



Zillion Automation

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Precision Cycle Line R & D and
Production Integrated Service Provider

Zillion Automation Technology CO.,LTD.

LOP Series Product Manual

—Chain drive curved guide rail conveyor line

PRODUCT BROCHURE

Quality first

Innovative technology

Cost advantage

Zillion Automation Technology CO.,LTD.

Precision cycle line R & D and production integrated service provider

Zillion Technology is a technology enterprise focusing on the design, development, production and application of precision cycle lines and transmission products. We provide precision circulation conveying system for automatic production line in various industries, and provide personalized circulation conveying system design and customization, providing circulation line integrated application solutions.

Our Advantages



Technical Advantage

Zillion Technology's V-shaped annular guide has broken the traditional technology monopoly, established a new industry standard, and has an experienced R & D, design, and production team.



Quality Advantage

Customized standards, a strict quality management system, product production process has multiple layers of quality control.



Price Advantage

Source R & D enterprises, own factories, to ensure high quality under the premise of lower costs, more favorable prices.



Delivery Advantage

Achieve standardization, own standard inventory, warehouse area of 300 square meters, conventional product delivery within 12 days.



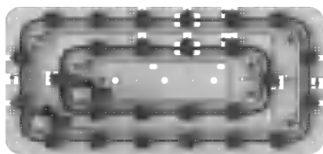
Advantage of Service

With experienced project design team, timely technical support in most areas, excellent service.

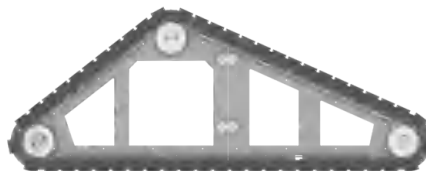
LOP Product Display



椭圆环形导轨系列



矩形环形导轨系列



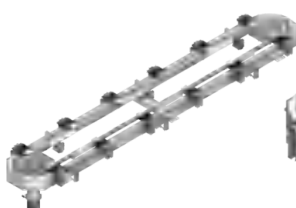
异形环形导轨系列



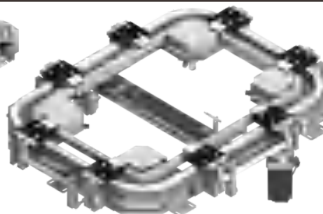
垂直环形导轨系列

同步带输送线

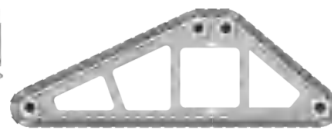
链条输送线



椭圆环形导轨系列



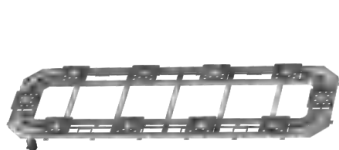
矩形环形导轨系列



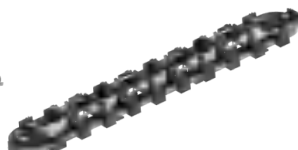
异形环形导轨系列



垂直环形导轨系列



水平内外双轨系列



水平上下双轨系列



立式双轨系列



特殊双轨系列

双轨输送线

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LOP Series

Precision loop line coding rule

The combination of different shapes, sizes, installation methods, transmission methods, etc., forms different Precision loop line conveying systems, The relationship between its encoding rules and parameters is as follows:

LOP - RE 2 - L 351 - 12 / 12T - S400-HI

Precision loop line

Precision loop line shape type

RE-Rectangular
OV-Oval
RO-Circular
TR-Triangle
SP-Special shape

Transmission mode type

1-Synchronous belt drive type
2-Chain drive type
4-Spoke drive type

Type of guideway

L-Light load guideway series-25
M-Medium load guideway series-44
H-Heavy-duty guideway series-76

Diameter of arc Circular guideway

L200-200mm
L255-255mm
L300-300mm
L351-351mm
L400-400mm
L468-468mm
L500-500mm
L600-600mm

*For more diameter parameters,
please refer to our product manual
《GMP series product manual》

Way to install

HI-Horizontal Installation
VI-Vertical Installation
HO-Suspension and hoisting

Center distance of adjacent stations

The center distance of the smallest adjacent stations is about 110mm, which can be customized to this size, and the spacing is a multiple of the chain ending.

The number of stations that need to be repositioned

The number of repeated positioning stations should be less than or equal to the total number of slides.

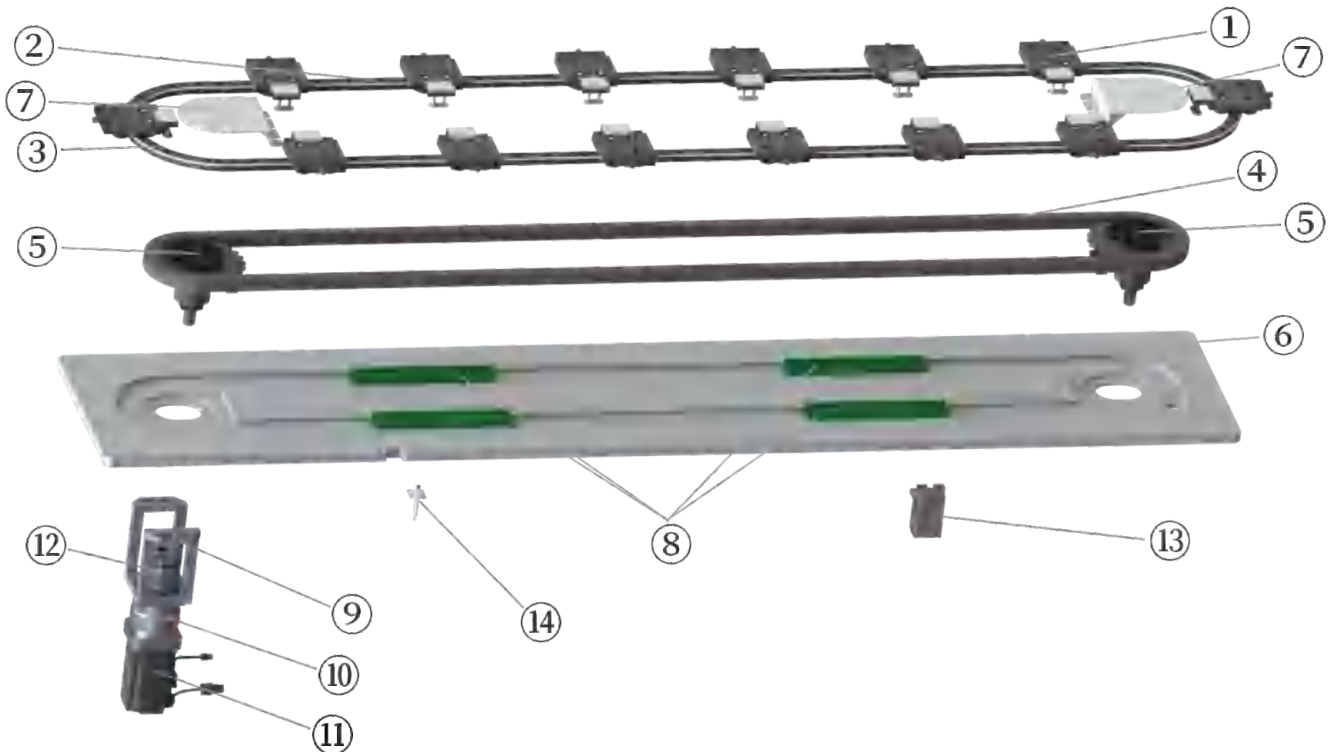
Total number of slides

The number of slides can be customized, and the total number of general slides is even.

LOP series : Chain drive type

Precision loop line conveying system module

Precision loop line is used in automatic production line, which is a precision conveying system of high speed conveyor with high precision positioning and transmission. It belongs to the non-standard customized automatic production and transportation module.



(The oval Precision loop line of the base plates is used)

V-shaped guideway

- ① Slide seat
- ② Linear guideway
- ③ Circular guideway

- The stitching shape of the guideway can be customized.
- The slider seat can be made of aluminum or steel.

*Guideway splicing shape: oval, rectangle, triangle, special-shaped customization.
*The number of slide seat can be customized as needed.

Transmission module

- ④ Precision chain
- ⑤ Sprocket wheel (Driving sprocket and driven sprocket)
- ⑦ Sprocket guard
- ⑧ Chain track guard

- Synchronous belt or chain
- Synchronous wheel or sprocket

*If you choose the form of a synchronous belt, the chain and sprocket can be changed to a synchronous belt and a synchronous wheel.

Frame module

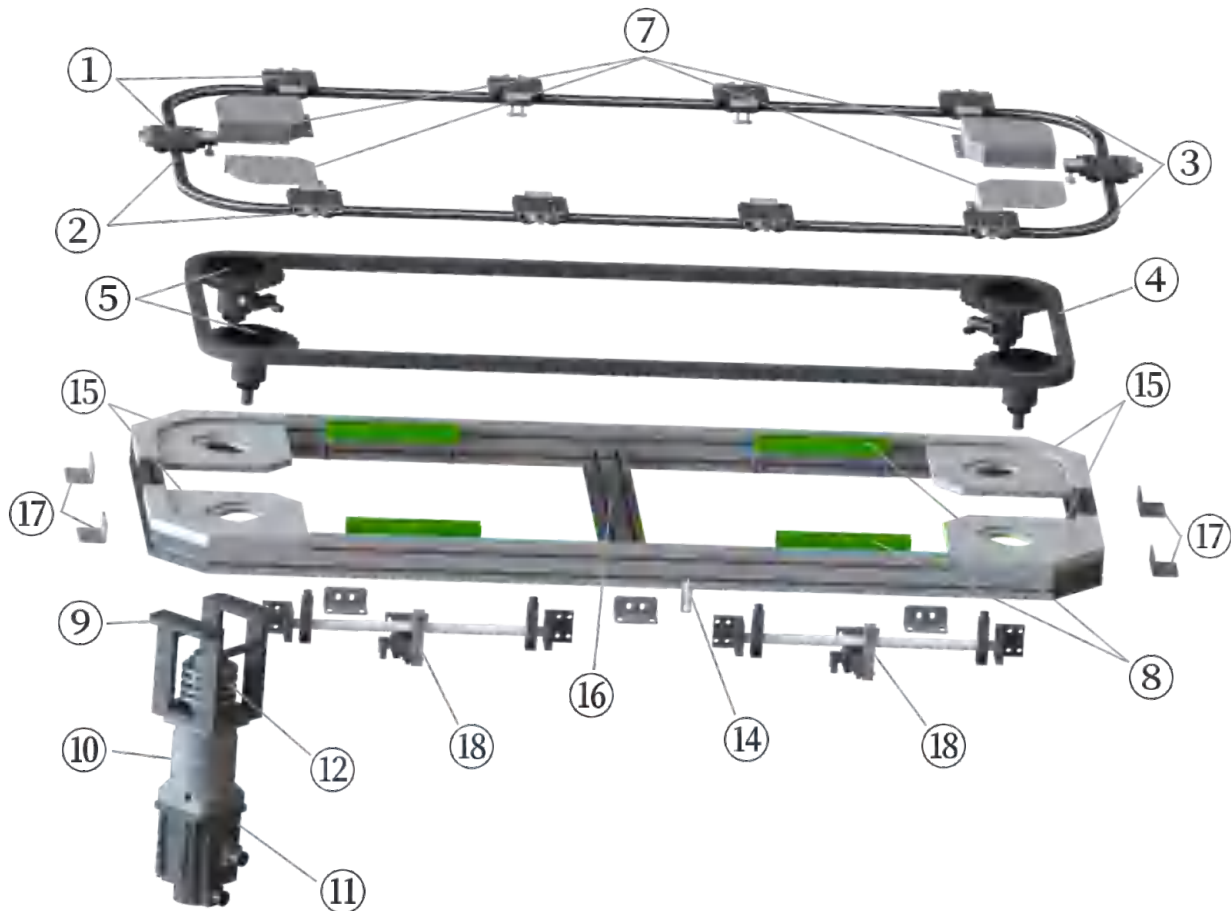
- ⑥ Baseplate
- Bottom plate for connection
- Aluminum profile frame
- Frame connecting block

- Aluminum profile frame structure
- baseplate support structure

*The baseplate can be made of aluminum or steel.

LOP series : Chain drive type

Precision loop line conveying system module



(The Rectangular Precision loop line of the base plates is used)

Power output module

- ⑨ Motor support
- ⑩ Planetary reducer
- Servo motor
- Diaphragm type coupling

- Planetary reducer & Servo motor driver
- Different brands and types of motors are available according to customer needs.

*Power output modules can also be supplied by the customer.

Repeat positioning mechanism

- Slide cylinder positioning assembly
- Origin induction switch
- Swing arm type positioning assembly

- Swing arm type/ Slide cylinder

*In scenarios where accuracy is not required, the positioning component can be omitted.

*Special application requirements can consider other positioning methods, such as electrical positioning.

Driver module

- Modules do not contain electrical control components by default, such as PLC and program and electric control box, if there is a need for control, please inform in advance.

Other optional parts

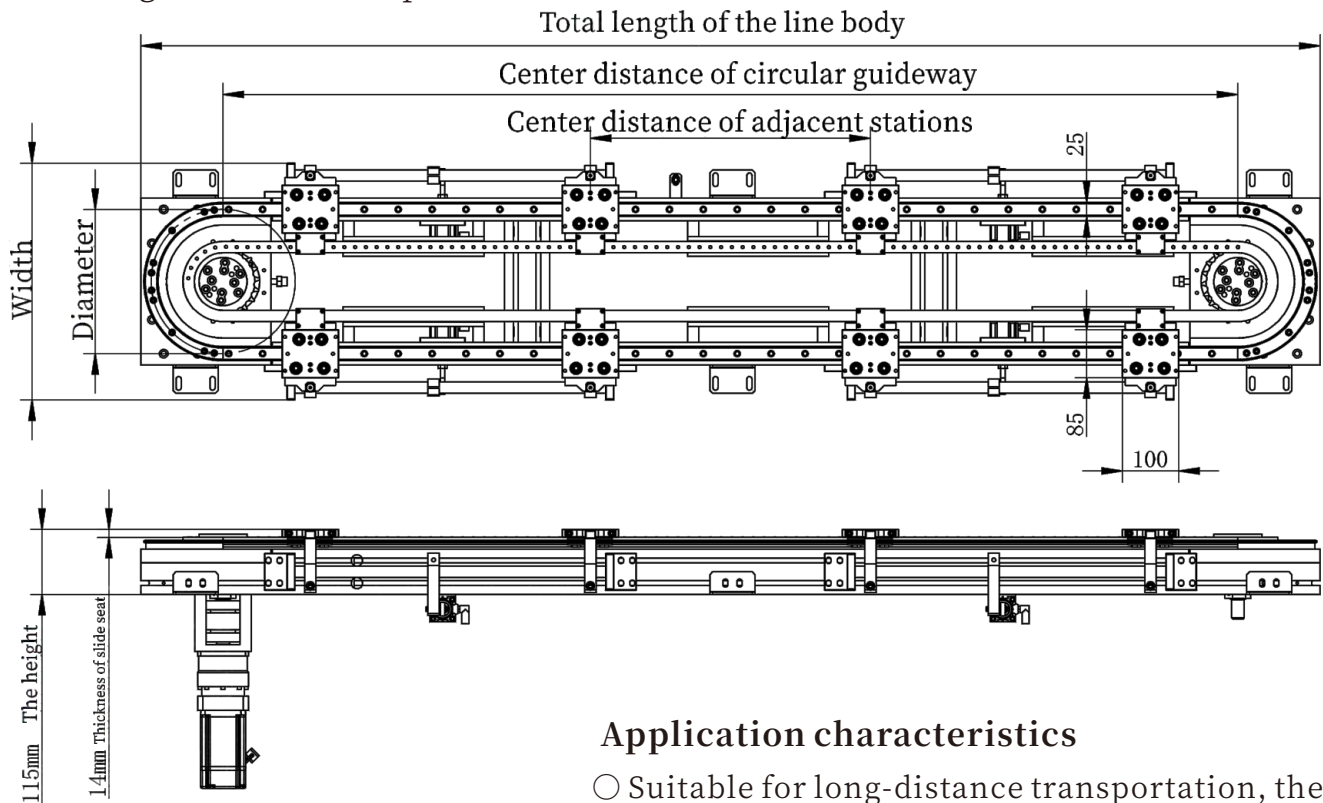
- The rack of the equipment
- Mounting support feet for vertical use. (Mounting support feet for vertical use. Contains "7" shape and "L" shape)
- Guideway protection organ cover

*Other customization requirements of the customer.

LOP Oval profile structure series

25Series-OV2

Oval profile structure chain driven ring guideway, It is used in the automatic production and manufacturing process of light load, high speed, high precision and long distance transportation.



Structural Features

- Shape- Oval
- Profile frame structure
- Precision chain drive

Application characteristics

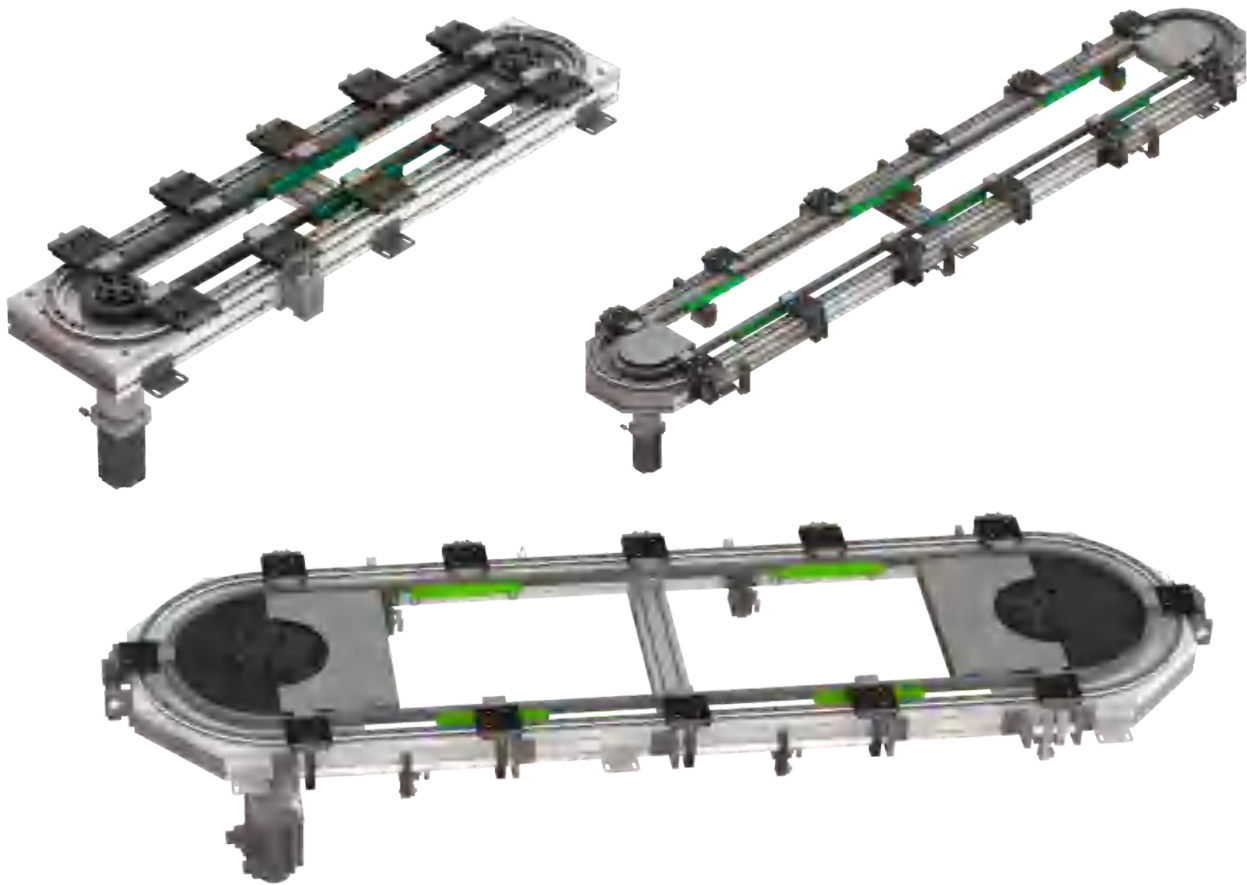
- Suitable for long-distance transportation, the circumference can reach more than 100 meters.
- Suitable for light load conveying, the maximum load of a single slide seat is 15 kg.
- The slide seat works intermittently and can be switched at different speeds as needed.
- Optional ranges of repeated positioning accuracy are: ± 0.05 - ± 0.5 mm



- The material of the slide seat can be selected from steel or aluminum, precision machining, strict quality control and exquisite installation process, which can make the accuracy of the slide seat in the three directions of X-Y-Z up to HP level, that is, $\leq \pm 0.05$ mm.

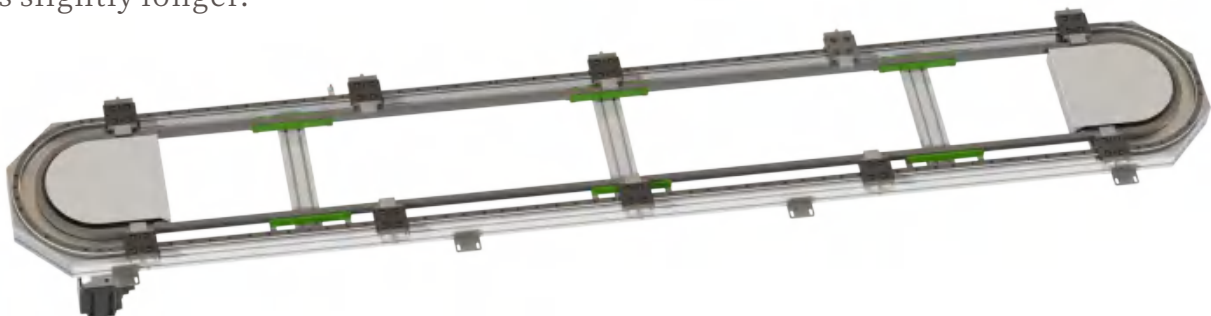
LOP Oval profile structure series

25 Series-OV2 of custom cases



Non-standard customization description

- *According to the application scenario, the specifications of the precision chain can be selected 8A/10A/12A and other specifications, and under normal circumstances, the selection of 12A specifications is more.
- *The center distance of the conventional adjacent stations is not less than 110mm, which is related to the length of the chain, and is generally an even number of chain links.
- *Commonly used circular guideway diameter is 255-600mm, the parameter table of the circular guideway can refer to our **《GMP Series Products》**.
- *It is not a common circular guideway, which needs to be re-produced and the delivery time is slightly longer.

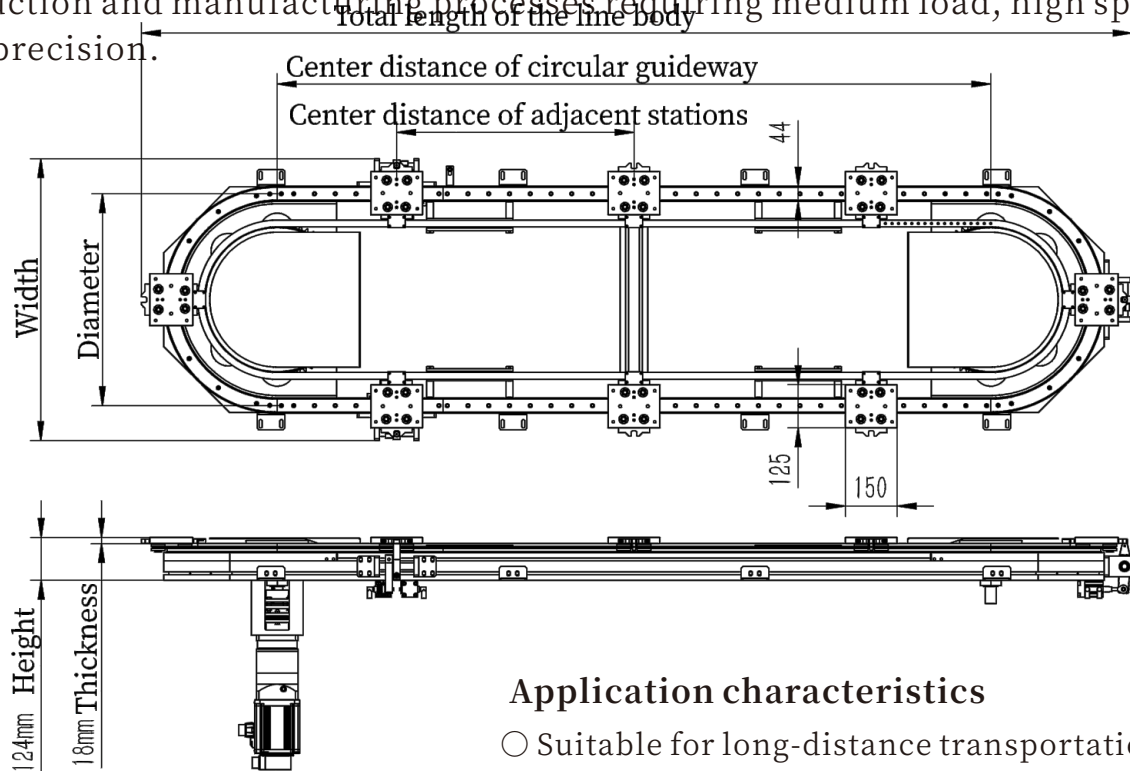


- Oval profile chain drive Precision loop line.
- Strong durability, easy to obtain high initial positioning accuracy.

LOP Oval profile structure series

44Series-OV2

44 Series Oval profile structure chain driven ring guideway, it is used to automate production and manufacturing processes requiring medium load, high speed and high precision.



Structural Features

- Shape- Oval
- Profile frame structure
- Precision chain drive
- Medium load V-shaped guideway

Application characteristics

- Suitable for long-distance transportation, the circumference can reach more than 100 meters.
- Suitable for light load conveying, the maximum load of a single slide seat is 30 kg.
- The slide seat works intermittently and can be switched at different speeds as needed.
- Optional ranges of repeated positioning accuracy are: $\pm 0.05 - \pm 0.5\text{mm}$



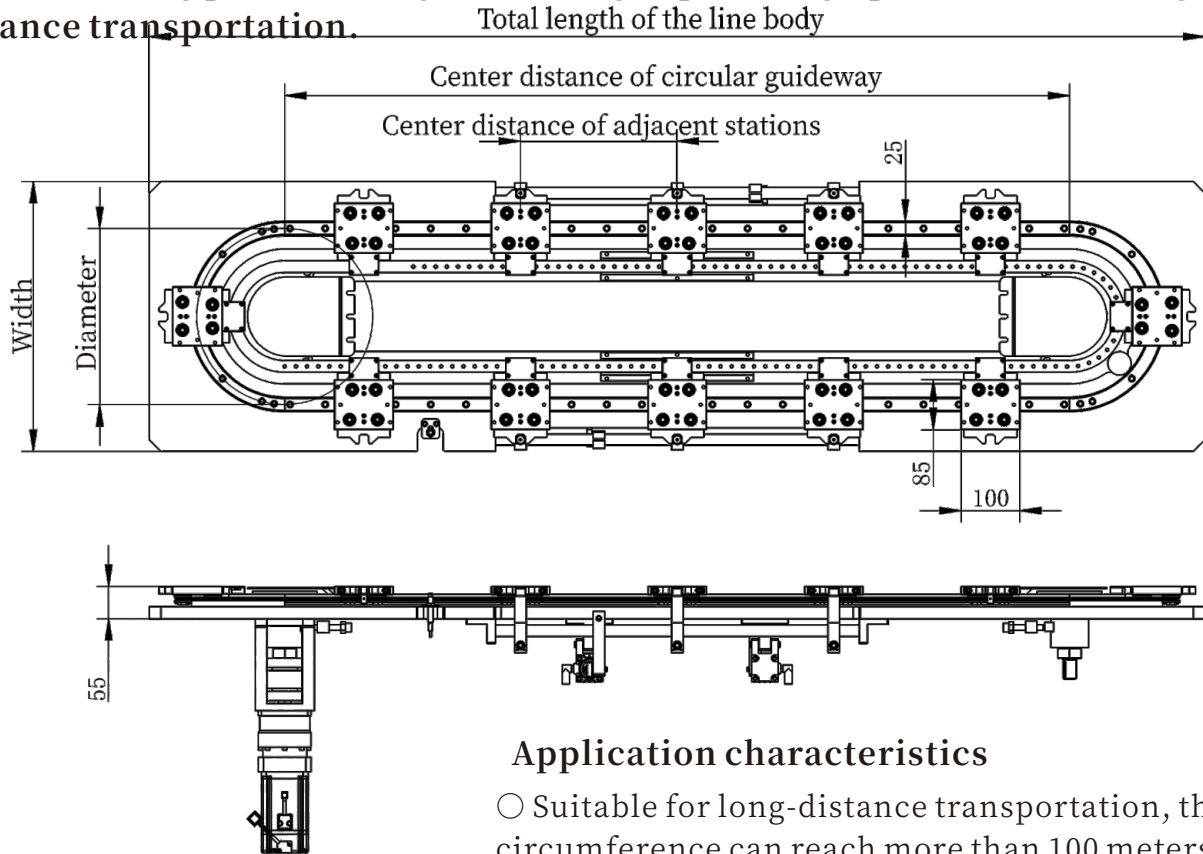
Non-standard customization description

- *Speed is related to load size, circular guideway size and off-load condition.
- *The center distance of the conventional adjacent stations is not less than 190mm, which is related to the length of the chain, and is generally an even number of chain links.
- *Commonly used Circular guideway diameter is 468-800mm, the parameter table of the circular guideway can refer to our 《GMP Series Products》.

LOP Oval base structure series

25 Series-OV2

25 series oval base plate structure, It is used in the automatic production and manufacturing process of light load, high speed, high precision and long distance transportation.

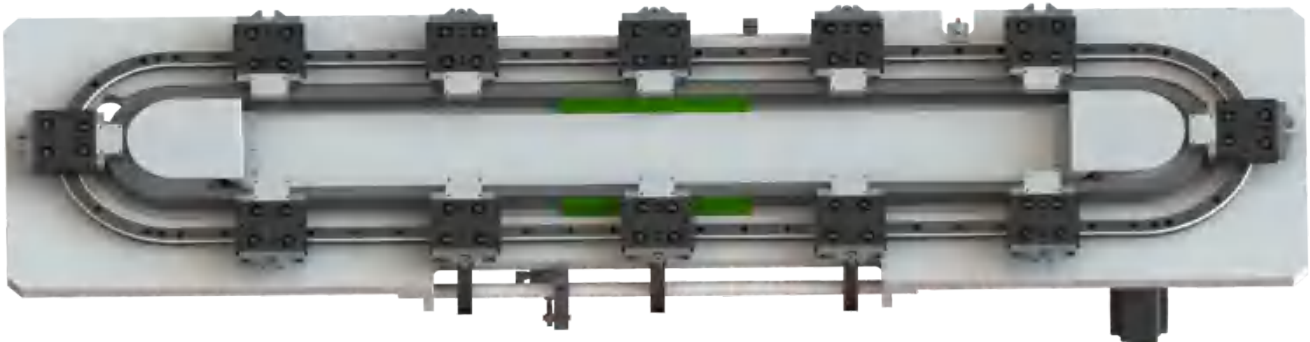


Structural Features

- Shape- Oval
- Base structure
- Precision chain drive
- Servo motor drive

Application characteristics

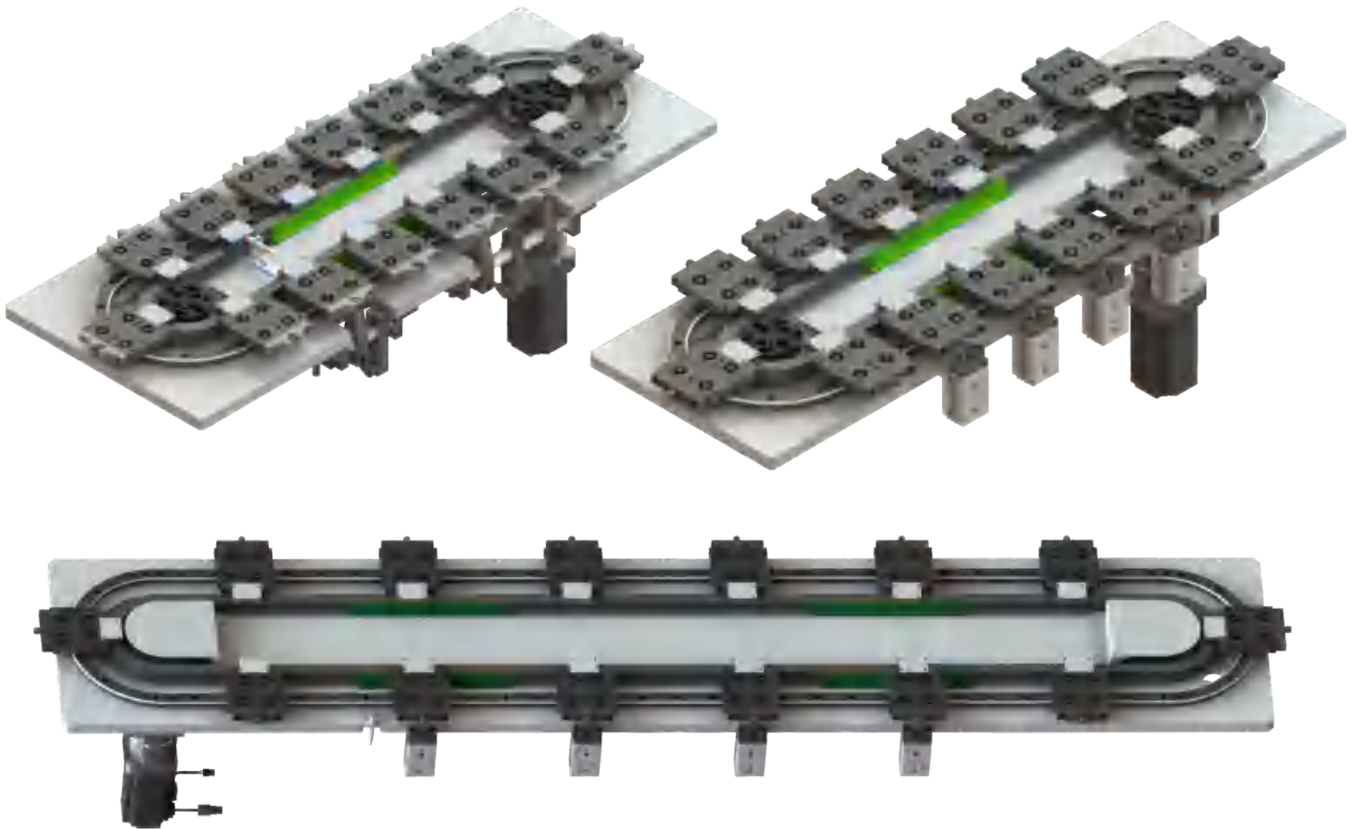
- Suitable for long-distance transportation, the circumference can reach more than 100 meters.
- Suitable for light load conveying, the maximum load of a single slide seat is 15 kg.
- The slide seat works intermittently and can be switched at different speeds as needed.
- Optional ranges of repeated positioning accuracy are: ± 0.05 - ± 0.5 mm



- The material of the slide seat can be selected from steel or aluminum, precision machining, strict quality control and exquisite installation process, which can make the accuracy of the slide seat in the three directions of X-Y-Z up to HP level, that is, $\leq \pm 0.05$ mm.

LOP Oval base structure series

25Series-OV2 of custom cases



Non-standard customization description

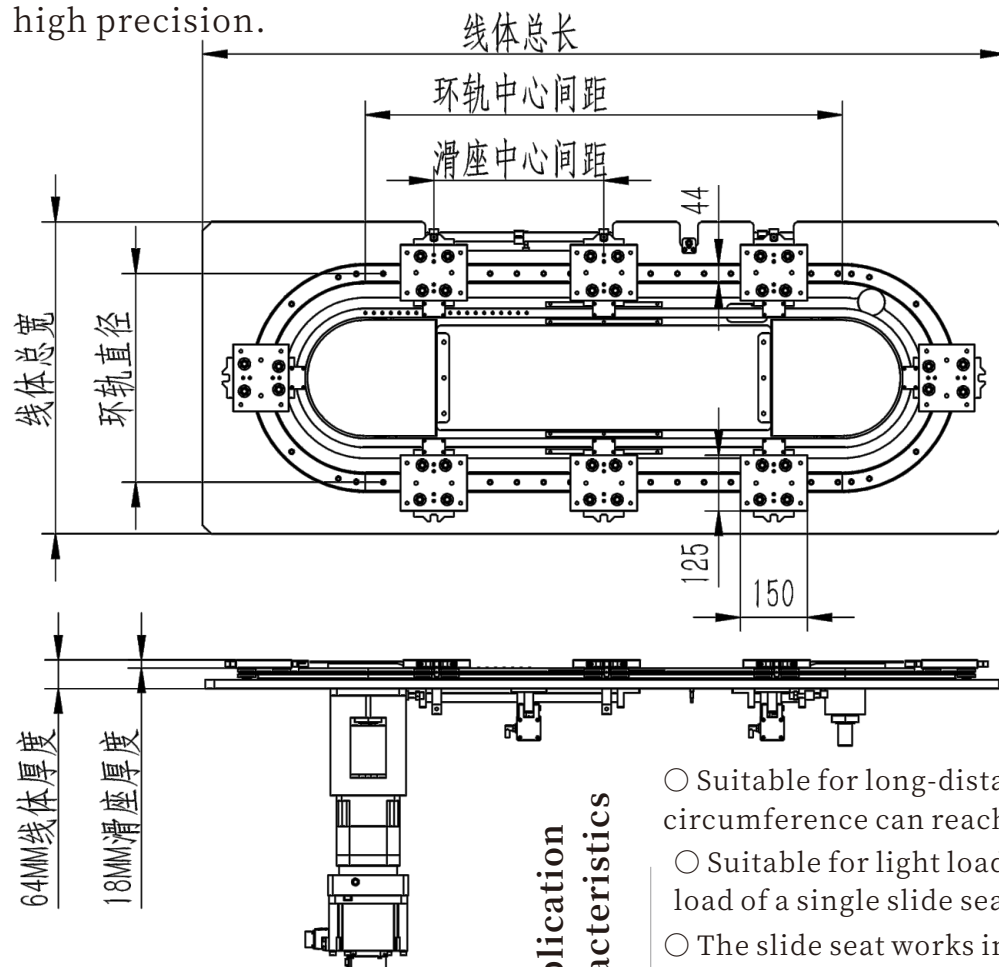
- * The center distance of the conventional adjacent stations is not less than 110mm, the specifications of the precision chain can be selected 8A/10A/12A and other specifications, and under normal circumstances, the selection of 12A specifications is more.
- * The minimum diameter of the circular guideway is 200mm and the maximum diameter is 1560mm.
- * Commonly used Circular guideway diameter is 255-600mm, the parameter table of the circular guideway can refer to our 《GMP Series Products》.
- * Speed is related to load size, circular guideway size and off-load condition.



LOP Oval base structure series

44 Series-OV2

44 Series Oval base structure chain driven ring guideway, It is used to automate production and manufacturing processes requiring medium load, high speed and high precision.



Structural Features

- Shape- Oval
- Base structure
- Precision chain drive
- Medium load
- V-shaped guideway

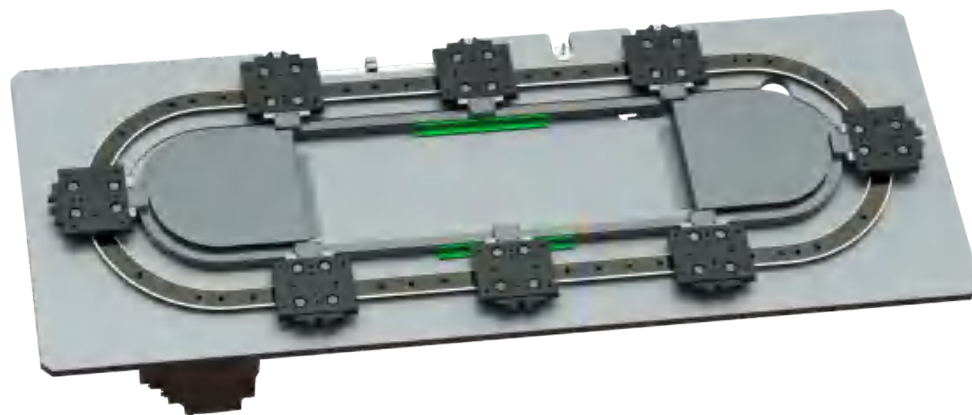
Application Characteristics

- Suitable for long-distance transportation, the circumference can reach more than 100 meters.
- Suitable for light load conveying, the maximum load of a single slide seat is 30 kg.
- The slide seat works intermittently and can be switched at different speeds as needed.
- Optional ranges of repeated positioning accuracy are: ± 0.05 - ± 0.5 mm

Non-standard customization description

*Speed is related to load size, circular guideway size and off-load condition.

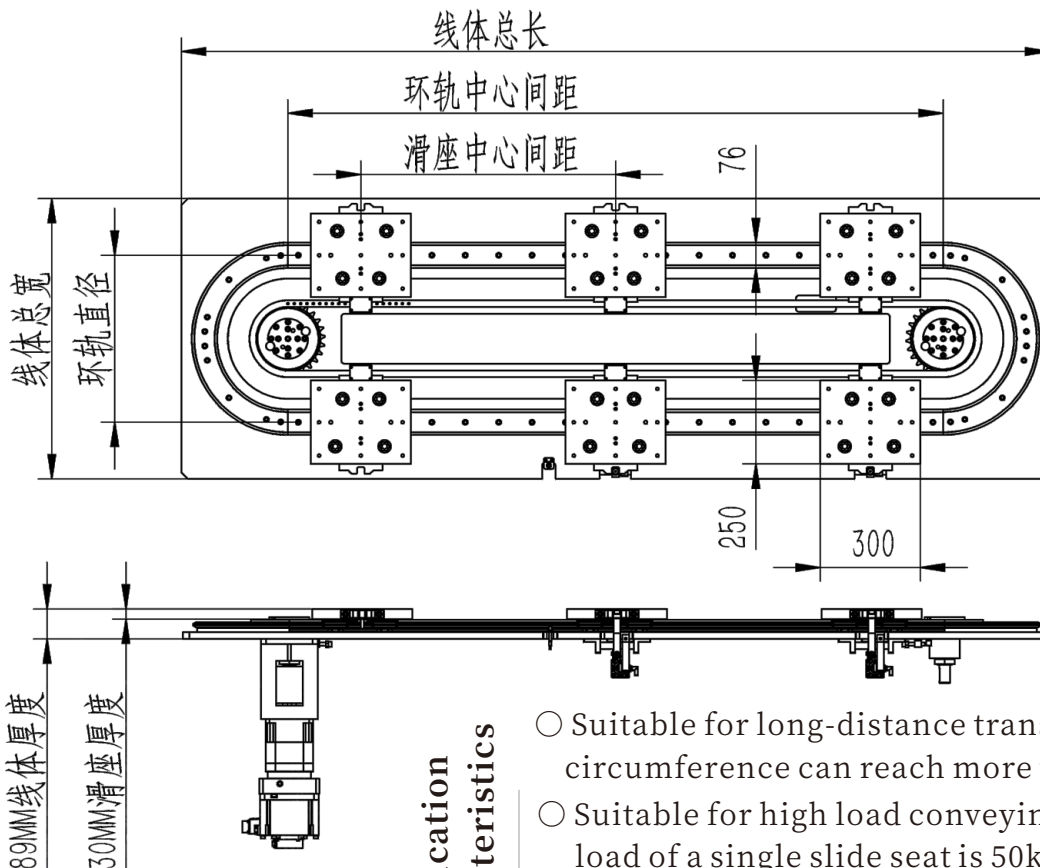
* Commonly used circular guideway diameter is 468-800mm, the parameter table of the circular guideway can refer to our [《GMP Series Products》](#).



LOP Oval base structure series

76 Series-OV2

76 Series Oval base structure chain driven ring guideway, It is used in the automated production and manufacturing process of high load, high speed, high precision, medium and long distance transportation needs.

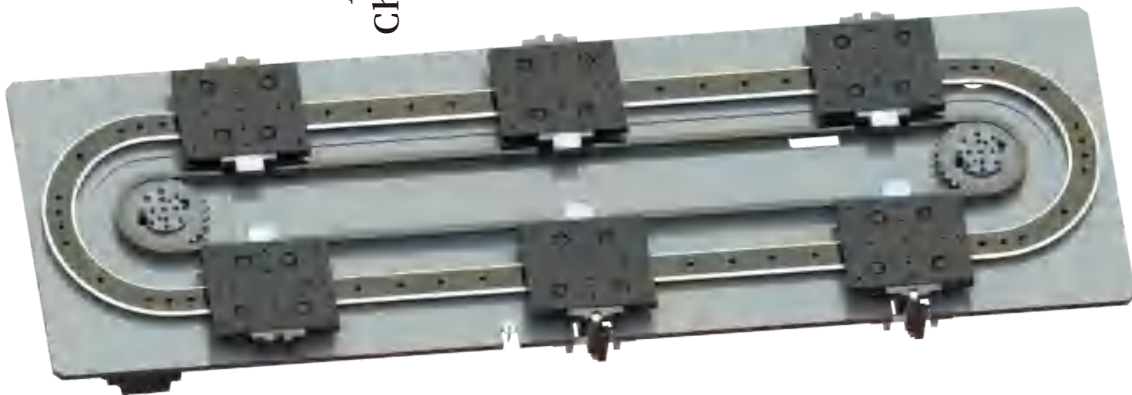


Structural Features

- Shape- Oval
- Base structure
- Precision chain drive
- High load V-shaped guideway

Application Characteristics

- Suitable for long-distance transportation, the circumference can reach more than 100 meters.
- Suitable for high load conveying, the maximum load of a single slide seat is 50kg.
- Optional ranges of repeated positioning accuracy are: ± 0.10 - ± 0.5 mm



Non-standard customization description

- * The center distance of the conventional adjacent stations is not less than 420mm, which is related to the length of the chain, and is generally an even number of chain links.
- * Commonly used circular guideway diameter is 500-900mm, the parameter table of the circular guideway can refer to our 《GMP Series Products》.

*Speed is related to load size, circular guideway size and off-load condition.

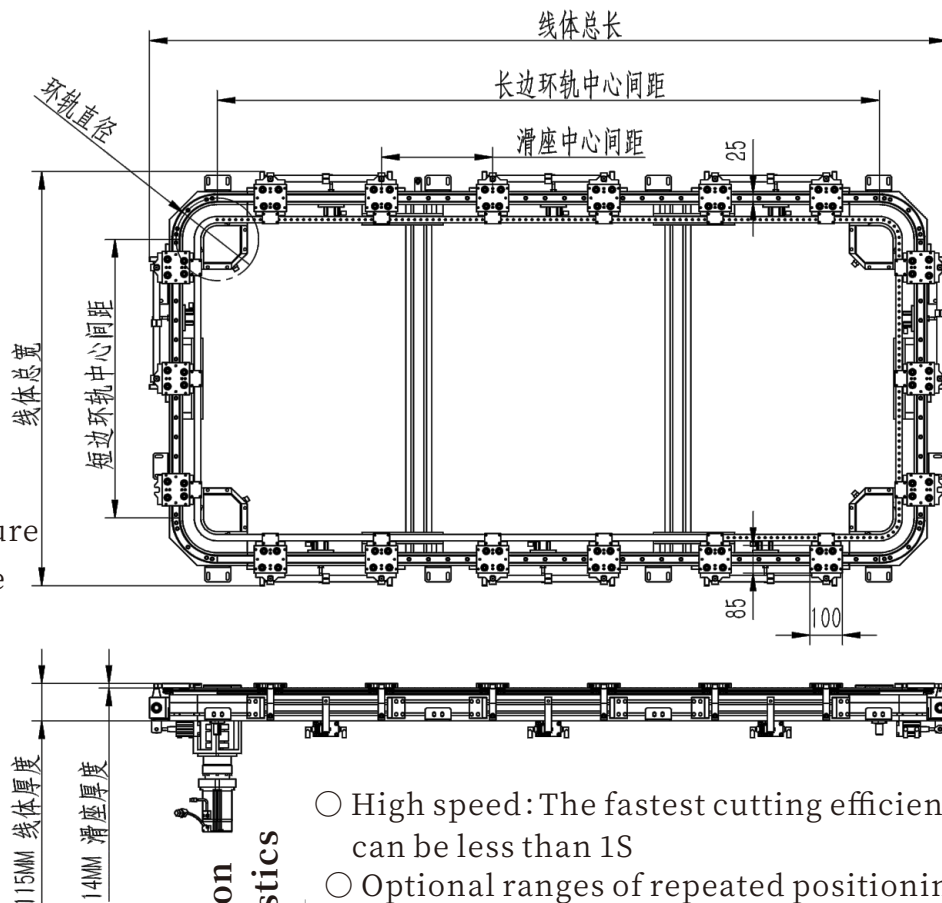
LOP Rectangular profile structure series

25 Series-RE2

Rectangular profile structure chain driven ring guideway, It is used in the automatic production and manufacturing process of light load, high speed, high precision and long distance transportation. The flexibility of space applications is high.

Structural Features

- Shape-Rectangular
- Profile frame structure
- Precision chain drive
- Light load V-shaped guideway



Application Characteristics

- High speed: The fastest cutting efficiency can be less than 1S
- Optional ranges of repeated positioning accuracy are: ± 0.05 - ± 0.5 mm
- Suitable for long-distance transportation, the circumference can reach more than 100m
- Suitable for light load conveying, the maximum load of a single slide seat is 15 kg.



- The material of the slide seat can be selected from steel or aluminum, precision machining, strict quality control and exquisite installation process, which can make the accuracy of the slide seat in the three directions of X-Y-Z up to HP level, that is, $\leq \pm 0.05$ mm.

LOP Rectangular profile structure series

25 Series-RE2 of custom cases



Non-standard customization description

- * The center distance of the conventional adjacent stations is not less than 110mm, which is related to the length of the chain, and is generally an even number of chain links.
- * The minimum diameter of the circular guideway is 200mm and the maximum diameter is 1560mm.
- * Commonly used Circular guideway diameter is 255-600mm, the parameter table of the circular guideway can refer to our 《GMP Series Products》.
- * Speed is related to load size, circular guideway size and off-load condition.



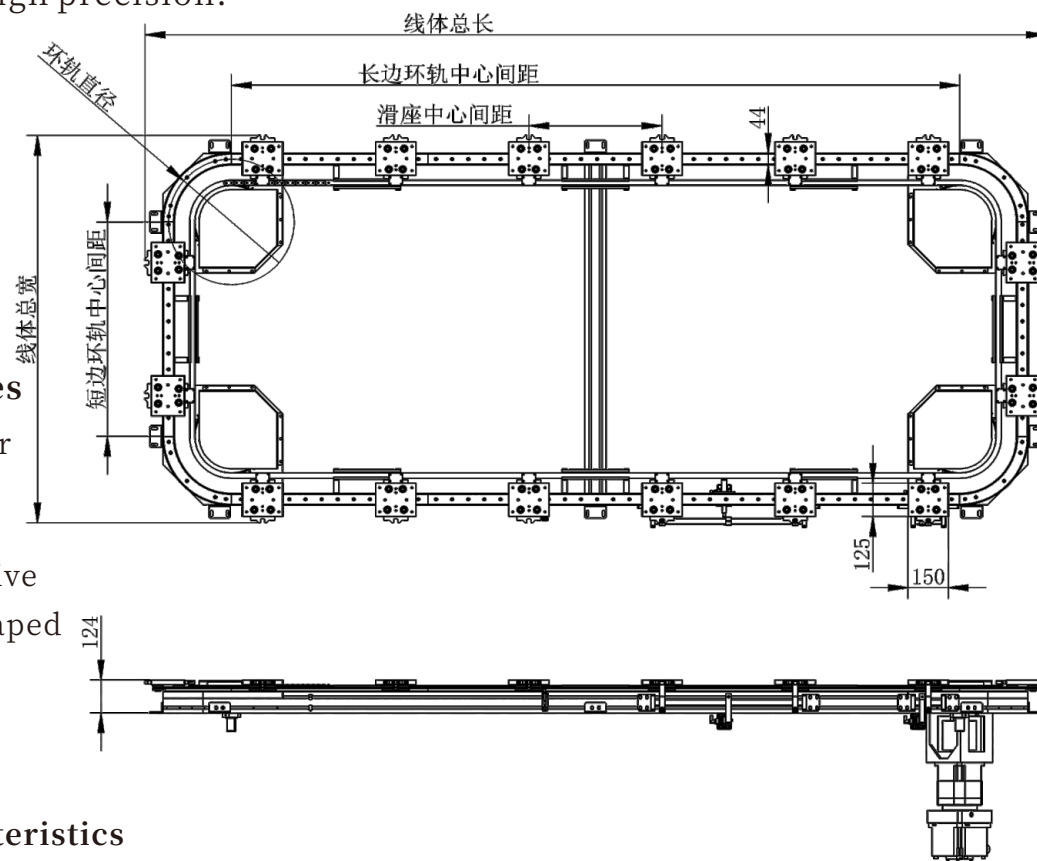
LOP Rectangular profile structure series

44 Series-RE2

44 Series rectangular profile structure chain driven ring guideway, It is used to automate production and manufacturing processes requiring medium load, high speed and high precision.

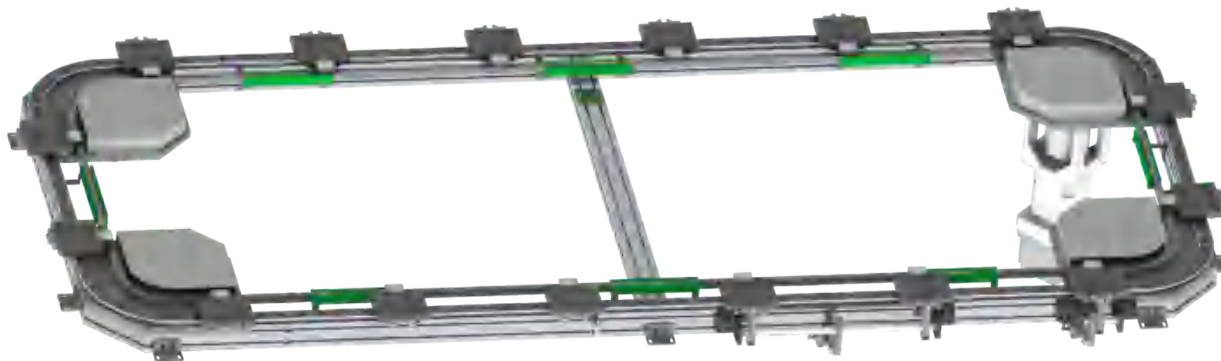
Structural Features

- Shape- Rectangular
- Profile frame structure
- Precision chain drive
- Medium load V-shaped guideway



Application Characteristics

- Suitable for long-distance transportation, the circumference can reach more than 100 m.
- Suitable for medium load conveying, the maximum load of a single slide seat is 30kg.
- The slide seat works intermittently and can be switched at different speeds as needed.
- Optional ranges of repeated positioning accuracy are: ± 0.05 - ± 0.5 mm



Non-standard customization description

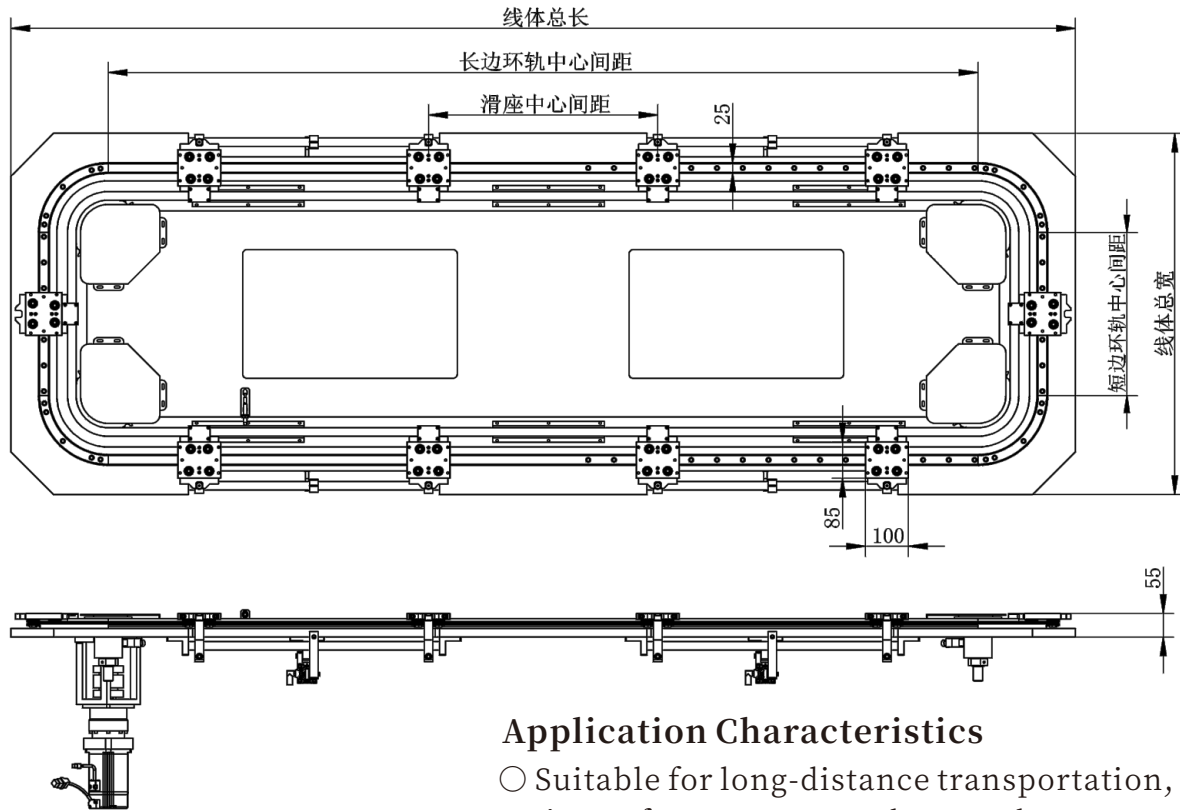
*Speed is related to load size, circular guideway size and off-load condition.

*Commonly used Circular guideway diameter is 468-800mm, the parameter table of the circular guideway can refer to our 《GMP Series Products》.

LOP Rectangular base structure series

25 Series-RE2

Rectangular base structure chain driven ring guideway, It is used in the automatic production and manufacturing process of light load, high speed, high precision and long distance transportation. The flexibility of space applications is high.

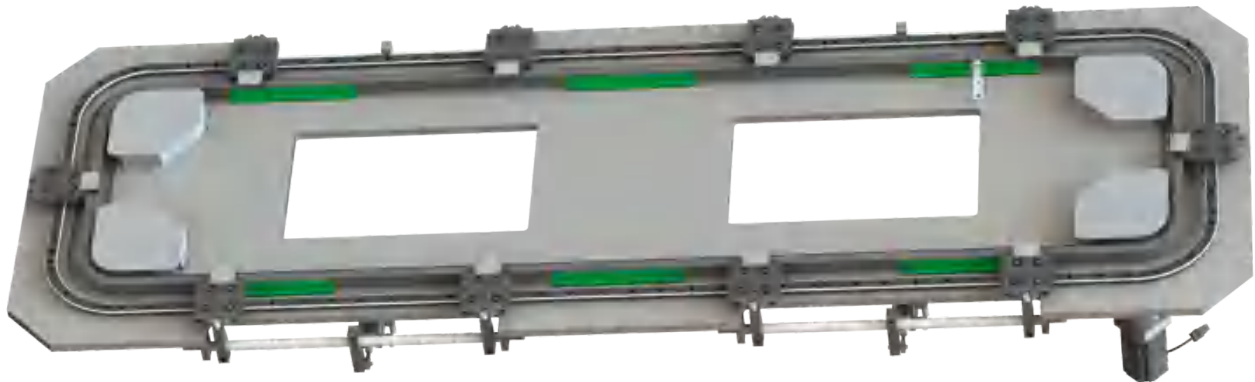


Structural Features

- Shape-Rectangular
- Base structure
- Precision chain drive
- Light load V-shaped guideway

Application Characteristics

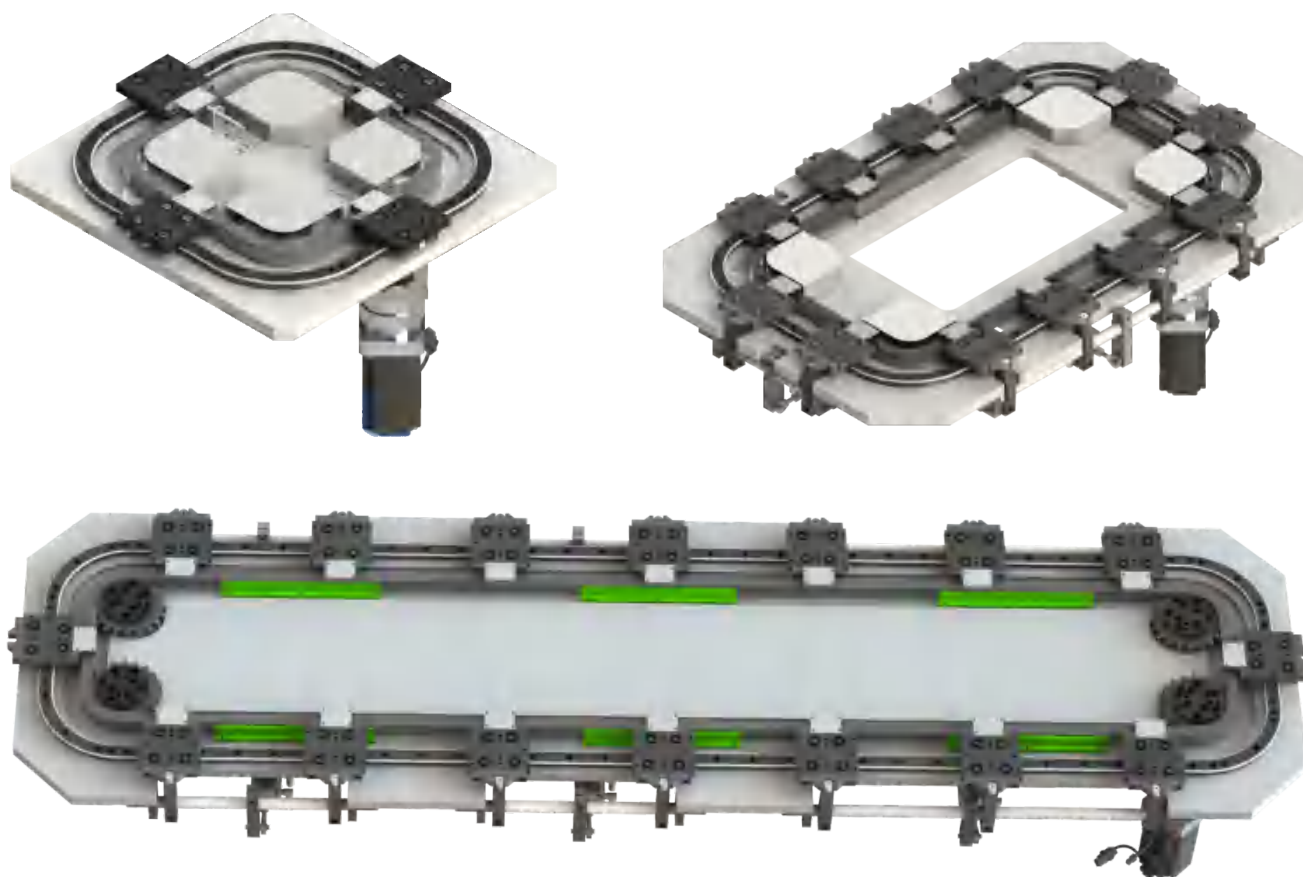
- Suitable for long-distance transportation, the circumference can reach more than 100 meters.
- Suitable for light load conveying, the maximum load of a single slide seat is 15kg.
- The slide seat works intermittently and can be switched at different speeds as needed.
- Optional ranges of repeated positioning accuracy are: ± 0.05 - ± 0.5 mm



- The material of the slide seat can be selected from steel or aluminum, precision machining, strict quality control and exquisite installation process, which can make the accuracy of the slide seat in the three directions of X-Y-Z up to HP level, that is, $\leq \pm 0.05$ mm.

LOP Rectangular base structure series

25 Series-RE2 of custom cases



Non-standard customization description

- * The center distance of the conventional adjacent stations is not less than 110mm, which is related to the length of the chain, and is generally an even number of chain links.
- * The minimum diameter of the circular guideway is 200mm and the maximum diameter is 1560mm.
- * Commonly used Circular guideway diameter is 255-600mm, the parameter table of the circular guideway can refer to our **《GMP Series Products》**.
- * Speed is related to load size, circular guideway size and off-load condition.

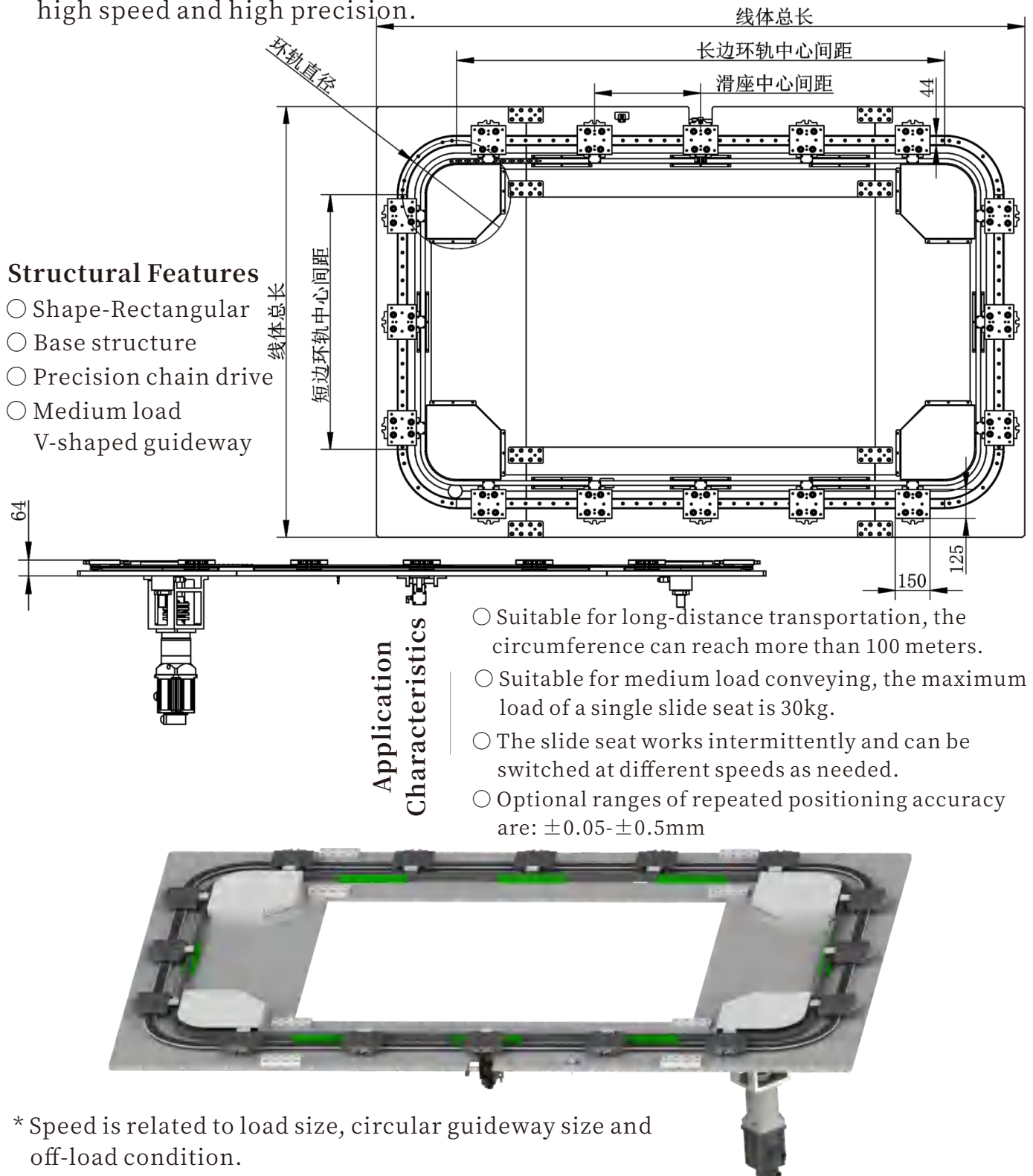


*The cable body can be customized according to the requirements.

LOP Rectangular base structure series

44 Series-RE2

44 Series rectangular base structure chain driven ring guideway, It is used to automate production and manufacturing processes requiring medium load, high speed and high precision.



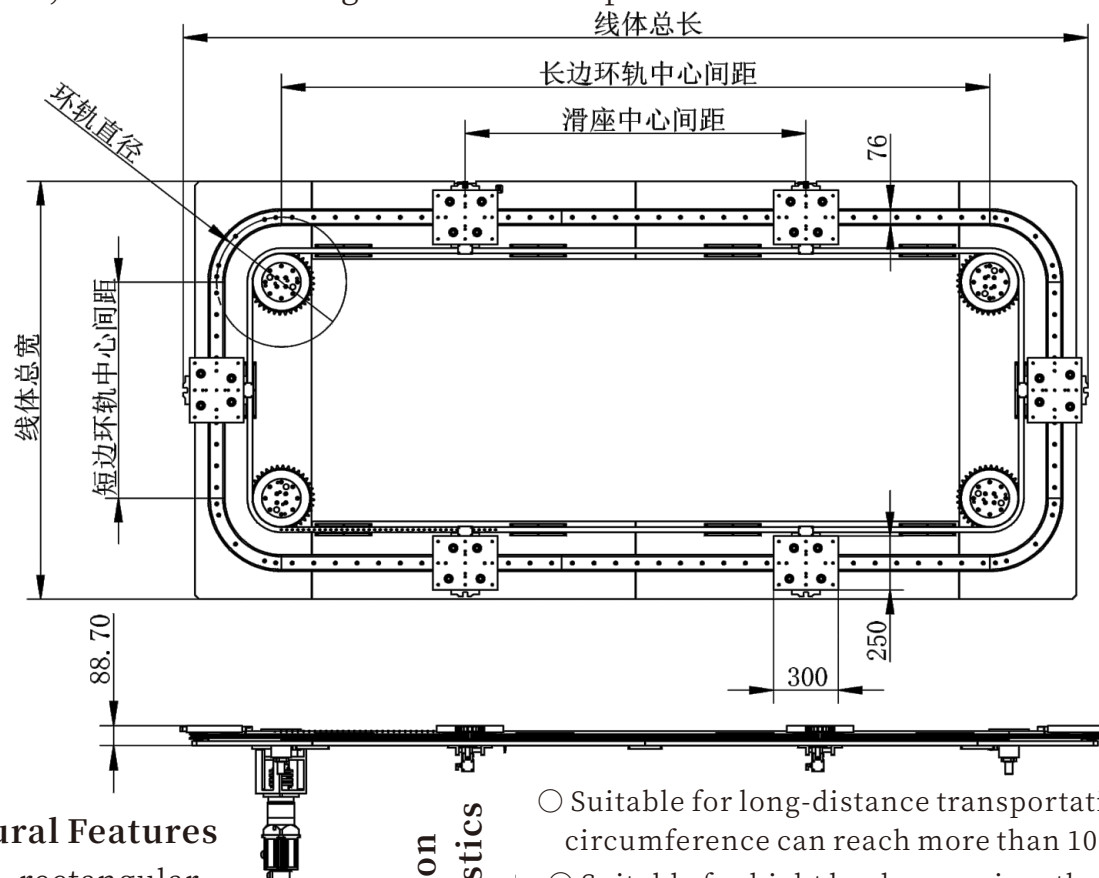
* Speed is related to load size, circular guideway size and off-load condition.

* Commonly used circular guideway diameter is 468-800mm, the parameter table of the circular guideway can refer to our 《GMP Series Products》.

LOP Rectangular base structure series

76 Series-RE2

76 Series rectangular base structure chain driven ring guideway, It is used in the automated production and manufacturing process of high load, high speed, high precision, medium and long distance transportation needs.



Structural Features

- Shape- rectangular
- Base structure
- Precision chain drive
- High load V-shaped guideway

Application Characteristics

- Suitable for long-distance transportation, the circumference can reach more than 100 meters.
- Suitable for high load conveying, the maximum load of a single slide seat is 50kg.
- The slide seat works intermittently and can be switched at different speeds as needed.
- Optional ranges of repeated positioning accuracy are: ± 0.1 - ± 0.5 mm



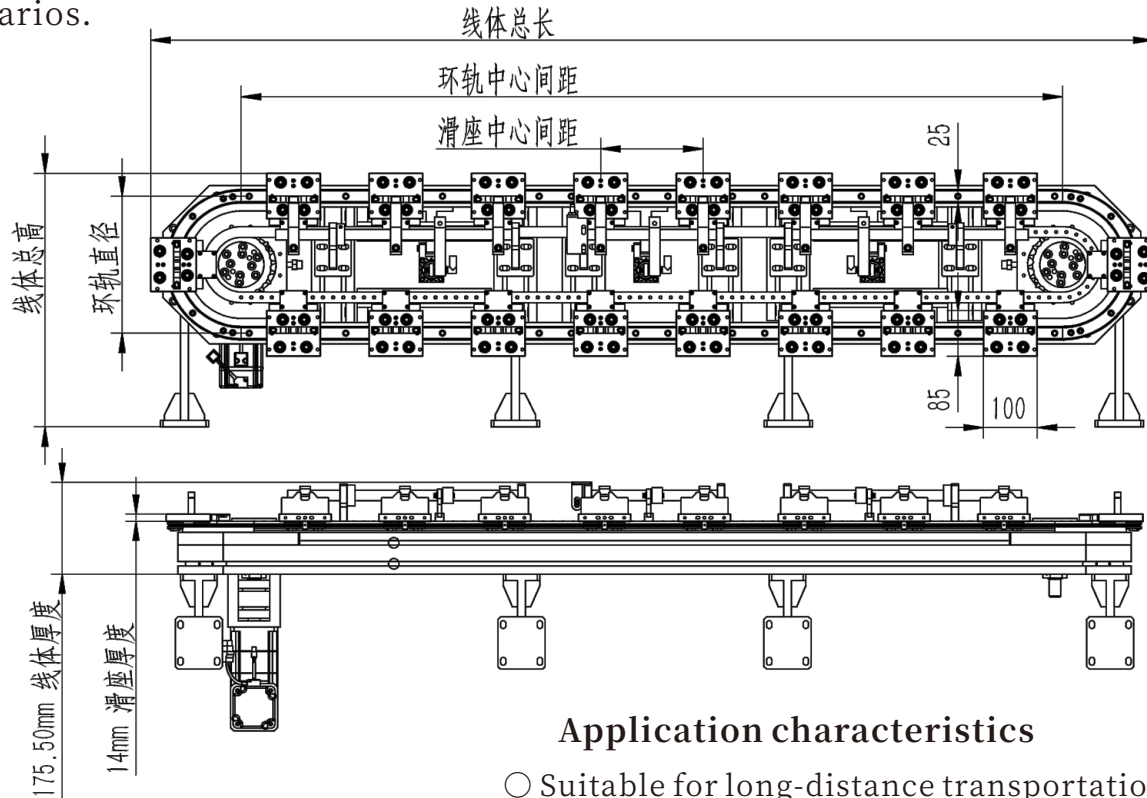
* Speed is related to load size, circular guideway size and off-load condition.

* Commonly used Circular guideway diameter is 500-900mm, the parameter table of the circular guideway can refer to our 《GMP Series Products》

LOP Oval vertical installation profile structure series

25 Series-OV2

This series of precision loop line is used in light load, vertical installation, high speed, high precision, lightweight automated production and manufacturing scenarios.

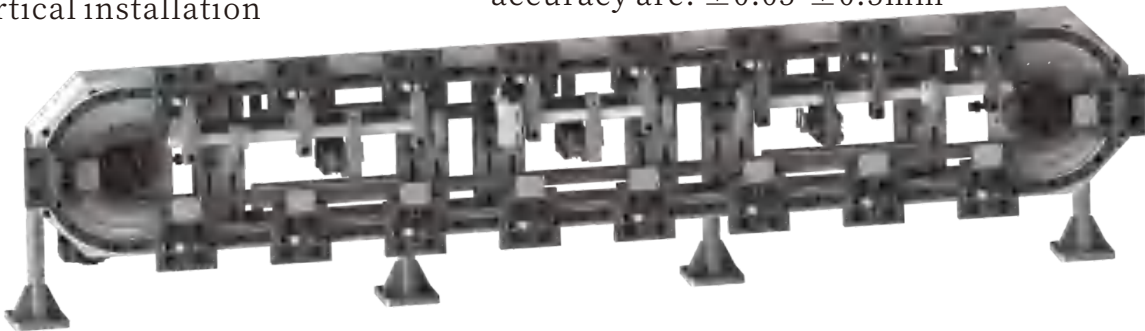


Structural Features

- Shape- Oval
- Profile frame structure
- Precision chain drive
- Light load V-shaped guideway
- Vertical installation

Application characteristics

- Suitable for long-distance transportation, the circumference can reach more than 100 meters.
- Suitable for light load conveying, the maximum load of a single slide seat is 15 kg.
- The slide seat works intermittently and can be switched at different speeds as needed.
- Optional ranges of repeated positioning accuracy are: ± 0.05 - ± 0.5 mm



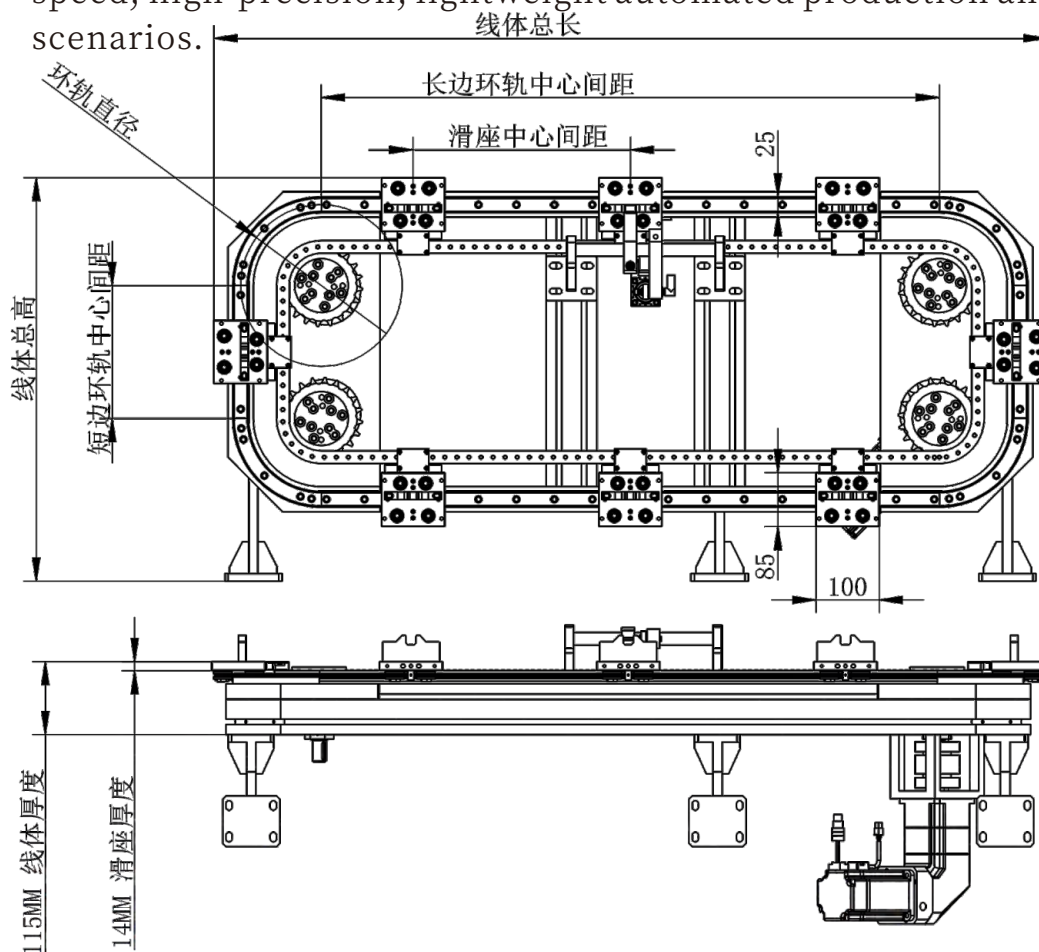
Non-standard customization description

- *Speed is related to load size, circular guideway size and off-load condition.
- *The center distance of the conventional adjacent stations is not less than 110mm, which is related to the length of the chain, and is generally an even number of chain links.
- *Commonly used Circular guideway diameter is 255-600mm, the parameter table of the Circular guideway can refer to our 《GMP Series Products》.

LOP Rectangular vertical installation profile structure series

25Series-RE2

This series of Precision loop line is used in light load, vertical installation, high speed, high-precision, lightweight automated production and manufacturing scenarios.



Structural Features

- Shape-Rectangular
- Profile frame structure
- Precision chain drive
- Light load V-shaped guideway
- Vertical installation

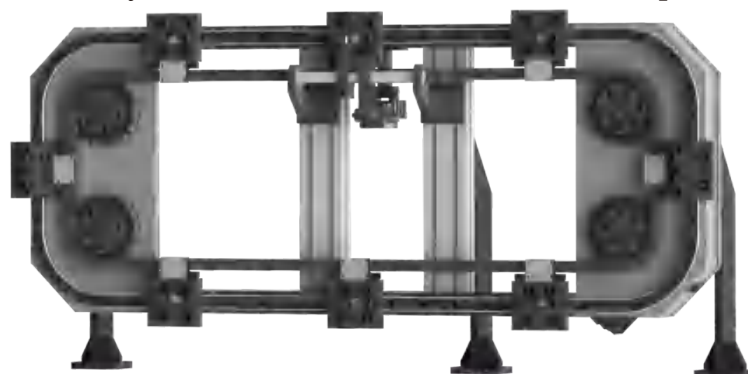
Application characteristics

- Suitable for long-distance transportation, the circumference can reach more than 100 meters.
- Suitable for light load conveying, the maximum load of a single slide seat is 15 kg.
- The slide seat works intermittently and can be switched at different speeds as needed.
- Optional ranges of repeated positioning accuracy are: ± 0.05 - ± 0.5 mm

Non-standard customization description

*The center distance of the conventional adjacent stations is not less than 110mm, which is related to the length of the chain, and is generally an even number of chain links.

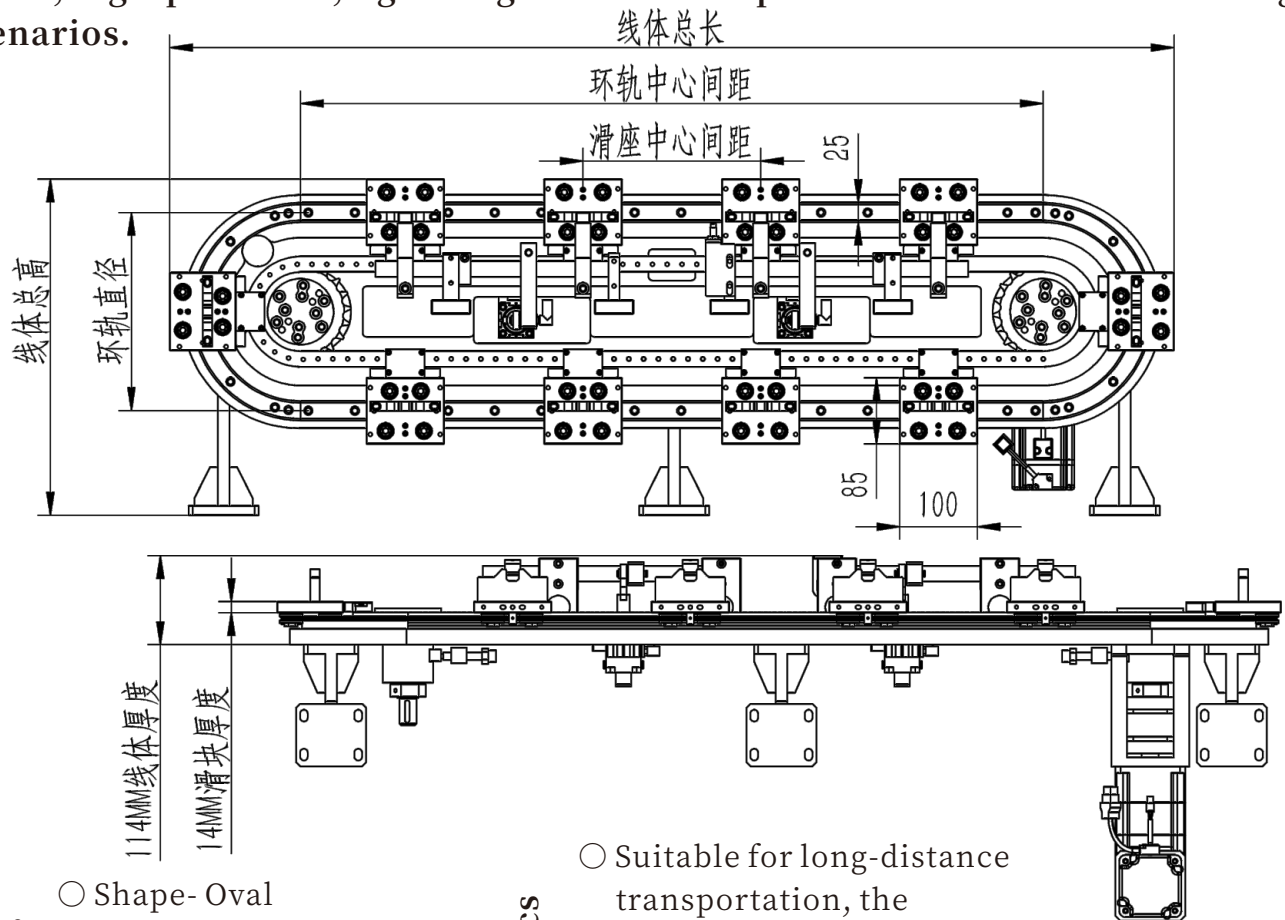
*Commonly used Circular guideway diameter is 255-600mm, the parameter table of the Circular guideway can refer to our 《GMP Series Products》.



LOP Oval vertical installation base structure series

25 Series-OV2

This series of Precision loop line is used in light load, vertical installation, high speed, high-precision, lightweight automated production and manufacturing scenarios.

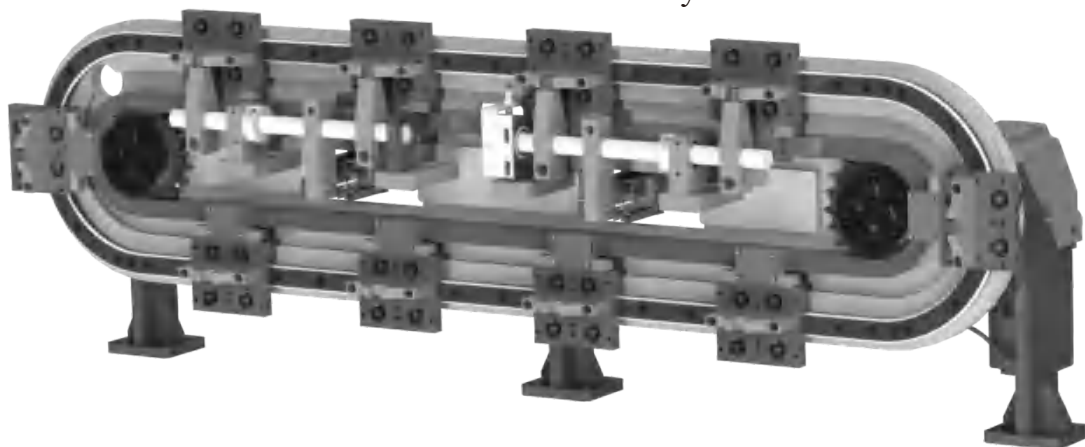


Structural Features

- Shape- Oval
- Base structure
- Precision chain drive
- Vertical installation
- Light load V-shaped guideway

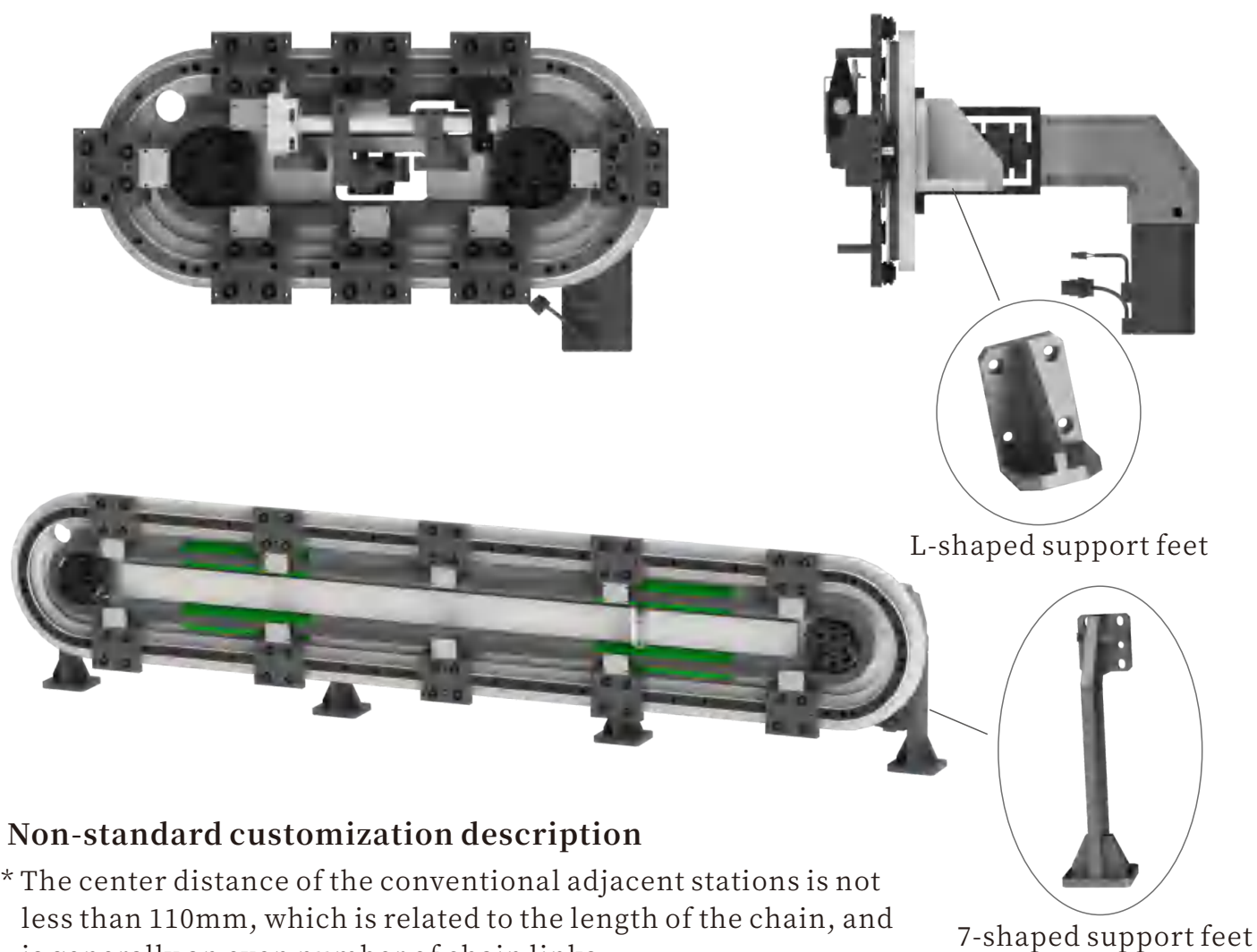
Application characteristics

- Suitable for long-distance transportation, the circumference can reach more than 100 meters.
- Suitable for light load conveying, the maximum load of a single slide seat is 15 kg.
- The slide seat works intermittently and can be switched at different speeds as needed.
- Optional ranges of repeated positioning accuracy are: ± 0.05 - ± 0.5 mm



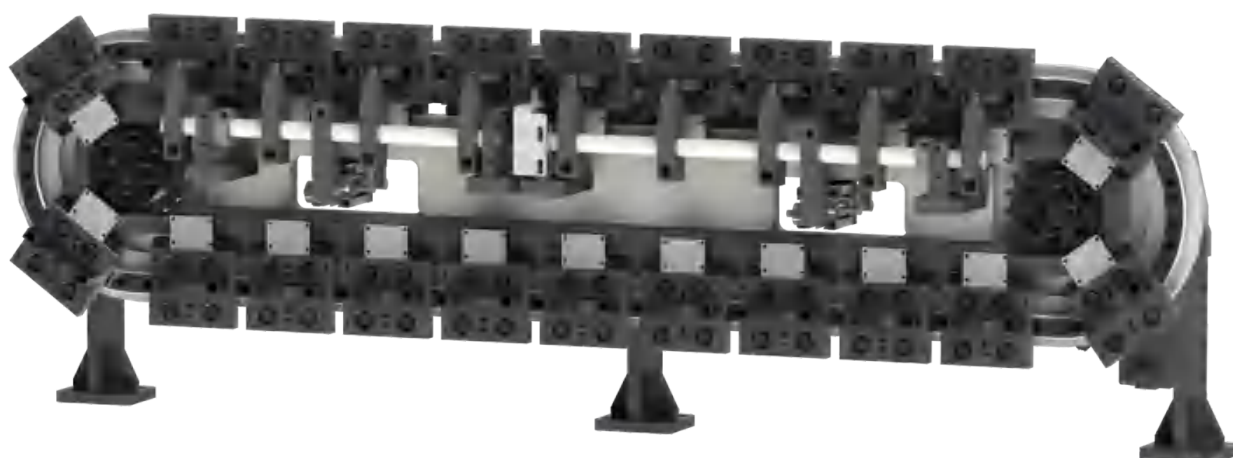
LOP Oval vertical installation base structure series

25 Series-OV2 of custom cases



Non-standard customization description

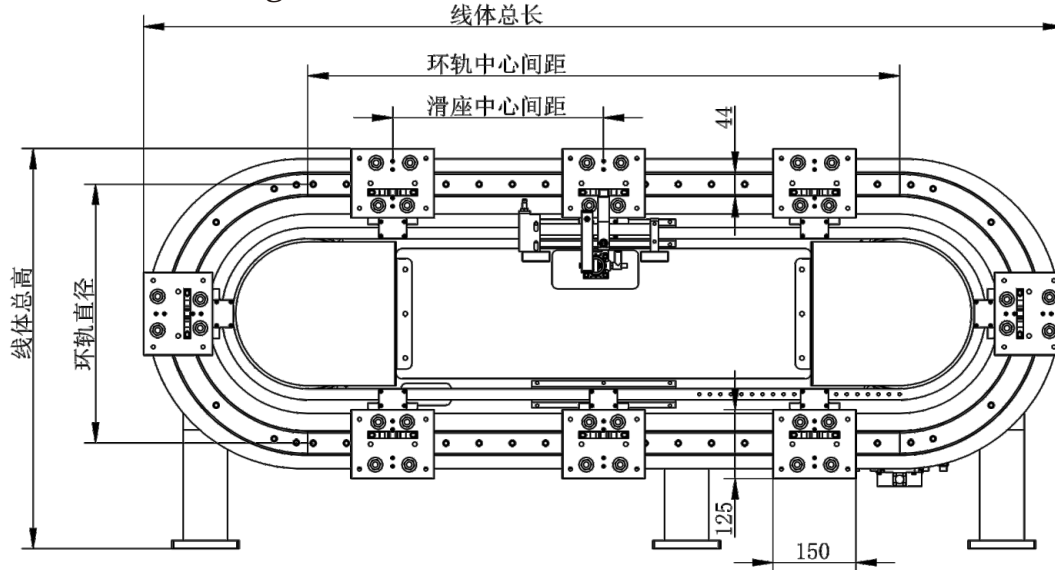
- * The center distance of the conventional adjacent stations is not less than 110mm, which is related to the length of the chain, and is generally an even number of chain links.
- * Commonly used Circular guideway diameter is 255-600mm, the parameter table of the circular guideway can refer to our 《GMP Series Products》.
- * Speed is related to load size, circular guideway size and off-load condition.



LOP Oval vertical installation base structure series

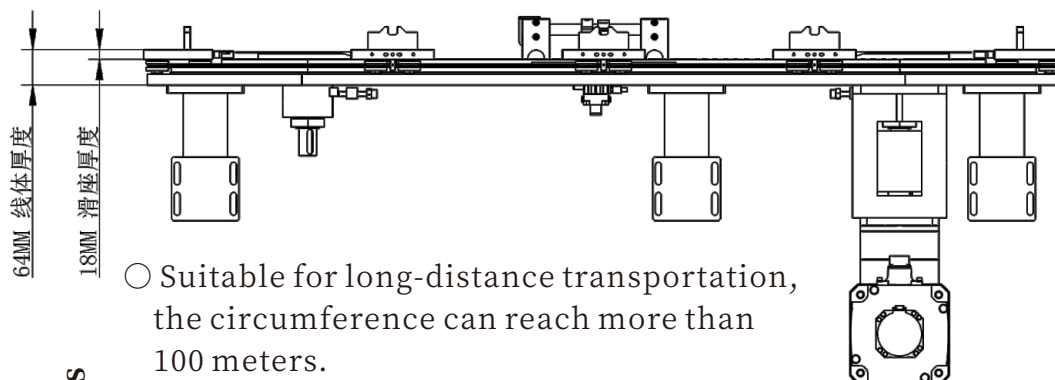
44 Series-OV2

This series of Precision loop line is used in medium-load, vertical installation, compact space, high-speed, high-precision automated production and manufacturing scenarios.



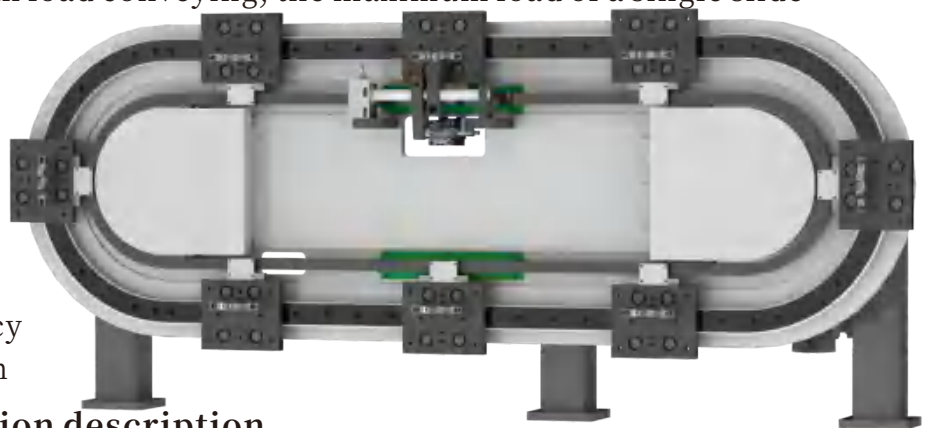
Structural Features

- Shape- Oval
- Base structure
- Precision chain drive
- Vertical installation
- Medium load
- V-shaped guideway



Application characteristics

- Suitable for long-distance transportation, the circumference can reach more than 100 meters.
- Suitable for medium load conveying, the maximum load of a single slide seat is 30kg.
- High integration, good structural stability of the base plate.
- Optional ranges of repeated positioning accuracy are: ± 0.05 - ± 0.5 mm



Non-standard customization description

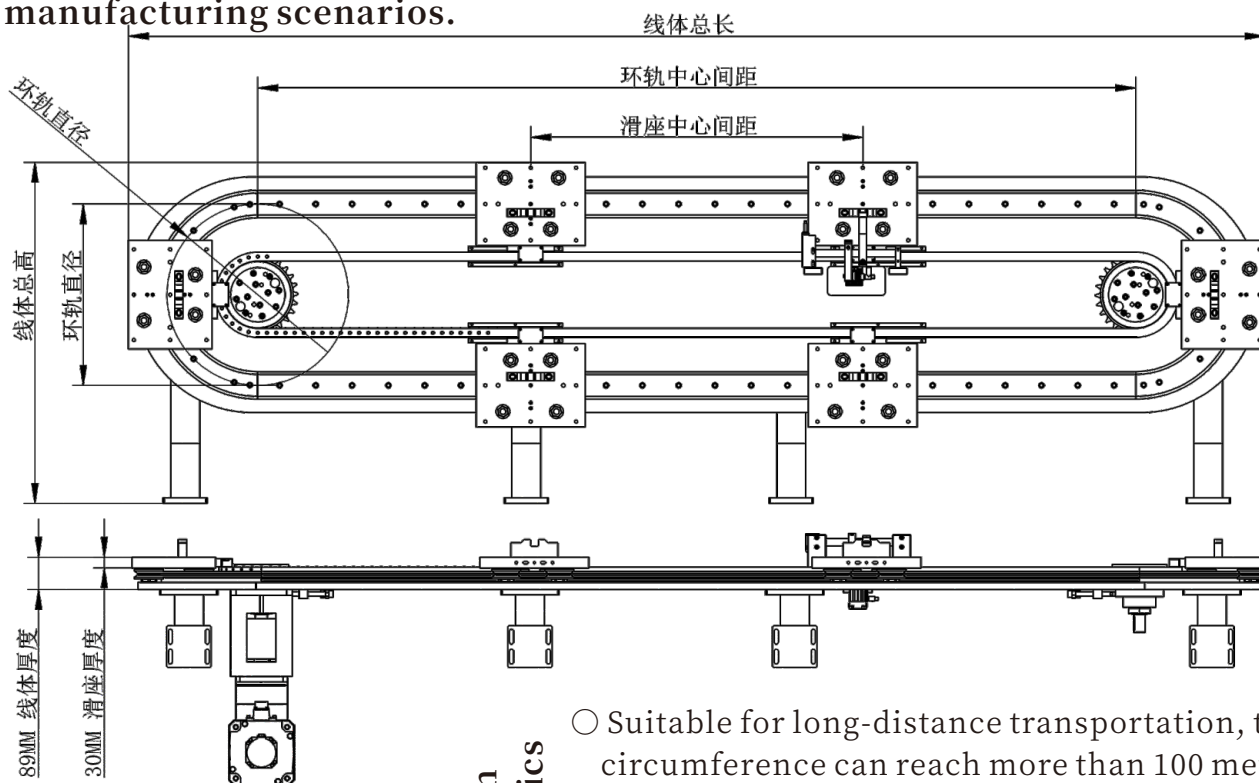
* The center distance of the conventional adjacent stations is not less than 190mm, which is related to the length of the chain, and is generally an even number of chain links.

* Commonly used Circular guideway diameter is 468-800mm, the parameter table of the Circular guideway can refer to our 《GMP Series Products》

LOP Oval vertical installation base structure series

76 Series-OV2

This series of Precision loop line is used in heavy-load, vertical installation, compact space, high-speed, high-precision automated production and manufacturing scenarios.

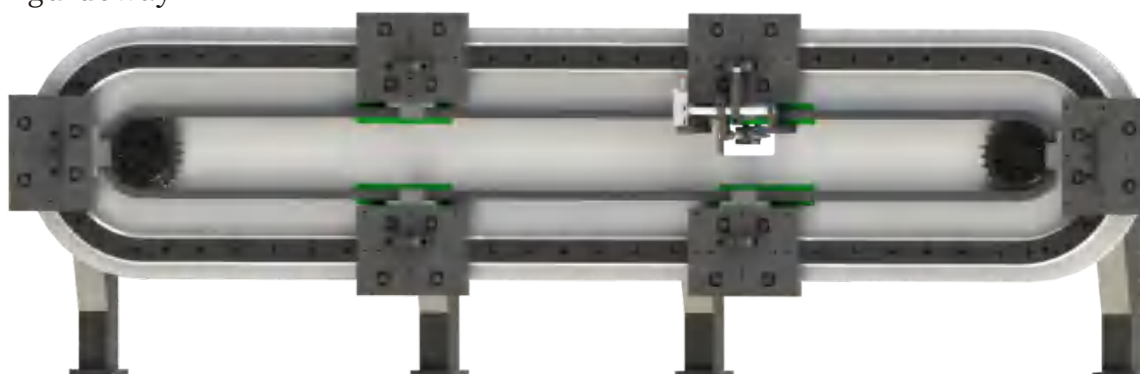


Structural Features

- Shape- Oval
- Base structure
- Precision chain drive
- Vertical installation
- High load V-shaped guideway

Application characteristics

- Suitable for long-distance transportation, the circumference can reach more than 100 meters.
- Suitable for high load conveying, the maximum load of a single slide seat is 50kg.
- High integration and good stability
- Optional ranges of repeated positioning accuracy are: ± 0.10 - ± 0.5 mm



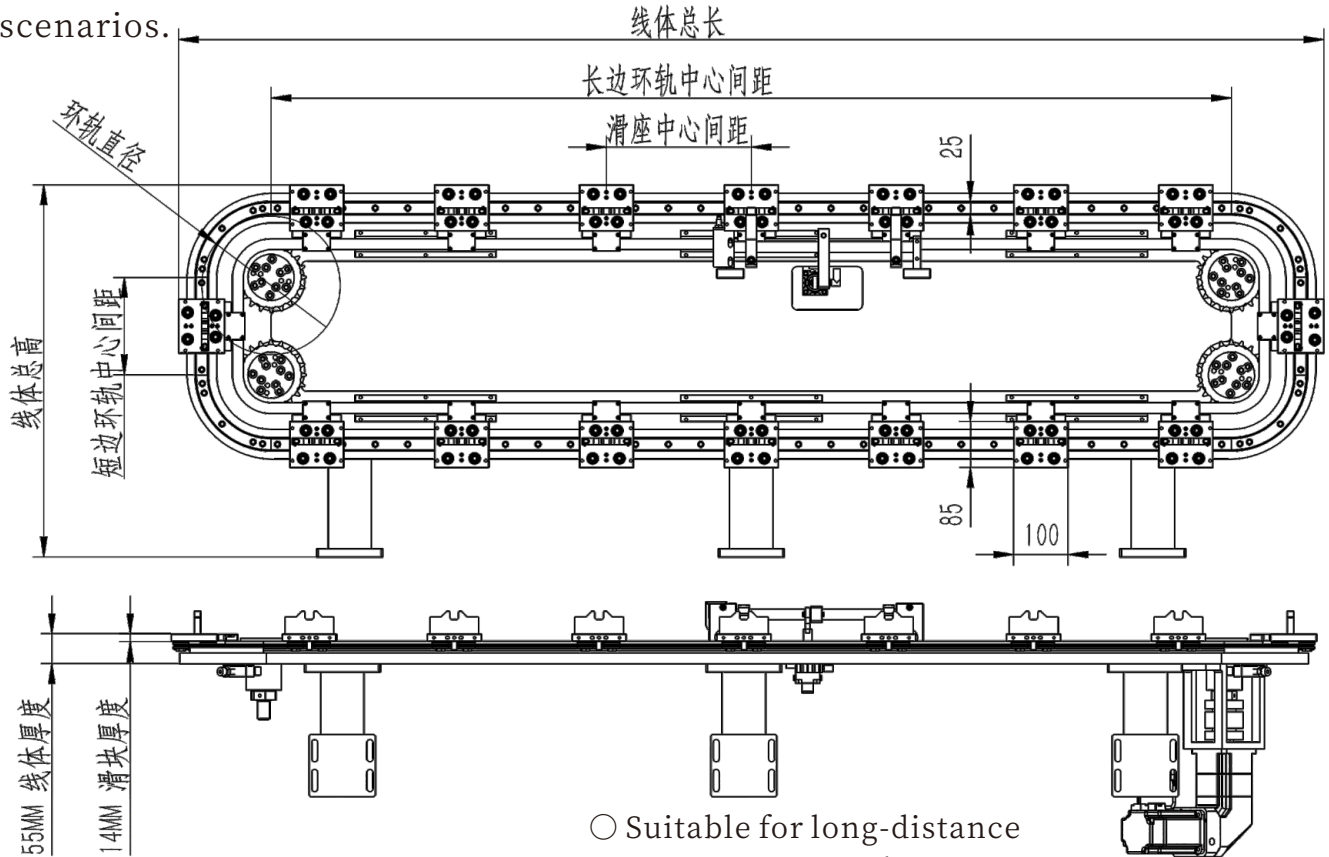
Non-standard customization description

- * Speed is related to load size, circular guideway size and off-load condition.
- * Commonly used Circular guideway diameter is 500-900mm, the parameter table of the circular guideway can refer to our 《GMP Series Products》.

LOP Rectangular vertical installation base structure series

25 Series-RE2

This series of Precision loop line is used in light load, vertical installation, high speed, high precision, lightweight automated production and manufacturing scenarios.

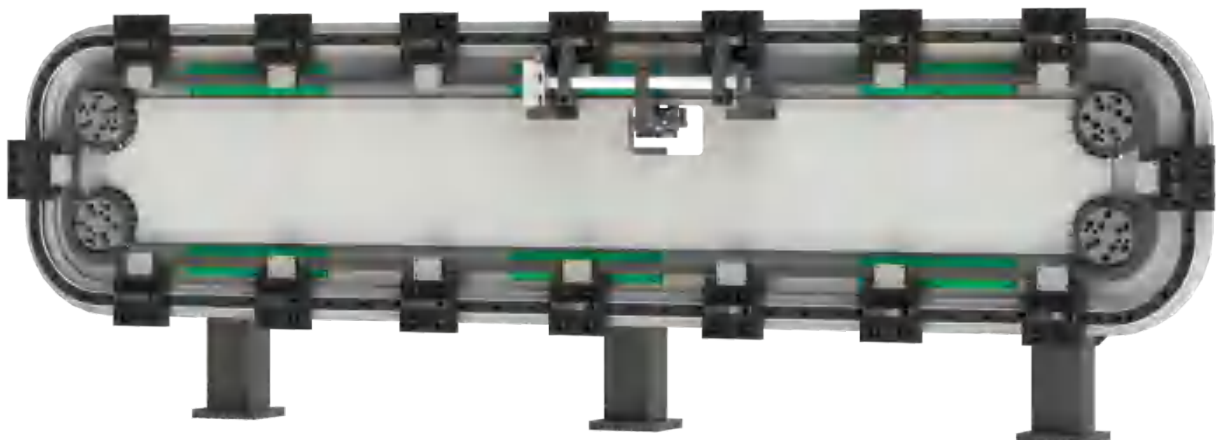


Structural Features

- Shape- Rectangular
- Base structure
- Precision chain drive
- Vertical installation
- Light load V-shaped guideway

Application characteristics

- Suitable for long-distance transportation, the circumference can reach more than 100 meters.
- Suitable for light load conveying, the maximum load of a single slide seat is 15 kg.
- The slide seat works intermittently and can be switched at different speeds as needed.
- Optional ranges of repeated positioning accuracy are: ± 0.05 - ± 0.5 mm



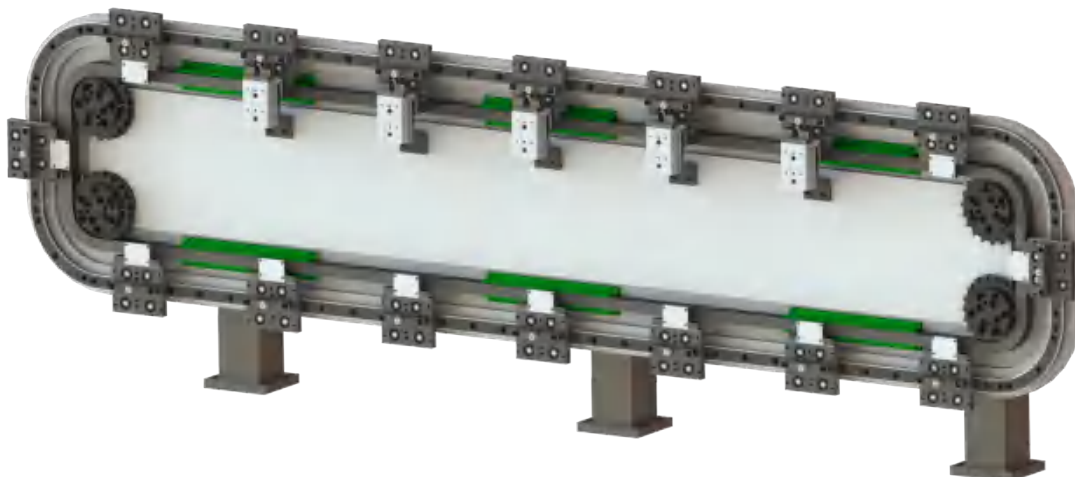
LOP Rectangular vertical installation base structure series

25 Series-RE2 of custom cases



Non-standard customization description

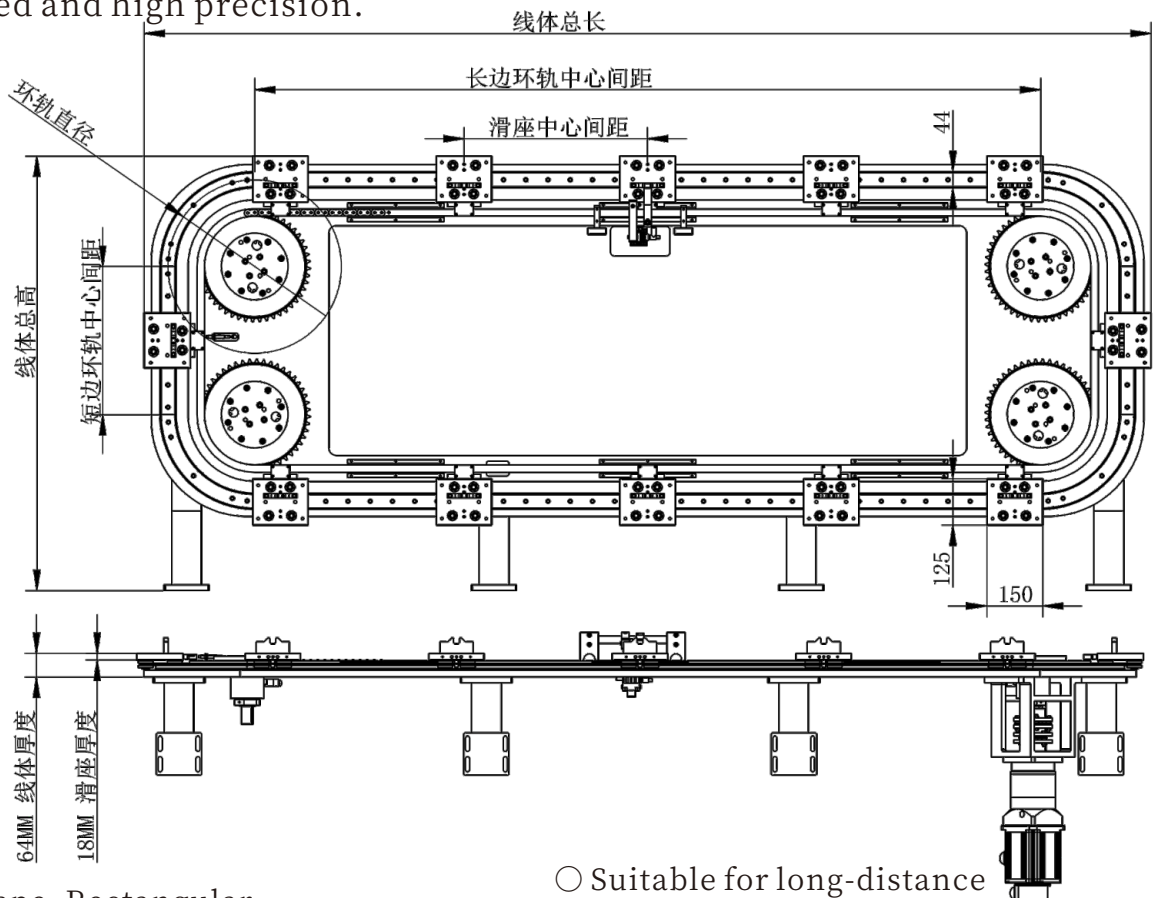
- * The center distance of the conventional adjacent stations is not less than 110mm, which is related to the length of the chain, and is generally an even number of chain links.
- * Commonly used Circular guideway diameter is 255-600mm, the parameter table of the circular guideway can refer to our 《GMP Series Products》.
- * Speed is related to load size, circular guideway size and off-load condition.



LOP Rectangular vertical installation base structure series

44 Series-RE2

44 Series rectangular base structure chain driven ring guideway, It is used to automate production and manufacturing processes requiring medium load, high speed and high precision.



Structural Features

- Shape- Rectangular
- Base structure
- Precision chain drive
- Vertical installation
- Medium load V-shaped guideway

Application characteristics

- Suitable for long-distance transportation, the circumference can reach more than 100 meters.
- Suitable for light load conveying, the maximum load of a single slide seat is 30 kg.
- The slide seat works intermittently and can be switched at different speeds as needed.
- Optional ranges of repeated positioning accuracy are: $\pm 0.05 - \pm 0.5\text{mm}$



* Commonly used Circular guideway diameter is 468-800mm, the parameter table of the circular guideway can refer to our 《GMP Series Products》.

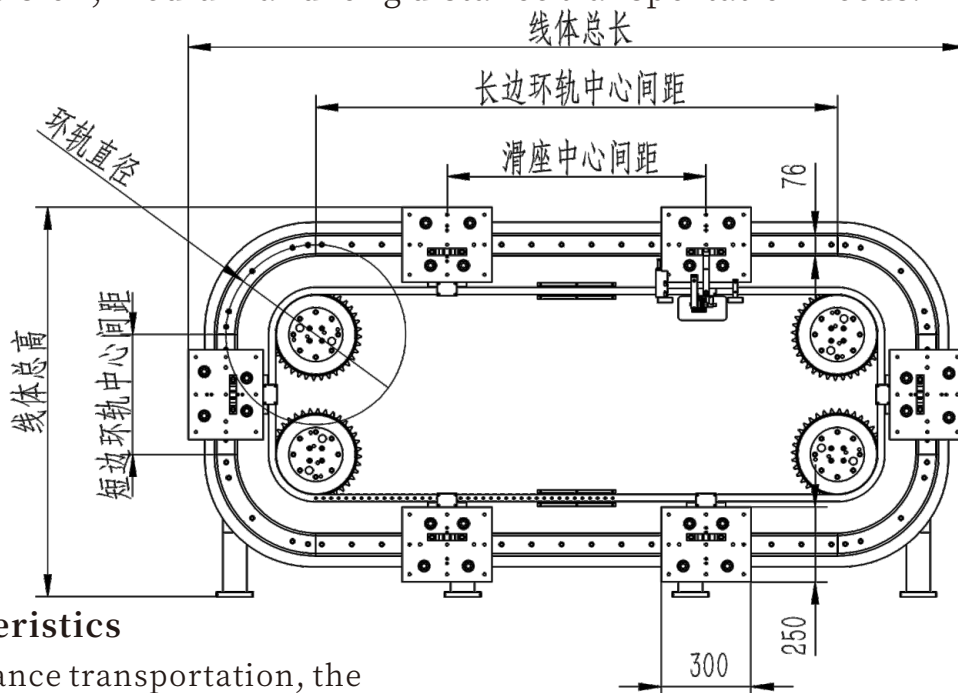
LOP Rectangular vertical installation base structure series

76 Series-RE2

76 Series Rectangular vertical installation base structure chain driven ring guideway, It is used in the automated production and manufacturing process of high load, high speed, high precision, medium and long distance transportation needs.

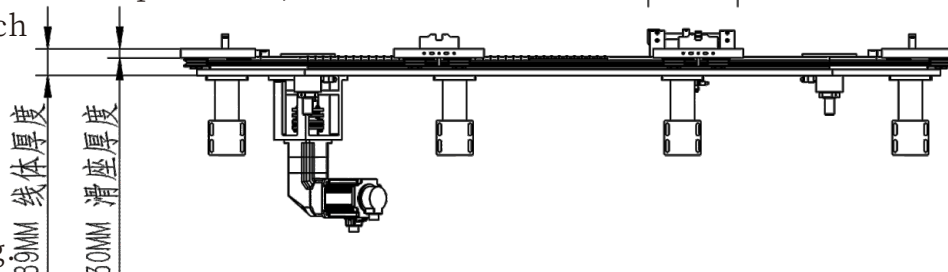
Structural Features

- Shape- Rectangular
- Base structure
- Precision chain drive
- Vertical installation
- High load V-shaped guideway



Application characteristics

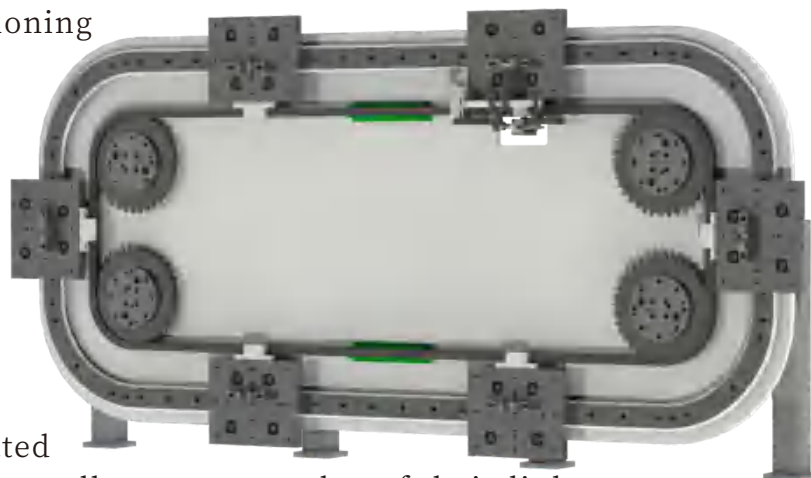
- Suitable for long-distance transportation, the circumference can reach more than 100 meters.
- Suitable for high load conveying, the maximum load of a single slide seat is 50kg.



- High integration and good stability
- Optional ranges of repeated positioning accuracy are: ± 0.10 - ± 0.5 mm

Non-standard customization description

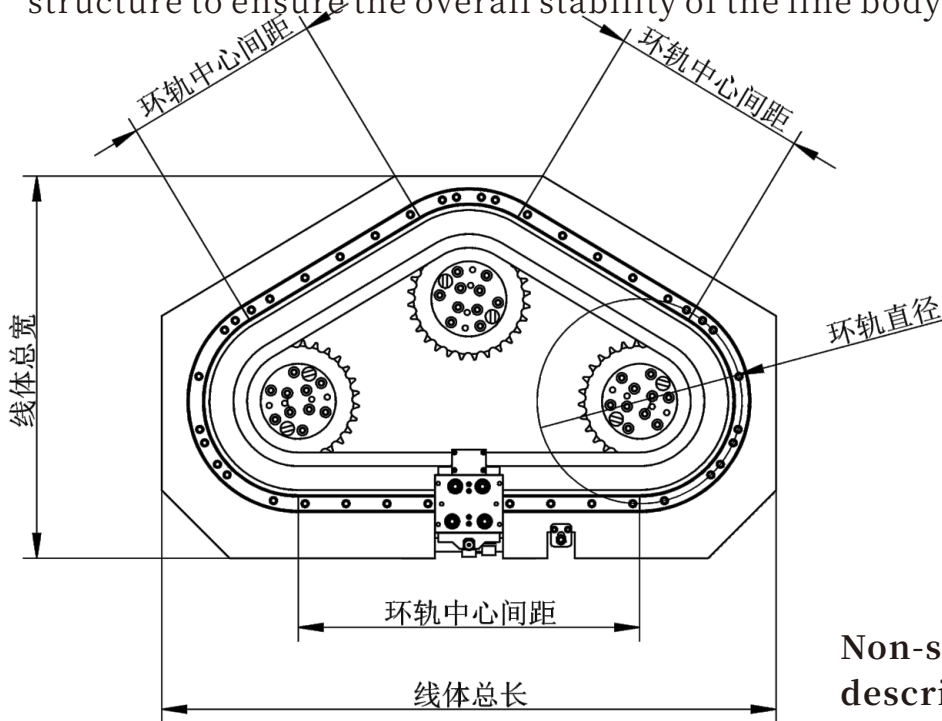
- * The center distance of the conventional adjacent stations is not less than 420mm, which is related to the length of the chain, and is generally an even number of chain links.
- * Commonly used Circular guideway diameter is 500-900mm, the parameter table of the circular guideway can refer to our 《GMP Series Products》.



LOP Special-shaped structure series

Triangle series-TR2

Unconventional special-shaped structure series, mainly triangle, trapezoid, round, etc., because of the particularity of the shape, generally use the bottom plate structure to ensure the overall stability of the line body.

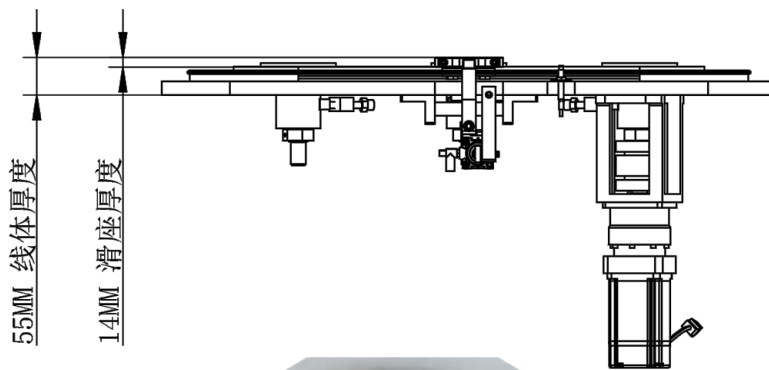


Structural Features

- Shape- Triangle
- Base structure
- Precision chain drive

Non-standard customization description

- * Commonly used Circular guideway diameter is 255-600mm, the parameter table of the Circular guideway can refer to our 《GMP Series Products》.
- * We provide 25mm, 44mm, 76mm these three specifications of guide rail for you to choose.
- * Speed is related to load size, circular guideway size and off-load condition.
- * The Angle of the turn and the shape of the line body can be customized according to the need to communicate.

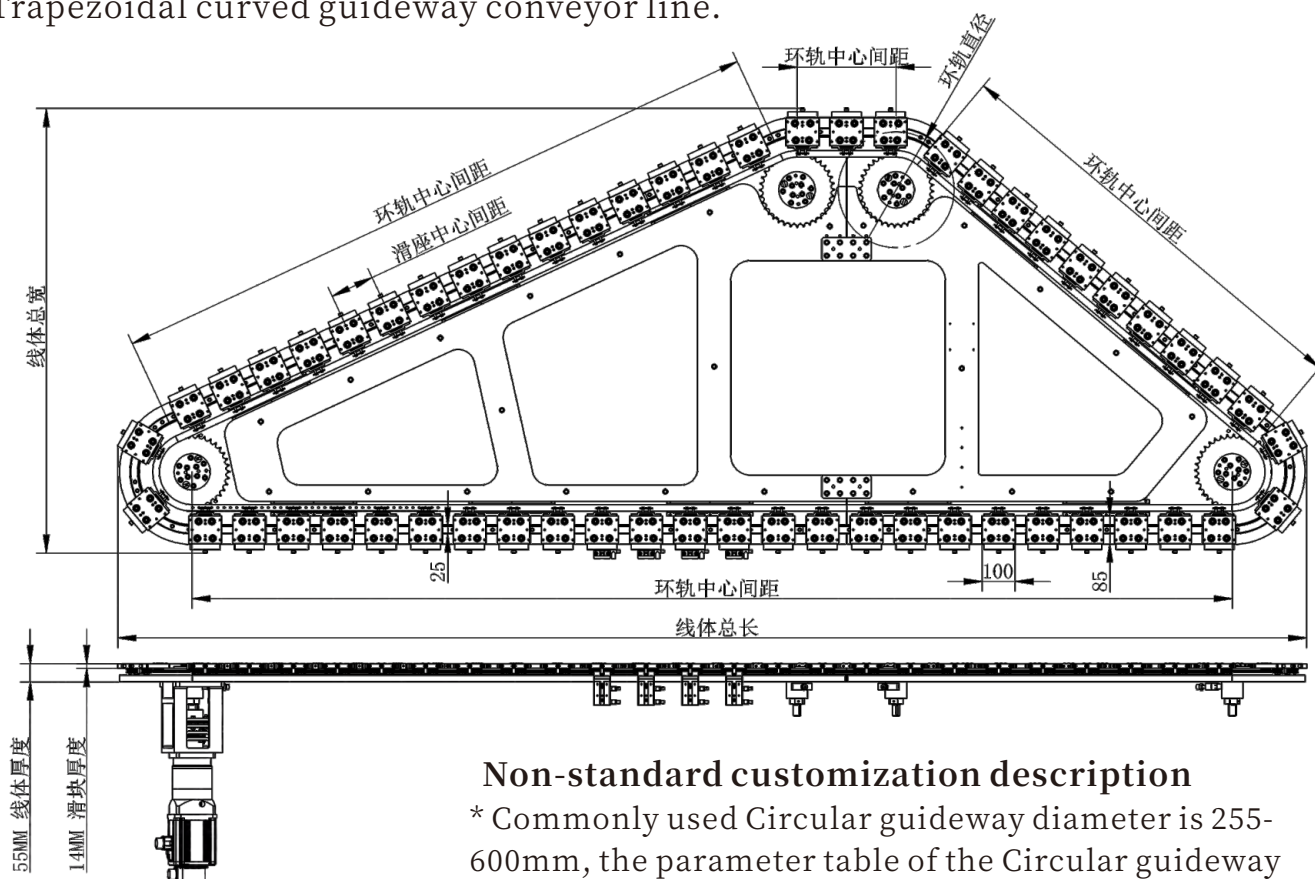


- * Optional ranges of repeated positioning accuracy are: ± 0.05 - ± 0.5 mm, Accuracy and track specifications are matched.

LOP Special-shaped structure series

Trapezoidal series-SP2

Trapezoidal curved guideway conveyor line.



Structural Features

- Shape- Trapezoidal
- Base structure
- Precision chain drive

Non-standard customization description

- * Commonly used Circular guideway diameter is 255-600mm, the parameter table of the Circular guideway can refer to our 《GMP Series Products》.
- * We provide 25mm, 44mm, 76mm these three specifications of guide rail for you to choose.
- * Speed is related to load size, circular guideway size and off-load condition.
- * The Angle of the turn and the shape of the line body can be customized according to the need to communicate.
- * Optional ranges of repeated positioning accuracy are: ± 0.05 - ± 0.5 mm



LOP Special-shaped structure series

Circular series-R02

Structural Features

- Shape- Circular
- Base structure
- Precision chain drive

Non-standard customization description

* Commonly used Circular guideway diameter is 255-600mm, the parameter table of the Circular guideway can refer to our 《GMP Series Products》.

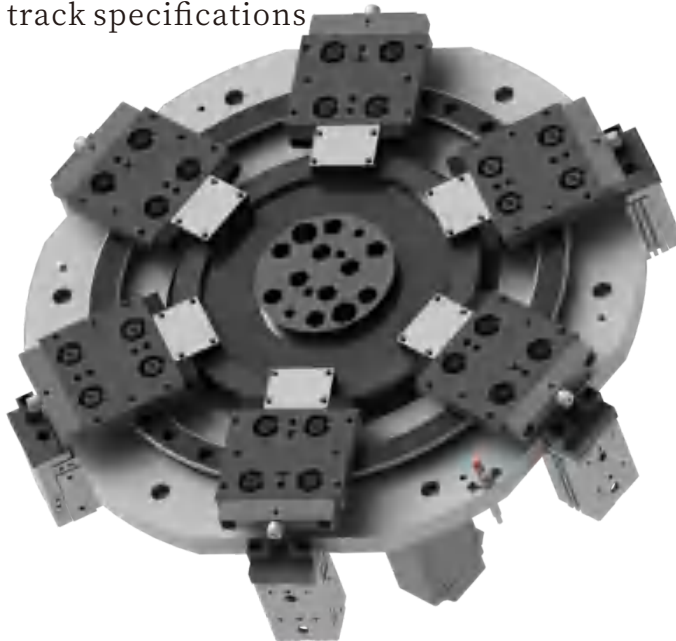
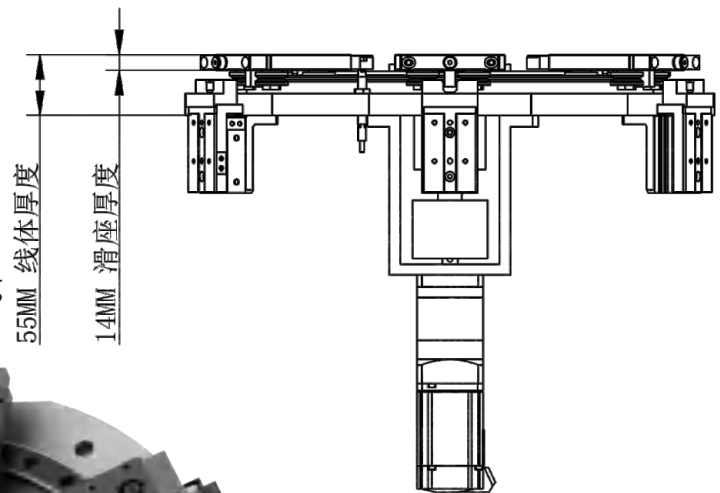
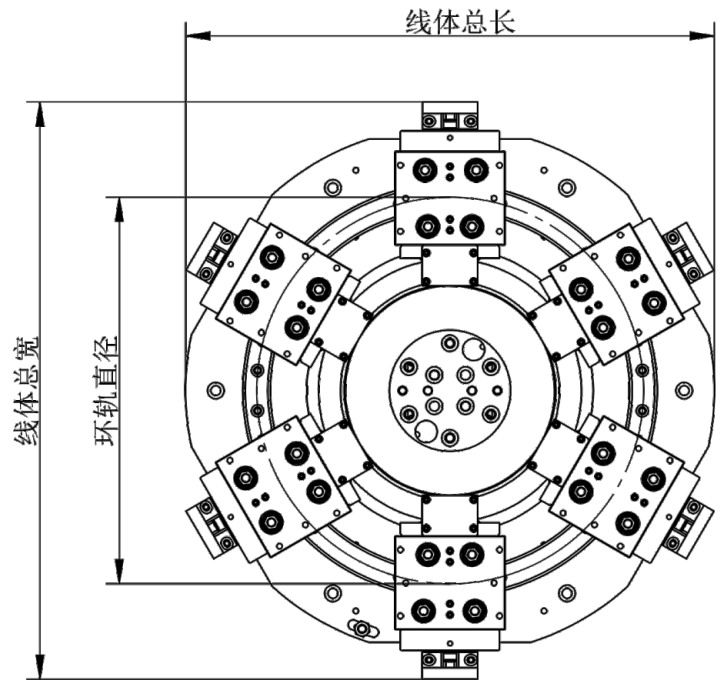
* We provide 25mm, 44mm, 76mm these three specifications of guide rail for you to choose.

* Speed is related to load size, circular guideway size and off-load condition.

* The Angle of the turn and the shape of the line body can be customized according to the need to communicate.

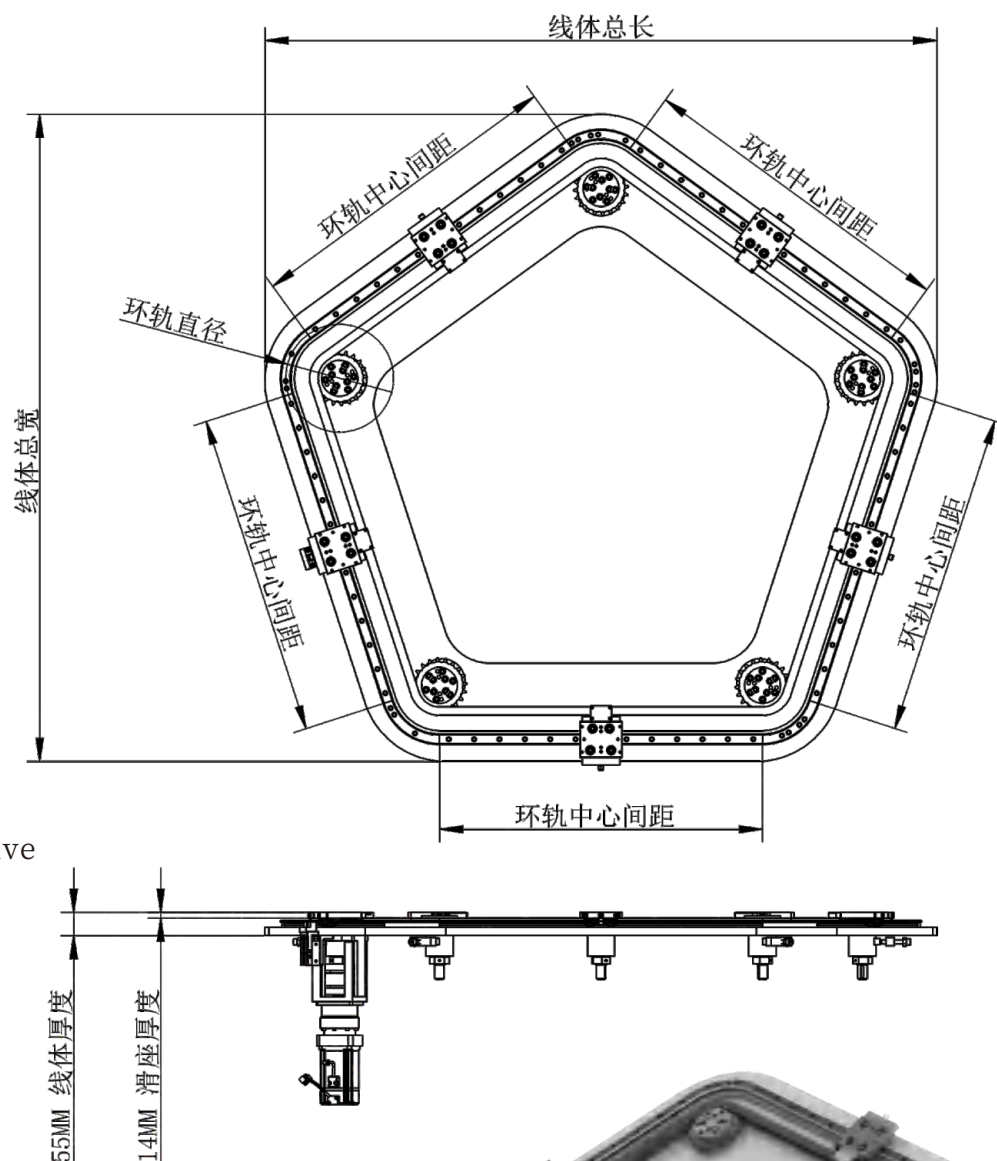
* Optional ranges of repeated positioning accuracy are: ± 0.05 - ± 0.5 m.

Accuracy and track specifications are matched.



LOP Special-shaped structure series

Polygon series-SP2



Structural Features

- Shape- Polygon
- Base structure
- Precision chain drive
- Multilateral and multi-angle

Non-standard customization description

* Commonly used Circular guideway diameter is 255-600mm, the parameter table of the circular guideway can refer to our 《GMP Series Products》.

* We provide 25mm, 44mm, 76mm these three specifications of guide rail for you to choose.

* Speed is related to load size, circular guideway size and off-load condition.

* The Angle of the turn and the shape of the line body can be customized according to the need to communicate.

* Optional ranges of repeated positioning accuracy are: ± 0.05 - ± 0.5 mm

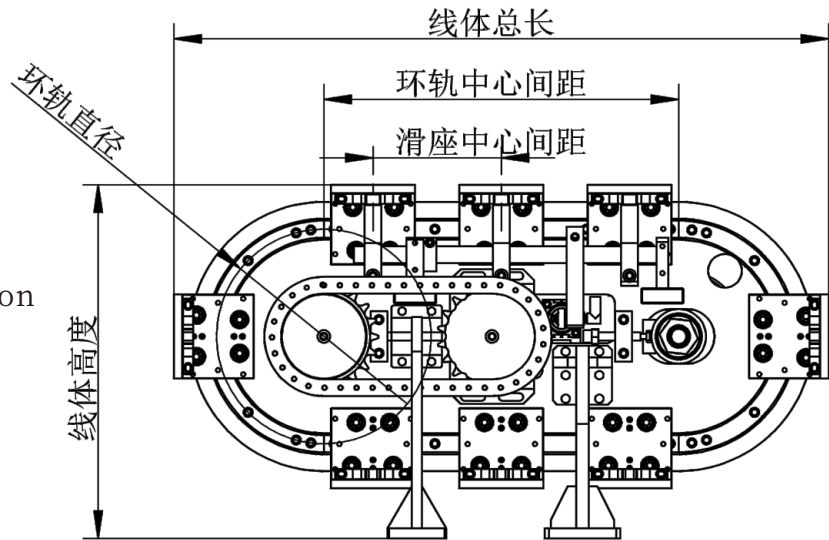


LOP Special custom loop body

Secondary transmission line-OV2

Structural Features

- Shape- Oval
- Base structure
- Precision chain drive
- Non-standard customization
- Design of secondary transmission (Other transmission modes can be discussed and customized)



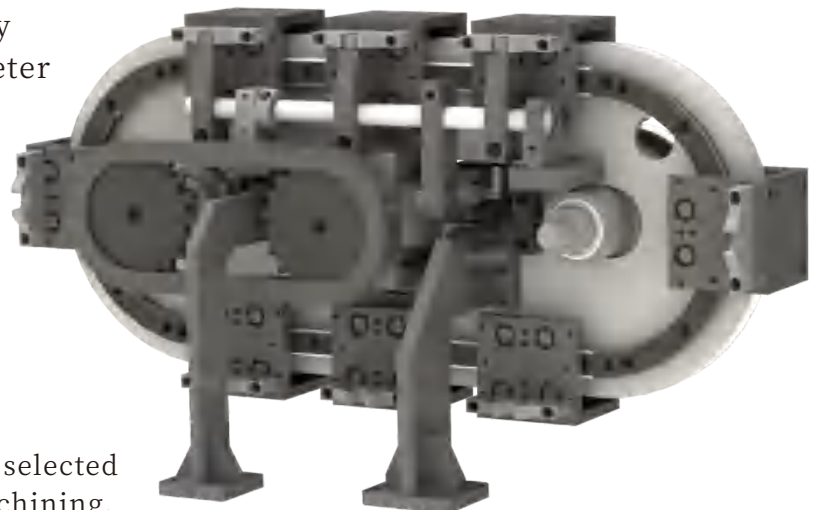
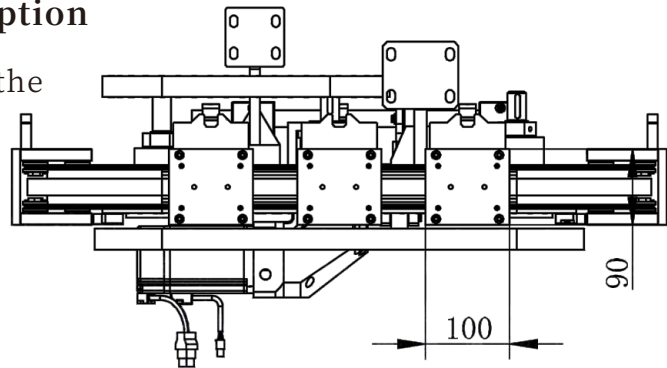
Non-standard customization description

* According to the application scenario, the specifications of the precision chain can be selected 8A/10A/12A and other specifications, and under normal circumstances, the selection of 12A specifications is more.

* The minimum diameter of the circular guideway is 200mm and the maximum diameter is 1560mm.

*Speed is related to load size, circular guideway size and off-load condition.

*Commonly used Circular guideway diameter is 255-600mm, the parameter table of the Circular guideway can refer to our 《GMP Series Products》.



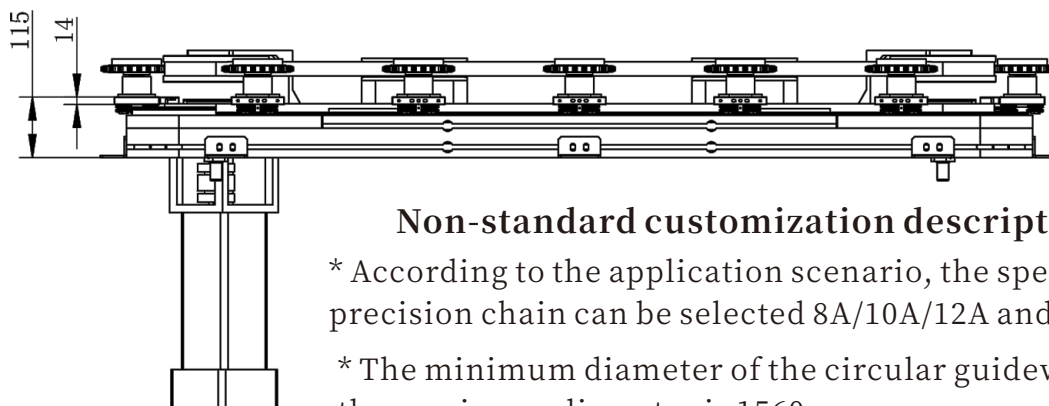
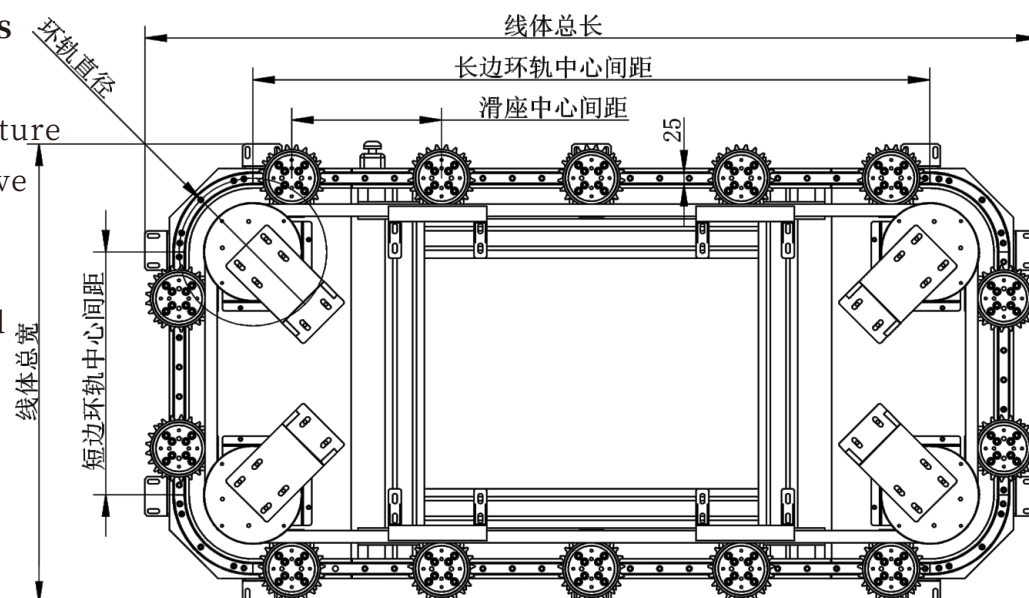
- The material of the slide seat can be selected from steel or aluminum, precision machining, strict quality control and exquisite installation process, which can make the accuracy of the slide seat in the three directions of X-Y-Z up to HP level, that is, $\leq \pm 0.05\text{mm}$.

LOP Special custom loop body

Stations can be rotated and rotated in a circular conveyor line-RE2

Structural Features

- Shape-Rectangular
- Profile frame structure
- Precision chain drive
- Non-standard customization
- Light load V-shaped guideway



Non-standard customization description

- * According to the application scenario, the specifications of the precision chain can be selected 8A/10A/12A and other specifications
- * The minimum diameter of the circular guideway is 200mm and the maximum diameter is 1560mm.
- *The parameter table of the Circular guideway can refer to our 《GMP Series Products》.

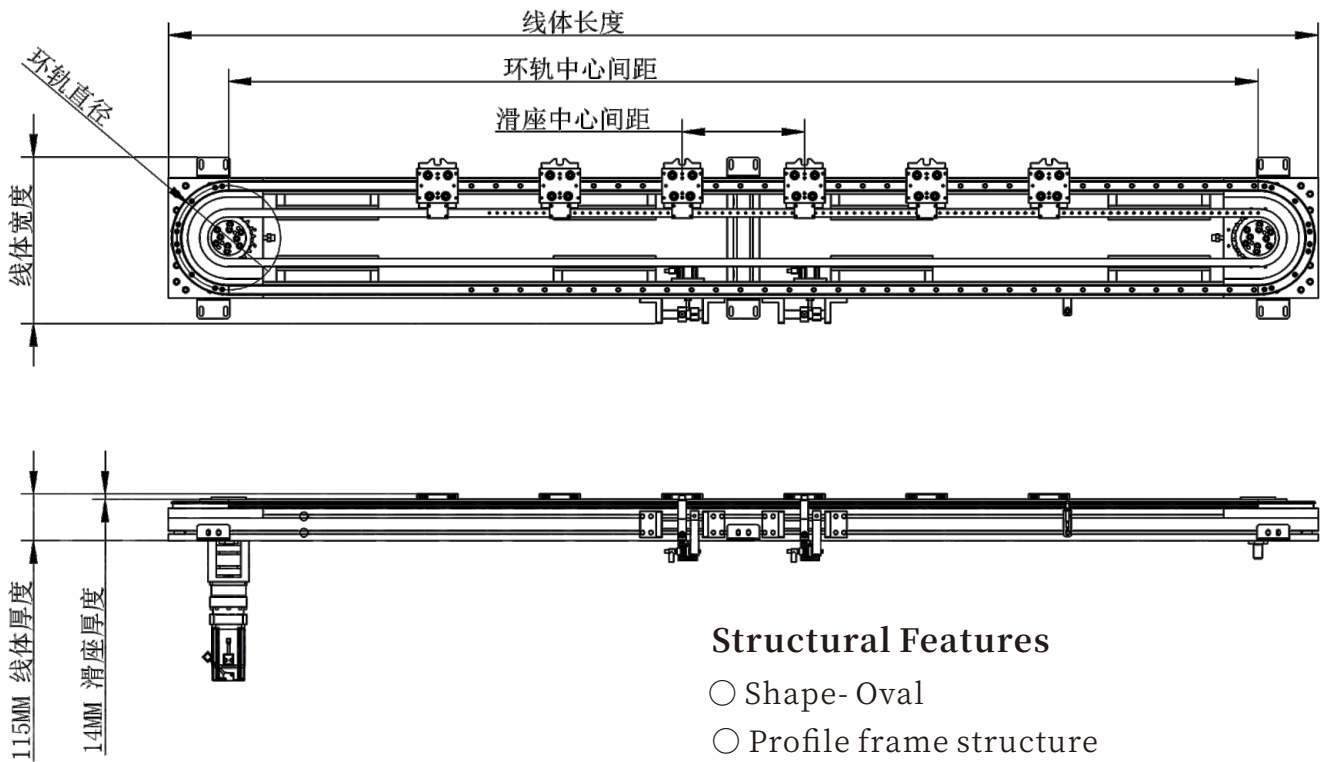
*Speed is related to load size, circular guideway size and off-load condition.



- The material of the slide seat can be selected from steel or aluminum, precision machining, strict quality control and exquisite installation process, which can make the accuracy of the slide seat in the three directions of X-Y-Z up to HP level, that is, $\leq \pm 0.05\text{mm}$.

LOP Special custom loop body

Circular guideway conveyor line with unequal spacing-OV2



Structural Features

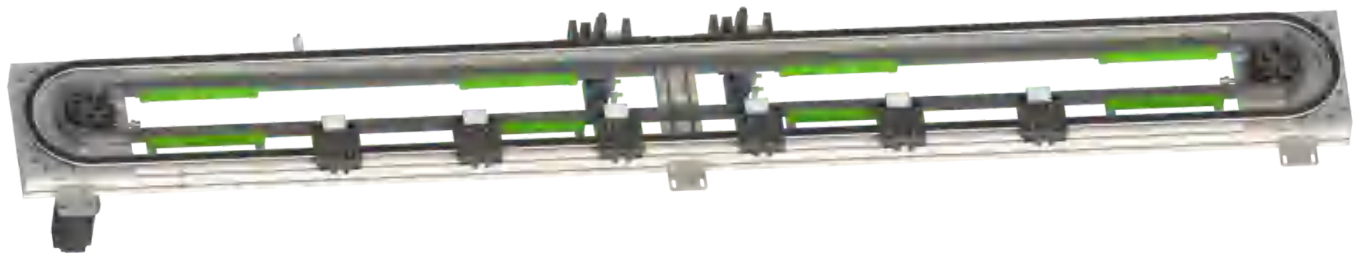
- Shape- Oval
- Profile frame structure
- Precision chain drive
- Work in groups at multiple stations
- Light load V-shaped guideway

Non-standard customization description

* The center distance of the conventional adjacent stations is not less than 110mm, the specifications of the precision chain can be selected 8A/10A/12A and other specifications, and under normal circumstances, the selection of 12A specifications is more.

* The minimum diameter of the circular guideway is 200mm and the maximum diameter is 1560mm.

*Speed is related to load size, circular guideway size and off-load condition.

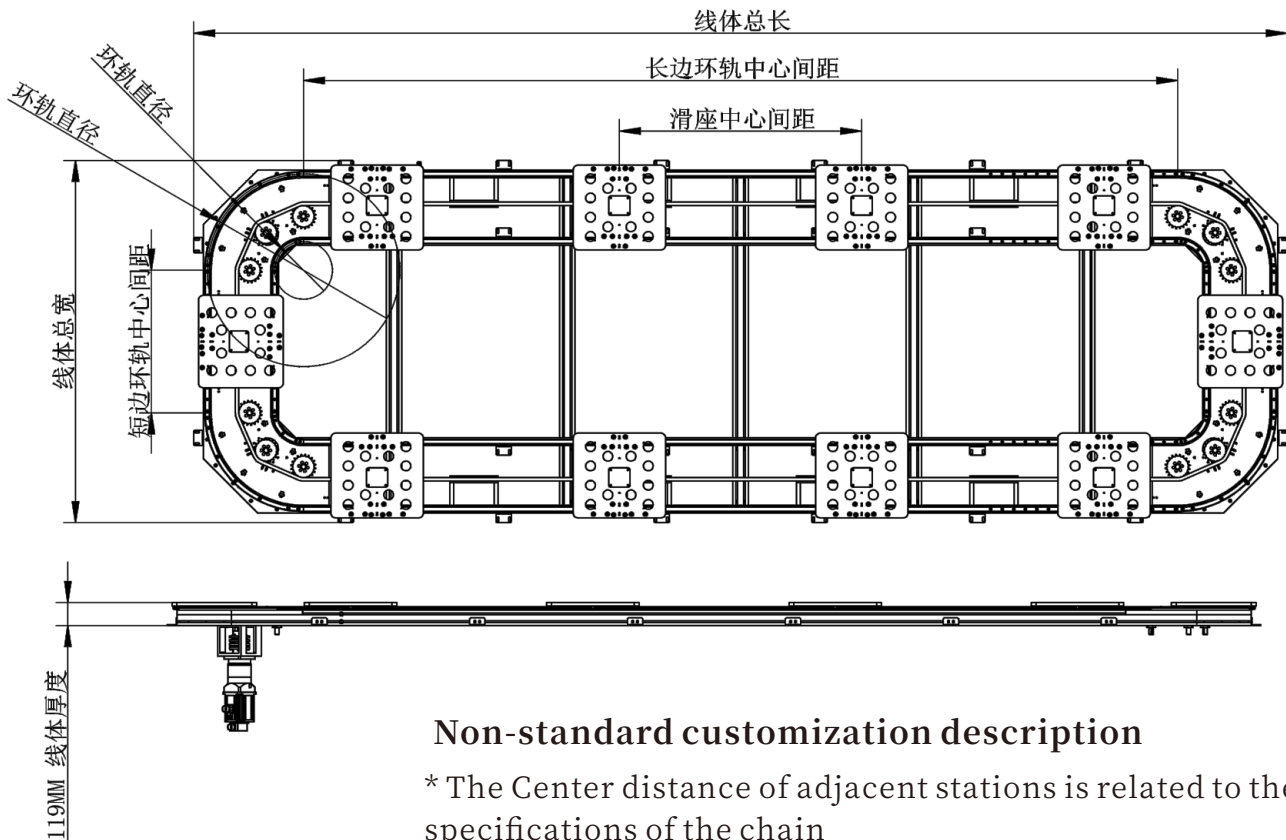


○ The material of the slide seat can be selected from steel or aluminum, precision machining, strict quality control and exquisite installation process, which can make the accuracy of the slide seat in the three directions of X-Y-Z up to HP level, that is, $\leq \pm 0.05\text{mm}$.

* Commonly used Circular guideway diameter is 255-600mm, the parameter table of the circular guideway can refer to our 《GMP Series Products》.

LOP Special custom loop body

Inner and outer double track circular guideway conveyor line-RE2

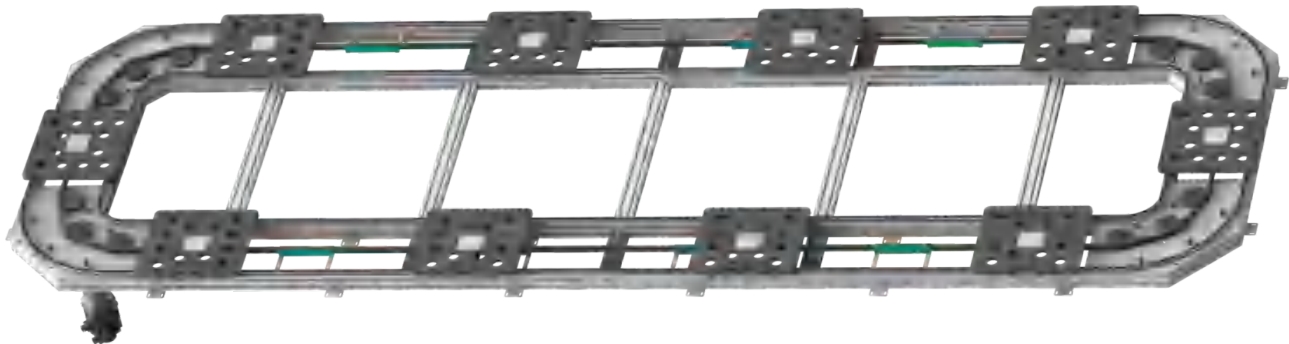


Non-standard customization description

- * The Center distance of adjacent stations is related to the specifications of the chain
- * According to the application scenario, the specifications of the precision chain can be selected 12A/16A and other specifications.
- * The minimum diameter of the circular guideway is 200mm and the maximum diameter is 1560mm.
- * Speed is related to load size, circular guideway size and off-load condition.

Structural Features

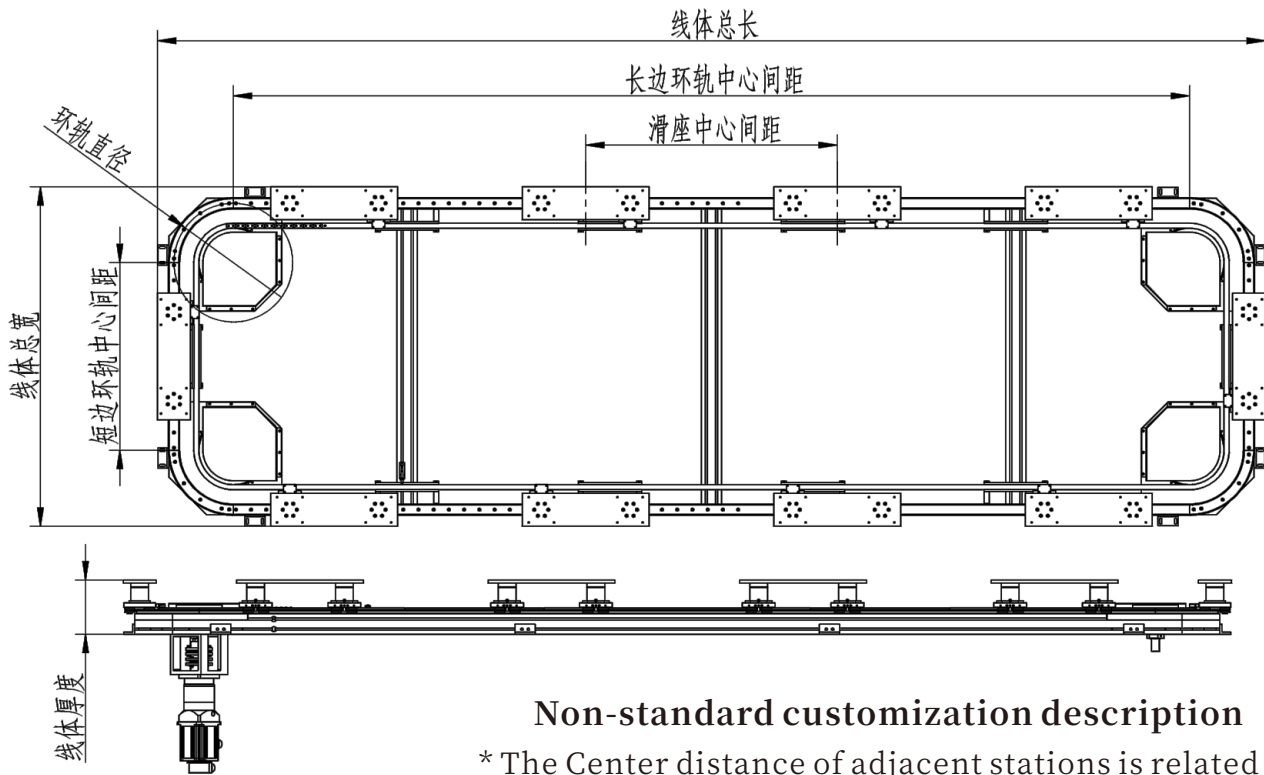
- Shape-Rectangular
- Profile frame structure
- Precision chain drive
- Inner and outer double track circular guideway
- V-shaped guideway



- The material of the slide seat can be selected from steel or aluminum, precision machining, strict quality control and exquisite installation process, which can make the accuracy of the slide seat in the three directions of X-Y-Z up to HP level, that is, $\leq \pm 0.10\text{mm}$.

LOP Special custom loop body

Double slide seat support circular guideway conveyor-RE2

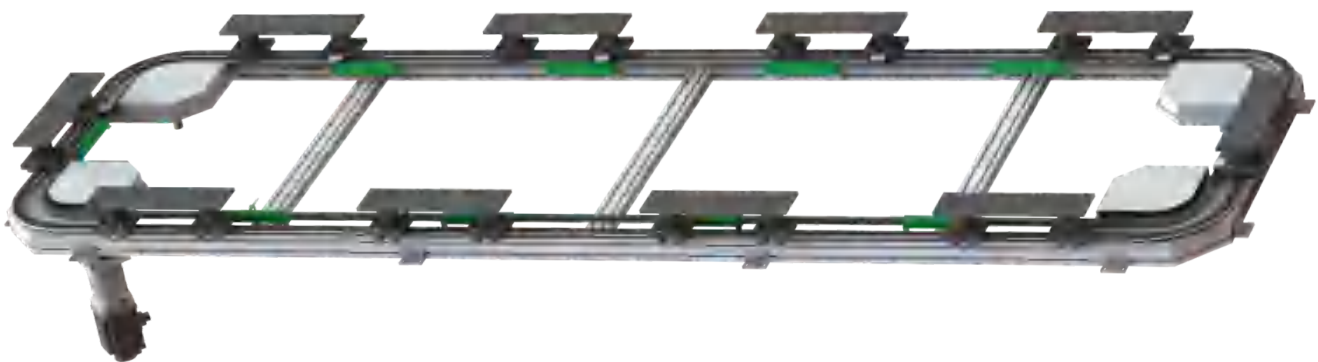


Structural Features

- Shape-Rectangular
- Profile frame structure
- Precision chain drive
- Double slide support design
- V-shaped guideway

Non-standard customization description

- * The Center distance of adjacent stations is related to the specifications of the chain
- * According to the application scenario, the specifications of the precision chain can be selected 12A/16A and other specifications.
- * The minimum diameter of the circular guideway is 200mm and the maximum diameter is 1560mm.
- * Speed is related to load size, circular guideway size and off-load condition.



- The material of the slide seat can be selected from steel or aluminum, precision machining, strict quality control and exquisite installation process, which can make the accuracy of the slide seat in the three directions of X-Y-Z up to HP level, that is, $\leq \pm 0.10\text{mm}$.

* Commonly used Circular guideway diameter is 255-600mm, the parameter table of the circular guideway can refer to our 《GMP Series Products》

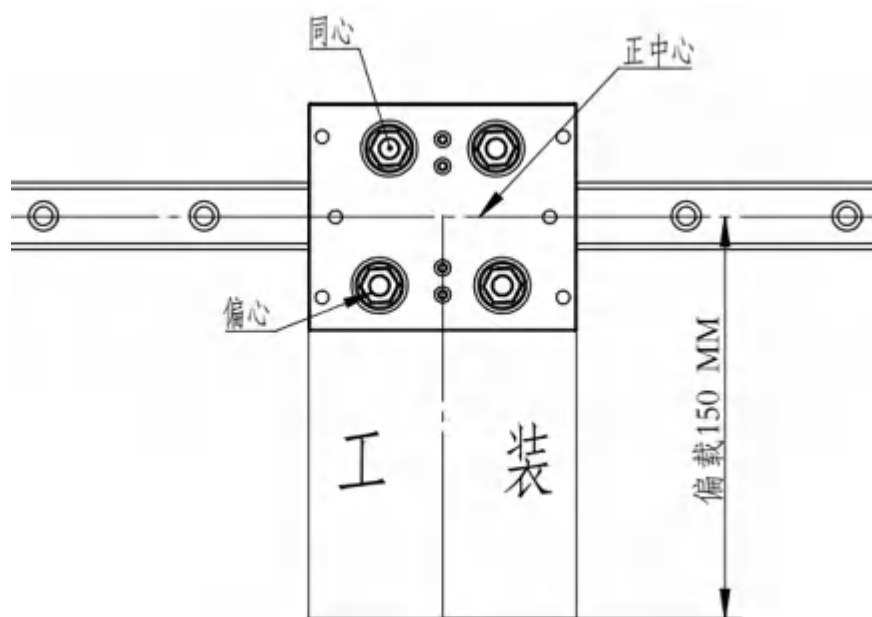
LOP Application parameters of V-guideway load and off-load

Design and application parameters of V-shaped guideway of different specifications

The parameters of the guideway are divided into design parameters and theoretical parameters, of which the theoretical parameters are much higher than the parameters of the design application, the design application parameters to meet the actual needs of most customers, can stably use the largest average value, is also our professional recommendation value.

Different specifications of V-guideway load and off-load application parameters				
Model	Designed for a single load (kg)	Designed for a single off-load (kg)	Recommended speed of application (mm/s)	Notes
25 Series	15	5	300	Speed is related to load size, circular guideway size and off-load condition.
44 Series	30	10		
76 Series	50	10		

* The table shows the design and application parameters corresponding to different models of guide rails. Different application scenarios will be different. Welcome to call or email for consultation.



* Off-load 150mm is the distance between the center point of the off-load force and the center point of the slide seat.

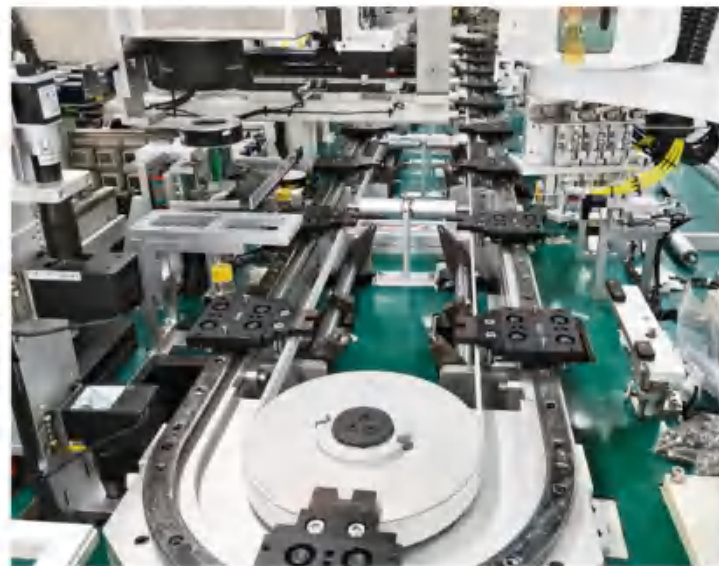
LOP Precision loop line application case

Application scenarios



LOP Precision loop line application case

Application scenarios



1 新能源电池组装线

2 吊装五金喷涂自动化流水线



3 汽车零件自动化生产线
4 医疗用品生产流水线

5 口罩机自动化生产线



6 电子产品自动化组装线
7 灯具自动化生产线

8 激光焊接生产流水线
9 机加自动化流水线





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