NEW

Wide Caged-roller LM Guide

Optimal for large machines that require high rigidity and mounting accuracy
Ultra-high rigidity, heavy load
A wide, large roller guide model is added to the lineup

SRW130, 150

THK CO., LTD.
TOKYO, JAPAN

CATALOG No.347E
Model SRW is a wide, ultra-high rigidity Roller Guide that has an LM rail wider than that of caged-roller LM Guide model SRW and is equipped with two rows of rail mounting holes to increase the mounting strength and the mounting stability. In addition, it uses roller cages to prevent rollers from skewing, thus allowing low-friction, smooth motion and achieve long-term maintenance-free operation.

Features

● **Ultra-high Rigidity**

Since its wide rail can be secured with two rows of mounting bolts, the mounting strength is increased. In addition, since the raceway distance (L) in the width direction is large, this model has a strong structure against the moment load (moment M_p) in the rolling direction. For the rolling elements, this model uses highly rigid rollers*.  
*The overall roller length is more than 1.5 times the roller diameter.

● **4-way Equal Load**

Since each row of rollers is arranged at a contact angle of 45° so that the LM block receives an equal load rating in all four directions (radial, reverse radial and lateral directions), high rigidity is ensured in all directions.

● **Smooth Motion through Skewing Prevention**

The roller cage allows rollers to form an evenly spaced line while recirculating, thus preventing the rollers from skewing (tilt of rollers) as the block enters a loaded area. As a result, fluctuation of the rolling resistance is minimized and smooth stable motion is achieved.

● **Long-term Maintenance-free Operation**

Use of the roller cage eliminates friction between rollers and enables the lubricant to be retained in grease pockets formed between adjacent rollers. As the rollers recirculate, the grease pocket serves to provide the adequate amount of lubricant to achieve long-term maintenance-free operation.
Rated Load and Service Life

Calculating the Service Life

The service life of model SRW is obtained using the following equation.

\[ L = \left( \frac{f_l \cdot f_c}{f_{cl}} \cdot \frac{C}{P_c} \right)^{10} \times 100 \]

- \( L \) : Nominal life [km]
- \( f_l \) : Temperature Factor (see General Catalog)
- \( f_c \) : Load Factor (see General Catalog)
- \( f_{cl} \) : Calculated load [N]
- \( C \) : Basic dynamic load rating [N]
- \( P_c \) : Contact factor (see General Catalog)
- \( P_{cl} \) : Stroke length [mm]
- \( n_l \) : Number of reciprocations per minute [min⁻¹]

Load Rating

Model SRW is capable of receiving loads in all directions: radial, reverse-radial and lateral directions. The basic load ratings are uniform in the four directions (radial, reverse-radial and lateral directions), and their values are provided in the dimensional table (see P.5).

Equivalent Load

When the LM block of model SRW receives loads in all directions simultaneously, the equivalent load is obtained from the equation below.

\[ P_e = P_r (P_l) + P_T \]

- \( P_r \) : Radial load [N]
- \( P_l \) : Reverse radial load [N]
- \( P_T \) : Lateral load [N]

Equivalent moment factor

If a moment load is applied when a single LM block is used, or two LM blocks are used in close contact with each other, convert the moment load to an equivalent load by multiplying the moment load with the moment equivalent factor indicated in Table 1. See the General Catalog – Technical Descriptions of the Products for details.

\[ P = K \cdot M \]

- \( P \) : Equivalent load per LM Guide [N]
- \( K \) : Equivalent moment factor (see table 1)
- \( M \) : Applied moment [N-mm]

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Equivalent factor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>( K_{SR1} )</td>
</tr>
<tr>
<td>SRW 130LR</td>
<td>2.19×10⁻²</td>
</tr>
<tr>
<td>SRW 150LR</td>
<td>1.95×10⁻²</td>
</tr>
</tbody>
</table>

- \( K_{SR1} \) : Equivalent factor in the \( M_r \) radial direction when one LM block is used
- \( K_{SR2} \) : Equivalent factor in the \( M_r \) reverse radial direction when one LM block is used
- \( K_{SR3} \) : Equivalent factor in the \( M_r \) radial direction when two LM blocks are used in close contact with each other
- \( K_{SR4} \) : Equivalent factor in the \( M_r \) reverse radial direction when two LM blocks are used in close contact with each other
- \( K_{SR5} \) : Equivalent factor in the \( M_r \) radial direction when one LM block is used
- \( K_{SR6} \) : Equivalent factor in the \( M_r \) reverse radial direction when two LM blocks are used in close contact with each other
- \( K_{SR7} \) : Equivalent factor in the \( M_r \) radial direction
- \( K_{SR8} \) : Equivalent factor in the \( M_r \) reverse radial direction

Table 1 Equivalent moment factor

THK
Accuracy Standards

For the accuracy of model SRW, running parallelism, dimensional tolerance in height and width, and difference in height and width required when multiple LM blocks are used on one rail or multiple rails are used on the same plane, are defined as indicated in the table below.

- **Running of parallelism**
  See the General Catalog for details.
- **Difference in height M**
  See the General Catalog for details.
- **Difference in Width Ws**
  See the General Catalog for details.

### Table: Running of parallelism

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Accuracy Standards</th>
<th>Precision grade</th>
<th>Super precision grade</th>
<th>Ultra precision grade</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Item</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dimensional tolerance in height M</td>
<td>-0.05</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Difference in height M</td>
<td>0.01</td>
<td>0.007</td>
<td>0.005</td>
</tr>
<tr>
<td></td>
<td>Dimensional tolerance in width Ws</td>
<td>-0.05</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Difference in width Ws</td>
<td>0.01</td>
<td>0.007</td>
<td>0.005</td>
</tr>
<tr>
<td></td>
<td>Running parallelism of surface C against surface A</td>
<td>as shown in the table below</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Running parallelism of surface D against surface B</td>
<td>as shown in the table below</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Table: LM Rail Length and Running Parallelism for Model SRW

<table>
<thead>
<tr>
<th>LM rail length (mm)</th>
<th>Running Parallelism Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Above</td>
<td>Or less</td>
</tr>
<tr>
<td></td>
<td>Precision grade</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>1250</td>
<td>1600</td>
</tr>
<tr>
<td>1600</td>
<td>2000</td>
</tr>
<tr>
<td>2000</td>
<td>2500</td>
</tr>
<tr>
<td>2500</td>
<td>3150</td>
</tr>
<tr>
<td>3150</td>
<td>4000</td>
</tr>
<tr>
<td>4000</td>
<td>5000</td>
</tr>
</tbody>
</table>

Note: For the running parallelism with the LM rail length exceeding the maximum value, contact THK.

Radial clearance

The table below shows the radial clearance of model SRW.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Normal</th>
<th>Light preload</th>
<th>Medium preload</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No Symbol</td>
<td>C1</td>
<td>C0</td>
</tr>
<tr>
<td>SHW 130LR</td>
<td>- 3 to - 1</td>
<td>- 7 to - 3</td>
<td>- 12 to - 7</td>
</tr>
<tr>
<td>SHW 150LR</td>
<td>- 3 to - 1</td>
<td>- 8 to - 3</td>
<td>- 13 to - 8</td>
</tr>
</tbody>
</table>

Note: If desiring normal clearance, add no symbol; for Light or Medium preload, indicate “C1” or “C2” in the model number. See the example of model number coding (see P5) for details.

Shoulder Height of the Mounting Base and the Shape of the Corner

For the shoulder height of the mounting base for the LM block and the LM rail, we recommend using the value indicated in the table below. For the corner of the mounting base, secure a recess, or machine the corner to have a radius at or below the r1 or r2 value shown in the table below, so that the corner will not interfere with the chamfers of the LM block and the LM rail.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Shoulder height (Shoulder for the LM block)</th>
<th>Shoulder height (Shoulder for the LM block)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>H1</td>
<td>H2</td>
</tr>
<tr>
<td>SHW 130LR</td>
<td>1.5</td>
<td>12</td>
</tr>
<tr>
<td>SHW 150LR</td>
<td>2.0</td>
<td>12</td>
</tr>
</tbody>
</table>

Unit:mm

### Diagrams and Figures:

- Running parallelism
- LM Rail Length and Running Parallelism
- Radial clearance
- Shoulder Height of the Mounting Base and the Shape of the Corner
Accuracy of the Mounting Surface

Model SRW is highly rigid since it uses rollers as its rolling elements, and the roller cage prevents the rollers from skewing (tilt). However, the mounting surface needs to be machined with high accuracy. If the error on the mounting surface is high, it will affect the rolling resistance and the service life. Therefore, for the accuracy of the mounting surface, do not exceed the maximum permissible value (limit value) that corresponds to the radial clearance indicated in the table below.

### Error Allowance in Parallelism (P) between Two Rails

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Radial clearance</th>
<th>Normal</th>
<th>C1</th>
<th>C0</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRW 130LR</td>
<td>0.026</td>
<td>0.018</td>
<td>0.014</td>
<td></td>
</tr>
<tr>
<td>SRW 150LR</td>
<td>0.030</td>
<td>0.021</td>
<td>0.016</td>
<td></td>
</tr>
</tbody>
</table>

### Error Allowance in Level (X) between the Rails

<table>
<thead>
<tr>
<th>Permissible error on the mounting surface X</th>
<th>Normal</th>
<th>C1</th>
<th>C0</th>
</tr>
</thead>
<tbody>
<tr>
<td>X=X₁+X₂</td>
<td>0.00020a</td>
<td>0.00014a</td>
<td>0.00072a</td>
</tr>
</tbody>
</table>

X₁: Level difference on the rail mounting surface
X₂: Level difference on the block mounting surface

#### Example of Calculation

When the rail span: a=500mm
Permissible error on the mounting surface: X=0.0003×500=0.15

### Error Allowance in Level (Y) in the Axial Direction

| Permissible error on the mounting surface | 0.000036b |

#### Standard Length and Maximum Length of the LM Rail

The table below shows the standard lengths and the maximum lengths of model SRW variations. If the maximum length of the desired LM rail exceeds them, jointed rails will be used. For the G dimension when a special length is required, we recommend selecting the corresponding G value from the table. The longer the G dimension is, the less stable the G area may become after installation, thus causing an adverse impact to accuracy.

If desiring connected use of this model, be sure to specify the overall length in terms of total length when placing an order so that we can manufacture the LM rail without leaving a level difference in the joint.

<table>
<thead>
<tr>
<th>Standard Length and Maximum Length of the LM Rail for Model SRW</th>
<th>Unit:mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRW 130LR</td>
<td></td>
</tr>
<tr>
<td>Standard length (L₉)</td>
<td>1530</td>
</tr>
<tr>
<td></td>
<td>1890</td>
</tr>
<tr>
<td></td>
<td>2250</td>
</tr>
<tr>
<td></td>
<td>2610</td>
</tr>
<tr>
<td>Standard pitch</td>
<td>90</td>
</tr>
<tr>
<td>G</td>
<td>45</td>
</tr>
<tr>
<td>Max length</td>
<td>3000</td>
</tr>
<tr>
<td>SRW 150LR</td>
<td></td>
</tr>
<tr>
<td>Standard length (L₉)</td>
<td>1340</td>
</tr>
<tr>
<td></td>
<td>1760</td>
</tr>
<tr>
<td></td>
<td>2180</td>
</tr>
<tr>
<td></td>
<td>2600</td>
</tr>
<tr>
<td>Standard pitch</td>
<td>105</td>
</tr>
<tr>
<td>G</td>
<td>40</td>
</tr>
<tr>
<td>Max length</td>
<td>3000</td>
</tr>
</tbody>
</table>

Note 1: The maximum length varies with accuracy grades. Contact THK for details.
Note 2: If jointed rails are not allowed and a greater length than the maximum values above is required, contact THK.
Model SRW-LR
Dimensional Table for Model SRW-LR

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Outer dimensions</th>
<th>LM block dimensions</th>
<th>Grease Nipple</th>
<th>Unit:mm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Height M</td>
<td>Width W</td>
<td>Length L</td>
<td>B</td>
</tr>
<tr>
<td>SRW 130LR</td>
<td>130</td>
<td>260</td>
<td>350</td>
<td>220</td>
</tr>
<tr>
<td>SRW 150LR</td>
<td>150</td>
<td>300</td>
<td>395</td>
<td>260</td>
</tr>
</tbody>
</table>

**Unit:mm**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Width W₁×W₂</th>
<th>Height M₁×M₂</th>
<th>Pitch F</th>
<th>d₁×d₂×h</th>
<th>Maximum length*</th>
<th>C</th>
<th>C₂</th>
<th>Mₐ</th>
<th>M₋</th>
<th>Mₐ₋</th>
<th>M₋₋</th>
<th>LM block</th>
<th>LM rail</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRW 130LR</td>
<td>130</td>
<td>65</td>
<td>52</td>
<td>71</td>
<td>18×26×22</td>
<td>3000</td>
<td>497</td>
<td>990</td>
<td>45.3</td>
<td>239</td>
<td>45.3</td>
<td>239</td>
<td>74.2</td>
</tr>
<tr>
<td>SRW 150LR</td>
<td>150</td>
<td>75</td>
<td>60</td>
<td>77</td>
<td>24×35×28</td>
<td>3000</td>
<td>601</td>
<td>1170</td>
<td>60</td>
<td>319</td>
<td>60</td>
<td>1170</td>
<td>101.6</td>
</tr>
</tbody>
</table>

**Note**
*1:The pilot hole for the side nipple is not drilled through in order to prevent foreign material from entering the LM block.
THK will mount grease nipples per your request. Therefore, do not use the side nipple pilot holes for purposes other than mounting a grease nipple.
*2:The maximum length indicates the standard maximum length of an LM rail.
*3:Static permissible moment
One block: static permissible moment value with one LM block
Double blocks: static permissible moment value with double block closely contacting with each other

Note: The removing/mounting jig is not included in the package as standard. If you desire to use it, contact THK.

**Model Number Coding**

\[
\text{SRW130 LR 2 KK C0 + 1530L P T - II}
\]

- **Model No.**
- **Type of LM block**
- **Radial clearance symbol (see P.3)**
- **Accuracy symbol (see P.3)**
- **Symbol for No. of rails used on the same plane (See the General Catalog for details.)**
- **Dust prevention accessory symbol (See the General Catalog for details.)**
- **LM rail length (in mm)**
- **Symbol for LM rail jointed use**

**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.
Maximum Seal Resistance /Contamination protection accessory

Table 2 shows the maximum seal resistance value per LM block with the SRW...SS seal.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Maximum Seal Resistance*</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRG 85LC</td>
<td>47</td>
</tr>
<tr>
<td>SRG100LC</td>
<td>53</td>
</tr>
</tbody>
</table>

*The maximum seal resistance value with lubricant applied.

Overall LM block length after a contamination protection accessory is attached. Unit:mm

<table>
<thead>
<tr>
<th>Model No.</th>
<th>UU</th>
<th>SS</th>
<th>DD</th>
<th>ZZ</th>
<th>KK</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRW 130LR</td>
<td>350</td>
<td>350</td>
<td>361.2</td>
<td>365.2</td>
<td>376.4</td>
</tr>
<tr>
<td>SRW 150LR</td>
<td>395</td>
<td>395</td>
<td>406.2</td>
<td>411</td>
<td>422.2</td>
</tr>
</tbody>
</table>

Note 1: For details of contamination protection accessories, see the General Catalog. Note 2: If you desire QZ or LaCS, contact THK.

Dedicated Bellows JSRG for Model SRW

The table below shows the dimensions of dedicated bellows JSRW for model SRW. Specify the corresponding model number of the desired bellows from the table.

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Main dimensions [mm]</th>
<th>Extension ratio A</th>
</tr>
</thead>
<tbody>
<tr>
<td>JSRW 130</td>
<td>W 220  H 96  Hₐ 96  P 35  p 165  bₕ 35  bₘ 60  tₕ 55</td>
<td></td>
</tr>
<tr>
<td>JSRW 150</td>
<td>W 260  H 114  Hₐ 114  P 49  p 47  bₕ 20  bₘ 60  tₕ 60</td>
<td></td>
</tr>
</tbody>
</table>

Model Number Coding

JSRW130 — 150 / 1350

Note: The length of the bellows is calculated as follow.

Lₜₜ = Lₘₘ = (A - 1) × S
Lₘₘ = Lₘₘ × A
S: Stroke length (mm)
A: Extension rate

Dimensions of the bellows (length when compressed / length when extended)

Dedicated C-Cap for LM Rail Mounting Holes

If any of the LM rail mounting holes of an LM Guide is filled with cutting chips or foreign material, they may enter the LM block. Entrance of such foreign material can be prevented by covering each LM rail mounting hole with the dedicated cap to eliminate the level difference between all the hole tops and the top face of the LM rail.

Major dimensions of the C-Cap

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Model No.</th>
<th>Bolt used</th>
<th>Main dimensions [mm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRW 130</td>
<td>M16</td>
<td>M16</td>
<td>D 35.5  H 5.7</td>
</tr>
<tr>
<td>SRW 150</td>
<td>M22</td>
<td>M22</td>
<td>D 39.5  H 7.7</td>
</tr>
</tbody>
</table>

Greasing hole

Model SRW allows lubrication from both the side and top faces of the LM block. The greasing hole of standard types is not drilled through in order to prevent foreign matter from entering the LM block. When using the greasing hole, contact THK.

Mounting dimensions of the greasing holes

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Pilot hole for side nipple</th>
<th>Applicable</th>
<th>Greasing hole on the top face</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRW 130</td>
<td>e₂  15</td>
<td>f₁  42</td>
<td>Dₙ  8.2</td>
</tr>
<tr>
<td>SRW 150</td>
<td>e₂  15</td>
<td>f₁  53</td>
<td>Dₙ  8.2</td>
</tr>
</tbody>
</table>
Precautions on Use

Handling
- This product is a heavy object (over 20 kg). When carrying this heavy object, two or more people must hold it or a conveyor must be used. Failure to do so may cause injury or damage the product.
- Do not disassemble the parts. Doing so may let dust enter the product or lose some of the functions.
- Tilting an LM block or LM rail may cause them to fall by their own weight.
- Do not drop or hit the LM Guide. Doing so may cause injury or damage the product. If an impact is applied, some of the functions may be lost even if the product looks intact.
- If the mounting surface is machined with low accuracy, it may decrease the accuracy or the service life and damage the product.
- When mounting the LM block, secure it with bolts at 12 points to gain a sufficient rigidity.
- Take care to prevent foreign material such as dust and cutting chips from entering the product. Failure to do so may damage the roller circulating part or cause a functional loss.
- Some types of coolants may disrupt product functions. If using the product in an environment where the coolant may enter the LM block, contact THK in advance.
- Do not use the product at temperature of 80°C or higher. Contact THK if you desire to use the product at a temperature of 80°C or higher.
- If foreign material such as dust or cutting chips adheres to the product, replenish the lubricant after cleaning the product with pure white kerosene. For available types of detergent, contact THK.
- If using the LM Guide in an inverted orientation, take a measure such as adding a safety mechanism for preventing the LM Guide from falling. If the end plate is fractured in an accident or the like, rollers may drop off and the LM block may come off and fall from the LM rail.
- When using the product in locations exposed to constant vibrations or in special environments such as clean rooms, vacuum and low/high temperature, contact THK in advance.
- If you remove the LM block from the LM rail and then reassemble the LM block with the LM rail, be sure to use the removing/mounting jog and carefully remove and insert the LM block. The removing/mounting jog is not included in the package as standard. If you desire to use it, contact THK.
- If using the pilot holes (not drilled through to prevent foreign material from entering the product) for top and side nipples of the LM block, contact THK in advance.
- Nipples are mounted at THK. Do not use the pilot holes dedicated for the top and side nipples for purposes other than mounting the nipples. Doing so may damage the product.

Lubrication
- Thoroughly remove anti-rust oil and feed lubricant before using the product. When planning to use a special lubricant, contact THK before using it.
- Do not mix lubricants of different physical properties.
- In locations exposed to constant vibrations or in special environments such as clean rooms, vacuum and low/high temperature, normal lubricants may not be used. Contact THK for details.
- When adopting oil lubrication, the lubricant may not be distributed throughout the LM system depending on the mounting orientation of the system. Contact THK for details.
- Lubrication interval varies according to the conditions. Contact THK for details.

Storage
- When storing the LM Guide, enclose it in a package designated by THK and store it in a horizontal orientation while avoiding high temperature, low temperature and high humidity.

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The photo may differ slightly in appearance from the actual product.
The appearance and specifications of the product are subject to change without notice. Contact THK before placing an order.
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For export of THK products as single items, contact THK in advance.

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