





5.4 Double step reducer (shaft extend input, input speed is 1400r/min)

| 输入轴 功率 Input Power kW | 输出转速 Output speed r/min | 输出转 矩 Output torque N · m | 传动比 Transmi ssion ratio i | 输出轴径 向力 Output radial force kN | 输入轴径 向力 Input radial force kN | 机型代号 Model code |
|-----------------------------------|----------------------------------|---------------------------------------|---------------------------------------|---|--|-----------------------|
| 0.1 | 4.7 | 73 | 300 | 3.49 | 0.21 | JRSTE30/40 |
| 0.1 | 3.5 | 65 | 400 | 3.49 | 0.21 | |
| 0.08 | 2.8 | 61 | 500 | 3.49 | 0.21 | |
| 0.06 | 2.3 | 73 | 600 | 3.49 | 0.21 | |
| 0.04 | 1.9 | 73 | 750 | 3.49 | 0.21 | |
| 0.03 | 0.6 | 73 | 900 | 3.49 | 0.21 | |
| 0.02 | 1.2 | 65 | 1200 | 3.49 | 0.21 | |
| 0.02 | 0.9 | 73 | 1500 | 3.49 | 0.21 | |
| 0.02 | 0.78 | 73 | 1800 | 3.49 | 0.21 | |
| 0.01 | 0.58 | 65 | 2400 | 3.49 | 0.21 | |
| 0.01 | 0.4 | 65 | 3200 | 3.49 | 0.21 | |
| 0.01 | 0.35 | 33 | 4000 | 3.49 | 0.21 | |
| 0.01 | 0.28 | 29 | 5000 | 3.49 | 0.21 | |
| 0.15 | 4.7 | 145 | 300 | 4.84 | 0.21 | JRSTE30/50 |
| 0.1 | 3.5 | 124 | 400 | 4.84 | 0.21 | |
| 0.1 | 2.8 | 120 | 500 | 4.84 | 0.21 | |
| 0.1 | 2.3 | 145 | 600 | 4.84 | 0.21 | |
| 0.1 | 1.9 | 145 | 750 | 4.84 | 0.21 | |
| 0.1 | 1.6 | 145 | 900 | 4.84 | 0.21 | |
| 0.08 | 1.2 | 124 | 1200 | 4.84 | 0.21 | |
| 0.06 | 0.93 | 145 | 1500 | 4.84 | 0.21 | |
| 0.04 | 0.78 | 145 | 1800 | 4.84 | 0.21 | |
| 0.03 | 0.6 | 124 | 2400 | 4.84 | 0.21 | |
| 0.02 | 0.5 | 120 | 3000 | 4.84 | 0.21 | |
| 0.02 | 0.35 | 82 | 4000 | 4.84 | 0.21 | |
| 0.02 | 0.29 | 82 | 4800 | 4.84 | 0.21 | |
| 0.24 | 4.7 | 230 | 300 | 6.27 | 0.21 | JRSTE30/63 |
| 0.2 | 3.5 | 230 | 400 | 6.27 | 0.21 | |
| 0.2 | 2.8 | 216 | 500 | 6.27 | 0.21 | |
| 0.13 | 2.3 | 230 | 600 | 6.27 | 0.21 | |
| 0.11 | 1.9 | 216 | 750 | 6.27 | 0.21 | |
| 0.1 | 1.6 | 198 | 900 | 6.27 | 0.21 | |
| 0.1 | 1.2 | 230 | 1200 | 6.27 | 0.21 | |
| 0.1 | 0.93 | 216 | 1500 | 6.27 | 0.21 | |
| 0.1 | 0.78 | 198 | 1800 | 6.27 | 0.21 | |
| 0.1 | 0.58 | 230 | 2400 | 6.27 | 0.21 | |
| 0.08 | 0.47 | 216 | 3000 | 6.27 | 0.21 | |
| 0.06 | 0.35 | 172 | 4000 | 6.27 | 0.21 | |
| 0.04 | 0.28 | 150 | 5000 | 6.27 | 0.21 | |
| 0.4 | 4.7 | 390 | 300 | 7.38 | 0.35 | JRSTE40/75 |
| 0.3 | 3.5 | 360 | 400 | 7.38 | 0.35 | |
| 0.21 | 2.8 | 320 | 500 | 7.38 | 0.35 | |

| 输入轴 功率 Input Power kW | 输出转速 Output speed r/min | 输出转 矩 Output torque N · m | 传动比 Transmi ssion ratio i | 输出轴径 向力 Output radial force kN | 输入轴径 向力 Input radial force kN | 机型代号 Model code |
|-----------------------------------|----------------------------------|---------------------------------------|---------------------------------------|---|--|-----------------------|
| 0.2 | 2.3 | 390 | 600 | 7.38 | 0.35 | JRSTE40/75 |
| 0.2 | 1.9 | 390 | 750 | 7.38 | 0.35 | |
| 0.14 | 1.6 | 390 | 900 | 7.38 | 0.35 | |
| 0.11 | 1.2 | 360 | 1200 | 7.38 | 0.35 | |
| 0.1 | 0.93 | 390 | 1500 | 7.38 | 0.35 | |
| 0.1 | 0.78 | 390 | 1800 | 7.38 | 0.35 | |
| 0.1 | 0.58 | 360 | 2400 | 7.38 | 0.35 | |
| 0.1 | 0.47 | 320 | 3000 | 7.38 | 0.35 | |
| 0.08 | 0.35 | 250 | 4000 | 7.38 | 0.35 | |
| 0.06 | 0.28 | 230 | 5000 | 7.38 | 0.35 | |
| 0.6 | 4.7 | 610 | 300 | 8.18 | 0.35 | JRSTE40/90 |
| 0.43 | 3.5 | 610 | 400 | 8.18 | 0.35 | |
| 0.34 | 2.8 | 560 | 500 | 8.18 | 0.35 | |
| 0.3 | 2.3 | 610 | 600 | 8.18 | 0.35 | |
| 0.23 | 1.9 | 560 | 750 | 8.18 | 0.35 | |
| 0.2 | 1.6 | 505 | 900 | 8.18 | 0.35 | |
| 0.2 | 1.2 | 610 | 1200 | 8.18 | 0.35 | |
| 0.14 | 0.93 | 560 | 1500 | 8.18 | 0.35 | |
| 0.11 | 0.78 | 505 | 1800 | 8.18 | 0.35 | |
| 0.11 | 0.58 | 610 | 2400 | 8.18 | 0.35 | |
| 0.1 | 0.47 | 560 | 3000 | 8.18 | 0.35 | |
| 0.1 | 0.35 | 460 | 4000 | 8.18 | 0.35 | |
| 0.1 | 0.28 | 410 | 5000 | 8.18 | 0.35 | |
| 1.1 | 4.7 | 1265 | 300 | 10.32 | 0.49 | JRSTE50/110 |
| 0.8 | 3.5 | 1185 | 400 | 10.32 | 0.49 | |
| 0.61 | 2.8 | 1100 | 500 | 10.32 | 0.49 | |
| 0.6 | 2.3 | 1185 | 600 | 10.32 | 0.49 | |
| 0.5 | 1.9 | 1265 | 750 | 10.32 | 0.49 | |
| 0.43 | 1.6 | 1265 | 900 | 10.32 | 0.49 | |
| 0.31 | 1.2 | 1186 | 1200 | 10.32 | 0.49 | |
| 0.3 | 0.93 | 1265 | 1500 | 10.32 | 0.49 | |
| 0.3 | 0.78 | 1265 | 1800 | 10.32 | 0.49 | |
| 0.2 | 0.58 | 1185 | 2400 | 10.32 | 0.49 | |
| 0.15 | 0.47 | 1100 | 3000 | 10.32 | 0.49 | |
| 0.13 | 0.35 | 819 | 4000 | 10.32 | 0.49 | |
| 0.1 | 0.28 | 746 | 5000 | 10.32 | 0.49 | |
| 1.5 | 4.7 | 1760 | 300 | 13.5 | 0.7 | JRSTE63/130 |
| 1.1 | 3.5 | 1650 | 400 | 13.5 | 0.7 | |
| 0.9 | 2.8 | 1550 | 500 | 13.5 | 0.7 | |
| 0.8 | 2.3 | 1650 | 600 | 13.5 | 0.7 | |
| 0.7 | 1.9 | 1760 | 750 | 13.5 | 0.7 | |





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| 输入轴 功率 Input Power kW | 输出转速 Output speed r/min | 输出转 矩 Output torque N·m | 传动比 Transmi ssion ratio i | 输出轴径 向力 Output radial force kN | 输入轴径 向力 Input radial force kN | 机型代号 Model code |
|-----------------------------------|----------------------------------|-------------------------------------|---------------------------------------|---|--|-----------------------|
| 0.6 | 1.6 | 1760 | 900 | 13.5 | 0.7 | JRSTE63/130 |
| 0.4 | 1.2 | 1650 | 1200 | 13.5 | 0.7 | |
| 0.4 | 0.93 | 1760 | 1500 | 13.5 | 0.7 | |
| 0.3 | 0.78 | 1760 | 1800 | 13.5 | 0.7 | |
| 0.3 | 0.58 | 1650 | 2400 | 13.5 | 0.7 | |
| 0.2 | 0.47 | 1550 | 3000 | 13.5 | 0.7 | |
| 0.1 | 0.35 | 1220 | 4000 | 13.5 | 0.7 | |
| 0.1 | 0.28 | 1100 | 5000 | 13.5 | 0.7 | |
| 3.4 | 9.3 | 2340 | 150 | 18 | 0.7 | JRSTE63/150 |
| 2.7 | 7.0 | 2340 | 200 | 18 | 0.7 | |
| 1.9 | 5.6 | 2050 | 250 | 18 | 0.7 | |
| 1.9 | 4.7 | 2340 | 300 | 18 | 0.7 | |
| 1.8 | 3.5 | 2670 | 400 | 18 | 0.7 | |
| 1.4 | 2.8 | 2330 | 500 | 18 | 0.7 | |
| 1.3 | 2.3 | 2670 | 600 | 18 | 0.7 | |
| 1.0 | 1.9 | 2330 | 750 | 18 | 0.7 | |
| 0.7 | 1.6 | 2100 | 900 | 18 | 0.7 | |
| 0.7 | 1.2 | 2670 | 1200 | 18 | 0.7 | |
| 0.4 | 0.78 | 2100 | 1800 | 18 | 0.7 | |
| 0.5 | 0.6 | 2670 | 2400 | 18 | 0.7 | |
| 0.3 | 0.5 | 2330 | 3000 | 18 | 0.7 | |
| 0.2 | 0.4 | 1880 | 4000 | 18 | 0.7 | |
| 0.2 | 0.3 | 1650 | 5000 | 18 | 0.7 | |





6. Operating Instructions

6.1 Single Step Worm Gear Reducer

6.1.1 The reducer which model is 25~90 made of Aluminum alloy die-casting box, good looking in appearance, compact in structure, rust proofing on surface and small volume to save mounting space.

6.1.2 The reducer model of 110~150 is made of cast iron which casted with Aluminum mould. It's good looking and solid, and can be used through the setting of multi- azimuth.

6.1.3 Good radiating characteristic leads safe and reliability and high efficiency for using.

6.1.4 The strong capacity of loading ensure stable transmission, make less vibration and noise.

6.1.5 Varies of connecting structure for power input and torque output meet different requirements; the design of box outline and the set of foot hole with good versatility is apt to many kinds of mounting.

6.2 Double Step Worm Gear Reducer

6.2.1 It is combined by two single step reducers and has all the virtues of them. And you can get bigger ratio with it.

6.2.2 The models of 25/30, 25/40, 30/40, 30/50, 30/63, 40/75, 40/90, 50/110, 63/130, 63/150 are in common use. You can choose 25, 30, 40, 50, 63, 75, 90, 110, 130, 150 as combination units to combine according to the fact of your special needs.

6.3 Notes of Installation

6.3.1 The base-plate must be plane and stoutness, and the base-bolts must be screwed down and shockproof.

6.3.2 The connecting shafts of prime mover, reducer and operation device must be coaxial after installation.

6.3.3 The diameter tolerance zone of input and output shaft is h6, the holes of fittings (such as couplings, belt-pulley, sprocket wheel and so on) must properly mate the shaft, which prevents bearing from breakage because of over-tight mate or avoid effecting normal power transmission because of over-loose mate.

6.3.4 Drives such as sprocket wheel and gear must be fitted close to bearing in order to reduce bending stress of hanging shaft.

6.3.5 While assembling motor to the reducer, it is necessary to add butters to the worm shaft input hole and keyway, so as to avoid tightly assembling and rusting when it is used for a long time.

6.3.6 Supporting unit is required when reducers directly match with motors whose weight is bigger than normal.

6.4 Operating Notes

6.4.1 Before using, please check carefully whether the reducer mode, centre distance size,





ratio, input connecting method, output shaft structure, input and output shaft direction and revolving direction are right according to requirement. It is better that the input speed of worm shaft shouldn't exceed 2000 RPM, the general range is 600~1800 RPM.

6.4.2 The load should be added step by step when using the machine. Never running it with full load.

6.4.3 The reducer which model is among 25~90 has the oil add hole only. It has been full of synthetic lubrication oil ISO VG320. User doesn't need to think about oil adding, after about 10000 hours continuous running, please change new lubrication oil.

6.4.4 The reducer model of 110~150 has oil add hole, oil out hole and oil gauge. Mineral lubrication oil ISO VG460 has been filled in enough, before using, user must pull out the rubber ring of vent plug. After the first 500 hours running, clean the interior box and change new oil in it. Then change the oil once per 5000 hours.

6.4.5 The permitted temperature of the oil in reducer is 95°C. If it exceeds this value, it must be stopped and checked.

6.4.6 When the ambient temperature is 5°C upper or lower than the normal level stated in the table,



7. Lubricant

7.1 Lubrication oil chosen table

| Reducer size | 25~90 | 110~150 | |
|-------------------------|---------------------------|-------------------------|---------------------|
| Type of lubrication oil | Synthetic lubrication oil | Mineral lubrication oil | |
| Ambient temperature | -25~+50 | -5~+40 | -15~+25 |
| ISO VG | ISO VG 320 | ISO VG 460 | ISO VG 220 |
| AGIP | TELIUM VSF320 | BLASIA 460 | BLASIA 220 |
| SHELL | TIVELA S320 | TIVELA S460 | TIVELA S220 |
| ESSO | GLYGOYLE 220 | SPARTAN EP460 | SPARTAN EP220 |
| MOBIL | GLYGOYLE 320 | MOBIL GEAR 600×P460 | MOBIL GEAR 600×P220 |
| CASTROL | ALPHASYN PG320 | ALPHA MAX 460 | ALPHA MAX 220 |
| BP | ENERGOL SG-XP320 | ENERGOL GR-XP460 | ENERGOL GR-XP220 |

7.2 Adding Capacity of lubrication oil

| Type | 25 | 30 | 40 | 50 | 63 | 75 | 90 | 110 | 130 | 150 |
|--------------|------|------|------|------|-----|------|----|-----|-----|-----|
| Installation | | | | | | | | | | |
| B3 | | | | | | | | 3 | 4.5 | 7 |
| B6 B7 | | | | | | | | 2.5 | 3.5 | 5.4 |
| B8 | 0.02 | 0.04 | 0.08 | 0.15 | 0.3 | 0.55 | 1 | 2.2 | 3.3 | 5.1 |
| V5 | | | | | | | | 3 | 4.5 | 7 |
| V6 | | | | | | | | 2.2 | 3.3 | 5.1 |



8. Malfunctions Analysis

| Fault Description | Reasons | Solutions |
|--|--|--|
| Overheating | Improper connection among prime mover, reducer and the operation device | Adjust to proper position |
| | Overloading | Adjust to proper load |
| | Over friction of oil seals | Drop lubricant at oil seal |
| | ☆ Lubricant oil overmuch or shortage | Adjust to proper oil quantity as lubricant capacity table |
| | ☆ Much impurity in oil or inferior oil | Refill proper oil |
| Vibration | Prime mover, reducer and the operation device mount badly | Find out the bad place,tighten it |
| | Tooth surface of worm gear sets worn-out or damaged | Replace worm gear sets(we will cooperate with you when necessary) |
| | Bearing worn-out | Replace Bearing |
| | Bolt loose | Tighten Screw |
| Noise | Improper connection among prime mover, reducer and the operation device | Adjust to proper position |
| | Bearing damaged or too large clearance | Replace Bearing |
| | Worm gear sets mesh badly | Mend tooth surface or replace worm gear sets (please contact to us) |
| | ☆ Lubricant oil shortage | Fill in adequate oil as lubricant capacity table |
| Oil leakage | Oil seal lip worn-out | Replace oil seal |
| | Shaft of oil seal area worn-out | Replace input or output shaft with worm gear |
| | Oil screw plug loose | Tighten oil screw plug |
| | Oil gauge damaged | Replace oil gauge |
| Tooth surface of worm gear sets abrade extra-quickly | Overload | Adjust to proper loading |
| | ☆ Lubricant oil not according with requirement | Replace proper lubricant oil |
| | ☆ Lubricant oil shortage | Fill adequate oil as indication |
| | Not replacing lubricant oil in time according to requirement, oil deteriorates | Replacing oil in time according to requirement |
| | Overheating while running | 1. Deal with it as "Overheating" 2. Adopting proper measures to make environment temperature fall |



Annotate:1.☆Accored after the lubricant changed.

2.If other faults not listed above occur,please contact with us at any moment, our company will supply thorough consultation and service.



Training, Selecting, Purchasing

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