

# Keyless High Torque Timing Pulleys

## S3M Type(Pitch 3.0)

Keyless Bushing with Centering Function

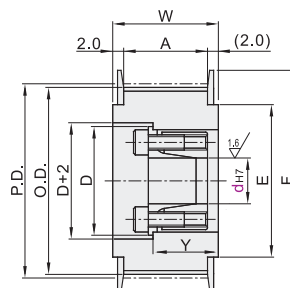
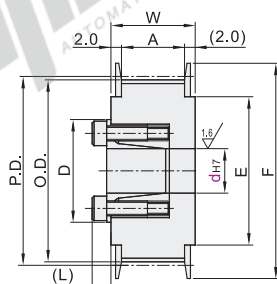
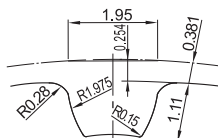
| Code  | Pulleys Type | Belt Width | Pitch | Material       |                |         | Surface Treatment |        |         | Use Bushing Code |
|-------|--------------|------------|-------|----------------|----------------|---------|-------------------|--------|---------|------------------|
|       |              |            |       | Pulley         | Flange         | Bushing | Pulley            | Flange | Bushing |                  |
| EBY41 | S3M100       | 10         | 3.0   | Aluminum Alloy | Aluminum Alloy | S45C    | Clear Anodize     | —      | —       | EUX16            |
| EBY46 | S3M150       | 15         |       | Aluminum Alloy | Aluminum Alloy | S45C    | Clear Anodize     | —      | —       |                  |



Pulley Shape Shape E

Pulley Shape Shape F

Standard Tooth Profile



① "Optional processing", please see timing pulley product brief introduction (Applicable for WC/WD/WE/FC optional processings).

The first perspective

| Part Number                  |       | Pulley Shape | Shaft Bore Spec. <sup>d<sub>H7</sub></sup><br>(Select Shaft Bore Dia. from bushing size table) |               |         | P.D.  | O.D.  | F  | E  | A                              | W | Y |
|------------------------------|-------|--------------|------------------------------------------------------------------------------------------------|---------------|---------|-------|-------|----|----|--------------------------------|---|---|
| Code                         | Teeth |              | S3M100                                                                                         | S3M150        |         |       |       |    |    |                                |   |   |
|                              |       |              | E Shape                                                                                        | E Shape       | F Shape |       |       |    |    |                                |   |   |
| EBY41-S3M100<br>EBY46-S3M150 | 34    |              | 6                                                                                              | 6             | 6       | 32.47 | 31.71 |    |    | S3M100<br>A:11<br>W:15         |   |   |
|                              | 36    |              | 6                                                                                              | 6             | 6       | 34.38 | 33.62 | 40 | 28 |                                |   |   |
|                              | 40    | E            | 8                                                                                              | 8             | 8       | 38.20 | 37.44 | 44 | 32 |                                |   |   |
|                              | 44    |              | 8-10                                                                                           | 8-10          | 8-10    | 42.02 | 41.25 | 48 | 36 |                                |   |   |
|                              | 48    | F            | 8-10                                                                                           | 8-10-12       | 8-10    | 45.84 | 45.07 | 50 | 38 | S3M150<br>A:17<br>W:21<br>Y:14 |   |   |
|                              | 50    |              | 8-10                                                                                           | 8-10-12-14    | 8-10    | 47.75 | 46.98 | 52 | 40 |                                |   |   |
|                              | 60    |              | 8-10                                                                                           | 8-10-12-14-17 | 8-10    | 57.30 | 56.53 | 61 | 46 |                                |   |   |
|                              | 72    |              | 8-10                                                                                           | 8-10-12-14-19 | 8-10    | 68.75 | 67.99 | 74 | 58 |                                |   |   |

① The F shape of the timing pulley is not suitable for EBY41-S3M100.



| Part Number  |       | Pulley Shape | Shaft Bore Spec. d <sub>H7</sub> |               |      |
|--------------|-------|--------------|----------------------------------|---------------|------|
| Code         | Teeth |              | S3M100                           | S3M150        |      |
| EBY41-S3M100 | 50    | E            | 6-10                             | 8-10-12-14    | 8-10 |
| EBY46-S3M150 | 60    | F            | 8-10                             | 8-10-12-14-17 | 8-10 |
|              | 72    |              | 8-10                             | 8-10-12-14-19 | 8-10 |

EBY41-S3M100 — 50 — E — d10

② Optional Processing

| Part Number  |       | Pulley Shape | Shaft Bore Spec. d <sub>H7</sub> |               |      | Optional Processing Code |
|--------------|-------|--------------|----------------------------------|---------------|------|--------------------------|
| Code         | Teeth |              | S3M100                           | S3M150        |      |                          |
| EBY41-S3M100 | 50    | E            | 6-10                             | 8-10-12-14    | 8-10 | WD WE FC                 |
| EBY46-S3M150 | 60    | F            | 8-10                             | 8-10-12-14-17 | 8-10 |                          |
|              | 72    |              | 8-10                             | 8-10-12-14-19 | 8-10 |                          |

EBY41-S3M100 — 50 — E — d10 — WC

③ Select Shaft Bore Diameter

| d <sub>H7</sub> | Max. Allowable Torque N·m | D    | (L) |
|-----------------|---------------------------|------|-----|
| 6               | 12.7                      | 21.5 |     |
| 8               | 19.6                      | 23.5 | 6   |
| 10              | 27.5                      | 25.5 |     |
| 12              | 44.1                      | 28.5 |     |
| 14              | 63.7                      | 30.5 |     |
| 15              | 80.4                      | 31.5 |     |
| 16              | 83.3                      | 33   | 6.5 |
| 17              | 92.2                      | 33.5 |     |
| 18              | 95.1                      | 34.5 |     |
| 19              | 98.1                      | 35.5 |     |



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



| Delivery |   |
|----------|---|
|          | 6 |