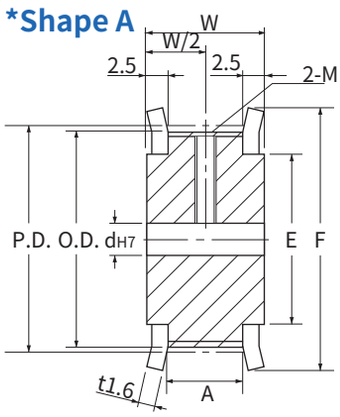
# S 5 M

# High Torque

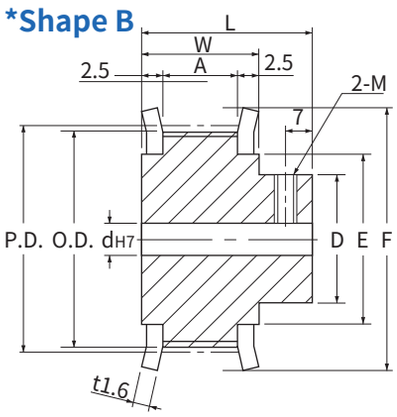
## Ex Order.(For detailed ordering examples, please refer to page 04.)

| Teeth Type | - | Shape | - | Material | - | Surface Treatment | - | Belt Width | - | Number of teeth | - | Processing project of shaft hole | - | Please refer to pages 05-06 for additional work item details. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S5M | | A | | AL | | WA | | 10 | | 14 | | H5 | | |
| S5M | | B | | CS | | BK | | 15 | | 15 | | F5 - Z7 - J2.0 | | |

## *Shape A




## *Shape B



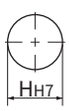
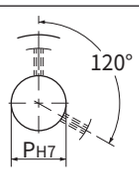
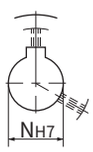
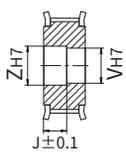
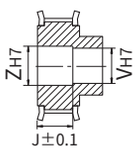
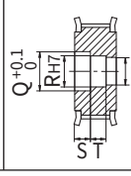
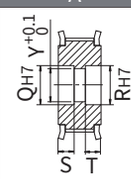
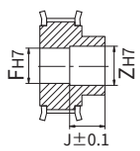

| Material | Surface Treatment |
|---|---|
| Aluminum AL | white anode WA |
| | Black anode BA |
| | Hard anode HA |
| | Electroless nickel NE |
| S45C CS | - |
| | Black oxide BK |
| | Electroless nickel NE |

*Hard anode to a film's hardness of 300HV～.
*A small part of the processed area may not have a surface treatment.

| Type | | | P.D. | | O.D. | | F | | E | | D |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Belt Width mm | Pulley Shape | Number of teeth | A Shape | B Shape | A Shape | B Shape | A Shape | B Shape | A Shape | B Shape | |
| 10 ※A:11 ※W:16 ※L:28 | A B | 14 | 22.28 | | 21.32 | | 26 | | 16 | | 14 |
| | | 15 | 23.87 | | 22.91 | | 28 | | 18 | | 15 |
| | | 16 | 25.46 | | 24.50 | | 32 | | 20 | | 17 |
| | | 18 | 28.65 | | 27.69 | | 33 | | 22 | | 19 |
| | | 19 | 30.24 | | 29.28 | | 36 | | 24 | | 19 |
| | | 20 | 31.83 | | 30.87 | | | | | | |
| | | 22 | 35.01 | | 34.05 | | 40 | | 27 | | 24 |
| | | 24 | 38.20 | | 37.24 | | 45 | | 30 | | 27 |
| | | 25 | 39.79 | | 38.83 | | | | | | |
| 15 ※A:17 ※W:22 ※L:34 | | 26 | 41.38 | | 40.42 | | 48 | | 35 | | 31 |
| | | 28 | 44.56 | | 43.60 | | 48 | | 35 | | 32 |
| | | 30 | 47.75 | | 46.79 | | 52 | | 36 | | 33 |
| | | 32 | 50.93 | | 49.97 | | 55 | | 40 | | 37 |
| | | 34 | 54.11 | | 53.15 | | 61 | | 45 | | 40 |
| | | 36 | 57.30 | | 56.34 | | | | | | |
| 25 ※A:27 ※W:32 ※L:44 | | 40 | 63.66 | | 62.70 | | 67 | | 50 | | 47 |
| | | 44 | 70.03 | | 69.07 | | 74 | | 58 | | 50 |
| | | 48 | 76.39 | | 75.43 | | 83 | | 63 | | 60 |
| | | 50 | 79.58 | | 78.62 | | 87 | | 67 | | 63 |
| | | 60 | 95.49 | | 94.53 | | 99 | | 80 | | 75 |
| | | 72 | 114.59 | | 113.63 | | 119 | | 100 | | 90 |

# Belt Width 10mm · 15mm · 25mm

**Shaft hole processing items (refer to P . 0.7 - 0.8 for keyway and grommet groove dimensions).**

| H Round hole | P Round hole + tapping | N(new JIS) C(old JIS) Keyway holes + tapping | V Neck hole | | WB Double neck holes | Y Both ends neck holes | F Neck hole (Hub Side Countersunk Hole) |
|---|---|---|---|---|---|---|---|
| | | | A | B | A | A | B |
|  |  |  |  |  |  |  |  |

**Accessory fixing screws for P, N, C-axis hole processing service.**

| Axis diameter | 2-M thick thread | Attachment Fixing Screws |
|---|---|---|
| 5 | M3 | M3X3 |
| 6~12 | M4 | M4X3 |
| 13~17 | M5 | M5X4 |
| 18~30 | M6 | M6X5 |
| 31~45 | M8 | M8X6 |
| 46~70 | M10 | M10X8 |

*Flanges are installed. Set screws are included with P, N & C bore hole specification.

*Tolerance of hole dimensions on the hub side and end faces is ±0.3.

*No tapped holes and set screws for H, V, Y, F, WB shaft holes.

*For H, P, V, F, the shaft hole diameter can be selected from 4.5, 6.35 as long as it is within the selection range.

*When the shaft hole specification is N, it is not possible to make the shaft hole diameter of 9, 51~54

*NK10 can also be selected within the range of options when the shaft hole specification is N.

*When the shaft hole specification is C, it is not possible to make shaft hole diameter of 8, 9, 11, 13, 14, 17, 21-55.

*Z-V ≥ 2 when the shaft hole specification is V.

*Q(R) - Y≥2 for Y shaft hole specification ; applicable to A-shape only.

*Q-R ≥ 2 and R-WB ≥ 2 for WB shaft hole specification; for A-shape only.

*Z−F≥2 for F shaft hole specification; for B-shape only.

**Shaft hole specifications (specified unit: 1mm).**

| Number of teeth | H Round hole | | P Round hole + tapping | | N(C) Keyway holes + tapping | | V・F Neck hole | | | | | | Y Both ends neck holes・WB Double neck holes | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | V | V・F | Z | | J (In units of 0.1mm.) | | Y・WB | Q・R | S・T (In units of 0.1mm.) |
| | A | B | A | B | A | B | A | B | A | B | A | B | A | A | A |
| 14 | 5~12 | 5~10 | 5~10 | 5~8 | 8・10・NK10 | - | 5~10 | 5~8 | 7~12 | 7~10 | 2.0≤J≤W-2.0 | 2.0≤J≤L-2.0 | 5~10 | 7~12 | 3.0~14.0<br>S+T≤W-3 |
| 15 | 5~14 | 5~11 | 5~10 | 5~8 | 8・10・NK10 | | 5~12 | 5~9 | 7~14 | 7~11 | | | 5~12 | 7~14 | |
| 16 | 5~16 | 5~13 | 5~12 | 5~10 | 8~12 | 8 | 5~14 | 5~11 | 7~16 | 7~13 | | | 5~14 | 7~16 | |
| 18 | 6~18 | 6~15 | 6~12 | 6~11 | 8~12 | 8・10・NK10 | 6~16 | 6~13 | 8~18 | 8~15 | | | 6~16 | 8~18 | |
| 19 | 6~20 | 6~15 | 6~16 | 6~11 | 8~16 | 8・10・NK10 | 6~18 | 6~13 | 8~20 | 8~15 | | | 6~18 | 8~20 | |
| 20 | 6~20 | 6~15 | 6~16 | 6~11 | 8~16 | 8・10・NK10 | 6~18 | 6~13 | 8~20 | 8~15 | | | 6~18 | 8~20 | |
| 22 | 7~23 | 7~20 | 7~18 | 7~16 | 8~18 | 8~12 | 7~21 | 7~18 | 9~23 | 9~20 | | | 7~21 | 9~23 | |
| 24 | 7~26 | 7~23 | 7~20 | 7~17 | 8~20 | 8~13 | 7~24 | 7~21 | 9~26 | 9~23 | | | 7~24 | 9~26 | |
| 25 | 7~26 | 7~23 | 7~20 | 7~17 | 8~20 | 8~15 | 7~24 | 7~21 | 9~26 | 9~23 | | | 7~24 | 9~26 | |
| 26 | 8~31 | 8~27 | 8~23 | 8~21 | 8~22 | 8~17 | 8~29 | 8~25 | 10~31 | 10~27 | | | 8~29 | 10~31 | |
| 28 | 8~31 | 8~28 | 8~24 | 8~22 | 8~24 | 8~18 | 8~29 | 8~26 | 10~31 | 10~28 | | | 8~29 | 10~31 | |
| 30 | 10~32 | 10~29 | 10~26 | 10~23 | 10~26 | 10~18 | 10~30 | 10~27 | 12~32 | 12~29 | | | 10~30 | 12~32 | |
| 32 | 10~36 | 10~33 | 10~28 | 10~27 | 10~28 | 10~22 | 10~34 | 10~31 | 12~36 | 12~33 | | | 10~34 | 12~36 | |
| 34 | 10~41 | 10~36 | 10~33 | 10~30 | 10~33 | 10~25 | 10~39 | 10~34 | 12~41 | 12~36 | | | 10~39 | 12~41 | |
| 36 | 10~41 | 10~36 | 10~33 | 10~30 | 10~33 | 10~25 | 10~39 | 10~34 | 12~41 | 12~36 | | | 10~39 | 12~41 | |
| 40 | 10~46 | 10~43 | 10~38 | 10~35 | 10~38 | 10~28 | 10~44 | 10~41 | 12~46 | 12~43 | | | 10~44 | 12~46 | |
| 44 | 12~54 | 12~46 | 12~42 | 12~38 | 12~40 | 12~32 | 12~52 | 12~44 | 14~54 | 14~46 | | | 12~52 | 14~54 | |
| 48 | 12~59 | 12~56 | 12~45 | 12~45 | 12~40 | 12~40 | 12~57 | 12~54 | 14~59 | 14~56 | | | 12~57 | 14~59 | |
| 50 | 12~63 | 12~59 | 12~50 | 12~47 | 12~43 | 12~43 | 12~61 | 12~57 | 14~63 | 14~59 | | | 12~61 | 14~63 | |
| 60 | 12~76 | 12~71 | 12~50 | 12~50 | 12~50 | 12~50 | 12~74 | 12~69 | 14~76 | 14~71 | | | 12~74 | 14~76 | |
| 72 | 12~85 | 12~80 | 12~70 | 12~70 | 12~55 | 12~55 | 12~83 | 12~84 | 14~92 | 14~86 | | | 12~83 | 14~92 | |