
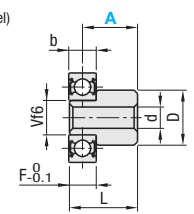


# Idler Pins

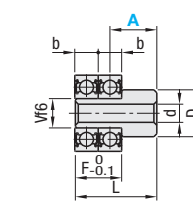
■ **Features:** Tools needed to attach idler sprockets are sold as a set.



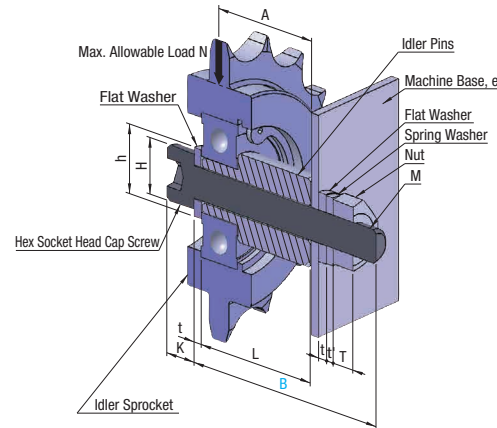
**IDP** (Steel)  
**IDPS** (Stainless Steel)



**Type S**



**Type W**



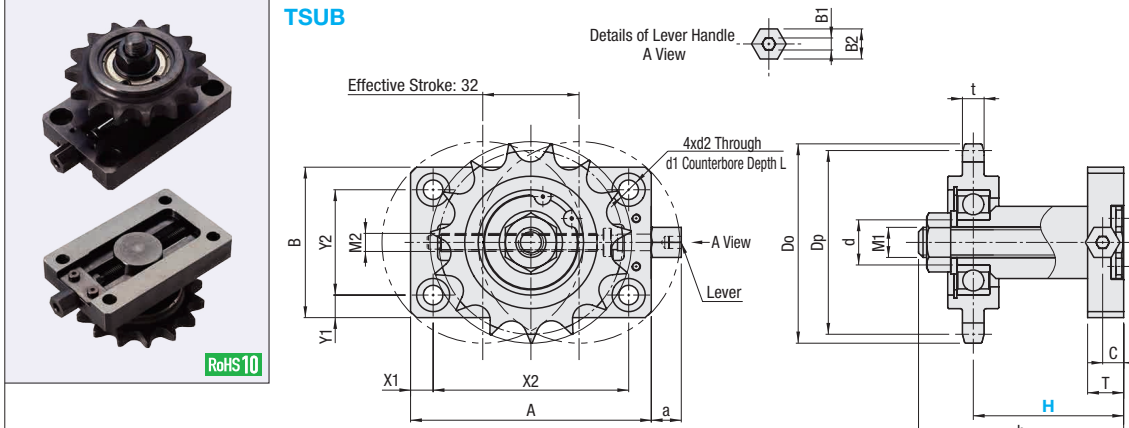
| Part Name                 | Type                               |                                    |
|---------------------------|------------------------------------|------------------------------------|
|                           | IDP                                | IDPS                               |
| Idler Pins                | <b>M</b> Material EN 1.1191 Equiv. | <b>M</b> Material EN 1.1191 Equiv. |
| Hex Socket Head Cap Screw | EN 1.7220 Equiv.                   | Black Oxide                        |
| Nut, Plain Washer         | EN 1.0038 Equiv.                   | Stainless Steel                    |
| Spring Washer             | JIS-SWRH57                         |                                    |

| Part Number   | Bearing No. | Type       | A Selection | B Selection 5mm Increment | Applicable Bearing | Pin Body Size |     | Size of Screw, Washer |      |     |    |    |      |     |     |      |            | Max. Allowable Load N (kgf) | Unit Price |      |
|---|-------------|------------|-------------|---------------------------|--------------------|---------------|-----|-----------------------|------|-----|----|----|------|-----|-----|------|------------|-----------------------------|------------|------|
|   |             |            |             |                           |                    | L             | F   | V/6                   | D    | d   | M  | K  | H    | T   | t   | t'   | h          |                             | IDP        | IDPS |
| <b>IDP</b> (Steel)<br><b>IDPS</b> (Stainless Steel) | 6000        | S          | 12          | 30~40                     | 6000ZZ (b=8)       | A+3.8         | 7.8 | 10                    | 16   | 6.2 | M6 | 6  | 10   | 5.0 | 1.6 | 1.5  | 12.5       | 323 (33)                    |            |      |
|   |             |            | 14, 16      | 35~45                     |                    |               |     |                       |      |     |    |    |      |     |     |      |            |                             |            |      |
|   |             |            | 18, 20      | 40~50                     |                    |               |     |                       |      |     |    |    |      |     |     |      |            |                             |            |      |
|   |             | W          | 16, 18      | 45~55                     |                    |               |     |                       |      |     |    |    |      |     |     |      |            |                             |            |      |
|   |             |            | 20          | 50~60                     |                    |               |     |                       |      |     |    |    |      |     |     |      |            |                             |            |      |
|   |             |            | 14          | 35~45                     |                    |               |     |                       |      |     |    |    |      |     |     |      |            |                             |            |      |
|   | 6001        | S          | 16, 18, 20  | 40~50                     | 6001ZZ (b=8)       | A+3.8         | 7.8 | 12                    | 16   | 8.2 | M8 | 8  | 13   | 6.5 | 1.6 | 2.0  | 17.0       | 548 (56)                    |            |      |
|   |             |            | 22          | 45~55                     |                    |               |     |                       |      |     |    |    |      |     |     |      |            |                             |            |      |
|   |             |            | 14, 16      | 45~55                     |                    |               |     |                       |      |     |    |    |      |     |     |      |            |                             |            |      |
|   |             | W          | 18, 20, 22  | 50~60                     |                    |               |     |                       |      |     |    |    |      |     |     |      |            |                             |            |      |
|   |             |            | 14          | 35~45                     |                    |               |     |                       |      |     |    |    |      |     |     |      |            |                             |            |      |
|   |             |            | 16, 18      | 40~50                     |                    |               |     |                       |      |     |    |    |      |     |     |      |            |                             |            |      |
| 6201  | S           | 16, 18     | 40~50       | 6201ZZ (b=10)             | A+4.8              | 9.8           | 12  | 16                    | 8.2  | M8  | 8  | 13 | 6.5  | 1.6 | 2.0 | 17.0 | 548 (56)   |                             |            |      |
|   |             | 20, 22     | 45~55       |                           |                    |               |     |                       |      |     |    |    |      |     |     |      |            |                             |            |      |
|   |             | 14         | 45~55       |                           |                    |               |     |                       |      |     |    |    |      |     |     |      |            |                             |            |      |
|   | W           | 16, 18     | 50~60       |                           |                    |               |     |                       |      |     |    |    |      |     |     |      |            |                             |            |      |
|   |             | 20, 22     | 55~65       |                           |                    |               |     |                       |      |     |    |    |      |     |     |      |            |                             |            |      |
|   |             | 16, 18, 20 | 45~55       |                           |                    |               |     |                       |      |     |    |    |      |     |     |      |            |                             |            |      |
| 6202  | S           | 22, 24     | 50~60       | 6202ZZ (b=11)             | A+5.3              | 10.8          | 15  | 20                    | 10.5 | M10 | 10 | 16 | 8.0  | 2.0 | 2.5 | 21.0 | 999 (102)  |                             |            |      |
|   |             | 16, 18     | 55~65       |                           |                    |               |     |                       |      |     |    |    |      |     |     |      |            |                             |            |      |
|   |             | 20, 22     | 60~70       |                           |                    |               |     |                       |      |     |    |    |      |     |     |      |            |                             |            |      |
|   | W           | 24         | 65~75       |                           |                    |               |     |                       |      |     |    |    |      |     |     |      |            |                             |            |      |
|   |             | 16, 18     | 45~55       |                           |                    |               |     |                       |      |     |    |    |      |     |     |      |            |                             |            |      |
|   |             | 20, 22, 24 | 50~60       |                           |                    |               |     |                       |      |     |    |    |      |     |     |      |            |                             |            |      |
| 6203  | S           | 16         | 55~65       | 6203ZZ (b=12)             | A+5.8              | 11.8          | 17  | 25                    | 10.5 | M10 | 10 | 16 | 8.0  | 2.0 | 2.5 | 21.0 | 1244 (127) |                             |            |      |
|   |             | 18, 20, 22 | 60~70       |                           |                    |               |     |                       |      |     |    |    |      |     |     |      |            |                             |            |      |
|   |             | 24         | 65~75       |                           |                    |               |     |                       |      |     |    |    |      |     |     |      |            |                             |            |      |
|   | W           | 20, 22     | 55~65       |                           |                    |               |     |                       |      |     |    |    |      |     |     |      |            |                             |            |      |
|   |             | 24, 26     | 60~70       |                           |                    |               |     |                       |      |     |    |    |      |     |     |      |            |                             |            |      |
|   |             | 28, 30     | 65~75       |                           |                    |               |     |                       |      |     |    |    |      |     |     |      |            |                             |            |      |
| 6204  | S           | 20, 22     | 70~80       | 6204ZZ (b=14)             | A+6.8              | 13.8          | 20  | 25                    | 14.5 | M14 | 14 | 21 | 11.0 | 2.5 | 3.5 | 28.0 | 1989 (203) |                             |            |      |
|   |             | 24, 26, 28 | 75~85       |                           |                    |               |     |                       |      |     |    |    |      |     |     |      |            |                             |            |      |
|   |             | 30         | 80~90       |                           |                    |               |     |                       |      |     |    |    |      |     |     |      |            |                             |            |      |
|   | W           | 20, 22     | 55~65       |                           |                    |               |     |                       |      |     |    |    |      |     |     |      |            |                             |            |      |
|   |             | 24, 26, 28 | 60~70       |                           |                    |               |     |                       |      |     |    |    |      |     |     |      |            |                             |            |      |
|   |             | 30         | 65~75       |                           |                    |               |     |                       |      |     |    |    |      |     |     |      |            |                             |            |      |

Ordering Example: **Part Number** - **A** - **B**  
**IDP6000S** - **16** - **35**

# Tensioner Units with Idler Height Configurable

■ **Features:** The following bidirectional tension adjustment is available: "Push" direction and "Pull" direction. This unit and idler are assembled in a set before delivery.



| Part Name        | Material  | Surface Treatment |
|------------------|---|-------------------|
| Base Block       | EN 1.0038 Equiv.                                |                   |
| Idler Shaft      |   |                   |
| Adjustment Screw | EN 1.1191 Equiv.                                | Black Oxide       |
| Nut              |   |                   |
| Washer           |   |                   |
| Idler Sprocket   | EN 1.1181 Equiv. (Induction Hardened Teeth Tip) |                   |

One Point  
 By using the adjustment screw coupled to the idler shaft machined with the tapped hole, tension can be adjusted bidirectionally: "Push" and "Pull."  
 Since the adjustment screw is structured with the dual support frame, it prevents the idler shaft from being inclined and facilitates tension adjustment.

| Part Number | Number of Teeth | H 1mm Increment | h (Max.) | M1   | M2   | Travel per Handle Rotation (mm) | d  | A  | B  | T  | X1  | X2 | Y1  | Y2 | a    | d1 | d2  | L   | C | B1 | B2 | Unit Price |   |      |    |    |    |    |    |    |    |    |      |    |     |     |   |   |    |  |
|-------------|-----------------|-----------------|----------|------|------|---------------------------------|----|----|----|----|-----|----|-----|----|------|----|-----|-----|---|----|----|------------|---|------|----|----|----|----|----|----|----|----|------|----|-----|-----|---|---|----|--|
| <b>TSUB</b> | 35              | 16              | 25~45    | 59.2 | 8    | 1.0                             | 12 | 80 | 50 | 12 | 7.5 | 65 | 7.5 | 35 | 10.5 | 11 | 6.5 | 6.5 | 7 | 4  | 10 |            |   |      |    |    |    |    |    |    |    |    |      |    |     |     |   |   |    |  |
|             |                 | 18              |          | 63.2 | 10   |                                 |    |    |    |    |     |    |     |    |      |    |     |     |   |    |    |            |   |      |    |    |    |    |    |    |    |    |      |    |     |     |   |   |    |  |
|             |                 | 40              |          | 13   | 64.2 |                                 | 8  |    |    |    |     |    |     |    |      |    |     |     |   |    |    |            |   |      |    |    |    |    |    |    |    |    |      |    |     |     |   |   |    |  |
|             |                 |                 |          | 15   | 68.2 |                                 | 10 |    |    |    |     |    |     |    |      |    |     |     |   |    |    |            |   |      |    |    |    |    |    |    |    |    |      |    |     |     |   |   |    |  |
|             |                 | 50              |          | 19   | 74.2 |                                 | 14 |    |    |    |     |    |     |    |      |    |     |     |   |    |    |            | 8 | 1.25 | 20 | 90 | 60 | 16 | 10 | 70 | 10 | 40 | 15.5 | 14 | 8.5 | 8.5 | 8 | 5 | 13 |  |
|             |                 |                 |          | 13   | 73.2 |                                 | 10 |    |    |    |     |    |     |    |      |    |     |     |   |    |    |            |   |      |    |    |    |    |    |    |    |    |      |    |     |     |   |   |    |  |
|             | 15              |                 | 76.2     |      | 12   |                                 |    |    |    |    |     |    |     |    |      |    |     |     |   |    |    |            |   |      |    |    |    |    |    |    |    |    |      |    |     |     |   |   |    |  |
|             | 17              |                 | 79.2     | 14   |      |                                 |    |    |    |    |     |    |     |    |      |    |     |     |   |    |    |            |   |      |    |    |    |    |    |    |    |    |      |    |     |     |   |   |    |  |
|             |                 |                 | 11       | 78.2 | 10   |                                 |    |    |    |    |     |    |     |    |      |    |     |     |   |    |    |            |   |      |    |    |    |    |    |    |    |    |      |    |     |     |   |   |    |  |
|             | 14              |                 | 84.2     | 14   |      |                                 |    |    |    |    |     |    |     |    |      |    |     |     |   |    |    |            |   |      |    |    |    |    |    |    |    |    |      |    |     |     |   |   |    |  |

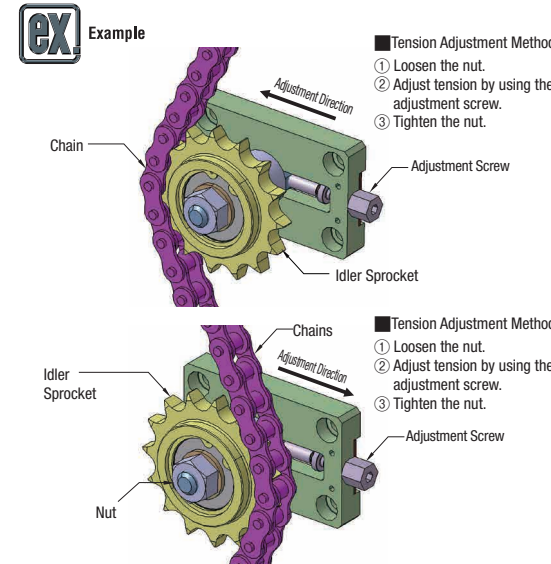
## Idler Specifications

| No. | Number of Teeth | Shaft Dia. | Dp    | Do | t    | Bearing Part No. |
|-----|-----------------|------------|-------|----|------|------------------|
| 35  | 16              | 12         | 48.82 | 54 | 4.3  | 6001ZZ           |
|     | 18              | 15         | 54.85 | 60 |      | 6202ZZ           |
| 40  | 13              | 12         | 53.07 | 59 | 7.2  | 6001ZZ           |
|     | 15              | 15         | 61.08 | 67 |      | 6202ZZ           |
| 50  | 19              | 20         | 77.16 | 84 | 8.7  | 6204ZZ           |
|     | 13              | 15         | 66.34 | 74 |      | 6202ZZ           |
|     | 15              | 17         | 76.35 | 84 |      | 6203ZZ           |
| 60  | 17              | 20         | 86.39 | 94 | 11.7 | 6204ZZ           |
|     | 11              | 15         | 67.62 | 76 |      | 6202ZZ           |
|     | 14              | 20         | 85.61 | 95 |      | 6204ZZ           |

For details, see P.1550 on this catalog.

Ordering Example: **Part Number** - **Number of Teeth** - **H**  
**TSUB35** - **16** - **40**

**Example**



**Tension Adjustment Method**

- Loosen the nut.
- Adjust tension by using the adjustment screw.
- Tighten the nut.