

# High Torque Timing Pulleys

◀ S5M Type  
Pitch 5.0

| S5M100        | S5M150        | S5M250        | Pitch | Material       |        | Surface Treatment |
|---------------|---------------|---------------|-------|----------------|--------|-------------------|
| Belt Width 10 | Belt Width 15 | Belt Width 25 | 5.0   | Pulley         | Flange |                   |
| EBJ01         | EBJ21         | EBJ41         |       | Aluminum Alloy |        | Clear Anodize     |
| EBJ12         | EBJ32         | EBJ52         |       | S45C           | SPCC   | Black Oxide       |



## ■ Tapped Hole Dimensions (Shaft Bore: P / N)

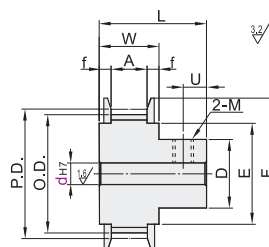
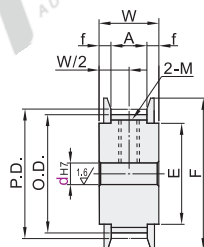
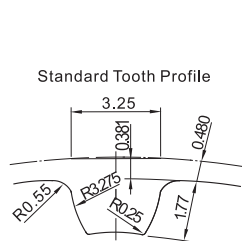
| Shaft Bore Inner Dia.<br>dH7 | M<br>(Coarse) | Accessories<br>Set Screw |
|------------------------------|---------------|--------------------------|
| 6~12                         | M4            | M4×3                     |
| 13~17                        | M5            | M5×4                     |
| 18~30                        | M6            | M6×5                     |
| 31~45                        | M8            | M8×6                     |
| 46~65                        | M10           | M10×8                    |



□ When the material of the timing pulley is S45C, the retaining ring has flanging type.

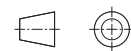
Pulley Shape  
Shape A

Pulley Shape  
Shape B



□  $f = (W - A) / 2$

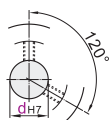
□ When the pulley shape is B shape,  $U = (L - W) / 2$ . When U ≠ integer, round down.



The first perspective

## ■ Shaft Bore Spec.

P Round Hole + Tap



N New JIS Keywayed Bore + Tap



□ For Keyway Dimension Details, refer to the Timing Pulleys product introduction.

□ To avoid damaging the integrity of the teeth, the screw hole is selected to be machined at the bottom of the tooth. Therefore, when the number of teeth cannot be divided equally as trisection, the screw hole will be drilled at the bottom of the closest teeth. And the angle of the screw hole will have slight deviation in that case, will not be exactly 120°

| Part Number                                                      |       | Pulley Shape | Shaft Bore Spec. | Shaft Bore Spec. d <sub>H7</sub> (1mm Increment) |       |         |       | P.D.   | O.D.   | D  | F   | E   | Type Nominal Width                              |                                                 |   |
|------------------------------------------------------------------|-------|--------------|------------------|--------------------------------------------------|-------|---------|-------|--------|--------|----|-----|-----|-------------------------------------------------|-------------------------------------------------|---|
| Code                                                             | Teeth |              |                  | Shape A                                          |       | Shape B |       |        |        |    |     |     | A                                               | W                                               | L |
| (Aluminum Alloy)<br>EBJ01-S5M100<br>EBJ21-S5M150<br>EBJ41-S5M250 | 14    |              |                  | 6~10                                             | 8     | 6~8     | —     | 22.28  | 21.32  | 14 | 26  | 16  | Belt Width 10<br>S5M100<br>A:11<br>W:16<br>L:28 |                                                 |   |
|                                                                  | 15    |              |                  | 6~10                                             | 8~10  | 6~8     |       | 23.87  | 22.91  | 15 | 28  | 18  |                                                 |                                                 |   |
|                                                                  | 16    |              |                  | 7~12                                             | 8~11  | 7~10    | 8     | 25.46  | 24.50  | 17 | 32  | 20  |                                                 |                                                 |   |
|                                                                  | 18    |              |                  | 7~12                                             | 8~12  | 7~11    | 8~10  | 28.65  | 27.69  |    | 33  | 22  |                                                 |                                                 |   |
|                                                                  | 19    |              |                  | 6~16                                             | 8~13  | 6~11    | 8~10  | 30.24  | 29.28  | 19 | 36  | 24  |                                                 |                                                 |   |
|                                                                  | 20    |              |                  | 7~16                                             | 8~14  | 7~11    | 8~10  | 31.83  | 30.87  |    | 36  | 24  | Belt Width 15<br>S5M150<br>A:17<br>W:22<br>L:34 |                                                 |   |
|                                                                  | 22    |              |                  | 7~18                                             | 8~15  | 7~15    | 8~12  | 35.01  | 34.05  | 24 | 40  | 27  |                                                 |                                                 |   |
|                                                                  | 24    |              |                  | 7~20                                             | 8~18  | 7~17    | 8~13  | 38.20  | 37.24  |    |     |     |                                                 |                                                 |   |
|                                                                  | 25    |              |                  | 7~20                                             | 8~19  | 7~17    | 8~15  | 39.79  | 38.83  | 27 | 45  | 30  |                                                 |                                                 |   |
|                                                                  | 26    | A            | P                | 8~22                                             | 8~21  | 8~21    | 8~17  | 41.38  | 40.42  | 31 |     |     |                                                 | Belt Width 25<br>S5M250<br>A:27<br>W:32<br>L:44 |   |
| 28                                                               | B     | N            | 8~24             | 8~23                                             | 8~22  | 8~18    | 44.56 | 43.60  | 32     | 48 | 35  |     |                                                 |                                                 |   |
| 30                                                               |       |              | 10~26            | 10~26                                            | 10~23 | 10~18   | 47.75 | 46.79  | 33     | 52 | 36  |     |                                                 |                                                 |   |
| 32                                                               |       |              | 10~28            | 10~28                                            | 10~27 | 10~22   | 50.93 | 49.97  | 37     | 55 | 40  |     |                                                 |                                                 |   |
| 34                                                               |       |              | 10~30            | 10~30                                            | 10~30 | 10~25   | 54.11 | 53.15  |        |    |     |     |                                                 |                                                 |   |
| (S45C)<br>EBJ12-S5M100<br>EBJ32-S5M150<br>EBJ52-S5M250           | 36    |              |                  | 10~30                                            | 10~30 | 10~30   | 10~25 | 57.30  | 56.34  | 40 | 61  | 45  |                                                 |                                                 |   |
| 40                                                               |       |              | 10~38            | 10~38                                            | 10~35 | 10~28   | 63.66 | 62.70  | 47     | 67 | 50  |     |                                                 |                                                 |   |
| 44                                                               |       |              | 12~42            | 12~40                                            | 12~38 | 12~32   | 70.03 | 69.07  | 50     | 74 | 58  |     |                                                 |                                                 |   |
| 48                                                               |       |              | 12~45            | 12~40                                            | 12~45 | 12~40   | 76.39 | 75.43  | 60     | 83 | 63  |     |                                                 |                                                 |   |
| 50                                                               |       |              | 12~45            | 12~43                                            | 12~45 | 12~43   | 79.58 | 78.62  | 63     | 87 | 67  |     |                                                 |                                                 |   |
| 60                                                               |       |              | 12~45            | 12~45                                            | 12~45 | 12~45   | 95.49 | 94.53  | 75     | 99 | 80  |     |                                                 |                                                 |   |
|                                                                  | 72    |              |                  | 12~65                                            | 12~50 | 12~65   | 12~50 | 114.59 | 113.63 | 90 | 119 | 100 |                                                 |                                                 |   |

① Shaft Bore Dia. 9 are not available for Shaft Bore specification N.

① Select N-d10K when New JIS Keywayed Bore + Tap with shaft bore diameter of 10 and keyway width 4.0 mm (height 1.8 mm) is requested. (Refer to the Timing pulley product introduction)

① "Optional processing", please see timing pulley product brief introduction.



Please order as shown

| Part Number  |       | Pulley Shape | Shaft Bore Spec. | Shaft Bore Spec. dH7 (1mm Increment) |       |         |       |
|--------------|-------|--------------|------------------|--------------------------------------|-------|---------|-------|
|              |       |              |                  | Shape A                              |       | Shape B |       |
| Code         | Teeth |              |                  | P                                    | N     | P       | N     |
| EBJ01-S5M100 | 36    | A            | P                | 10~30                                | 10~30 | 10~30   | 10~25 |
| EBJ21-S5M150 | 40    | B            | N                | 10~38                                | 10~38 | 10~35   | 10~28 |

EBJ01-S5M100 - 36 - A - N - d20



Discount price

| Per   | 1~4  | 5~                   |
|-------|------|----------------------|
| Price | 100% | Additional quotation |



Delivery

4

① Aluminum Alloy



Delivery

11

① S45C