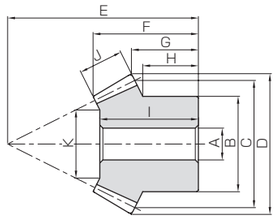
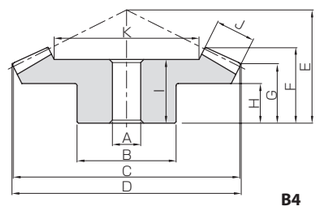
| 共 通 规 格 | |
|---|---|
| 精度等级 | JIS B 1704：1978 3级 |
| 齿　　形 | 格里森 |
| 压 力 角 | 20° |
| 材　　料 | S45C |
| 热 处 理 | — |
| 齿面硬度 | (194HB 以下) |
| 表面处理 | 黑色表面氧化 |

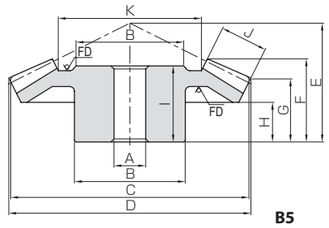
淬



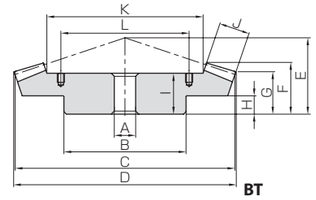
B3



B4



B5



BT

H 淬火＋产品型号为标准品型号 +H。

例：SB1.5-3020H

＊ FD 是锻造加工面。

| 产品型号 | 齿数比 | 模数 | 齿数 | 形状 | 孔径 | 轮毂径 | 分度圆直径 | 齿顶圆直径 | 组装距离 | 全长 | 齿顶距离 | 轮毂长 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | $A_{H7}$ | B | C | D | E | F | G | H |
| SB1.5-3020 H | 1.5 | *m*1.5 | 30 | B4 | 10 | 30 | 45 | 46.24 | 28 | 18.53 | 13.93 | 8 |
| SB1.5-2030 H | | | 20 | B3 | 8 | 25 | 30 | 33.13 | 33 | 18.63 | 11.54 | 8.83 |
| SB2-3020 H | | *m*2 | 30 | B4 | 10 | 35 | 60 | 61.65 | 40 | 26.87 | 21.24 | 15 |
| SB2-2030 H | | | 20 | B3 | 10 | 30 | 40 | 44.18 | 45 | 25.06 | 16.39 | 11.67 |
| SB2.5-3020 H | | *m*2.5 | 30 | B4 | 15 | 45 | 75 | 77.07 | 50 | 34.22 | 26.55 | 18 |
| SB2.5-2030 H | | | 20 | B3 | 12 | 35 | 50 | 55.22 | 55 | 31.06 | 19.24 | 12.5 |
| SB3-3020 H | | *m*3 | 30 | B4 | 15 | 50 | 90 | 92.48 | 55 | 35.56 | 26.86 | 17 |
| SB3-2030 H | | | 20 | B3 | 15 | 45 | 60 | 66.27 | 70 | 40.48 | 27.09 | 20 |
| SB4-3020 H | | *m*4 | 30 | B4 | 20 | 70 | 120 | 123.3 | 75 | 47.71 | 37.48 | 25 |
| SB4-2030 H | | | 20 | B3 | 15 | 60 | 80 | 88.32 | 90 | 48.53 | 32.77 | 23.33 |
| SB5-3020 H | | *m*5 | 30 | B4 | 25 | 90 | 150 | 154.13 | 90 | 58.45 | 43.1 | 24 |
| SB5-2030 H | | | 20 | B3 | 20 | 80 | 100 | 110.45 | 110 | 62.11 | 38.48 | 28.33 |
| SB1.5-3015 H | 2 | *m*1.5 | 30 | B4 | 8 | 25 | 45 | 45.88 | 25 | 17.85 | 14.63 | 9 |
| SB1.5-1530 H | | | 15 | B3 | 6 | 16 | 22.5 | 26.11 | 32 | 17.23 | 10.4 | 7.88 |
| SB2-3015 H | | *m*2 | 30 | B4 | 10 | 30 | 60 | 61.17 | 31 | 21.6 | 17.17 | 10 |
| SB2-1530 H | | | 15 | B3 | 8 | 22 | 30 | 34.81 | 40 | 20.59 | 11.2 | 8 |
| SB2.5-3015 H | | *m*2.5 | 30 | B4 | 15 | 40 | 75 | 76.46 | 40 | 28.75 | 22.71 | 15 |
| SB2.5-1530 H | | | 15 | B3 | 12 | 30 | 37.5 | 43.51 | 55 | 31.81 | 19 | 15.63 |
| SB3-3015 H | | *m*3 | 30 | B4 | 16 | 50 | 90 | 91.76 | 50 | 37.31 | 29.26 | 18 |
| SB3-1530 H | | | 15 | B3 | 12 | 35 | 45 | 52.22 | 70 | 43.88 | 26.8 | 22.5 |
| SB4-3015 H | | *m*4 | 30 | B4 | 20 | 60 | 120 | 122.34 | 60 | 42.4 | 32.34 | 20 |
| SB4-1530 H | | | 15 | B3 | 16 | 50 | 60 | 69.62 | 85 | 48.74 | 27.41 | 22.5 |
| SB5-3015 H | | *m*5 | 30 | B5 | 20 | 70 | 150 | 152.93 | 75 | 52.5 | 40.43 | 25 |
| SB5-1530 H | | | 15 | B3 | 20 | 60 | 75 | 87.03 | 110 | 63.61 | 38.01 | 31.25 |
| SB6-3015 H | | *m*6 | 30 | B5 | 25 | 80 | 180 | 183.5 | 90 | 62.56 | 48.49 | 28 |
| SB6-1530 H | | | 15 | B3 | 25 | 70 | 90 | 104.44 | 125 | 68.48 | 38.6 | 30 |
| SB2.5-3618 H | 2 | *m*2.5 | 36 | B4 | 15 | 55 | 90 | 91.46 | 43 | 28.52 | 21.96 | 13 |
| SB2.5-1836 H | | | 18 | B3 | 12 | 38 | 45 | 51.01 | 64 | 34.27 | 20.5 | 17.25 |
| SB3-3618 H | | *m*3 | 36 | B4 | 20 | 60 | 108 | 109.76 | 52 | 34.95 | 26.76 | 17 |
| SB3-1836 H | | | 18 | B3 | 16 | 46 | 54 | 61.22 | 75 | 40.01 | 22.8 | 19 |
| SB4-3618 H | | *m*4 | 36 | B4 | 20 | 70 | 144 | 146.34 | 72 | 49 | 38.34 | 25 |
| SB4-1836 H | | | 18 | B3 | 20 | 60 | 72 | 81.62 | 100 | 52.77 | 30.41 | 25 |
| SB1-4020 H | 2 | *m*1 | 40 | B4 | 8 | 25 | 40 | 40.59 | 22 | 15.07 | 12.59 | 8 |
| SB1-2040 H | | | 20 | B3 | 6 | 16 | 20 | 22.41 | 28 | 13.78 | 8.6 | 7 |
| SB1.25-4020 H | | *m*1.25 | 40 | B4 | 10 | 32 | 50 | 50.73 | 27 | 18.54 | 15.23 | 10 |
| SB1.25-2040 H | | | 20 | B3 | 8 | 22 | 25 | 28.01 | 36 | 18.66 | 11.75 | 10.25 |
| SB1.5-4020 H | | *m*1.5 | 40 | B4 | 10 | 38 | 60 | 60.88 | 35 | 25.01 | 20.88 | 15 |
| SB1.5-2040 H | | | 20 | B3 | 8 | 25 | 30 | 33.61 | 46 | 25.54 | 16.9 | 14.75 |
| SB2-4020 H | | *m*2 | 40 | B4 | 12 | 40 | 80 | 81.17 | 45 | 32.37 | 26.17 | 18 |
| SB2-2040 H | | | 20 | B3 | 12 | 32 | 40 | 44.81 | 60 | 34.16 | 21.2 | 18 |
| SB2.5-4020 H | | *m*2.5 | 40 | B4 | 15 | 50 | 100 | 101.46 | 55 | 39.73 | 31.46 | 20 |
| SB2.5-2040 H | | | 20 | B3 | 12 | 40 | 50 | 56.01 | 75 | 43.78 | 26.5 | 22.5 |
| SB3-4020 H | | *m*3 | 40 | B4 | 20 | 60 | 120 | 121.76 | 65 | 45.85 | 36.76 | 24 |
| SB3-2040 H | | | 20 | B3 | 16 | 50 | 60 | 67.22 | 90 | 50.81 | 31.8 | 27.5 |
| SB4-4020 H | | *m*4 | 40 | B4 | 20 | 70 | 160 | 162.34 | 80 | 53.92 | 42.34 | 28 |
| SB4-2040 H | | | 20 | B3 | 20 | 60 | 80 | 89.62 | 120 | 66.59 | 42.41 | 35 |
| SB5-4020 H | | *m*5 | 40 | B5 | 25 | 100 | 200 | 202.93 | 90 | 55.33 | 42.93 | 26 |
| SB5-2040 H | | | 20 | B3 | 20 | 80 | 100 | 112.03 | 140 | 68.92 | 43.01 | 35 |
| SB6-4020 H | | *m*6 | 40 | B5 | 25 | 85 | 240 | 243.52 | 105 | 65.05 | 48.52 | 28 |
| SB6-2040 H | | | 20 | B3 | 25 | 90 | 120 | 134.44 | 160 | 78.16 | 43.6 | 32.5 |
| SBY8-4020 H | | *m*8 | 40 | BT | 35 | 180 | 320 | 324.69 | 130 | 75.36 | 54.69 | 25 |
| SBY8-2040 H | | | 20 | B3 | 30 | 120 | 160 | 179.25 | 210 | 98 | 54.81 | 40 |

| 孔长 | 齿宽 | 支撑面直径 | 容许转矩 | | | | | | 侧隙 (mm) | 质量 (kg) | 产品型号 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 弯曲强度 | | 齿面强度 | | 齿面强度 H | | | | |
| I | J | K | N・m | kgf・m | N・m | kgf・m | N・m | kgf・m | | | |
| 16 | 9 | 27.37 | 5.82 | 0.59 | 0.65 | 0.07 | 2.78 | 0.28 | 0.05~0.15 | 0.12 | SB1.5-3020 H |
| 17 | | 17.05 | 4.04 | 0.41 | 0.44 | 0.04 | 1.86 | 0.19 | | 0.063 | SB1.5-2030 H |
| 23 | 11 | 37.56 | 13.1 | 1.33 | 1.52 | 0.16 | 6.37 | 0.65 | 0.06~0.16 | 0.26 | SB2-3020 H |
| 22 | | 21.34 | 9.07 | 0.92 | 1.01 | 0.10 | 4.25 | 0.43 | | 0.14 | SB2-2030 H |
| 30 | 15 | 45.61 | 26.9 | 2.75 | 3.21 | 0.33 | 13.3 | 1.36 | 0.07~0.17 | 0.55 | SB2.5-3020 H |
| 28 | | 27.42 | 18.7 | 1.91 | 2.14 | 0.22 | 8.86 | 0.90 | | 0.25 | SB2.5-2030 H |
| 31 | 17 | 57.14 | 44.9 | 4.58 | 5.45 | 0.56 | 22.4 | 2.29 | 0.08~0.18 | 0.83 | SB3-3020 H |
| 37 | | 34.71 | 31.2 | 3.18 | 3.63 | 0.37 | 14.9 | 1.52 | | 0.50 | SB3-2030 H |
| 40 | 20 | 78.59 | 98.2 | 10.0 | 12.3 | 1.25 | 49.8 | 5.07 | 0.12~0.27 | 1.91 | SB4-3020 H |
| 43 | | 46.89 | 68.1 | 6.95 | 8.20 | 0.84 | 33.2 | 3.38 | | 1.10 | SB4-2030 H |
| 50 | 30 | 91.22 | 215 | 22.0 | 27.6 | 2.81 | 110 | 11.2 | 0.14~0.34 | 4.13 | SB5-3020 H |
| 56 | | 54.83 | 150 | 15.3 | 18.4 | 1.87 | 73.5 | 7.49 | | 2.34 | SB5-2030 H |
| 15 | 8 | 28.36 | 5.02 | 0.51 | 0.47 | 0.05 | 2.02 | 0.21 | 0.05~0.15 | 0.10 | SB1.5-3015 H |
| 15.5 | | 10.72 | 2.60 | 0.26 | 0.24 | 0.02 | 1.01 | 0.10 | | 0.028 | SB1.5-1530 H |
| 18 | 11 | 37.4 | 12.1 | 1.24 | 1.18 | 0.12 | 4.96 | 0.51 | 0.06~0.16 | 0.21 | SB2-3015 H |
| 19 | | 16.81 | 6.28 | 0.64 | 0.59 | 0.06 | 2.48 | 0.25 | | 0.064 | SB2-1530 H |
| 24 | 15 | 44.21 | 24.9 | 2.54 | 2.48 | 0.25 | 10.3 | 1.05 | 0.07~0.17 | 0.41 | SB2.5-3015 H |
| 29 | | 16.42 | 12.9 | 1.32 | 1.24 | 0.13 | 5.16 | 0.53 | | 0.15 | SB2.5-1530 H |
| 30 | 20 | 47.78 | 45.6 | 4.65 | 4.60 | 0.47 | 19.1 | 1.94 | 0.08~0.18 | 0.83 | SB3-3015 H |
| 41 | | 19.56 | 23.6 | 2.41 | 2.30 | 0.23 | 9.53 | 0.97 | | 0.31 | SB3-1530 H |
| 36 | 25 | 70.1 | 104 | 10.7 | 10.9 | 1.11 | 44.4 | 4.53 | 0.12~0.27 | 1.64 | SB4-3015 H |
| 46 | | 32.2 | 54.0 | 5.51 | 5.43 | 0.55 | 22.2 | 2.26 | | 0.66 | SB4-1530 H |
| 48 | 30 | 90.41 | 199 | 20.3 | 21.3 | 2.17 | 85.7 | 8.74 | 0.14~0.34 | 2.72 | SB5-3015 H |
| 58 | | 32.83 | 103 | 10.5 | 10.6 | 1.09 | 42.9 | 4.37 | | 1.28 | SB5-1530 H |
| 57 | 35 | 109.74 | 336 | 34.2 | 36.9 | 3.77 | 147 | 15.0 | 0.16~0.36 | 4.75 | SB6-3015 H |
| 63 | | 45.47 | 174 | 17.7 | 18.5 | 1.88 | 73.5 | 7.50 | | 1.94 | SB6-1530 H |
| 24 | 16 | 57.72 | 35.9 | 3.66 | 4.08 | 0.42 | 16.8 | 1.72 | 0.07~0.17 | 0.72 | SB2.5-3618 H |
| 32 | | 25.44 | 18.1 | 1.84 | 2.04 | 0.21 | 8.42 | 0.86 | | 0.27 | SB2.5-1836 H |
| 30 | 20 | 68.28 | 63.7 | 6.49 | 7.34 | 0.75 | 30.1 | 3.07 | 0.08~0.18 | 1.15 | SB3-3618 H |
| 37 | | 28.56 | 32.0 | 3.27 | 3.67 | 0.37 | 15.1 | 1.54 | | 0.44 | SB3-1836 H |
| 42 | 26 | 91.86 | 149 | 15.2 | 17.7 | 1.80 | 71.3 | 7.27 | 0.12~0.27 | 2.66 | SB4-3618 H |
| 49 | | 39.72 | 74.8 | 7.62 | 8.85 | 0.90 | 35.7 | 3.64 | | 1.04 | SB4-1836 H |
| 12 | 6 | 26.58 | 2.61 | 0.27 | 0.29 | 0.03 | 1.26 | 0.13 | 0.03~0.13 | 0.068 | SB1-4020 H |
| 12 | | 9.17 | 1.32 | 0.13 | 0.15 | 0.02 | 0.63 | 0.065 | | 0.019 | SB1-2040 H |
| 16 | 8 | 33.61 | 5.33 | 0.54 | 0.61 | 0.06 | 2.61 | 0.27 | 0.04~0.14 | 0.14 | SB1.25-4020 H |
| 17 | | 13.22 | 2.69 | 0.27 | 0.31 | 0.03 | 1.30 | 0.13 | | 0.046 | SB1.25-2040 H |
| 22 | 10 | 39.64 | 9.47 | 0.97 | 1.11 | 0.11 | 4.68 | 0.48 | 0.05~0.15 | 0.27 | SB1.5-4020 H |
| 24 | | 17.28 | 4.77 | 0.49 | 0.56 | 0.06 | 2.34 | 0.24 | | 0.089 | SB1.5-2040 H |
| 27 | 15 | 48.46 | 24.2 | 2.46 | 2.92 | 0.30 | 12.1 | 1.24 | 0.06~0.16 | 0.51 | SB2-4020 H |
| 32 | | 20.92 | 12.2 | 1.24 | 1.46 | 0.15 | 6.06 | 0.62 | | 0.19 | SB2-2040 H |
| 35 | 20 | 60.28 | 49.0 | 4.99 | 6.04 | 0.62 | 24.9 | 2.54 | 0.07~0.17 | 1.09 | SB2.5-4020 H |
| 41 | | 24.56 | 24.7 | 2.52 | 3.02 | 0.31 | 12.4 | 1.27 | | 0.40 | SB2.5-2040 H |
| 38 | 22 | 73.81 | 80.4 | 8.20 | 10.1 | 1.03 | 41.3 | 4.21 | 0.08~0.18 | 1.68 | SB3-4020 H |
| 47 | | 29.61 | 40.5 | 4.13 | 5.06 | 0.52 | 20.6 | 2.11 | | 0.70 | SB3-2040 H |
| 45 | 28 | 102.39 | 185 | 18.9 | 24.1 | 2.46 | 96.5 | 9.84 | 0.12~0.27 | 3.34 | SB4-4020 H |
| 62 | | 42.78 | 93.3 | 9.51 | 12.0 | 1.23 | 48.2 | 4.92 | | 1.47 | SB4-2040 H |
| 50 | 30 | 138.92 | 327 | 33.3 | 43.9 | 4.47 | 172 | 17.5 | 0.14~0.34 | 5.63 | SB5-4020 H |
| 63 | | 57.84 | 165 | 16.8 | 21.9 | 2.24 | 86.0 | 8.77 | | 2.67 | SB5-2040 H |
| 58 | 40 | 158.56 | 600 | 61.2 | 83.2 | 8.48 | 321 | 32.8 | 0.16~0.36 | 7.77 | SB6-4020 H |
| 70 | | 61.11 | 302 | 30.8 | 41.6 | 4.24 | 161 | 16.4 | | 4.08 | SB6-2040 H |
| 61 | 50 | 219.2 | 1350 | 138 | 196 | 20.0 | 739 | 75.4 | 0.20~0.45 | 25.75 | SBY8-4020 H |
| 90 | | 96.39 | 679 | 69.3 | 98.1 | 10.0 | 370 | 37.7 | | 9.41 | SBY8-2040 H |

※ 产品特性注意事项、追加工注意事项请参考第 360 页。

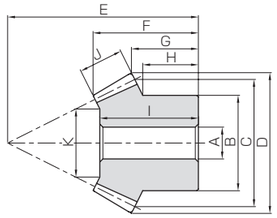
| 产品型号 | L(mm) | 螺孔尺寸 |
|---|---|---|
| SBY8-4020 | 160 | M10 深度 20 |

左记产品，为了吊运方便，支撑面上钻有螺孔 (180° 位置 2 个)。

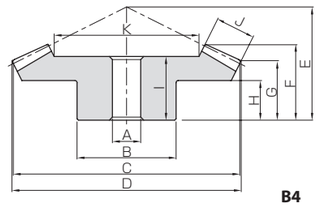
产品注意事项 → 第 338 页　规格追加工产品注意事项 → 第 38 ～ 40 页

| 共通规格 | |
|---|---|
| 精度等级 | JIS B 1704：1978 3级 |
| 齿形 | 格里森 |
| 压力角 | 20° |
| 材料 | S45C |
| 热处理 | — |
| 齿面硬度 | (194HB 以下) |
| 表面处理 | 黑色表面氧化 |

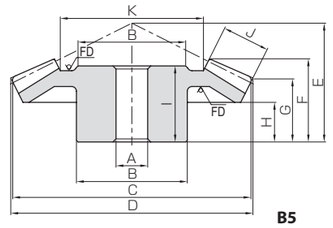
淬



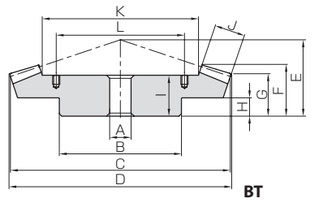
B3



B4



B5



BT

＊ FD 是锻造加工面。

淬火＋产品型号为标准品型号 +H。　　例：SB1-4518H

| 产品型号 | 齿数比 | 模数 | 齿数 | 形状 | 孔径 $A_{H7}$ | 轮毂径 B | 分度圆直径 C | 齿顶圆直径 D | 组装距离 E | 全长 F | 齿顶距离 G | 轮毂长 H |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **SB1-4518** | 2.5 | *m*1 | 45 | B4 | 8 | 30 | 45 | 45.46 | 23 | 16.95 | 14.57 | 10 |
| **SB1-1845** | | | 18 | B3 | 6 | 15 | 18 | 20.57 | 32 | 16.34 | 10.02 | 8.9 |
| **SB1.5-4518** | | *m*1.5 | 45 | B4 | 10 | 36 | 67.5 | 68.18 | 30 | 21.1 | 17.35 | 10 |
| **SB1.5-1845** | | | 18 | B3 | 8 | 23 | 27 | 30.86 | 45 | 21.97 | 12.02 | 10.45 |
| **SB2-4518** | | *m*2 | 45 | B4 | 12 | 48 | 90 | 90.91 | 40 | 27.91 | 23.14 | 15 |
| **SB2-1845** | | | 18 | B3 | 10 | 32 | 36 | 41.15 | 60 | 28.69 | 16.03 | 14.2 |
| **SB2.5-4518** | | *m*2.5 | 45 | B4 | 15 | 55 | 112.5 | 113.64 | 50 | 35.06 | 28.92 | 18 |
| **SB2.5-1845** | | | 18 | B3 | 12 | 40 | 45 | 51.44 | 72 | 33.31 | 17.04 | 14.75 |
| **SB3-4518** | | *m*3 | 45 | B4 | 20 | 65 | 135 | 136.37 | 60 | 41.86 | 34.71 | 22 |
| **SB3-1845** | | | 18 | B3 | 16 | 48 | 54 | 61.72 | 85 | 38.04 | 19.05 | 16.3 |
| **SB4-4518** | | *m*4 | 45 | B4 | 20 | 80 | 180 | 181.82 | 75 | 51.16 | 41.28 | 24 |
| **SB4-1845** | | | 18 | B3 | 20 | 62 | 72 | 82.3 | 110 | 48.28 | 22.06 | 18 |
| **SB5-4518** | | *m*5 | 45 | B4 | 25 | 100 | 225 | 227.28 | 90 | 59.43 | 47.85 | 28 |
| **SB5-1845** | | | 18 | B3 | 20 | 80 | 90 | 102.87 | 135 | 55.82 | 25.07 | 20.5 |
| **SB1-4515** | 3 | *m*1 | 45 | B4 | 8 | 30 | 45 | 45.37 | 17 | 11.77 | 10.06 | 5 |
| **SB1-1545** | | | 15 | B3 | 6 | 12 | 15 | 17.67 | 29 | 12.51 | 6.95 | 6 |
| **SB1.25-4515** | | *m*1.25 | 45 | B4 | 10 | 34 | 56.25 | 56.72 | 21 | 14.61 | 12.33 | 6 |
| **SB1.25-1545** | | | 15 | B3 | 8 | 15 | 18.75 | 22.09 | 36 | 15.85 | 8.43 | 7.25 |
| **SB1.5-4515** | | *m*1.5 | 45 | B4 | 10 | 36 | 67.5 | 68.06 | 28 | 20.44 | 17.59 | 11 |
| **SB1.5-1545** | | | 15 | B3 | 8 | 18 | 22.5 | 26.54 | 47 | 23.19 | 13.92 | 12.5 |
| **SB2-4515** | | *m*2 | 45 | B4 | 12 | 40 | 90 | 90.75 | 40 | 30.4 | 26.12 | 17 |
| **SB2-1545** | | | 15 | B3 | 10 | 24 | 30 | 35.35 | 60 | 29.8 | 15.89 | 14 |
| **SB2.5-4515** | | *m*2.5 | 45 | B4 | 15 | 50 | 112.5 | 113.43 | 50 | 38.35 | 32.65 | 22 |
| **SB2.5-1545** | | | 15 | B3 | 12 | 30 | 37.5 | 44.18 | 75 | 38.41 | 19.86 | 17.5 |
| **SB3-4515** | | *m*3 | 45 | B4 | 20 | 60 | 135 | 136.12 | 55 | 40.74 | 34.18 | 20 |
| **SB3-1545** | | | 15 | B3 | 15 | 38 | 45 | 53.02 | 90 | 45.17 | 23.84 | 21.33 |
| **SB4-4515** | | *m*4 | 45 | B5 | 20 | 80 | 180 | 181.5 | 70 | 50.79 | 42.24 | 24 |
| **SB4-1545** | | | 15 | B3 | 16 | 50 | 60 | 70.69 | 115 | 54.6 | 26.78 | 23.33 |
| **SB5-4515** | | *m*5 | 45 | B5 | 25 | 90 | 225 | 226.87 | 75 | 50.28 | 40.3 | 20 |
| **SB5-1545** | | | 15 | B3 | 20 | 60 | 75 | 88.37 | 145 | 67.19 | 34.73 | 30 |
| **SB6-4515** | | *m*6 | 45 | BT | 30 | 160 | 270 | 272.24 | 100 | 72.62 | 58.36 | 30 |
| **SB6-1545** | | | 15 | B3 | 25 | 70 | 90 | 106.03 | 175 | 89.04 | 42.67 | 36.67 |
| **SBY8-4515** | | *m*8 | 45 | BT | 35 | 200 | 360 | 362.99 | 125 | 83.74 | 69.49 | 30 |
| **SBY8-1545** | | | 15 | B3 | 30 | 100 | 120 | 141.39 | 230 | 99.93 | 53.56 | 46.67 |

〔产品特性注意事项〕 ①“BT”形状的产品因为吊装方便等原因，在支撑面上加工有螺孔。L 尺寸和螺孔尺寸请参考右表。
〔追加工注意事项〕 ①淬火＋(H 系列和 HJ 系列)的详细内容请参考第 22 页。

| 孔长 I | 齿宽 J | 支撑面直径 K | 容许转矩 弯曲强度 N·m | 弯曲强度 kgf·m | 齿面强度 N·m | 齿面强度 kgf·m | 齿面强度(H) N·m | 齿面强度(H) kgf·m | 侧隙 (mm) | 质量 (kg) | 产品型号 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | 7 | 30.73 | 3.35 | 0.34 | 0.35 | 0.04 | 1.52 | 0.15 | 0.03~0.13 | 0.11 | **SB1-4518** |
| 15.5 | | 10.31 | 1.33 | 0.14 | 0.14 | 0.01 | 0.61 | 0.062 | | 0.019 | **SB1-1845** |
| 18 | 11 | 45 | 11.7 | 1.19 | 1.29 | 0.13 | 5.39 | 0.55 | 0.05~0.15 | 0.28 | **SB1.5-4518** |
| 21 | | 16.51 | 4.64 | 0.47 | 0.51 | 0.05 | 2.16 | 0.22 | | 0.063 | **SB1.5-1845** |
| 25 | 14 | 62.24 | 26.8 | 2.74 | 3.05 | 0.31 | 12.6 | 1.29 | 0.06~0.16 | 0.65 | **SB2-4518** |
| 27.5 | | 23.11 | 10.7 | 1.09 | 1.22 | 0.12 | 5.05 | 0.52 | | 0.16 | **SB2-1845** |
| 31 | 18 | 76.53 | 53.4 | 5.44 | 6.20 | 0.63 | 25.4 | 2.59 | 0.07~0.17 | 1.23 | **SB2.5-4518** |
| 31.5 | | 26.82 | 21.2 | 2.16 | 2.48 | 0.25 | 10.2 | 1.04 | | 0.28 | **SB2.5-1845** |
| 37 | 21 | 92.96 | 90.5 | 9.23 | 10.7 | 1.09 | 43.5 | 4.44 | 0.08~0.18 | 2.05 | **SB3-4518** |
| 36 | | 33.41 | 36.0 | 3.67 | 4.29 | 0.44 | 17.4 | 1.78 | | 0.46 | **SB3-1845** |
| 45 | 29 | 122.33 | 220 | 22.4 | 26.8 | 2.73 | 107 | 10.9 | 0.12~0.27 | 4.69 | **SB4-4518** |
| 46 | | 45.83 | 87.3 | 8.91 | 10.7 | 1.09 | 42.8 | 4.37 | | 1.01 | **SB4-1845** |
| 51 | 34 | 156.56 | 411 | 41.9 | 51.8 | 5.28 | 202 | 20.6 | 0.14~0.34 | 8.31 | **SB5-4518** |
| 52.5 | | 56.9 | 164 | 16.7 | 20.7 | 2.11 | 81.0 | 8.26 | | 1.95 | **SB5-1845** |
| 9 | 6 | 32.02 | 2.84 | 0.29 | 0.27 | 0.027 | 1.15 | 0.12 | 0.03~0.13 | 0.078 | **SB1-4515** |
| 12 | | 10.05 | 0.98 | 0.10 | 0.09 | 0.0091 | 0.38 | 0.039 | | 0.095 | **SB1-1545** |
| 12 | 8 | 39.63 | 5.80 | 0.59 | 0.56 | 0.057 | 2.38 | 0.24 | 0.04~0.14 | 0.15 | **SB1.25-4515** |
| 15 | | 10.9 | 2.00 | 0.20 | 0.19 | 0.019 | 0.79 | 0.081 | | 0.018 | **SB1.25-1545** |
| 17 | 10 | 46.58 | 10.3 | 1.05 | 1.02 | 0.10 | 4.27 | 0.44 | 0.05~0.15 | 0.25 | **SB1.5-4515** |
| 22.5 | | 14.75 | 3.56 | 0.36 | 0.34 | 0.035 | 1.42 | 0.15 | | 0.041 | **SB1.5-1545** |
| 26 | 15 | 59.04 | 26.4 | 2.69 | 2.68 | 0.27 | 11.1 | 1.13 | 0.06~0.16 | 0.60 | **SB2-4515** |
| 29 | | 19.13 | 9.10 | 0.93 | 0.89 | 0.091 | 3.70 | 0.38 | | 0.096 | **SB2-1545** |
| 35 | 20 | 72.84 | 53.6 | 5.46 | 5.55 | 0.57 | 22.8 | 2.33 | 0.07~0.17 | 1.22 | **SB2.5-4515** |
| 37 | | 20.51 | 18.5 | 1.89 | 1.85 | 0.19 | 7.61 | 0.78 | | 0.19 | **SB2.5-1545** |
| 35 | 23 | 88.18 | 90.2 | 9.20 | 9.53 | 0.97 | 38.9 | 3.96 | 0.08~0.18 | 1.99 | **SB3-4515** |
| 43 | | 22.53 | 31.2 | 3.18 | 3.18 | 0.32 | 13.0 | 1.32 | | 0.34 | **SB3-1545** |
| 45 | 30 | 118.09 | 211 | 21.5 | 23.0 | 2.35 | 92.1 | 9.40 | 0.12~0.27 | 3.89 | **SB4-4515** |
| 52 | | 32.26 | 72.8 | 7.43 | 7.67 | 0.78 | 30.7 | 3.13 | | 0.77 | **SB4-1545** |
| 44 | 35 | 152.88 | 394 | 40.2 | 44.3 | 4.52 | 174 | 17.7 | 0.14~0.34 | 6.10 | **SB5-4515** |
| 65 | | 48.64 | 136 | 13.9 | 14.8 | 1.51 | 58.0 | 5.91 | | 1.46 | **SB5-1545** |
| 62 | 50 | 169.26 | 751 | 76.6 | 87.0 | 8.87 | 337 | 34.3 | 0.16~0.36 | 18.0 | **SB6-4515** |
| 86 | | 49.77 | 259 | 26.4 | 39.9 | 4.06 | 112 | 11.4 | | 2.61 | **SB6-1545** |
| 67 | 50 | 255.92 | 1470 | 150 | 179 | 18.3 | 674 | 68.8 | 0.20~0.45 | 36.4 | **SBY8-4515** |
| 93 | | 61.77 | 506 | 51.6 | 59.7 | 6.09 | 225 | 22.9 | | 5.80 | **SBY8-1545** |

下表中的产品，为了吊运方便，支撑面上钻有螺孔(180°位置 2 个)。

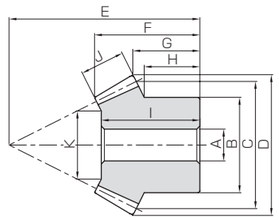
| 产品型号 | L(mm) | 螺孔尺寸 |
|---|---|---|
| **SB6-4515** | 130 | M10 深度 20 |
| **SBY8-4515** | 210 | M10 深度 20 |

产品注意事项 → 第 338 页　规格追加工产品注意事项 → 第 38～40 页

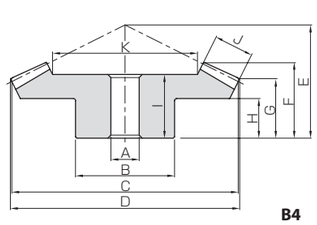
# SB·SBY 模数 1.5～6 锥齿轮 NEW

| 共通规格 | |
|---|---|
| 精度等级 | JIS B 1704：1978 3级 |
| 齿形 | 格里森 |
| 压力角 | 20° |
| 材料 | S45C |
| 热处理 | — |
| 齿面硬度 | (194HB 以下) |
| 表面处理 | 黑色表面氧化 |

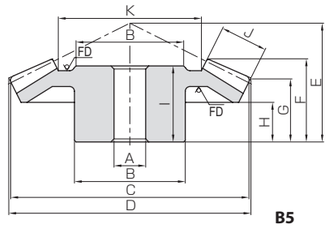
淬



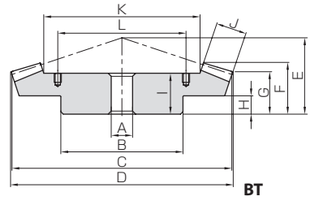

B3




B4




B5




BT

＊FD 是锻造加工面。

淬火＋产品型号为标准品型号 +H。　　例：SB1.5-6015H

| 产品型号 | 齿数比 | 模数 | 齿数 | 形状 | 孔径 | 轮毂径 | 分度圆直径 | 齿顶圆直径 | 组装距离 | 全长 | 齿顶距离 | 轮毂长 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | $A_{H7}$ | B | C | D | E | F | G | H |
| SB1.5-6015 H | 4 | *m*1.5 | 60 | B4 | 12 | 50 | 90 | 90.41 | 32 | 24.2 | 21.58 | 12 |
| SB1.5-1560 H | | | 15 | B3 | 8 | 18 | 22.5 | 26.66 | 56 | 23.01 | 11.52 | 10.43 |
| SB2-6015 H | | *m*2 | 60 | B4 | 15 | 60 | 120 | 120.55 | 42 | 31.6 | 28.1 | 16 |
| SB2-1560 H | | | 15 | B3 | 10 | 24 | 30 | 35.55 | 75 | 31.01 | 15.69 | 14.25 |
| SB2.5-6015 H | | *m*2.5 | 60 | B4 | 20 | 70 | 150 | 150.69 | 53 | 40 | 35.63 | 20 |
| SB2.5-1560 H | | | 15 | B3 | 12 | 30 | 37.5 | 44.44 | 94 | 39.02 | 19.87 | 18.06 |
| SB3-6015 H | | *m*3 | 60 | B4 | 20 | 80 | 180 | 180.83 | 64 | 47.97 | 43.15 | 25 |
| SB3-1560 H | | | 15 | B3 | 15 | 38 | 45 | 53.33 | 112 | 44.1 | 23.04 | 21.12 |
| SB4-6015 H | | *m*4 | 60 | B5 | 25 | 85 | 240 | 241.1 | 80 | 59.2 | 52.2 | 36 |
| SB4-1560 H | | | 15 | B3 | 16 | 50 | 60 | 71.1 | 150 | 62.03 | 31.4 | 28.75 |
| SBY5-6015 H | | *m*5 | 60 | BT | 30 | 180 | 300 | 301.36 | 80 | 53.97 | 45.22 | 20 |
| SBY5-1560 H | | | 15 | B3 | 25 | 60 | 75 | 88.9 | 185 | 75.03 | 36.74 | 33.13 |
| SBY6-6015 H | | *m*6 | 60 | BT | 35 | 200 | 360 | 361.66 | 100 | 68.16 | 58.31 | 25 |
| SBY6-1560 H | | | 15 | B3 | 25 | 90 | 106.66 | 220 | 85.17 | 42.08 | 38.13 | |

〔产品特性注意事项〕 ①“BT”形状的产品因为吊装方便等原因，在支撑面上加工有螺孔。L 尺寸和螺孔尺寸请参考右表。
〔追加工注意事项〕 ①淬火＋(H 系列和 HJ 系列) 的详细内容请参考第 22 页。

| 孔长 | 齿宽 | 支撑面直径 | 容许转矩 | | | | | | 侧隙 (mm) | 质量 (kg) | 产品型号 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 弯曲强度 | | 齿面强度 | | 齿面强度 H | | | | |
| I | J | K | N·m | kgf·m | N·m | kgf·m | N·m | kgf·m | | | |
| 21 | 12 | 65.38 | 17.3 | 1.77 | 1.75 | 0.18 | 7.28 | 0.74 | 0.05~0.15 | 0.62 | SB1.5-6015 H |
| 22.5 | | 15.54 | 4.46 | 0.45 | 0.44 | 0.045 | 1.82 | 0.19 | | 0.043 | SB1.5-1560 H |
| 27 | 16 | 87.02 | 41.3 | 4.21 | 4.30 | 0.44 | 17.5 | 1.79 | 0.06~0.16 | 1.35 | SB2-6015 H |
| 30 | | 18.06 | 10.6 | 1.08 | 1.07 | 0.11 | 4.38 | 0.45 | | 0.10 | SB2-1560 H |
| 34 | 20 | 108.64 | 80.2 | 8.18 | 8.54 | 0.87 | 34.6 | 3.53 | 0.07~0.17 | 2.51 | SB2.5-6015 H |
| 37.5 | | 20.57 | 20.6 | 2.10 | 2.13 | 0.22 | 8.66 | 0.88 | | 0.21 | SB2.5-1560 H |
| 41 | 22 | 134.4 | 130 | 13.3 | 14.2 | 1.44 | 56.8 | 5.79 | 0.08~0.18 | 4.16 | SB3-6015 H |
| 43 | | 31.58 | 33.5 | 3.42 | 3.54 | 0.36 | 14.2 | 1.45 | | 0.36 | SB3-1560 H |
| 53 | 32 | 174.03 | 328 | 33.5 | 37.0 | 3.77 | 145 | 14.8 | 0.12~0.27 | 6.00 | SB4-6015 H |
| 60 | | 36.12 | 84.5 | 8.62 | 9.24 | 0.94 | 36.2 | 3.70 | | 0.91 | SB4-1560 H |
| 45 | 40 | 218.79 | 642 | 65.4 | 74.4 | 7.59 | 286 | 29.1 | 0.14~0.34 | 17.5 | SBY5-6015 H |
| 73 | | 49.15 | 165 | 16.8 | 18.6 | 1.90 | 71.4 | 7.28 | | 1.58 | SBY5-1560 H |
| 56 | 45 | 267.73 | 1050 | 107 | 126 | 12.8 | 475 | 48.4 | 0.16~0.36 | 30.7 | SBY6-6015 H |
| 82 | | 54.92 | 270 | 27.5 | 31.5 | 3.21 | 119 | 12.1 | | 2.83 | SBY6-1560 H |

下表中的产品，为了吊运方便，支撑面上钻有螺孔 (180° 位置 2 个)。

| 产品型号 | L (mm) | 螺孔尺寸 |
|---|---|---|
| SBY5-6015 | 160 | M10 深度 20 |
| SBY6-6015 | 220 | M10 深度 20 |

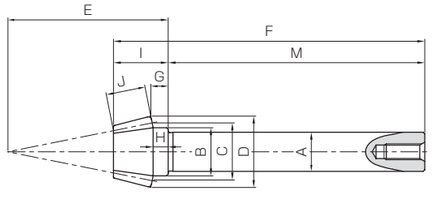


# SB 模数 1.5～3 锥齿轮轴 NEW

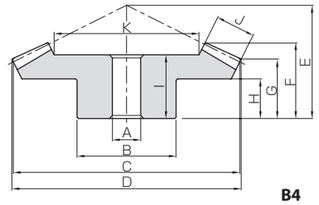
| 共通规格 | |
|---|---|
| 精度等级 | JIS B 1704：1978 3级 |
| 齿形 | 格里森 |
| 压力角 | 20° |
| 材料 | S45C |
| 热处理 | —＊ |
| 齿面硬度 | (194HB 以下)＊ |
| 表面处理 | 黑色表面氧化 |

＊B8 形状产品使用调质材料，齿面硬度为 200～270HB。

淬




B8




B4

淬火＋产品型号为标准品型号 +H。　　例：SB1.5-6012H

| 产品型号 | 齿数比 | 模数 | 齿数 | 形状 | 孔·轴径 | 轮毂径 | 分度圆直径 | 齿顶圆直径 | 组装距离 | 全长 | 齿顶距离 | 轮毂长 | 孔·轴长 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | $A_{H7}$(孔) $A_{h7}$(轴) | B | C | D | E | F | G | H | I |
| SB1.5-6012 H | 5 | *m*1.5 | 60 | B4 | 12 | 50 | 90 | 90.33 | 30 | 23.89 | 21.82 | 12 | 21 |
| SB1.5-1260 H | | | 12 | B8 | 12.2 | 15 | 18 | 22.24 | 50 | 97.06 | 5.42 | 4.7 | 17.06 |
| SB2-6012 H | | *m*2 | 60 | B4 | 15 | 60 | 120 | 120.43 | 40 | 31.85 | 29.09 | 16 | 27 |
| SB2-1260 H | | | 12 | B8 | 15.2 | 20 | 24 | 29.65 | 66 | 117.08 | 6.56 | 5.6 | 22.08 |
| SB2.5-6012 H | | *m*2.5 | 60 | B4 | 20 | 70 | 150 | 150.54 | 50 | 39.81 | 36.36 | 20 | 34 |
| SB2.5-1260 H | | | 12 | B8 | 20.2 | 25 | 30 | 37.06 | 83 | 143.1 | 8.7 | 7.5 | 28.1 |
| SB3-6012 H | | *m*3 | 60 | B4 | 20 | 80 | 180 | 180.65 | 60 | 47.43 | 43.64 | 25 | 41 |
| SB3-1260 H | | | 12 | B8 | 25.25 | 30 | 36 | 44.48 | 100 | 172.19 | 10.85 | 9.4 | 32.19 |

〔追加工注意事项〕 ①淬火＋(H 系列和 HJ 系列) 的详细内容请参考第 22 页。

| 齿宽 | 支撑面直径 | 轴长 | 螺孔尺寸 | 容许转矩 | | | | | | 侧隙 (mm) | 质量 (kg) | 产品型号 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 弯曲强度 | | 齿面强度 | | 齿面强度 H | | | | |
| J | K | M | | N·m | kgf·m | N·m | kgf·m | N·m | kgf·m | | | |
| 12 | 65.52 | — | — | 18.0 | 1.83 | 1.41 | 0.14 | 5.85 | 0.60 | 0.05~0.15 | 0.62 | SB1.5-6012 H |
| | — | 80 | M5 | 4.01 | 0.41 | 0.46 | 0.047 | 1.17 | 0.12 | | 0.097 | SB1.5-1260 H |
| 16 | 86.96 | — | — | 42.6 | 4.34 | 3.43 | 0.35 | 14.1 | 1.44 | 0.06~0.16 | 1.34 | SB2-6012 H |
| | — | 95 | M6 | 9.50 | 0.97 | 1.12 | 0.11 | 2.82 | 0.29 | | 0.19 | SB2-1260 H |
| 20 | 108.8 | — | — | 83.2 | 8.48 | 6.85 | 0.70 | 27.9 | 2.84 | 0.07~0.17 | 2.54 | SB2.5-6012 H |
| | — | 115 | M8 | 18.5 | 1.89 | 2.23 | 0.23 | 5.57 | 0.57 | | 0.40 | SB2.5-1260 H |
| 22 | 134.73 | — | — | 135 | 13.8 | 11.4 | 1.16 | 45.7 | 4.66 | 0.08~0.18 | 4.18 | SB3-6012 H |
| | — | 140 | M8 | 30.1 | 3.07 | 3.70 | 0.38 | 9.13 | 0.93 | | 0.74 | SB3-1260 H |

产品注意事项 → 第 338 页　　规格追加工产品注意事项 → 第 38～40 页



可访问网站进行咨询！