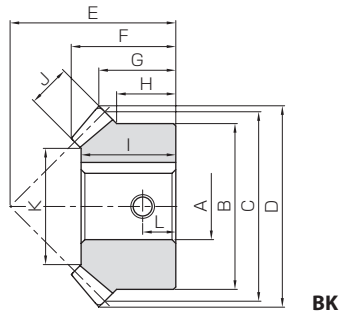
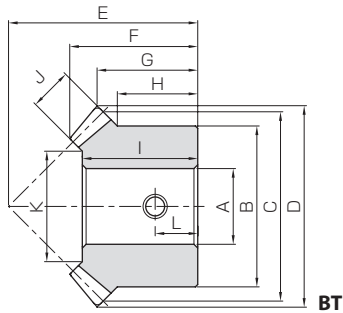




| 共 通 规 格 |                       |
|---------|-----------------------|
| 精度等级    | JIS B 1704 : 1978 4 级 |
| 齿 形     | 格里森                   |
| 压 力 角   | 20°                   |
| 螺 旋 角   | —                     |
| 材 料     | S45C                  |
| 热 处 理   | 齿面高频淬火*               |
| 齿面硬度    | 50 ~ 60HRC            |
| 表 面 处 理 | 黑色表面氧化                |

\* 因为齿面经过高频淬火处理，轮齿及齿根附近 (2 ~ 3mm 左右) 不能进行追加加工。



| 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       | 孔长          |
|-------------------------------|-----|------------|----|----------|-----------------|----------|------------|----------------|----------|----------------|----------------|-----------|-------------|
|                               |     |            |    |          | A <sub>H7</sub> | B        | C          | D              | E        | F              | G              | H         | I           |
| SMA1-20<br>SMB1-20            | 1   | m1         | 20 | BT       | 8<br>10         | 16       | 20         | 21.41          | 20       | 13.95          | 10.71          | 8         | 12<br>12.07 |
| SMA1.5-20<br>SMB1.5-20        |     | m1.5       |    | BT<br>BK | 10<br>12        | 26       | 30         | 32.12          | 30       | 21.24          | 16.06          | 13        | 19          |
| SMA2-20<br>SMB2-20            |     | m2         |    | BK       | 14<br>15        | 34       | 40         | 42.83          | 37       | 24.89          | 18.41          | 14        | 22          |
| SMA2.5-20<br>SMB2.5-20        |     | m2.5       |    |          | 18<br>20        | 42       | 50         | 53.54          | 48       | 32.54          | 24.77          | 19        | 29          |
| SMA3-20<br>SMB3-20<br>SMC3-20 |     | m3         |    |          | 22<br>25<br>20  | 50       | 60         | 64.24          | 58       | 39.84          | 30.12          | 23        | 35          |
| SMA4-20<br>SMB4-20<br>SMC4-20 |     | m4         |    |          | 30<br>32<br>25  | 64       | 80         | 85.65          | 75       | 50.78          | 37.83          | 27        | 45          |
| SMA5-20<br>SMB5-20<br>SMC5-20 |     | m5         |    |          | 40<br>30<br>35  | 80       | 100        | 107.07         | 90       | 60.38          | 43.54          | 30        | 54          |
| SMA1-25<br>SMA1.5-25          | 1   | m1<br>m1.5 | 25 | BT       | 10<br>12        | 20<br>30 | 25<br>37.5 | 26.41<br>39.62 | 23<br>34 | 15.16<br>22.25 | 11.21<br>16.31 | 8<br>11.5 | 14<br>19    |
| SMA2-25<br>SMB2-25            |     | m2         |    | BK       | 18<br>15        | 40       | 50         | 52.83          | 40       | 24.33          | 16.41          | 10        | 20          |
| SMA2.5-25<br>SMB2.5-25        |     | m2.5       |    |          | 20<br>18        | 50       | 62.5       | 66.04          | 50       | 30.41          | 20.52          | 12.5      | 26          |
| SMA3-25<br>SMB3-25            |     | m3         |    |          | 30<br>25        | 60       | 75         | 79.24          | 60       | 37.81          | 24.62          | 15        | 32          |
| SMA4-25<br>SMB4-25            |     | m4         |    |          | 35<br>30        | 80       | 100        | 105.66         | 80       | 49.32          | 32.83          | 20        | 43          |
| SMA5-25                       |     | m5         |    |          | 50              | 100      | 125        | 132.07         | 100      | 60.82          | 41.04          | 25        | 50          |
| SMA1-30<br>SMA1.5-30          |     | m1<br>m1.5 | 30 | BK       | 12<br>15        | 24<br>36 | 30<br>45   | 31.41<br>47.12 | 28<br>43 | 17.71<br>28.24 | 13.71<br>21.56 | 10<br>16  | 16<br>25    |
| SMA2-30<br>SMB2-30            |     | m2         |    |          | 20<br>15        | 45       | 60         | 62.83          | 50       | 29.42          | 21.41          | 12.5      | 25          |
| SMA2.5-30<br>SMB2.5-30        |     | m2.5       |    |          | 25<br>20        | 60       | 75         | 78.54          | 62       | 36.28          | 26.27          | 17        | 32          |
| SMA3-30<br>SMB3-30            |     | m3         |    |          | 32<br>25        | 70       | 90         | 94.24          | 75       | 45.47          | 32.12          | 20        | 40          |
| SMA4-30<br>SMB4-30            |     | m4         |    |          | 40<br>30        | 100      | 120        | 125.66         | 95       | 54.52          | 37.83          | 25        | 50          |
| SMA5-30                       |     | m5         |    |          | 55              | 130      | 150        | 157.07         | 120      | 68.56          | 48.54          | 35        | 62          |

[产品特性注意事项] ①带\*的键槽尺寸(深度)为旧 JIS 标准。  
对于某些孔径，带\*\*的键槽尺寸与 JIS 标准不同。

| 齿宽 | 支撑面直径      | 键槽<br>宽度×深度                       | 螺孔             |      | 容许转矩 (N · m) |      | 容许转矩 (kgf · m) |       | 侧隙<br>(mm) | 质量<br>(kg)           | 产品型号                          |
|----|------------|-----------------------------------|----------------|------|--------------|------|----------------|-------|------------|----------------------|-------------------------------|
|    |            |                                   | 尺寸             | L    | 弯曲强度         | 齿面强度 | 弯曲强度           | 齿面强度  |            |                      |                               |
| J  | K          |                                   |                |      |              |      |                |       |            |                      |                               |
| 5  | 9.86<br>10 | —<br>—                            | M4             | 4    | 0.90         | 0.37 | 0.091          | 0.038 | 0.03~0.13  | 0.016<br>0.014       | SMA1-20<br>SMB1-20            |
| 8  | 15.37      | —<br>4 x 1.8                      | M4<br>M5       | 6.5  | 3.13         | 1.31 | 0.32           | 0.13  | 0.05~0.15  | 0.069<br>0.06        | SMA1.5-20<br>SMB1.5-20        |
| 10 | 21.72      | 5 x 2.3<br>5 x 2.3                | M5             | 7    | 7.17         | 3.05 | 0.73           | 0.31  | 0.06~0.16  | 0.14<br>0.13         | SMA2-20<br>SMB2-20            |
| 12 | 28.06      | 5 x 2.3**<br>6 x 2.8              | M6             | 9.5  | 13.7         | 5.90 | 1.39           | 0.60  | 0.07~0.17  | 0.27<br>0.26         | SMA2.5-20<br>SMB2.5-20        |
| 15 | 31.57      | 7 x 3*<br>7 x 3*<br>6 x 2.8       | M6<br>M8<br>M6 | 11.5 | 24.2         | 10.5 | 2.47           | 1.08  | 0.08~0.18  | 0.47<br>0.44<br>0.49 | SMA3-20<br>SMB3-20<br>SMC3-20 |
| 20 | 43.43      | 7 x 3*<br>10 x 3.3<br>8 x 3.3     | M8             | 13.5 | 57.3         | 25.4 | 5.85           | 2.59  | 0.12~0.27  | 1.00<br>0.96<br>1.07 | SMA4-20<br>SMB4-20<br>SMC4-20 |
| 26 | 54.46      | 10 x 3.3**<br>8 x 3.3<br>10 x 3.3 | M8             | 15   | 114          | 51.3 | 11.7           | 5.23  | 0.14~0.34  | 1.80<br>2.04<br>1.93 | SMA5-20<br>SMB5-20<br>SMC5-20 |
| 6  | 15.03      | —                                 | M4             | 4    | 1.48         | 0.71 | 0.15           | 0.072 | 0.03~0.13  | 0.029                | SMA1-25                       |
| 9  | 19.54      | 4 x 1.8                           | M5             | 5.75 | 4.98         | 2.44 | 0.51           | 0.25  | 0.05~0.15  | 0.10                 | SMA1.5-25                     |
| 12 | 26.06      | 6 x 2.8<br>5 x 2.3                | M6<br>M5       | 5    | 11.8         | 5.90 | 1.20           | 0.60  | 0.06~0.16  | 0.19<br>0.20         | SMA2-25<br>SMB2-25            |
| 15 | 34.57      | 5 x 2.3**<br>6 x 2.8              | M6             | 6    | 23.1         | 11.7 | 2.35           | 1.19  | 0.07~0.17  | 0.39<br>0.40         | SMA2.5-25<br>SMB2.5-25        |
| 20 | 37.43      | 7 x 3*<br>8 x 3.3                 | M8             | 7.5  | 42.3         | 21.6 | 4.31           | 2.20  | 0.08~0.18  | 0.63<br>0.69         | SMA3-25<br>SMB3-25            |
| 25 | 55.29      | 10 x 3.3<br>8 x 3.3               | M8             | 10   | 96.8         | 50.2 | 9.87           | 5.12  | 0.12~0.27  | 1.59<br>1.68         | SMA4-25<br>SMB4-25            |
| 30 | 65.15      | 12 x 3.3**                        | M8             | 12.5 | 185          | 96.8 | 18.8           | 9.87  | 0.14~0.34  | 2.86                 | SMA5-25                       |
| 6  | 19.03      | 4 x 1.8                           | M5             | 5    | 2.00         | 1.11 | 0.20           | 0.11  | 0.03~0.13  | 0.047                | SMA1-30                       |
| 10 | 25.71      | 5 x 2.3                           | M5             | 8    | 7.22         | 4.08 | 0.74           | 0.42  | 0.05~0.15  | 0.19                 | SMA1.5-30                     |
| 12 | 36.06      | 6 x 2.8<br>5 x 2.3                | M6<br>M5       | 6.25 | 16.0         | 9.20 | 1.63           | 0.94  | 0.06~0.16  | 0.32<br>0.35         | SMA2-30<br>SMB2-30            |
| 15 | 47.57      | 8 x 3.3<br>6 x 2.8                | M8<br>M6       | 8.5  | 31.2         | 18.2 | 3.19           | 1.86  | 0.07~0.17  | 0.68<br>0.73         | SMA2.5-30<br>SMB2.5-30        |
| 20 | 53.43      | 10 x 3.3<br>8 x 3.3               | M8             | 10   | 57.8         | 34.0 | 5.89           | 3.46  | 0.08~0.18  | 1.15<br>1.25         | SMA3-30<br>SMB3-30            |
| 25 | 79.29      | 12 x 3.3<br>8 x 3.3               | M8             | 12.5 | 131          | 78.3 | 13.4           | 7.99  | 0.12~0.27  | 2.81<br>3.03         | SMA4-30<br>SMB4-30            |
| 30 | 99.15      | 16 x 4.3                          | M10            | 17.5 | 250          | 150  | 25.5           | 15.3  | 0.14~0.34  | 5.56                 | SMA5-30                       |