

# CIRCULAR GUIDE RAIL

# **About Us**

Jingpeng Machinery Equipment (Shanghai) Co., Ltd. was established in 2015. Its main products include ball screws, linear guides, cross guides, precision ball screws/splines, single-axis actuators, medium and large bearings, racks, couplings, support units, servo motors and drivers, etc. In cooperation with the German YOSO company, Jingpeng has independent import and export rights. Jingpeng has completed trademark registration and continues to promote its use. Now YOSO is one of the world's well-known brands. The company's products are sold all over the world and exported to the United States, Spain, Turkey, Italy, Austria, Brazil and other countries. Jingpeng Machinery learns German production technology, combines European and Japanese design concepts, and has specially established an independent R&D center, introducing advanced manufacturing equipment and high-precision testing equipment at home and abroad, and has completed an annual output value of 1.5 million sets of screw guides.

The product application areas are as follows: Automation industry Robotics industry Semiconductor industry Industrial machinery Medical equipment Green energy industry Machine tools Automatic storage system products have outstanding performance in various industrial fields. Jingpeng Machinery integrates global resources, continues to innovate, and works tirelessly for the better welfare of mankind and a better working environment. In the field of transmission components, Jingpeng Machinery has become the best partner with high-quality professional manufacturing and solutions, and provides technical support and industry analysis to meet customer needs. At the same time, we have a solid business team to ensure the stability of the foreign trade sales system and strong market development capabilities, so that our products can be exported to all parts of the world at the fastest speed. Jingpeng Machinery is a global professional manufacturer of transmission control products and system technology products.



# **YOSO Circular Guide Rail Series**

Arc linear guides include roller linear guides and ball linear guides, which can form precision circular guides; in combination with the drive system, they can form precision circular assembly lines, circular production lines, or circular assembly lines. This type of guide circular assembly line has a more compact structure, higher positioning accuracy, and more configuration options; it is superior to traditional conveying lines in many aspects.

Modern production plants are always looking for ways to reduce production costs. One direction of automation is to combine each workstation as closely as possible, reduce the distance between workpieces, and minimize the space occupied. To achieve this, the workpiece needs to move in a circular motion, which requires the use of a circular line. There are two types of circular lines: traditional non-guide rails and precision guide rails, which are described as follows:

### ■ Traditional belt type

Belt conveyor line is a relatively simple conveyor line. The wide conveyor belt is wound around two rollers at a certain distance. The rollers rotate, the conveyor belt moves, and the workpiece on the belt moves. The roller conveyor line is similar to the belt conveyor line, except that the belt is replaced by several closely arranged rollers.

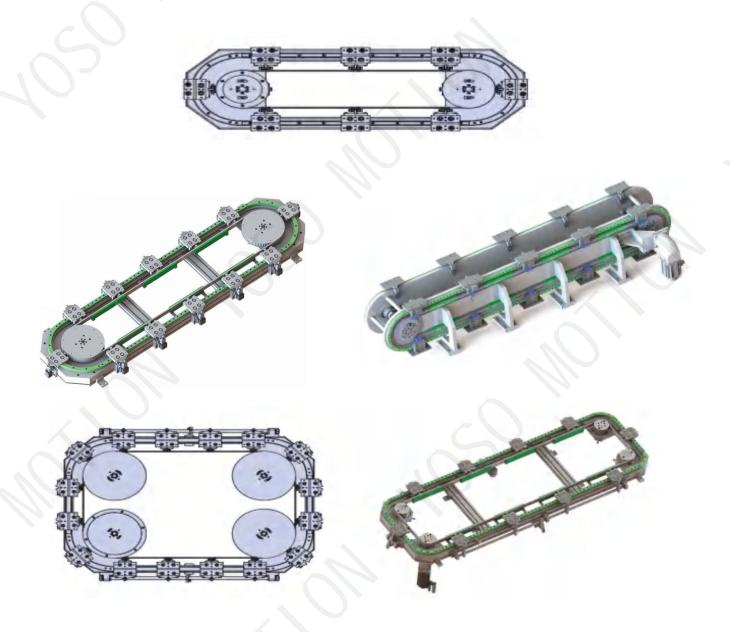
In the case of a circular line without a guide rail, the workpiece is fixed on a belt or roller, which is not rigid. The friction force generated by gravity cannot effectively limit the left-right, front-back, and up-and-down movement of the workpiece. To prevent the workpiece from falling out, baffles need to be added on both sides of the belt or roller. Since the workpiece is not fixed on the belt or roller, the workpiece often vibrates; if the shape of the workpiece is complex, it will often stick to the parts of the conveyor line. Fixing the workpiece on the conveyor line by the friction force generated by gravity can neither guarantee good positioning accuracy nor make the conveyor line vertical. The fixed workpiece is not rigid, which limits the moving speed of the conveyor line.

#### Precision linear rail type

The workpiece is fixed on the slide, and the slide rolls on the guide rail through the roller. The guide rail limits the freedom of the slide very well and can only move freely in one direction. Therefore, the guide rail type circular assembly line has higher speed and higher positioning accuracy.

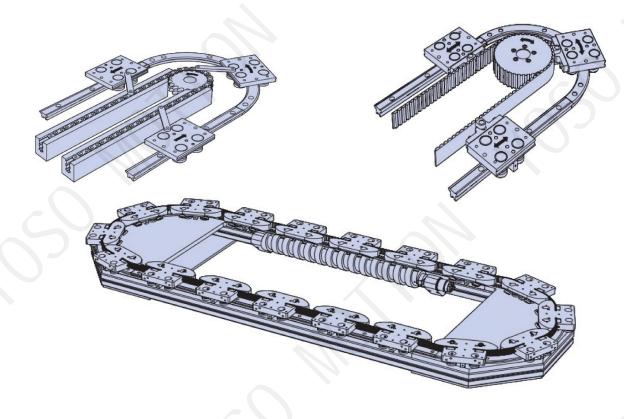
The summary, when you need to achieve precision automation in a small space: the workpiece moves quickly between workstations; after the movement stops, the workpiece has good position accuracy; after the movement stops, additional force can be applied to the workpiece for processing or assembly; then you can choose precision circular guides as the basis of your circular assembly line design.

There are two main ways to use annular guiderailfor annular line:runway shapeand square:





Arc linear guide, coupled with the drive system, becomes an annular assembly line; At present, there are three main driving modes: chain type, synchronous belt type and screw type:





Lifting and positioning mechanism





360° arc track and slide



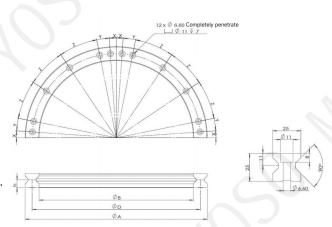
180°, 90° arc track



Swing arm positioning mechanism

## ■ T-Ring Rail Model HCP25 Product Drawing

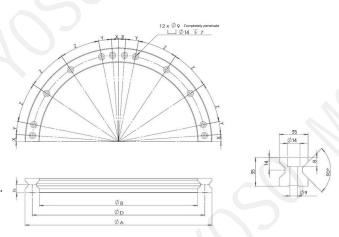
The T-shaped working surface is hardened and has very good wear resistance. The guide rail is precisely ground by CNC guide rail grinder. The guide rail base has no hardness and can be machined. There are three sizes to choose from, and the guide rail can be extended to any length.



| Component<br>Specifications |     |      |      |    |    | Mair | n dimen | sions |   |      |          |           |
|-----------------------------|-----|------|------|----|----|------|---------|-------|---|------|----------|-----------|
| HCP25                       | В   | D    | Α    | h  | Н  |      | R       |       | Χ | Υ    | Z        | n*HSpigot |
| HCP25-200                   | 175 | 200  | 225  |    |    |      |         |       |   | 22   | 2.5      |           |
| HCP25-255                   | 230 | 255  | 280  |    |    |      |         |       |   |      |          |           |
| HCP25-300                   | 275 | 300  | 325  |    |    |      |         |       |   |      |          |           |
| HCP25-351                   | 326 | 351  | 376  |    |    |      |         |       | 4 | 7.25 | <u> </u> |           |
| HCP25-400                   | 375 | 400  | 425  |    |    |      |         |       |   |      |          |           |
| HCP25-468                   | 443 | 468  | 493  | 14 | 25 | 90°  | 180°    | 360°  |   |      | 22.5     | M6        |
| HCP25-500                   | 475 | 500  | 525  |    |    |      |         |       |   |      | 22.5     |           |
| HCP25-600                   | 575 | 600  | 625  |    |    |      |         |       |   |      |          |           |
| HCP25-700                   | 675 | 700  | 725  |    |    |      |         |       | 3 | 8.25 |          |           |
| HCP25-800                   | 775 | 800  | 825  |    |    |      |         |       |   |      |          |           |
| HCP25-1000                  | 975 | 1000 | 1025 |    |    |      |         |       |   |      |          |           |

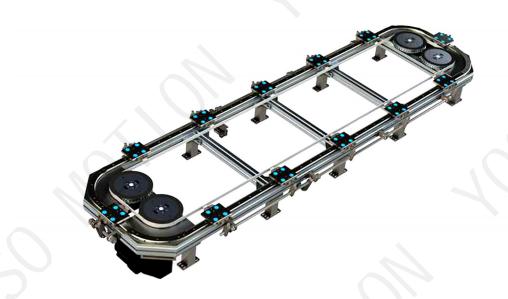
## ■ T-Ring Rail Model HCP35 Product Drawing

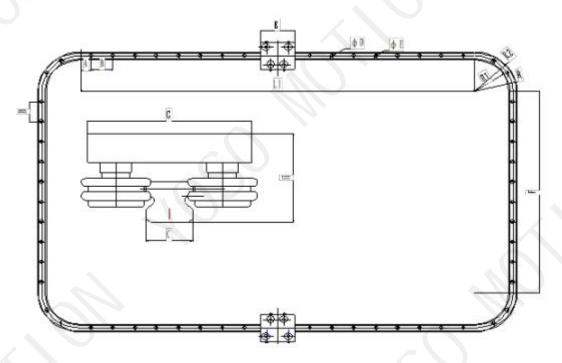
The T-shaped working surface is hardened and has very good wear resistance. The guide rail is precisely ground by CNC guide rail grinder. The guide rail base has no hardness and can be machined. There are three sizes to choose from, and the guide rail can be extended to any length.



| Component<br>Specifications |     |     |     |    |    | Mair | n dimen | sions |    |    |          |           |
|-----------------------------|-----|-----|-----|----|----|------|---------|-------|----|----|----------|-----------|
| HCP35                       | В   | Д   | Α   | 'n | Ι  |      | R       |       | Χ  | Υ  | Z        | n*HSpigot |
| HCP35-300                   | 266 | 300 | 334 |    |    |      |         |       |    |    |          |           |
| HCP35-400                   | 366 | 400 | 434 | 21 | 35 | 90°  | 180°    | 360°  | 12 | 28 | 30       | M9        |
| HCP35-500                   | 466 | 500 | 534 | 21 | 33 | 70   | 100     | 300   | 12 | 20 | 30       | 1*17      |
| HCP35-600                   | 566 | 600 | 634 |    |    |      |         |       |    |    | <b>)</b> |           |

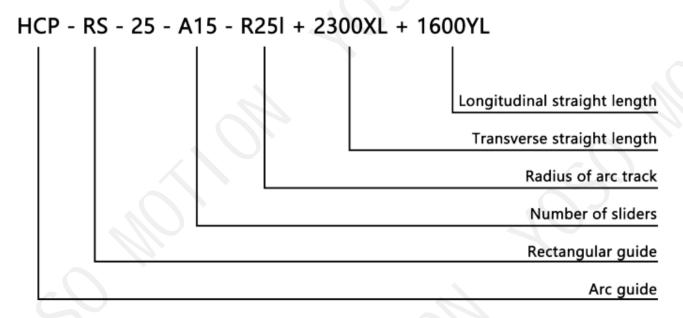
■ HCP-RS dimension series table (rectangular)





| Specifications | А  | В  | С  | D | Е  | G   | Н  | K   | R   | R1  | R2  | L1       | Static load<br>(Single block) |
|----------------|----|----|----|---|----|-----|----|-----|-----|-----|-----|----------|-------------------------------|
| HCP-RS-25      | 30 | 60 | 23 | 7 | 12 | 96  | 52 | 100 | 300 | 277 | 323 | Any size | Maximum 15KG                  |
| HCP-RS-35      | 30 | 80 | 35 | 9 | 14 | 100 | 62 | 120 | 280 | 263 | 297 | Any size | Maximum 50KG                  |

■ HCP-RS dimension series table (rectangular)

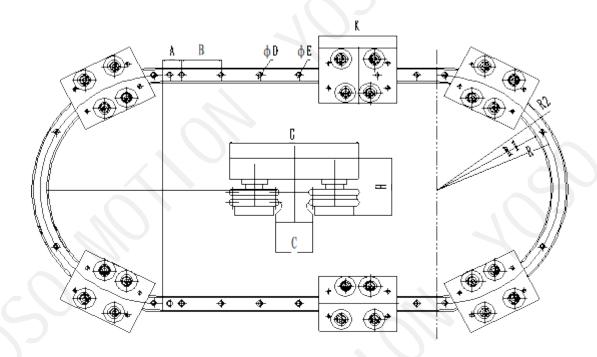


The commonly used radius of arc is 100R/150R/200R/251R/300R.Other radii can be customized according to actual requirements. The minimum radius is 100R and the maximum radius is 300R

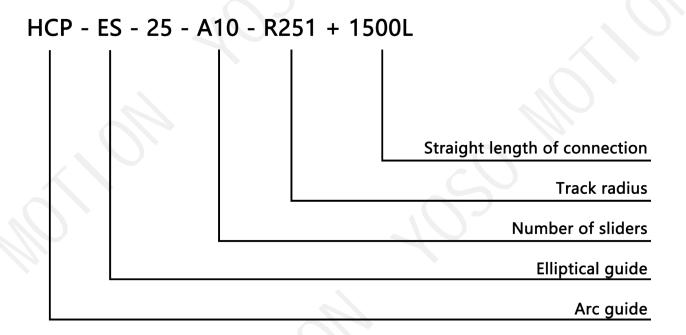
■ HCP-ES dimension series table (ellipse)



## ■ HCP-ES dimension series table (ellipse)



| Specifications | Α  | В  | С  | D | Е  | G   | Н  | K   | R   | R1  | R2  | L1       | Static load<br>(Single block) |
|----------------|----|----|----|---|----|-----|----|-----|-----|-----|-----|----------|-------------------------------|
| HCP-ES-25      | 30 | 60 | 23 | 7 | 12 | 96  | 52 | 100 | 300 | 277 | 323 | Any size | Maximum 15KG                  |
| HCP-ES-35      | 30 | 80 | 35 | 9 | 14 | 100 | 62 | 120 | 280 | 263 | 297 | Any size | Maximum 50KG                  |





## ■ Parameter table of annular guide rail operating platform

| Project | Content  |
|---------|--|
| 1       | Single slide load( )KG   |
| 2       | Center distance of sliding seat( )mm and number of sliding seats( )  |
| 3       | Total length of track installation workbench X wide range( )   |
| 4       | Maximum speed of track operation( )m/s   |
| 5       | Sliding seat positioning accuracy+-( )mm   |
| 6       | How many tooling needs to be accurately positioned( )  |
| 7       | Running time beat from tooling A to tooling B( )S  |
| 8       | Installation mode horizontal/vertical( )   |
| 9       | Length( )*width( )*height( )dimension of tooling object on sliding base  |
| 10      | Whether the tooling objects bear eccentric load and the size of eccentric load( )  |
| 11      | Whether the sliding seat bears the press mounting force/impact pressure( )   |
| 12      | Operating environment and special instructions( )  |
| 13      | Radius( )Line length( )or perimeter( )   |
| Notes   | Note:YOSO products with a radius of less than 300 can be customized with a radius of more than 300.It is recommended to use rectangular structure with four-corner arc |
|         |  |

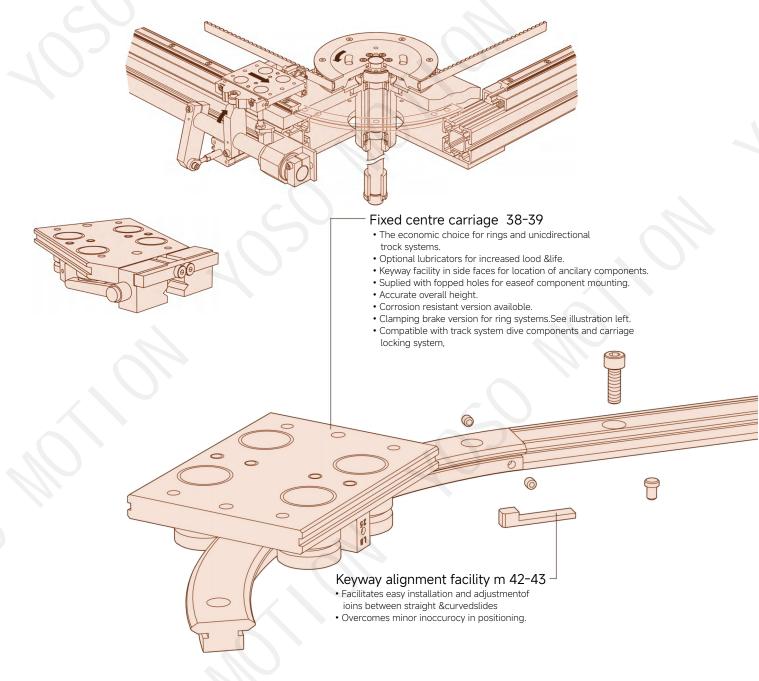
#### System Composition

Track systems combining loop segments with straight runners allow for virtually unlimited open path or closed circuit variations. Both left and right hand bends are negotiable, depending on the runner selected. 90° and 180° segments in all standard double-sided loop sizes are available for straight runners up to 4 meters in length. Straight runners can be butted together to achieve track systems of unlimited length.

#### Driven track system components 50-51

- Comprehensive range of drive components available from complete proven system.
- Trip latch overload prolection
- · Carriage positioning and locking system.
- · Toothed belt with carioge connechion focility.

- Corner support plates.
- Drive and idler pulleys wih Hi-load bearing cartridges.
- Support famewith slide attachment focliy.

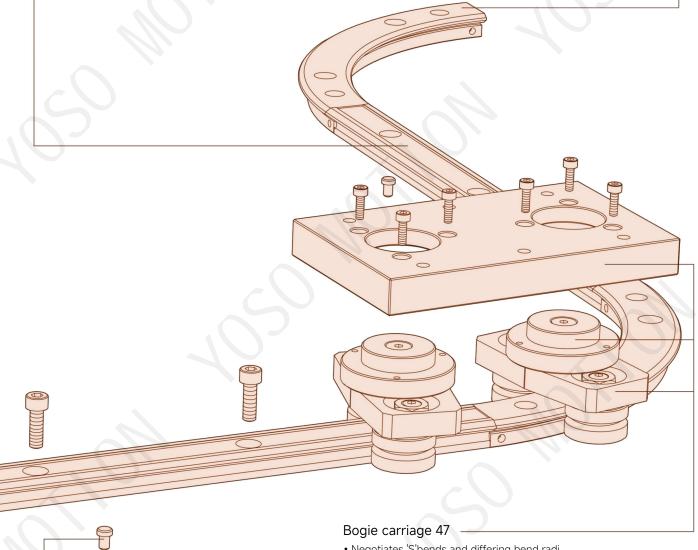


## System Composition

#### ■ Tracksystem straight slides 42-43/Track system curved segments 44\*

- \*Ground dotum faces for location purposes.
- \*Soft centre allows customising
- \*Precision ground on ends and all important foces.
- \*Stainless steel option.
- \*All segments and slides precision matched.
- \*Ground dotum faces for location purposes.
- \*Option available to suit pre-drilled mounting holes.

- \*90° and 180° segments available from stock.
- \*Any length segment available to order.
- Central keyway for location and alignment.
- · Up to 4m in one piece, unlimited length achieved by butting.

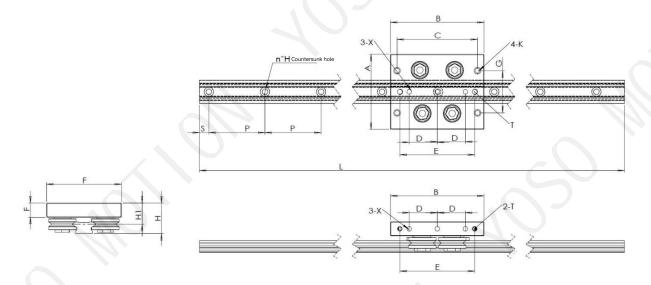


#### Dowel pins 42-43

· Locates incentral keyway of straight slide for eose of location and alignment.

- Negotiates 'S'bends and differing bend radi.
- High performance swivel bearing for precision movement and extreme rigidity.
- Swivel bearingsore lubricoted for life internally.
- Available in three sizesto suit 25,44&76 track systems.
- Supplied with tapped holes for easeofcomponentmounting.
- Accurate overall height.
- · largeplafform for mounting purposes.

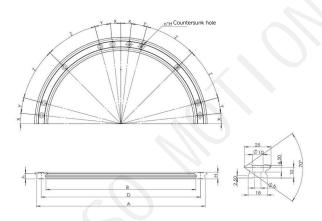
## ■ V-rail HVR25C straight rail products



| Component                |    |     |    |    |    |    | Main | dimensi       | ions |    |      |      |     |     |     |           |
|--------------------------|----|-----|----|----|----|----|------|---------------|------|----|------|------|-----|-----|-----|-----------|
| Specifications HVR25C    | Α  | В   | С  | D  | Ш  | F  | G    | S             | Р    | با | H    | H1   | 4-K | 3-X | 2-T | n*HSpigot |
| HVR25C<br>Straight Track | 80 | 100 | 86 | 30 | 80 | 15 | 45   | End<br>distan | 60   | 4M | 35.4 | 22.6 | M6  | φ5  | M6  | M6        |

## ■ V-Ring Rail Model HVR25C Product Drawing

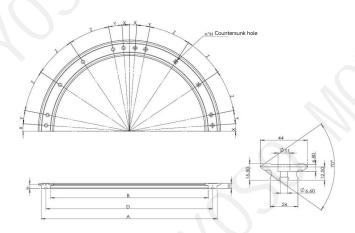
The V-shaped working surface is hardened and has excellent wear resistance. The guide rail is precision ground by CNC grinder. The guide rail base has no hardness and can be machined. Three sizes are available, and the guide rail can be extended to any length by docking.



| Component<br>Specifications |     |     |     |    |      | Mair | n dimen | sions |   | 1 - |    |           |
|-----------------------------|-----|-----|-----|----|------|------|---------|-------|---|-----|----|-----------|
| HVR25C                      | В   | D   | Α   | h  | Ξ    |      | R       |       | X | Υ   | Z  | n*HSpigot |
| HVR25C-200                  | 175 | 200 | 225 |    |      |      |         |       |   |     |    |           |
| HVR25C-255                  | 230 | 255 | 280 |    |      |      |         |       |   |     |    |           |
| HVR25C-300                  | 275 | 300 | 325 | 10 | 12.5 | 90°  | 180°    | 360°  | 6 | 9   | 30 | 10*M5     |
| HVR25C-351                  | 326 | 351 | 376 |    |      |      |         |       |   |     |    |           |
| HVR25C-400                  | 375 | 400 | 425 |    |      |      |         |       |   |     |    |           |

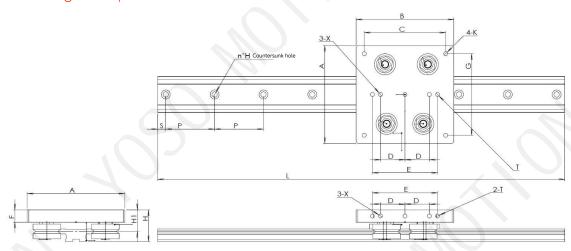
## ■ V-rail HVR44C products

The V-shaped working surface is hardened and has very good wear resistance. The guide rail is precisely ground by a CNC guide rail grinder. The guide rail base has no hardness and can be processed. There are three sizes to choose from. The guide rail can be extended to any length by docking.



| Component<br>Specifications |     |                             |     |      |      | Mair | n dimen | sions |   |      |      |    |
|-----------------------------|-----|-----------------------------|-----|------|------|------|---------|-------|---|------|------|----|
| HVR44C                      | В   | B D A h H R X Y Z n*HSpigot |     |      |      |      |         |       |   |      |      |    |
| HVR44C-468                  | 442 | 468                         | 494 | 40.  | 45.5 | 000  | 400°    | 7.00  |   | 705  | 00.5 |    |
| HVR44C-612                  | 586 | 612                         | 638 | 12.5 | 15.5 | 90°  | 180°    | 360°  | 4 | 7.25 | 22.5 | M6 |

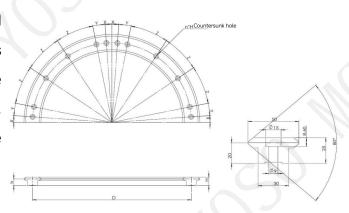
## ■ V-rail HVR44C straight rail products



| Component                |     |     |     |    |    |    | Main | dimensi       | ions     |    |      |      |     |     |     |           |
|--------------------------|-----|-----|-----|----|----|----|------|---------------|----------|----|------|------|-----|-----|-----|-----------|
| Specifications HVR44C    | Α   | В   | С   | D  | Е  | F  | G    | S             | Р        | L  | H    | H1   | 4-K | 3-X | 2-T | n*HSpigot |
| HVR44C<br>Straight Track | 120 | 120 | 100 | 30 | 80 | 15 | 100  | End<br>distan | 60<br>ce | 4M | 38.9 | 26.4 | M6  | φ5  | M6  | M6        |

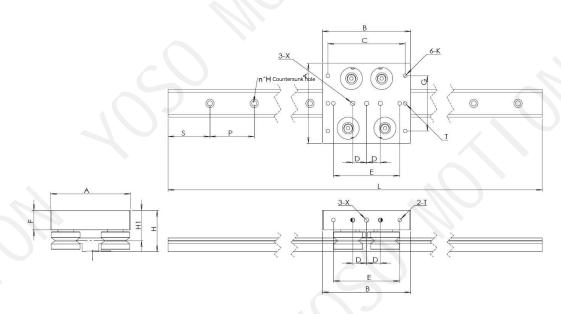
### ■ V-rail HVR50C products

The V-shaped working surface is hardened and has very good wear resistance. The guide rails are precisely ground by CNC grinders. The guide rail base has no hardness and can be machined. There are three sizes to choose from. The guide rails can be extended to any length by docking.



| Component                |     |    |    |     |      | 1    | Main din | nension | S    |           |
|--------------------------|-----|----|----|-----|------|------|----------|---------|------|-----------|
| Specifications<br>HVR50C | D   | h  | Н  |     | R    |      | Х        | Υ       | Z    | n*HSpigot |
| HVR50C-468               | 468 | 20 | 25 | 90° | 180° | 360° | 4        | 7.25    | 22.5 | M8        |
| HVR50C-600               | 600 | 20 | 25 | 90° | 180° | 360° | 3        | 8.25    | 22.5 | M8        |
| HVR50C-800               | 800 | 20 | 25 | 90° | 180° | 360° | 3        | 8.25    | 22.5 | M8        |

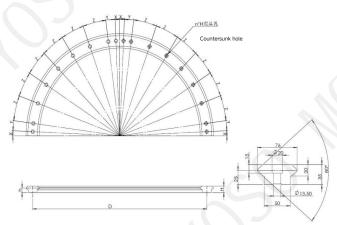
## ■ V-rail HVR50C straight rail products



| Component                |     |     |     |    |     |    | Main | dimensi       | ons      |    |      |      |     |     |     |           |
|--------------------------|-----|-----|-----|----|-----|----|------|---------------|----------|----|------|------|-----|-----|-----|-----------|
| Specification HVR50C     | А   | В   | С   | D  | ш   | F  | G    | S             | Р        | Ш  | H    | H1   | 4-K | 3-X | 2-T | n*HSpigot |
| HVR50C<br>Straight Track | 145 | 160 | 140 | 25 | 120 | 35 | 100  | End<br>distan | 60<br>ce | 4M | 38.9 | 26.4 | M8  | φ8  | M8  | M8        |

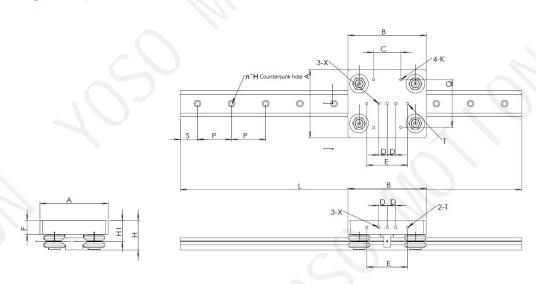
## ■ V-rail HVR76C products

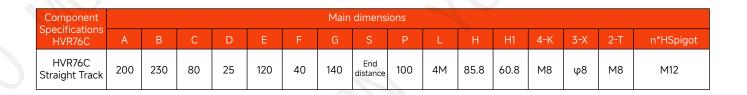
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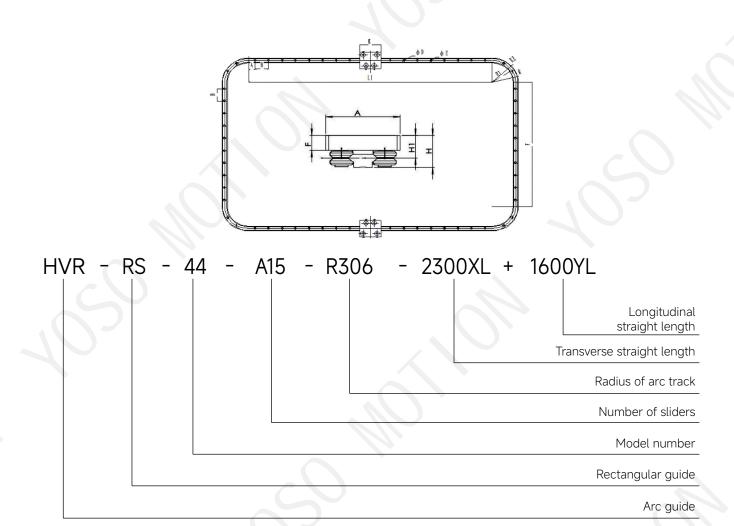
| Component                |      |    |    |     |      | 1    | Main din | nension | s    | $\mathcal{I} \mathcal{O}$ |
|--------------------------|------|----|----|-----|------|------|----------|---------|------|---------------------------|
| Specifications<br>HVR76C | D    | h  | Н  |     | R    |      | Х        | Υ       | Z    | n*HSpigot                 |
| HVR76C-1000              | 1000 |    |    |     |      |      |          |         |      | M12                       |
| HVR76C-1033              | 1033 | 25 | 35 | 90° | 180° | 360° | 12.5     | 12.5    | 12.5 | M12                       |
| HVR76C-1267              | 1267 | 25 | 35 | 90° | 180° | 360° | 2.5      | 5       | 12.5 | M12                       |
| HVR76C-1501              | 1501 |    |    |     |      |      |          |         |      | M12                       |

## ■ V-rail HVR76C straight rail products

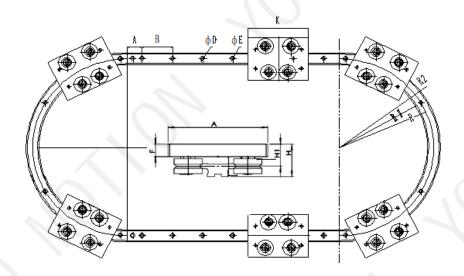


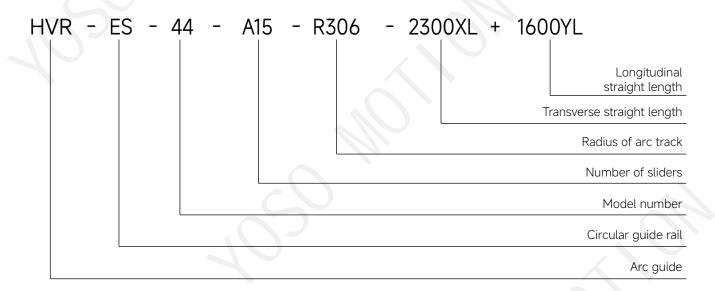


■ V-rail HVR76C dimension series table (rectangular)



■ V-rail dimension series table (ellipse)

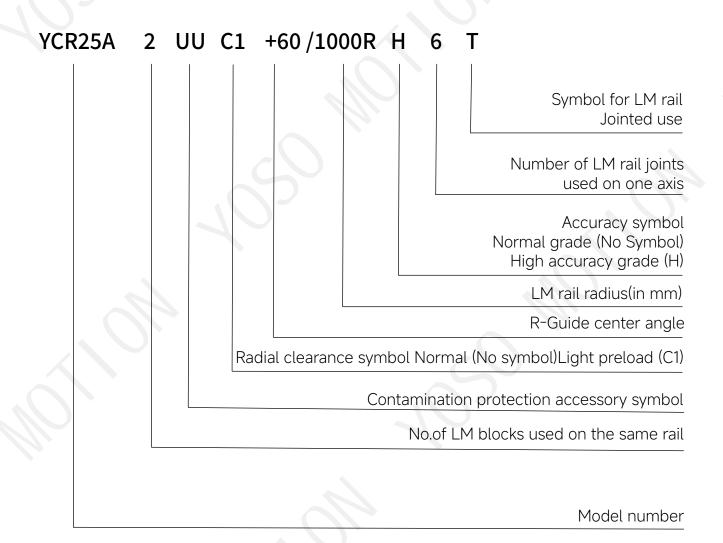




## YCR rolling arc guide

Rolling arc guide is derived from YGH precision ball linear guide. On the premise of inheriting many advantages of YGH, it can realize the circular motion of arc objects of any diameter, overcoming the size limitation brought by the processing of bearings or rolling bearings. In theory, the larger the diameter of YCR arc guide, the more convenient it is to design, manufacture, install and maintain. Moreover, due to the unique mechanism design of YCR, it can achieve no gap and heavy load.

- Application
   Large turntable, control device, medical device, stage device, vertical lathe
- Naming rules and meaning
   Large turntable, control device, medical device, stage device, vertical lathe



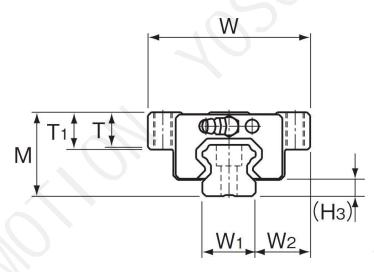
## Accuracy class

| No. | diagram | Inspection ite  | ms            | Toler         | ance     |  |
|-----|---------|---|---------------|---------------|----------|--|
|     |         |   | Arc length    | Accurac       | cy class |  |
|     |         |   | of guide rail | 4             | 5        |  |
|     |         | Parallelism between the center of the top             | ≤250          | 0.015         | 0.035    |  |
| 1   |         | surface of the slider and the reference               | >250~500      | 0.025         | 0.055    |  |
|     |         | ground of the guide<br>rail                           | >500~1000     | 0.035         | 0.07     |  |
|     |         |   | >1000~1500    | 0.04          | 0.08     |  |
|     |         |   | >1500~2000    | 0.045         | 0.09     |  |
|     | FOTO    | Limit deviation of<br>height H between the            | Ac            | ccuracy class |          |  |
| 2   | H       | top surface of the slider and the reference ground of | 4             | !             | 5        |  |
|     |         | the guide rail  | ±0.06         | ±0.10         |          |  |
|     |         | Variation of height H                                 | Ac            | curacy class  |          |  |
| 3   |         | of top surface of multiple sliders on                 | 4             | ļ             | 5        |  |
|     |         | the same plane  | 0.02          | 0.03          |          |  |

## • Type of preload

| Indication mark | Ordinary | General preload |
|-----------------|----------|-----------------|
| Model           | Unmarked | C1              |
| YCR12           | -3~+3    | -6~-2           |
| YCR15           | -4~+2    | -12~-4          |
| YCR25           | -6~+3    | -16~-6          |
| YCR35           | -8~+4    | -22~-8          |
| YCR45           | -10~+5   | -25~-10         |
| YCR65           | -14~+7   | -32~-14         |

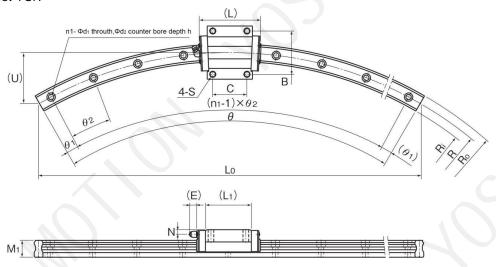
### R Guide Model YCR



|                 | Oute        | r dimen    | sions       |     |     |       | LM   | block dir | mensions |          |     |                  | Hoiselet    |  |  |  |
|-----------------|-------------|------------|-------------|-----|-----|-------|------|-----------|----------|----------|-----|------------------|-------------|--|--|--|
| Model No.       | Height<br>M | Width<br>W | Length<br>L | В   | С   | S     | L1   | Т         | T1       | N        | E   | Grease<br>Nipple | Height<br>M |  |  |  |
| YCR12A+60/100R  | 18          | 39         | 44.6        | 32  | 18  | M4    | 30.5 | 4.5       | 5        | 3.4      | 3.5 | PB107            | 3.1         |  |  |  |
| YCR15A+60/150R  |             |            | 54.5        |     | 24  |       |      |           |          |          |     |                  |             |  |  |  |
| YCR15A+60/300R  | 24          | 47         | 55.5        | 38  | 28  | M5    | 38.8 | 10.3      | 11       | 4.5      | 5.5 | PB1021B          | 4.8         |  |  |  |
| YCR15A+60/400R  |             |            | 55.8        |     | 28  |       |      |           |          |          |     |                  |             |  |  |  |
| YCR25A+60/500R  |             |            | 81.6        |     |     |       |      |           |          |          |     |                  |             |  |  |  |
| YCR25A+60/750R  | 36          | 70         | 82.3        | 57  | 45  | M8    | 59.5 | 14.9      | 16       | 6        | 12  | B-M6F            | 7           |  |  |  |
| YCR25A+60/1000R | -           |            | 82.5        |     |     |       |      |           |          |          |     |                  |             |  |  |  |
| YCR35A+60/600R  |             |            | 107.2       |     |     |       |      |           |          |          |     |                  |             |  |  |  |
| YCR35A+60/800R  |             |            | 107.5       |     | 50  |       |      |           |          |          |     |                  |             |  |  |  |
| YCR35A+60/1000R | 48          | 100        | 108.2       | 82  | 58  | M10   | 80.4 | 19.9      | 21       | 8        | 12  | B-M6F            | 8.5         |  |  |  |
| YCR35A+60/1300R |             |            | 108.5       |     |     |       |      |           |          |          |     |                  |             |  |  |  |
| YCR45A+60/800R  |             |            | 136.7       |     |     |       |      |           |          |          |     |                  |             |  |  |  |
| YCR45A+60/1000R |             |            | 137.3       |     |     |       |      |           |          |          |     |                  |             |  |  |  |
| YCR45A+60/1200R | 60          | 120        | 137.3       | 100 | 70  | M12   | 98   | 23.9      | 25       | 10       | 16  | B-PT1/8          | 11.5        |  |  |  |
| YCR45A+60/1600R | -           |            | 138         |     |     |       |      |           |          |          |     |                  |             |  |  |  |
| YCR65A+60/1000R |             |            | 193.8       |     |     |       |      |           |          |          |     |                  |             |  |  |  |
| YCR65A+60/1500R | -           |            | 195.4       |     |     |       |      |           |          |          |     |                  |             |  |  |  |
| YCR65A+45/2000R | 90          | 170        | 195.9       | 142 | 106 | M16   | 147  | 34.9      | 37       | 19       | 16  | B-PT1/8          | 15          |  |  |  |
| YCR65A+45/2500R | 90          | 90         | 90          | 90  |     | 196.5 |      |           |          | <b>)</b> |     |                  |             |  |  |  |
| YCR65A+30/3000R | -           |            | 196.5       |     |     |       |      |           |          |          |     |                  |             |  |  |  |

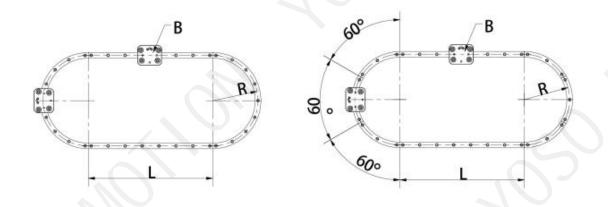


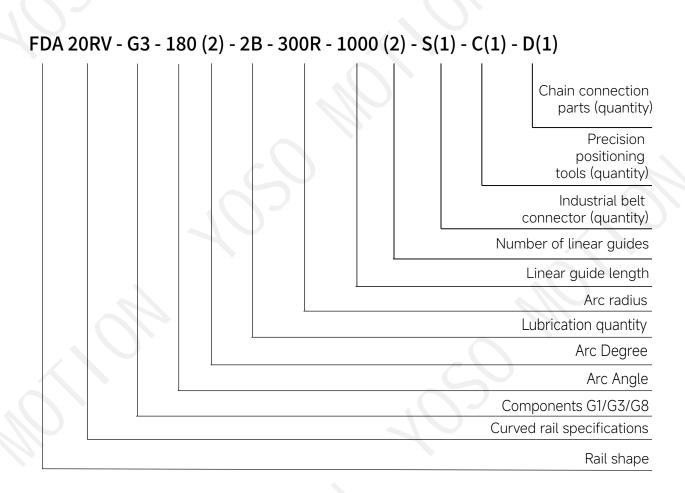
### • R Guide Model YCR



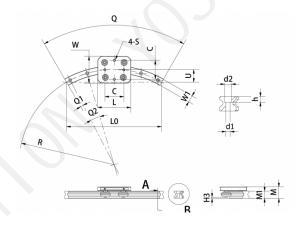
|      | LM block dimensions |        |      |      |                |                |                |             |    |    |     |                  | Ba<br>load r |          | Stat       |                  | nissible<br>kN ·m | e mom            | ent    | Ma          | ass          |
|------|---------------------|--------|------|------|----------------|----------------|----------------|-------------|----|----|-----|------------------|--------------|----------|------------|------------------|-------------------|------------------|--------|-------------|--------------|
|      |                     |        |      |      | Width          |                | Height         |             |    |    |     |                  |              |          | M          | Α                | M                 | 1B               | МС     | LM          | LM           |
| R    | R0                  | Ri     | Lo   | U    | W <sub>1</sub> | W <sub>2</sub> | M <sub>1</sub> | d1xd2xh     | nı | Θ° | Θı° | Θ <sub>2</sub> ° | C<br>kN      | C₀<br>kN | 1<br>Block | Double<br>Blocks |                   | Double<br>Blocks | MA     | Block<br>kg | Rail<br>kg/m |
| 100  | 106                 | 94     | 100  | 13.4 | 12             | 13.5           | 11             | 3.5X6X5     | 3  | 60 | 7   | 23               | 4.7          | 8.53     | 0.0409     | 0.228            | 0.0409            | 0.228            | 0.0445 | 0.08        | 0.83         |
| 150  | 157.5               | 142.5  | 150  | 20.1 |                |                |                |             | 3  |    | 7   | 23               | 6.66         | 10.8     |            |                  |                   |                  |        |             |              |
| 300  | 307.5               | 292.5  | 300  | 40   | 15             | 16             | 15             | 4.5x7.5x5.3 | 5  | 60 | 6   | 12               | 8.33         | 13.5     | 0.0805     | 0.457            | 0.0805            | 0.457            | 0.0844 | 0.2         | 1.5          |
| 400  | 407.5               | 392.5  | 400  | 54   |                |                |                |             | 7  |    | 3   | 9                | 8.33         | 13.5     |            |                  |                   |                  |        |             |              |
| 500  | 511.5               | 488.5  | 500  | 67   |                |                |                |             | 9  |    | 2   | 7                |              |          |            |                  |                   |                  |        |             |              |
| 750  | 761.5               | 738.5  | 750  | 100  | 23             | 23.5           | 22             | 7x11x19     | 12 | 60 | 2.5 | 5                | 19.9         | 34.4     | 0.307      | 1.71             | 0.307             | 1.71             | 0.344  | 0.59        | 3.3          |
| 1000 | 1011.5              | 988.5  | 1000 | 134  |                | 4              |                |             | 15 |    | 2   | 4                |              |          |            |                  |                   |                  |        |             |              |
| 600  | 617                 | 583    | 600  | 80   | 4              |                |                |             | 7  |    | 3   | 9                |              |          |            |                  |                   |                  |        |             |              |
| 800  | 817                 | 793    | 800  | 107  | ]              |                |                |             | 11 |    | 2.5 | 5.5              |              |          |            |                  |                   |                  |        |             |              |
| 1000 | 1017                | 983    | 1000 | 134  | 34             | 33             | 29             | 9x14x12     | 12 | 60 | 2.5 | 5                | 37.3         | 61.1     | 0.782      | 3.93             | 0.782             | 3.93             | 0.905  | 1.6         | 6.6          |
| 1300 | 1317                | 1283   | 1300 | 174  |                |                |                |             | 17 |    | 2   | 3.5              |              |          |            |                  |                   |                  |        |             |              |
| 800  | 822.5               | 777.5  | 800  | 107  |                |                |                |             | 8  |    | 2   | 8                |              |          |            |                  |                   |                  |        |             |              |
| 1000 | 1022.5              | 977.5  | 1000 | 134  | 45             | 77.5           | 70             | 14 20 17    | 10 |    | 3   | 6                | ,,           | 05.4     | 1.40       | 700              | 1 40              | 700              | 1.07   | 2.0         | 11.0         |
| 1200 | 1222.5              | 1177.5 | 1200 | 161  | 45             | 37.5           | 38             | 14x20x17    | 12 | 60 | 2.5 | 5                | 60           | 95.6     | 1.42       | 7.92             | 1.42              | 7.92             | 1.83   | 2.8         | 11.0         |
| 1600 | 1622.5              | 1577.5 | 1600 | 214  |                |                |                |             | 15 |    | 2   | 4                |              |          |            |                  |                   |                  |        |             |              |
| 1000 | 1031.5              | 968.5  | 1000 | 134  |                |                |                |             | 8  | 60 | 2   | 8                |              |          |            |                  |                   |                  |        |             |              |
| 1500 | 1531.5              | 1468.5 | 1500 | 201  |                |                |                |             | 10 | 60 | 3   | 6                |              |          |            |                  |                   |                  |        |             |              |
| 2000 | 2031.5              | 1968.5 | 1531 | 152  | 63             | 53.5           | 53             | 18X26X22    | 12 | 45 | 0.5 | 4                | 141          | 215      | 4.8        | 23.5             | 4.8               | 23.5             | 5.82   | 8.5         | 22.5         |
| 2500 | 2531.5              | 2468.5 | 1913 | 190  |                |                |                |             | 13 | 45 | 1.5 | 3.5              |              |          |            |                  |                   |                  |        |             |              |
| 3000 | 3031.5              | 2968.5 | 1553 | 102  | -              |                |                |             | 10 | 30 | 1.5 | 3                |              |          |            |                  |                   |                  |        |             |              |

## ■ FDA rolling arc guide





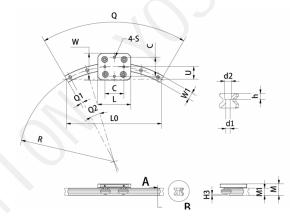
## FDA rolling arc guide



|                  |    |    |     | FDA  | \25RV+0 | 60(Arc Gu | uide Para | imeters) |       |        |              |  |
|------------------|----|----|-----|------|---------|-----------|-----------|----------|-------|--------|--------------|--|
| Nominal Model    | W1 | M1 | Q   | Q1   | Q2      | LO        | U         | d1xd2xh  | C(kN) | Co(kN) | Weight<br>kg |  |
| FDA25RV+60/100R  |    |    |     | 8    | 22.0    | 100       | 13.4      |          |       |        |              |  |
| FDA25RV+60/150R  |    |    |     | 6    | 24.0    | 150       | 20.1      |          |       |        |              |  |
| FDA25RV+60/200R  |    |    |     | 4.5  | 17.0    | 200       | 26.8      |          |       |        |              |  |
| FDA25RV+60/250R  |    |    |     | 3    | 13.5    | 250       | 33.5      |          |       |        |              |  |
| FDA25RV+60/300R  |    |    |     | 2.5  | 11.0    | 300       | 40.2      |          |       |        |              |  |
| FDA25RV+60/350R  |    |    |     | 3    | 9.0     | 350       | 46.9      |          |       |        |              |  |
| FDA25RV+60/400R  |    |    |     | 2.1  | 9.3     | 400       | 53.6      |          |       |        |              |  |
| FDA25RV+60/450R  |    |    |     | 2    | 8.0     | 450       | 60.3      |          |       |        |              |  |
| FDA25RV+60/500R  |    |    |     |      | 1.6     | 7.1       | 500       | 67       |       |        |              |  |
| FDA25RV+60/550R  |    |    |     | 1.2  | 6.4     | 550       | 73.7      |          |       |        |              |  |
| FDA25RV+60/600R  |    |    | \ - | 1    | 5.8     | 600       | 80.4      |          |       |        |              |  |
| FDA25RV+60/650R  | 23 | 23 | 60  | 1    | 5.8     | 650       | 87.08     | 7x11x9   | 4.8   | 2.03   |              |  |
| FDA25RV+60/700R  |    |    |     | 1.2  | 4.8     | 700       | 93.8      |          |       |        |              |  |
| FDA25RV+60/750R  |    |    |     | 1.2  | 4.8     | 750       | 100.5     |          |       |        |              |  |
| FDA25RV+60/1000R |    |    |     | 1.2  | 3.6     | 1000      | 134       |          |       |        |              |  |
| FDA25RV+60/1200R |    |    |     | 0.55 | 2.9     | 1200      | 160.8     |          |       |        |              |  |
| FDA25RV+60/1250R |    |    |     | 1    | 2.9     | 1250      | 167.5     |          |       |        |              |  |
| FDA25RV+60/1300R |    |    |     | 0.55 | 3.1     | 1300      | 174       |          |       |        |              |  |
| FDA25RV+60/1400R |    |    |     | 0.6  | 2.45    | 1400      | 188       |          |       |        |              |  |
| FDA25RV+60/1450R |    |    |     | 0.6  | 2.45    | 1450      | 194.3     |          |       |        |              |  |
| FDA25RV+60/1850R | ]  |    |     | 0.48 | 2.46    | 1850      | 247.9     | 1        |       |        |              |  |
| FDA25RV+60/2000R |    |    |     | 0.60 | 2.10    | 2000      | 268       |          |       |        |              |  |
| FDA25RV+60/2500R |    |    |     | 0.50 | 1.55    | 2500      | 335       |          |       |        |              |  |
| FDA25RV+60/3000R |    |    |     | 0.40 | 1.20    | 3000      | 401.9     |          |       |        |              |  |

| Nominal Model | М  | Н3   | W  | L   | В          | С           | 4-S       | d1xd2xh | C(kN) | Co(kN) | Weight<br>kg |
|---------------|----|------|----|-----|------------|-------------|-----------|---------|-------|--------|--------------|
|               | 36 | 3.88 | 85 | 105 | 60         | 60          | M8        | 7x11x9  | 4.8   | 2.03   |              |
| FDA25RV+60/R  |    |      |    |     | All specif | ications ar | e the sam | e size  |       |        |              |

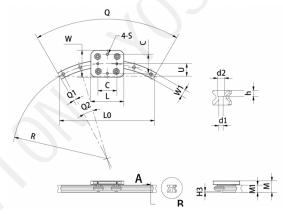
## ■ FDA rolling arc guide



|                  |    |    |     | FDA  | \25RV+ | 60(Arc Gu | uide Para | ameters) |       |        |              |
|------------------|----|----|-----|------|--------|-----------|-----------|----------|-------|--------|--------------|
| Nominal Model    | W1 | M1 | Q   | Q1   | Q2     | L0        | U         | d1xd2xh  | C(kN) | Co(kN) | Weight<br>kg |
| FDA25RV+90/100R  |    |    |     | 8.00 | 37.0   | 141       | 29.3      |          |       |        |              |
| FDA25RV+90/150R  |    |    |     | 6.00 | 26.0   | 212       | 43.9      |          |       |        |              |
| FDA25RV+90/175R  |    |    |     | 4.00 | 20.5   | 248       | 51.3      |          |       |        |              |
| FDA25RV+90/200R  |    |    |     | 3.50 | 16.6   | 283       | 58.6      |          |       |        |              |
| FDA25RV+90/250R  |    |    |     | 3.60 | 13.8   | 354       | 73.2      |          |       |        |              |
| FDA25RV+90/300R  |    |    |     | 3.00 | 12.0   | 424       | 87.9      |          |       |        |              |
| FDA25RV+90/350R  |    |    |     | 2.70 | 9.4    | 495       | 103       |          |       |        |              |
| FDA25RV+90/400R  |    |    |     | 2.00 | 8.6    | 566       | 117.2     |          |       |        |              |
| FDA25RV+90/500R  |    |    |     | 1.80 | 7.2    | 707       | 146.4     | 1        |       |        |              |
| FDA25RV+90/550R  |    |    |     | 1.45 | 6.7    | 777.8     | 161.1     |          |       |        |              |
| FDA25RV+90/600R  |    |    | \ - | 1.50 | 5.8    | 846       | 175.7     |          |       |        |              |
| FDA25RV+90/700R  | 23 | 23 | 90  | 1.45 | 6.7    | 989.9     | 205       | 7x11x9   | 4.8   | 2.03   |              |
| FDA25RV+90/750R  |    |    |     | 1.30 | 4.6    | 1060.7    | 219.7     | 1        |       |        |              |
| FDA25RV+90/860R  |    |    |     | 1.00 | 4.0    | 1216.2    | 251.9     |          |       |        |              |
| FDA25RV+90/900R  |    |    |     | 1.00 | 4.0    | 1272.8    | 263.6     |          |       |        |              |
| FDA25RV+90/1000R |    |    |     | 0.80 | 3.4    | 1414.2    | 292.9     |          |       |        |              |
| FDA25RV+90/1513R |    |    |     | 0.6  | 2.96   | 2139.7    | 443.1     |          |       |        |              |
| FDA25RV+90/2000R |    |    |     | 0.35 | 2.35   | 2828.4    | 585.8     |          |       |        |              |
| FDA25RV+90/3000R |    |    |     | 0.3  | 1.49   | 4242.6    | 878.7     |          |       |        |              |

| Nominal Model | М  | Н3   | W  | L   | В          | С           | 4-S        | d1xd2xh | C(kN) | Co(kN) | Weight<br>kg |
|---------------|----|------|----|-----|------------|-------------|------------|---------|-------|--------|--------------|
|               | 36 | 3.88 | 85 | 105 | 60         | 60          | M8         | 7x11x9  | 4.8   | 2.03   |              |
| FDA25RV+90/R  |    |      |    |     | All specit | ications ar | re the sam | ie size |       |        |              |

## FDA rolling arc guide

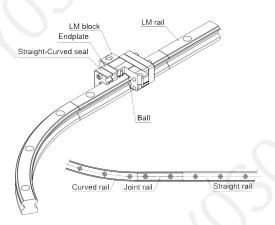


|                    |    |    |    | FDA  | \25RV+ | 60(Arc Gu | uide Para | ameters) |       |        |              |  |
|--------------------|----|----|----|------|--------|-----------|-----------|----------|-------|--------|--------------|--|
| Nominal Model      | W1 | M1 | Q  | Q1   | Q2     | L0        | U         | d1xd2xh  | C(kN) | Co(kN) | Weight<br>kg |  |
| FDA25RV+180/75R    |    |    |    | 10   | 35.0   | 150       | 75        |          |       |        |              |  |
| FDA25RV+180/80R    |    |    |    | 8    | 37.0   | 160       | 80        |          |       |        |              |  |
| FDA25RV+180/100R   |    |    |    | 6    | 26.0   | 200       | 100       |          |       |        |              |  |
| FDA25RV+180/125R   |    |    |    | 7.5  | 27.5   | 250       | 125       |          |       |        |              |  |
| FDA25RV+180/150R   |    |    |    | 4    | 20.5   | 300       | 150       |          |       |        |              |  |
| FDA25RV+180/160R   |    |    |    | 6    | 21.0   | 320       | 160       |          |       |        |              |  |
| FDA25RV+180/175R   |    |    |    | 3.5  | 16.6   | 350       | 175       |          |       |        |              |  |
| FDA25RV+180/175.5R |    |    |    | 4.5  | 21.3   | 350       | 175       |          |       |        |              |  |
| FDA25RV+180/200R   |    |    |    | 3.6  | 13.8   | 400       | 200       |          |       |        |              |  |
| FDA25RV+180/250R   |    |    |    | 3    | 12.0   | 500       | 250       |          |       |        |              |  |
| FDA25RV+180/300R   |    |    |    | 2.7  | 9.4    | 600       | 300       |          |       |        |              |  |
| FDA25RV+180/310R   | 23 | 23 | 60 | 4    | 17.2   | 620       | 310       | 7x11x9   | 4.8   | 2.03   |              |  |
| FDA25RV+180/350R   |    |    |    | 2    | 8.6    | 700       | 350       |          |       |        |              |  |
| FDA25RV+180/355R   |    |    |    | 2.7  | 9.7    | 710       | 355       |          |       |        |              |  |
| FDA25RV+180/351R   |    |    |    | 2.7  | 9.7    | 702       | 351       |          |       |        |              |  |
| FDA25RV+180/400R   |    |    |    | 2    | 8.8    | 800       | 400       |          |       |        |              |  |
| FDA25RV+180/500R   |    |    |    |      | 2      | 8.0       | 1000      | 500      |       |        |              |  |
| FDA25RV+180/550R   |    |    |    | 1.8  | 8.4    | 1100      | 550       |          |       |        |              |  |
| FDA25RV+180/580R   |    |    |    | 1.5  | 5.9    | 1160      | 580       |          |       |        |              |  |
| FDA25RV+180/600R   |    |    |    | 1.5  | 5.9    | 1200      | 600       |          |       |        |              |  |
| FDA25RV+180/700R   |    |    |    | 1.17 | 6.6    | 1400      | 700       |          |       |        |              |  |
| FDA25RV+180/750R   |    |    |    | 2.6  | 4.6    | 1500      | 750       |          |       |        |              |  |
| FDA25RV+180/800R   |    |    |    | 1.2  | 4.8    | 1600      | 800       |          |       |        |              |  |
| FDA25RV+180/900R   |    |    |    | 0.7  | 3.8    | 1800      | 900       |          |       |        |              |  |
| FDA25RV+180/1000R  |    |    |    | 0.75 | 3.5    | 2000      | 1000      |          |       |        |              |  |

| Nominal Model | М  | Н3   | W  | L   | В          | С            | 4-S       | d1xd2xh | C(kN) | Co(kN) | Weight<br>kg |
|---------------|----|------|----|-----|------------|--------------|-----------|---------|-------|--------|--------------|
|               | 36 | 3.88 | 85 | 105 | 60         | 60           | M8        | 7x11x9  | 4.8   | 2.03   |              |
| FDA25RV+180/R |    |      |    | ,   | All specit | fications ar | e the sam | e size  |       |        |              |

## ■ LM Guide Straight-Curved Guide Model YS-HMG

The Straight Curved Guide YS-HMG is a new straight curved guide that combines the technologies of the LM Guide YGH and R Guide YCR to enable the same type of LM slider to move continuously on straight and curved tracks. It has achieved significant cost reduction by improving the work efficiency of assembly and conveyor lines and inspection equipment, and simplifying the structure by eliminating lifts and workbenches.



Straight Curved Guide YS-HMG When using 2 or more rails, or when connecting 2 or more LM blocks to one rail, a rotation mechanism or a slide mechanism is required to rotate the table around the curved portion. See Figure 4 for an example of such a mechanism.

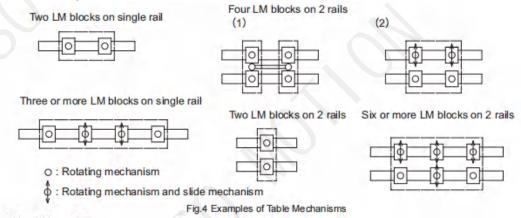
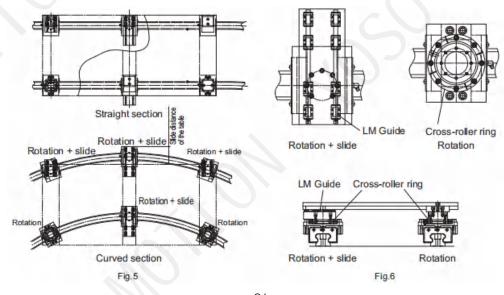


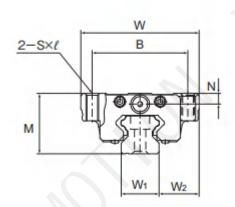
Figure 5 shows an example of the design of a table when using a unit on multiple axes. The YS-HMG requires a rotating mechanism and a sliding mechanism because the table becomes eccentric when the LM block transitions from a straight segment to a curved segment. The amount of eccentricity varies depending on the radius of the curved segment and the span of the LM block. Therefore, it is necessary to design the system according to the corresponding specifications. Figure 6 shows a detailed diagram of the sliding and rotating mechanisms. In the figure, an LM guide is used in the sliding mechanism and a cross roller ring is used in the rotating mechanism to achieve smooth sliding and rotating motion.

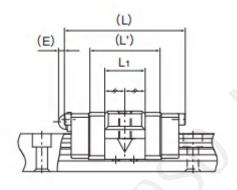
For driving the Straight-Curved Guide, belt drives and chain drives are available.





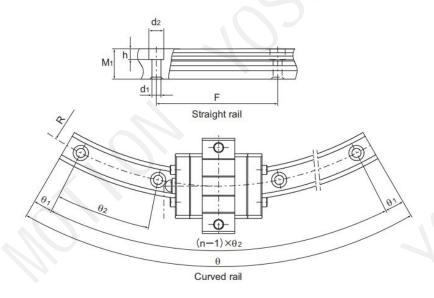
### Model YS-HMG





|            |    | Outer o | dimensions | ;     |     | _M block dime | ensions        |     |     |                | LM             | 1 rail dim | ensions        |
|------------|----|---------|------------|-------|-----|---------------|----------------|-----|-----|----------------|----------------|------------|----------------|
| Model No.  |    |         |            |       |     | 0.0           |                |     |     | S              | Straight       | rail       | Height         |
|            | М  | W       | L          | Ľ     | В   | Sxl           | L <sub>1</sub> | N   | E   | W <sub>1</sub> | W <sub>2</sub> | F          | M <sub>1</sub> |
| YS-HMG 15A | 24 | 47      | 48         | 28.8  | 38  | M5x11         | 16             | 4.3 | 5.5 | 15             | 16             | 60         | 15             |
| YS-HMG 25A | 36 | 70      | 62.2       | 42.2  | 57  | M8x16         | 25.6           | 6   | 12  | 23             | 23.5           | 60         | 22             |
| YS-HMG 35A | 48 | 100     | 80.6       | 54.6  | 82  | M10x21        | 32.6           | 8   | 12  | 34             | 33             | 80         | 29             |
| YS-HMG 45A | 60 | 120     | 107.6      | 76.6  | 100 | M12x25        | 42.6           | 10  | 16  | 45             | 37.5           | 105        | 38             |
| YS-HMG 65A | 90 | 170     | 144.4      | 107.4 | 142 | M16x37        | 63.4           | 19  | 16  | 63             | 53.5           | 150        | 53             |

### Model YS-HMG



|                           | LM rail | dimensio | าร       |     |     | Basic dynamic           | Basic static lo              | oad rating (Co)  |
|---------------------------|---------|----------|----------|-----|-----|-------------------------|------------------------------|--|
| U. A. T.                  |         |          | Curved r | ail |     | load rating (C)         |                              | , and the second |
| Mounting hole<br>d1 ×d2×h | R       | n        | θ°       | θı° | θ₂° | Resultant load<br>(C)kN | Straight section<br>(C₀st)kN | Curved section<br>(C₀r)kN  |
|                           | 150     | 3        | 60       | 7   | 23  |                         |                              |  |
| 4.5×7.5×5.3               | 300     | 5        | 60       | 6   | 12  | 2.56                    | 4.23                         | 0.44   |
|                           | 400     | 7        | 60       | 3   | 9   |                         |                              |  |
|                           | 500     | 9        | 60       | 2   | 7   |                         |                              |  |
| 7×11×9                    | 750     | 12       | 60       | 2.5 | 5   | 9.41                    | 10.8                         | 6.7  |
|                           | 1000    | 15       | 60       | 2   | 4   |                         |                              |  |
|                           | 600     | 7        | 60       | 3   | 9   |                         |                              |  |
| 9×14×12                   | 800     | 11       | 60       | 2.5 | 5.5 | 17.7                    | 19                           | 11.5   |
| 7.14.12                   | 1000    | 12       | 60       | 2.5 | 5   | 17.7                    | 17                           | 11.5   |
|                           | 1300    | 17       | 60       | 2   | 3.5 |                         |                              |  |
|                           | 800     | 8        | 60       | 2   | 8   |                         |                              |  |
| 14×20×17                  | 1000    | 10       | 60       | 3   | 6   | 28.1                    | 29.7                         | 18.2   |
| 11 20 17                  | 1200    | 12       | 60       | 2.5 | 5   | 20.1                    | 27.7                         | 10.2   |
|                           | 1600    | 15       | 60       | 2   | 4   |                         |                              |  |
|                           | 1000    | 8        | 60       | 2   | 8   |                         |                              |  |
|                           | 1500    | 10       | 60       | 3   | 6   |                         |                              |  |
| 18×26×22                  | 2000    | 12       | 45       | 0.5 | 4   |                         | 66.7                         | 36.2   |
|                           | 2500    | 13       | 45       | 1.5 | 3.5 |                         | -0'                          |  |
|                           | 3000    | 10       | 30       | 1.5 | 3   |                         |                              |  |

### Table1 Static Permissible Moments of Model YS-HMG

| Model No. | M <sub>A</sub>   |                | M <sub>B</sub> - ■ |                | Mc<br><b>T T</b> |                |  |  |
|-----------|------------------|----------------|--------------------|----------------|------------------|----------------|--|--|
|           | Straight section | Curved section | Straight section   | Curved section | Straight section | Curved section |  |  |
| YS-HMG 15 | 0.008            | 0.007          | 0.008              | 0.01           | 0.027            | 0.003          |  |  |
| YS-HMG 25 | 0.1              | 0.04           | 0.1                | 0.05           | 0.11             | 0.07           |  |  |
| YS-HMG 35 | 0.22             | 0.11           | 0.22               | 0.12           | 0.29             | 0.17           |  |  |
| YS-HMG 45 | 0.48             | 0.2            | 0.48               | 0.22           | 0.58             | 0.34           |  |  |
| YS-HMG 65 | 1.47             | 0.66           | 1.47               | 0.73           | 1.83             | 0.94           |  |  |

### Level Diff erence Specifi cation for the Joint

The accuracy error of LM rail installation will affect the service life of the product. When installing LM rails, pay attention to control the height difference at the joint within the specification range shown in Table 2. For joints between curved rails and joints between curved sections and joint rails, it is recommended to use flushing pieces as shown in Figure 7. When using flushing pieces, place the fixed butt piece on the outside, push the rail toward the butt piece, and then turn the adjustment screw from the inside to adjust the height difference at the joint.

Table2 Level Diff erence Specifi cation for the Joint

| Model No. | Ball raceway,<br>side face | Upper face | Maximum<br>clearance<br>of the joint<br>section |  |
|-----------|----------------------------|------------|---|--|
| 15        | 0.01                       | 0.02       | 0.6   |  |
| 25        | 0.01                       | 0.02       | 0.7   |  |
| 35        | 0.01                       | 0.02       | 1.0   |  |
| 45        | 0.01                       | 0.02       | 1.3   |  |
| 65        | 0.01                       | 0.02       | 1.3   |  |

Note) Place the pin on the outer circumference and the bolt on the inner circumference.

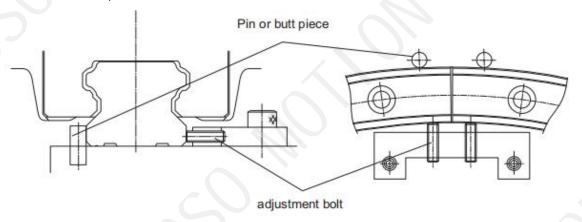


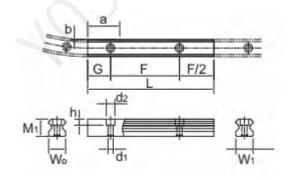
Fig. 7 Flush piece

#### About the Curved Section

The curved portion of the YS-HMG model has a gap due to structural reasons. Therefore, this model may not be suitable for applications that require high-precision feeding. In addition, the curved portion cannot withstand large moments. When a large moment is applied, it is necessary to increase the number of LM blocks or LM rails.

#### Jointed LM Rail

The YS-HMG type always requires a connecting rail where the LM block travels from a straight section to a curved section and the curve reverses (e.g. S-curve). Please take this into consideration when designing your system.



#### Table3 Dimension of the Jointed Rail

|           |              | Dimension of the jointed rail |               |                |       |              |             |        |  |  |
|-----------|--------------|-------------------------------|---------------|----------------|-------|--------------|-------------|--------|--|--|
| Model No. | Height Pitch |                               | Mounting hole | Width          |       | Taper length | Taper depth | Radius |  |  |
|           | Mı           | F                             | d1×d2×h       | W <sub>1</sub> | W₀    | а            | b           | R      |  |  |
| 15A 15    |              |                               |               |                | 14.78 |              | 0.22        | 150    |  |  |
|           | 60           | 4.5×7.5×5.3                   | 15            | 14.89          | 28    | 0.11         | 300         |        |  |  |
|           |              |                               |               | 14.92          |       | 0.08         | 400         |        |  |  |
| 25A 22    |              |                               |               |                | 22.83 |              | 0.17        | 500    |  |  |
|           | 60           | 7×11×9                        | 23            | 22.89          | 42    | 0.11         | 750         |        |  |  |
|           |              |                               |               | 22.92          |       | 0.08         | 1000        |        |  |  |
| 35A 29    |              |                               |               |                | 33.77 |              | 0.23        | 600    |  |  |
|           | 80           | 9×14×12                       | 34            | 33.83          | 54    | 0.17         | 800         |        |  |  |
|           |              |                               |               | 33.86          |       | 0.14         | 1000        |        |  |  |
|           |              |                               |               | 33.9           |       | 0.1          | 1300        |        |  |  |
| 45A 38    |              | 105                           | 14×20×17      | 45             | 44.71 | 76           | 0.29        | 800    |  |  |
|           | 38           |                               |               |                | 44.77 |              | 0.23        | 1000   |  |  |
|           | 30           |                               |               |                | 44.81 |              | 0.19        | 1200   |  |  |
|           |              |                               |               | 44.86          |       | 0.14         | 1600        |        |  |  |
| 65A 53    |              | 150                           | 18×26×22      | 63             | 62.48 | 107          | 0.52        | 1000   |  |  |
|           |              |                               |               |                | 62.66 |              | 0.34        | 1500   |  |  |
|           | 53           |                               |               |                | 62.74 |              | 0.26        | 2000   |  |  |
|           |              |                               |               |                | 62.8  |              | 0.2         | 2500   |  |  |
|           |              |                               |               |                | 62.83 |              | 0.17        | 3000   |  |  |

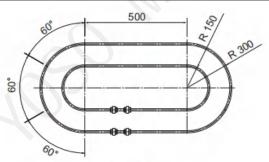
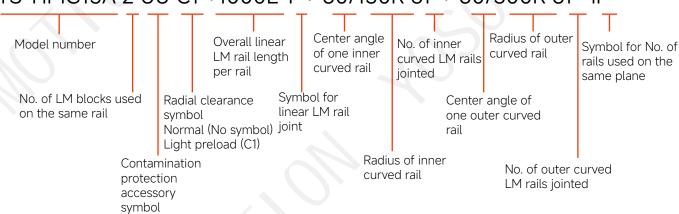


Fig.8 Example of model No.

## Model number coding

# YS-HMG15A 2 UU C1 +1000L T + 60/150R 6T + 60/300R 6T -II





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