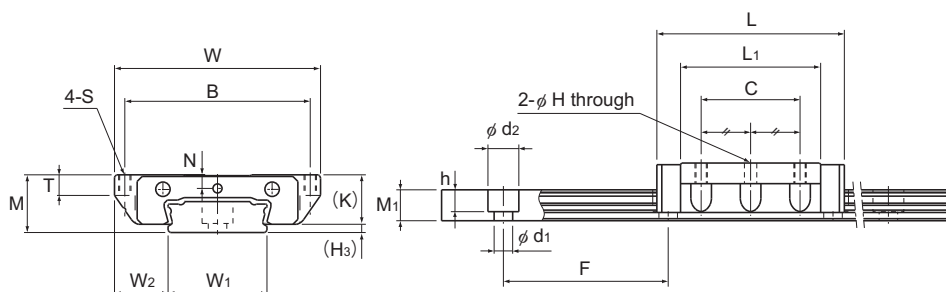


# Model SHW-CA



Models SHW12CAM and SHW14CAM

| Model No. | Outer dimensions |       |        | LM block dimensions |    |     |     |                |    |      |     |     |
|-----------|------------------|-------|--------|---------------------|----|-----|-----|----------------|----|------|-----|-----|
|           | Height           | Width | Length |                     |    |     |     |                |    |      |     |     |
|           | M                | W     | L      | B                   | C  | S   | H   | L <sub>1</sub> | T  | K    | N   |     |
| SHW 12CAM | 12               | 40    | 37     | 35                  | 18 | M3  | 2.5 | 27             | 4  | 10   | 2.8 | 2   |
| SHW 14CAM | 14               | 50    | 45.5   | 45                  | 24 | M3  | 2.5 | 34             | 5  | 12   | 3.3 | 2   |
| SHW 17CAM | 17               | 60    | 51     | 53                  | 26 | M4  | 3.3 | 38             | 6  | 14.5 | 4   | 2.5 |
| SHW 21CA  | 21               | 68    | 59     | 60                  | 29 | M5  | 4.4 | 43.6           | 8  | 17.7 | 5   | 3.3 |
| SHW 27CA  | 27               | 80    | 72.8   | 70                  | 40 | M6  | 5.3 | 56.6           | 10 | 23.5 | 6   | 3.5 |
| SHW 35CA  | 35               | 120   | 107    | 107                 | 60 | M8  | 6.8 | 83             | 14 | 31   | 7.6 | 4   |
| SHW 50CA  | 50               | 162   | 141    | 144                 | 80 | M10 | 8.6 | 107            | 18 | 46   | 14  | 4   |

Note) The M in the model number symbol indicates that the LM block, LM rail and balls are made of stainless steel. The stainless steel provides excellent corrosion and environmental resistance.

## Model number coding

**SHW17 CA 2 QZ UU C1 M +580L P M - II**

Model number

Type of LM block

With QZ Lubricator

Contamination protection accessory symbol (\*1)

Stainless steel LM block

LM rail length (in mm)

Stainless steel LM rail

Symbol for No. of rails used on the same plane (\*4)

No. of LM blocks used on the same rail

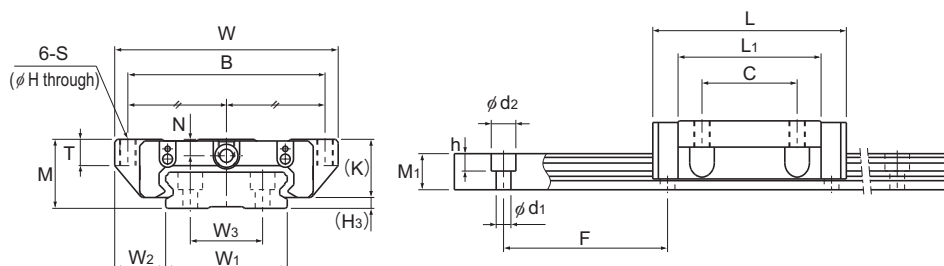
Radial clearance symbol (\*2)  
Normal (No symbol)  
Light preload (C1)  
Medium preload (C0)

Accuracy symbol (\*3)  
Normal grade (No Symbol)/High accuracy grade (H)  
Precision grade (P)/Super precision grade (SP)  
Ultra precision grade (UP)

(\*1) See contamination protection accessory on **A1-516**. (\*2) See **A1-71**. (\*3) See **A1-77**. (\*4) See **A1-13**.

Note) This model number indicates that a single-rail unit constitutes one set. (i.e., required number of sets when 2 rails are used in parallel is 2 at a minimum.)

Those models equipped with QZ Lubricator cannot have a grease nipple. When desiring a grease nipple for a model attached with QZ, contact THK.



Models SHW17CAM and SHW21 to 50CA

Unit: mm

|  | LM rail dimensions           |                |                |                |       |                                   |         | Basic load rating |                | Static permissible moment<br>kN·m* |               |                |               |                | Mass     |         |
|--|------------------------------|----------------|----------------|----------------|-------|-----------------------------------|---------|-------------------|----------------|------------------------------------|---------------|----------------|---------------|----------------|----------|---------|
|  | Width                        |                |                | Height         | Pitch |                                   | Length* | C                 | C <sub>0</sub> | M <sub>A</sub>                     |               | M <sub>B</sub> |               | M <sub>C</sub> | LM block | LM rail |
|  | W <sub>1</sub><br>0<br>-0.05 | W <sub>2</sub> | W <sub>3</sub> | M <sub>1</sub> | F     | d <sub>1</sub> ×d <sub>2</sub> ×h | Max     | kN                | kN             | 1 block                            | Double blocks | 1 block        | Double blocks | 1 block        | kg       | kg/m    |
|  | 18                           | 11             | —              | 6.6            | 40    | 4.5×7.5×5.3                       | 1230    | 4.31              | 5.66           | 0.0228                             | 0.12          | 0.0228         | 0.12          | 0.0405         | 0.05     | 0.8     |
|  | 24                           | 13             | —              | 7.5            | 40    | 4.5×7.5×5.3                       | 1430    | 7.05              | 8.98           | 0.0466                             | 0.236         | 0.0466         | 0.236         | 0.0904         | 0.1      | 1.23    |
|  | 33                           | 13.5           | 18             | 8.6            | 40    | 4.5×7.5×5.3                       | 1800    | 7.65              | 10.18          | 0.0591                             | 0.298         | 0.0591         | 0.298         | 0.164          | 0.15     | 1.9     |
|  | 37                           | 15.5           | 22             | 11             | 50    | 4.5×7.5×5.3                       | 3000    | 8.24              | 12.8           | 0.0806                             | 0.434         | 0.0806         | 0.434         | 0.229          | 0.24     | 2.9     |
|  | 42                           | 19             | 24             | 15             | 60    | 4.5×7.5×5.3                       | 3000    | 16                | 22.7           | 0.187                              | 0.949         | 0.187          | 0.949         | 0.455          | 0.47     | 4.5     |
|  | 69                           | 25.5           | 40             | 19             | 80    | 7×11×9                            | 3000    | 35.5              | 49.2           | 0.603                              | 3             | 0.603          | 3             | 1.63           | 1.4      | 9.6     |
|  | 90                           | 36             | 60             | 24             | 80    | 9×14×12                           | 3000    | 70.2              | 91.4           | 1.46                               | 7.37          | 1.46           | 7.37          | 3.97           | 3.7      | 15      |

Note) The maximum length under "Length\*" indicates the standard maximum length of an LM rail. (See **A1-146**.)

Static permissible moment\* 1 block: the static permissible moment with one LM block

Double blocks: static permissible moment when two LM blocks are in close contact with each other

Total block length L : The total block length L shown in the table is the length with the dust proof parts, code UU or SS. If other contamination protection accessories or lubricant equipment are installed, the total block length will increase.

(See **A1-491** or **A1-512**)