# Product Ordering Guide

![THK Logo]

THK is a leading manufacturer of linear motion products, offering a wide range of high-precision, high-quality LM Guides designed to meet the demands of modern manufacturing processes. This guide is designed to help you select the right LM Guide for your specific application. Let's explore the different types of LM Guides offered by THK and their features and applications.

## Types of LM Guides

### Radial Model

<table>
<thead>
<tr>
<th>Type</th>
<th>Load Capacity Diagram</th>
<th>Features</th>
<th>Major Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSR</td>
<td>![SSR Diagram]</td>
<td>• Low mounting height, compact design.</td>
<td>Grinding machine</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Optimal for horizontal mounting due to large radial load capacity.</td>
<td>Semiconductor manufacturing machine</td>
</tr>
<tr>
<td>SR</td>
<td>![SR Diagram]</td>
<td></td>
<td>High speed transfer equipment</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Ultra precision table</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Packaging machine</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Medical equipment</td>
</tr>
</tbody>
</table>

### Global Standard Model

<table>
<thead>
<tr>
<th>Type</th>
<th>Load Capacity Diagram</th>
<th>Features</th>
<th>Major Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHS</td>
<td>![SHS Diagram]</td>
<td>• Global standard dimensions.</td>
<td>Machining center</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• 4-way equal-load design allows these LM Guides to be used in all orientations.</td>
<td>NC lathe</td>
</tr>
<tr>
<td>HSR</td>
<td>![HSR Diagram]</td>
<td></td>
<td>Electric drilling machine</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Conveyance system</td>
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</tbody>
</table>

### Wide, Low Gravity Center Model

<table>
<thead>
<tr>
<th>Type</th>
<th>Load Capacity Diagram</th>
<th>Features</th>
<th>Major Application</th>
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</thead>
<tbody>
<tr>
<td>SHW</td>
<td>![SHW Diagram]</td>
<td>• Capable of receiving a large moment due to a 4-way equal-load, wide, low gravity center structure.</td>
<td>Printed circuit board drilling machine</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• The geometrical moments of inertia of the LM rail is large and the lateral rigidity is high.</td>
<td>Semiconductor manufacturing machine</td>
</tr>
<tr>
<td>HRW</td>
<td>![HRW Diagram]</td>
<td></td>
<td>Electric discharge machine</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Insertion machine</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Optical stage</td>
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</table>

### Lightweight, Compact Model

<table>
<thead>
<tr>
<th>Type</th>
<th>Load Capacity Diagram</th>
<th>Features</th>
<th>Major Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>SRS</td>
<td>![SRS Diagram]</td>
<td>• The most compact type in the Caged Ball LM Guide series.</td>
<td>Semiconductor manufacturing machine</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Lightweight, low-inertia structure.</td>
<td>Medical equipment</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>IC bonder</td>
</tr>
</tbody>
</table>

## Load Capacity

LM Guides are designed to handle specific loads and provide optimal performance in their respective applications. The load capacity diagrams illustrate the rated load capacities for each type, allowing engineers to make informed decisions about which LM Guide is best suited for their needs.

## Features

- Low mounting height, compact design.
- Optimal for horizontal mounting due to large radial load capacity.
- Global standard dimensions.
- 4-way equal-load design allows these LM Guides to be used in all orientations.
- Capable of receiving a large moment due to a 4-way equal-load, wide, low gravity center structure.
- The geometrical moments of inertia of the LM rail is large and the lateral rigidity is high.
- The most compact type in the Caged Ball LM Guide series.
- Lightweight, low-inertia structure.

## Major Applications

- Machining center
- NC lathe
- Electric drilling machine
- Conveyance system
- Printed circuit board drilling machine
- Semiconductor manufacturing machine
- Electric discharge machine
- Insertion machine
- Optical stage
- Semiconductor manufacturing machine
- Medical equipment
- IC bonder
**SSR**

| Full Assembly Part #: | SSR15 | XV | 1 | OZ | SS | HH | C1 | M | F | E | J | + | 5240L | Y | P | F | M | S | J | T | Ll |
|-----------------------|-------|----|---|----|----|----|----|---|---|---|---|---|-----|--|---|---|---|---|---|---|---|---|
| Block Only Part #:    | SSR15 | XV | 1 | OZ | SS | HH | C1 | M | F | E | J | (GK) BLOCK |
| Rail Only Part #*1:   | SR15  | 5240L | F | S | J | T | (GK) RAIL |

*Note: Sequence of letters in P/N may vary. Please refer to an official THK quotation for final part number.

**Model No.: SSR15 to 35**

<table>
<thead>
<tr>
<th>(1) Model # &amp; Size</th>
<th>(2) Block Style</th>
<th>(3) Number of Blocks on one Rail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>Size</td>
<td>Number of Blocks on one Rail</td>
</tr>
<tr>
<td>15</td>
<td>XV-Style</td>
<td>- None (no symbol)</td>
</tr>
<tr>
<td>20</td>
<td>XW-Style</td>
<td>- QZ Lubricator</td>
</tr>
<tr>
<td>25</td>
<td>Flanged Tapped Holes</td>
<td>- QZ Lubricator</td>
</tr>
<tr>
<td>30</td>
<td>Short TW-Style</td>
<td>- OZ Lubricator</td>
</tr>
<tr>
<td>35</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes:
1. SSR uses SR rails
2. Stainless Steel not available for Size 35 or XTB Block Style
3. Bellows not included.
4. K-Rail Not available on P-Grade or higher accuracies.

**Notes:**
- SS: End Seals + Side Seals (THK Std)
- DD: Double End Seals + Side Seals
- ZZ: End Seals, Side Seals, metal scraper
- KK: Double End Seals, Side Seals, metal scraper
- HH: Laminated Contact Scaper (LaCS)
- GG: Light Contact Seal
- PP: Light Contact Seal + Side Seal
- C1: Light Preload
- CS: Custom Preload (Drawing required)
- M: Stainless Steel (includes balls)
- E: Standard (no symbol)
- F: Contact THK for more details
- J: Tapped for Bellows
- Y: Std for Size 15,25
- T: Tapped Rail
- H: High
- P: Precision
- SP: Super Precision
- UP: Ultra Precision
- F: Plating (Contact THK for more details)
- M: Stainless Steel
- E: Standard (no symbol)
- J: Tapped for Bellows
- T: Normal (no symbol)
- II: Two Rails
- III: Three Rails
- IV: Four Rails

- Available only for Normal Accuracy, Normal & Light Preloads, SS or UU Seals & non-plated blocks.
- Must be ordered on multiples of -xx number.
- *Available only for Normal Accuracy, Normal & Light Preloads, SS or UU Seals & non-plated blocks.

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**Model No.: SSR15 to 35**

**Model No.: SSR15 to 35**
## SHS

### Full Assembly Part #:

|----------------|-------|-------|-------|--------|--------|--------|--------|-------|-------|--------|------------|--------|--------|--------|--------|--------|--------|--------|--------|

### Block Only Part #:

<table>
<thead>
<tr>
<th>Model # &amp; Size</th>
<th>SHS25</th>
<th>C (2)</th>
<th>1 (3)</th>
<th>OZ (4)</th>
<th>SS (5)</th>
<th>C1 (7)</th>
<th>J (10)</th>
<th>(GK) BLOCK</th>
</tr>
</thead>
</table>

### Rail Only Part #:

<table>
<thead>
<tr>
<th>Model # &amp; Size</th>
<th>SHS25</th>
<th>S240L (12)</th>
<th>F (15)</th>
<th>S (16)</th>
<th>J (17)</th>
<th>T (18)</th>
<th>(GK) RAIL</th>
</tr>
</thead>
</table>

### Notes:

1. **R & LR-Style Blocks not available for Size 20 and 65.**
2. **Bellows are not included.**
3. **Not available on P-Grade or higher accuracies.**

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**Model No.: SHS15 to 65**

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### Modification to block:

<table>
<thead>
<tr>
<th>Modification to rail:</th>
<th>Drawing required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clamp seal (Contact THK for more details)</td>
<td></td>
</tr>
</tbody>
</table>

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**Important Notes:***

- Sequence of letters in P/N may vary. Please refer to an official THK quotation for final part number.

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**Available only for Normal Accuracy, Normal & Light Preloads, SS or UU Seals & non-plated blocks.**
# Full Assembly Part #:
| SHW17 | CAN | 1 | QZ | SS | HH | C1 | F | M | J | E | P | F | M | S | J | T | II |
|-------|-----|---|----|----|----|----|---|---|---|---|---|---|---|---|---|---|---|---|

# Block Only Part #:
| SHW21 | CAN | 1 | QZ | SS | C1 | F | M | J | E | P | F | M | S | J | T | II |
|-------|-----|---|----|----|----|---|---|---|---|---|---|---|---|---|---|---|---|---|

# Rail Only Part #:
<table>
<thead>
<tr>
<th>SHW21</th>
<th>5240L</th>
<th>F</th>
<th>S</th>
<th>J</th>
<th>T</th>
<th>II</th>
</tr>
</thead>
</table>

### Notes:
1. Size 12~17 can only be ordered as assemblies.
2. Sizes 21+ are not available as stainless steel.
3. Sizes 12~17 are stainless steel as standard. Sizes 21+ are not available as stainless steel.
4. Bellows not included.
5. Seal Designation
   - UU: End Seals
   - SS: End Seals + Side Seals (THK Std)
   - DD: Double End Seals + Side Seals
   - ZZ: End Seals, Side Seals, metal scraper
   - KK: Double End Seals, Side Seals, metal scraper
6. Laminated Contact Scrape
   - HH: Laminated Contact Scaper (Sizes 17+)
7. Radial Clearance
   - Normal (no symbol)
   - C1: Light Preload
   - C0: Medium Preload (Size 35 & 50 only)
   - CS: Custom Preload (Drawing required)
8. Block Plating
   - None (no symbol)
   - F: Contact THK for more Details
9. Block Material
   - Alloy Steel (no symbol)
   - Stainless Steel (includes balls)
    - None (no symbol)
    - J: Tapped for Bellows
11. Non-Std Block
    - Standard (no symbol)
    - E: Modification to block (Drawing required)
12. Rail Length
    - Overall length in mm
13. Accuracy Grade
    - Normal (no symbol)
    - H: High
    - P: Precision
    - SP: Super Precision
    - UP: Ultra Precision
14. Rail Plating
    - None (no symbol)
    - F: Plating (Contact THK for more details)
15. Rail Material
    - Alloy Steel (no symbol)
    - Stainless Steel
16. Non-Std Rail
    - Standard (no symbol)
    - E: Modification to rail (Drawing required)
17. Bellows Prep.
    - None (no symbol)
    - J: Tapped for Bellows
18. Jointed Rail
    - Normal (no symbol)
    - T: Two or more rails butted end to end (Drawing required)
19. # of Rails used in parallel and planar
   - Normal (no symbol)
   - II: Two Rails
   - III: Three Rails
   - IV: Four Rails
   - Must be ordered on multiples of -xx number.
20. Interchangeable Series
    - GK: For Blocks & Rails ordered separately

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Model No.: SHW12 to 50

**Available only for Normal Accuracy, Normal & Light Preloads, SS or UU Seals & non-plated blocks.**
**SRS**

**Full Assembly Part #1:**

<table>
<thead>
<tr>
<th>(1) Number of Blocks on one Rail</th>
<th>No symbol for one block</th>
</tr>
</thead>
<tbody>
<tr>
<td>(2) QZ Lubricator</td>
<td>None (no symbol)</td>
</tr>
<tr>
<td>(3) Seal Designation</td>
<td>QZ Lubricator</td>
</tr>
<tr>
<td>(4) SS End Seals (THK Std)</td>
<td>QZ Lubricator</td>
</tr>
<tr>
<td>(5) End Seals + Side Seals</td>
<td>QZ Lubricator</td>
</tr>
<tr>
<td>(6) Laminated Contact Scraper</td>
<td>Normal (no symbol)</td>
</tr>
<tr>
<td>(7) Radial Clearance</td>
<td>Normal (no symbol)</td>
</tr>
<tr>
<td>(8) Block Plating</td>
<td>C1 Light Preload</td>
</tr>
<tr>
<td>(9) Non-Std Block</td>
<td>CS Custom Preload (Drawing required)</td>
</tr>
<tr>
<td>(10) Rail Length</td>
<td>Overall length in mm</td>
</tr>
<tr>
<td>(11) Accuracy Grade</td>
<td>Normal (no symbol)</td>
</tr>
<tr>
<td>(12) Rail Plating</td>
<td>F Plating (Contact THK for more details)</td>
</tr>
<tr>
<td>(13) Rail Material</td>
<td>M Standard Stainless Steel</td>
</tr>
<tr>
<td>(14) Non-Std Rail</td>
<td>E Standard (no symbol)</td>
</tr>
<tr>
<td>(15) Jointed Rail</td>
<td>Modification to rail (Drawing required)</td>
</tr>
<tr>
<td>(16) # of Rails used in parallel and planar</td>
<td>Normal (no symbol)</td>
</tr>
</tbody>
</table>

Notes:

*1. All SRS’s must be ordered as assemblies.*

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**Model No.: SRS5 to 25**

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**Notes:**

- Full Assembly Part #1: 2 SRS20 M QZ SS HH C1 F E + 5240L P F M S T -II (16)
- Notes: Sequence of letters in P/N may vary. Please refer to an official THK quotation for final part number.

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**Material & Size**

- SRS..WM Rail
- SRS..M Rail

**Block Style**

- M-Style Narrow Tapped Holes
- WM-Style Wide Tapped Holes
- GM-Style Full Ball Type Narrow Tapped Holes
- WGM-Style Full Ball Type Wide Tapped Holes

**Size**

- 5
- 7
- 9
- 12
- 15
- 20
- 25

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**Rail Plating**

- None (no symbol)
- F Plating (Contact THK for more details)

**Rail Material**

- M Standard Stainless Steel
- E Standard (no symbol)

**Jointed Rail**

- Normal (no symbol)
- Two or more rails butted end to end (Drawing required)

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**Notes:**

- Full Ball Type
- Full Ball Type

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**Notes:**

- Must be ordered on multiples of xx number.

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**Model No.: SRS5 to 25**

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**Notes:**

- Must be ordered on multiples of xx number.
**SR**

**Model No.:** SR15 to 150

### Full Assembly Part #:

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Size</th>
<th>Block Style</th>
<th>Number of Blocks on one Rail</th>
<th>Radial Clearance</th>
<th>Block Plating</th>
<th>Block Material</th>
<th>Bellows Prep.</th>
<th>Non-Std Block</th>
<th>Rail Length</th>
<th>Rail Options</th>
<th>Accuracy Grade</th>
<th>Rail Plating</th>
<th>Rail Material</th>
<th>Non-Std Rail</th>
<th>Bellows Prep.</th>
<th>Jointed Rail</th>
<th># of Rails used in parallel and planar</th>
<th>Interchangeable Series</th>
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<tbody>
<tr>
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</tbody>
</table>

*Note: Sequence of letters in P/N may vary. Please refer to an official THK quotation for final part number.*
### Full Assembly Part 

<table>
<thead>
<tr>
<th>Part Number</th>
<th>HSR25</th>
<th>A</th>
<th>2</th>
<th>OZ</th>
<th>SS</th>
<th>HH</th>
<th>C1</th>
<th>F</th>
<th>M</th>
<th>E</th>
<th>J</th>
<th>G (GK) BLOCK</th>
</tr>
</thead>
</table>

### Block Only Part:

<table>
<thead>
<tr>
<th>Part Number</th>
<th>HSR25</th>
<th>A</th>
<th>2</th>
<th>OZ</th>
<th>SS</th>
<th>C1</th>
<th>E</th>
<th>J</th>
<th>(GK) BLOCK</th>
</tr>
</thead>
</table>

### Rail Only Part:

<table>
<thead>
<tr>
<th>Part Number</th>
<th>HSR25</th>
<th>5240L</th>
<th>F</th>
<th>S</th>
<th>J</th>
<th>(GK) RAIL</th>
</tr>
</thead>
</table>

### Notes:

1. Sizes 8~12 are only available as assemblies.
2. Sizes 8~12 are only available with UU seals.
3. Sizes 8~12 are stainless steel. Stainless steel is not available over size 35.
4. Bellows are not included.
5. Not available on P-Grade or higher accuracies.

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**Model No.: HSR8 to 85**

---

*Note: Sequence of letters in P/N may vary. Please refer to an official THK quotation for final part number.*
# HRW

## Full Assembly Part #1:

<table>
<thead>
<tr>
<th>Model No. &amp; Size</th>
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<tbody>
<tr>
<td>HRW21 (1)</td>
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</table>

## Block Only Part:

<table>
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<td>HRW21 (1)</td>
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## Rail Only Part:

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</thead>
<tbody>
<tr>
<td>HRW21 (1)</td>
</tr>
</tbody>
</table>

### Notes:
- **1.** Sizes 12~17 can only be ordered as assemblies.
- **2.** CR-Style Blocks not available for Size 60.
- **3.** Sizes 50 & 60 are not available in stainless steel.
- **4.** Bellows not included.
- **5.** For sizes 12 & 14 only UU and SS are available, sizes 17 & 21 cannot have a side seal.

### Model No.: HRW12 to 60

<table>
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<tr>
<th>Item</th>
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<tbody>
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<td>HRW21</td>
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### THK America, Inc.

<table>
<thead>
<tr>
<th>Address</th>
<th>Phone</th>
<th>Email</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>200 E. Commerce Drive, Schaumburg, IL 60173</td>
<td>(847) 310-1111</td>
<td><a href="mailto:chicago@thk.com">chicago@thk.com</a></td>
<td><a href="http://WWW.THK.COM">WWW.THK.COM</a></td>
</tr>
</tbody>
</table>

### Other Locations:

- **NORTHEAST**
  - Tel: (631) 244-1565
- **DETROIT**
  - Tel: (248) 858-9330
- **LOS ANGELES**
  - Tel: (949) 955-3145
- **SAN FRANCISCO**
  - Tel: (925) 455-8948
- **ATLANTA**
  - Tel: (770) 840-7990
- **THK CANADA TORONTO**
  - Tel: (905) 820-7800
- **THK MEXICO**
  - Querétaro: +52 (442) 412-8437
  - Monterrey: +52 (81) 8064-5087