苏州威赛普精密机械有限公司

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First floor, Building C, No. 300 Kangyang Road, Huangdai Town, Xiangcheng District, Suzhou City

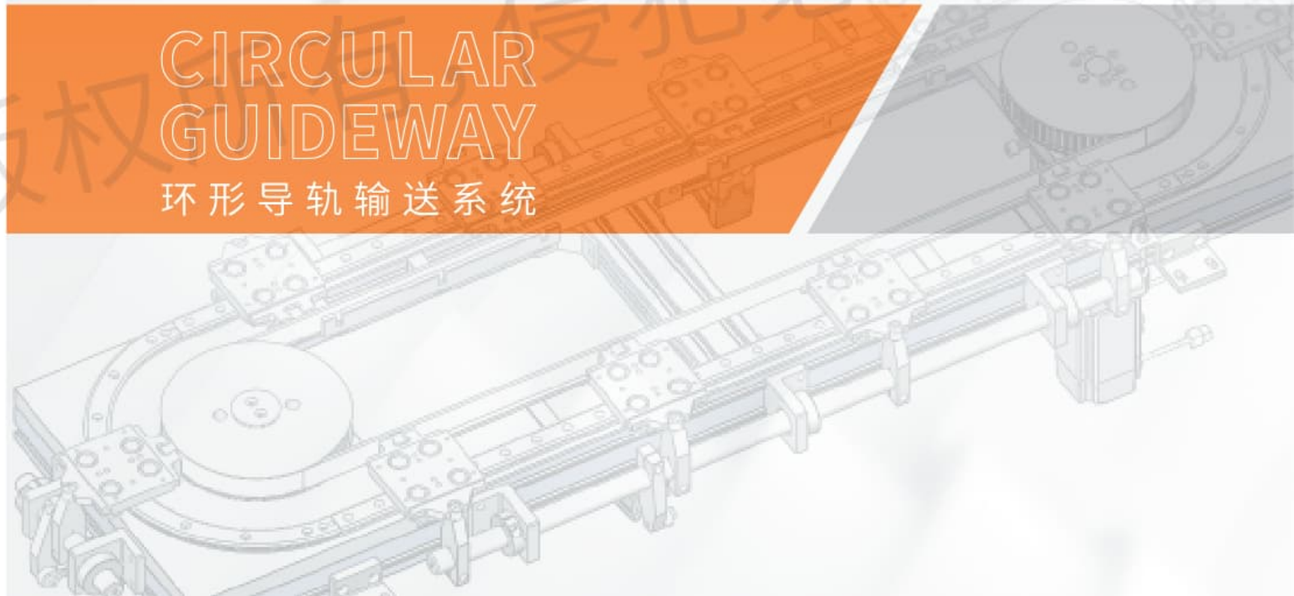
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威赛普精密机械

CIRCULAR GUIDEWAY

环形导轨输送系统



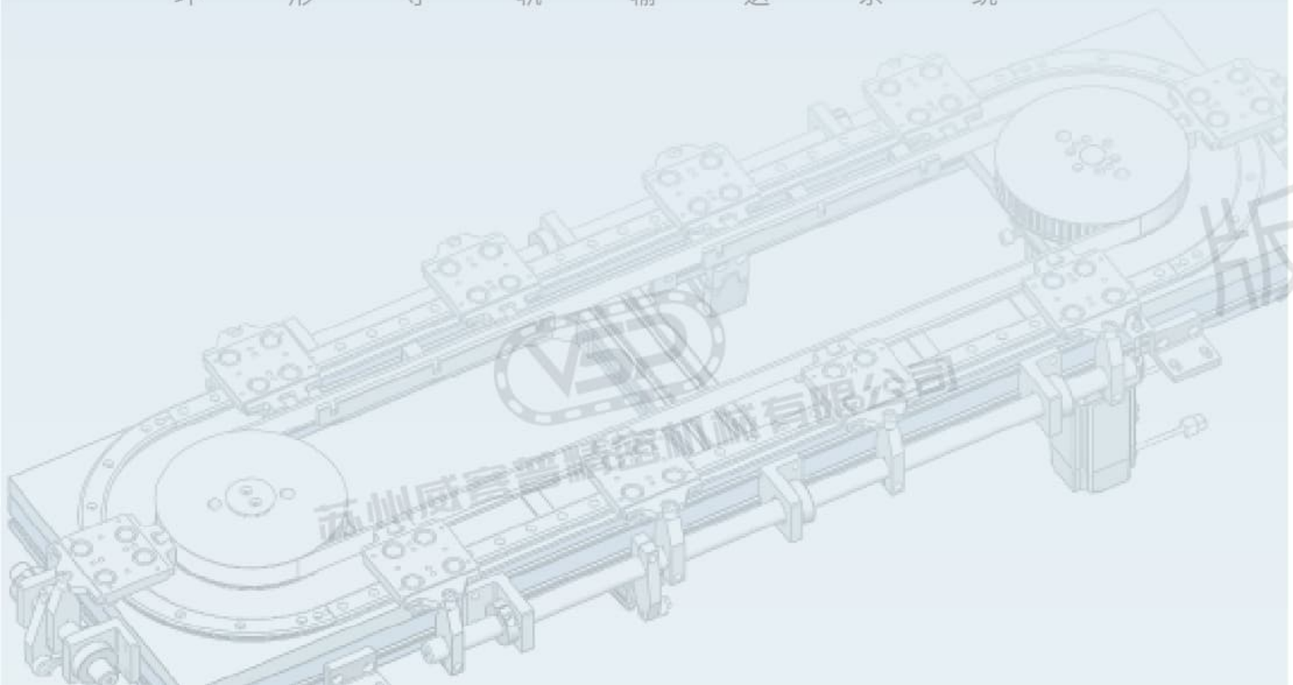
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苏州威赛普精密机械有限公司

苏州威赛普精密机械有限公司

Circular Guideway

环 形 导 轨 输 送 系 统



一直以来，苏州威赛普精密机械有限公司致力于解决客户的循环运动问题，积累了不可或缺的应用知识并构建了杰出的技术解决方案。这些知识与广泛的研发相结合，催生了全面的精密环形滑道和轨道系统系列，几乎可以适应所有需求。

Suzhou WSP Precision Machinery Co., Ltd. (WSP) has been dedicated to addressing customers' motion-related challenges and has accumulated invaluable application knowledge while developing outstanding technical solutions. The combination of knowledge with extensive research and development has led to a comprehensive range of circular slide and track systems that can cater to almost any requirement.

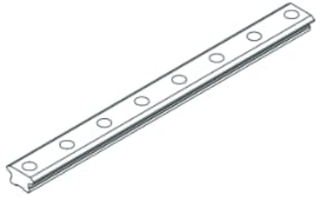
公司专注于轨道运动系统的研发及制造，拥有多个系列产品，直线导轨与滑座、圆弧导轨、整机和整机的主要零部件等。产品设计系列化、标准化，为用户提供了更多选择，更便捷的安装维护，更好的互换性。

WSP focuses on the research, development, and manufacturing of track motion systems, offering a wide range of products including linear guideways, slides, circular guideways, complete systems, as well as the main components.
The product designs are standardized and serialized, providing users with more options, easier installation and maintenance, and improved interchangeability.

公司拥有专业的生产设备、多年的技术积累以及精干的专业团队，在重视技术研发的同时，坚持与新兴行业并肩前行，为企业转型升级贡献力量；在优化人才培养的同时，期待与同行在前进的道路上携手成长，共创未来。

With professional manufacturing equipment, years of technical expertise, and a competent team, WSP not only values technological innovation but also collaborates with emerging industries, contributing to enterprise transformation and upgrading. While optimizing talent development, WSP looks forward to growing together with peers in the industry and to creating a prosperous future.

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- 有V型、T型等多种型号可供选择

Various models, such as V-type and T-type, are available for selection.

- 通过拼接可延长至任意长度

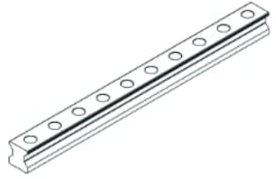
They can be extended to any length through splicing.

01

直线导轨
Linear guideway

- 轨道采用优质轴承钢制成
- 轨道边缘区域进行了硬化以提升耐磨性
- 经过研磨处理保证高精度和一致性

The guideway is made of high-quality bearing steel and the edges are hardened to enhance wear resistance. It undergoes grinding to ensure high precision and consistency.

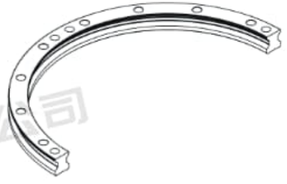


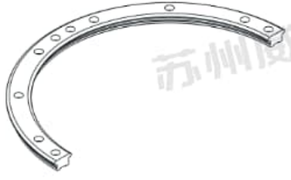
- 轨道采用优质轴承钢制成
- 轨道边缘区域进行了硬化以提升耐磨性
- 经过研磨处理保证高精度和一致性

The guideway is made of high-quality bearing steel steel and the edges are hardened to enhance wear resistance. They undergo grinding to ensure high precision and consistency.

02

圆弧导轨
Circular guideway





- 有V型、T型等多种型号可供选择。

Various models, such as V-type and T-type, are available for selection.

- 通过截取不同弧度可拼接成多种回路

Different radii can be cut and joined to create various circuit

- 有多种标准圆弧大小尺寸可选
- 可按要求非标定制

There are multiple standard sizes of circular arcs to choose from, and customized sizes can be made according to requirements.

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- 滚轮采用优质轴承钢制成
- 滚轮进行了硬化以提升耐磨性

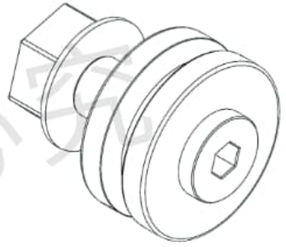
The rollers are made of high-quality bearing steel and hardened to enhance wear resistance.

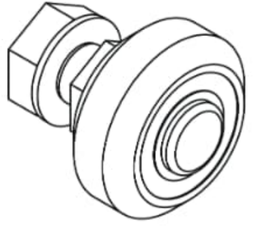
- 有多种型号可供选择，以适应不同导轨

There are various models available to accommodate different guideways.

01

V型滚轮
V-Type Rollers

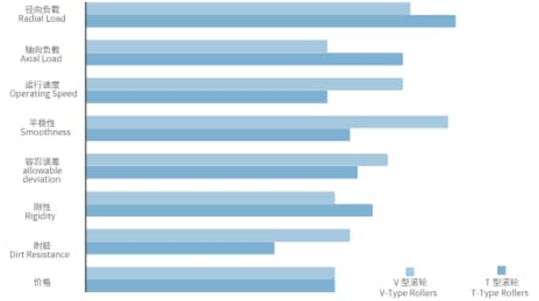




02

T型滚轮
T-Type Rollers

滚轮性能对比
Comparison of Roller Performance

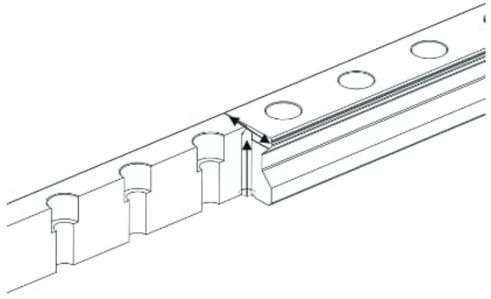


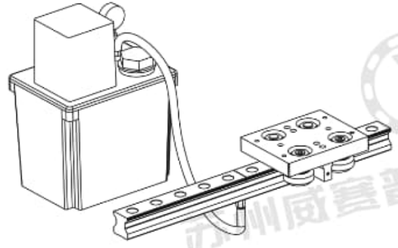
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自动注油系统
Automatic Oil Injection System

通过浸有润滑油的弹性毛毡擦刮导轨工作面避免过度摩擦，延长使用寿命可连接油桶自动注油

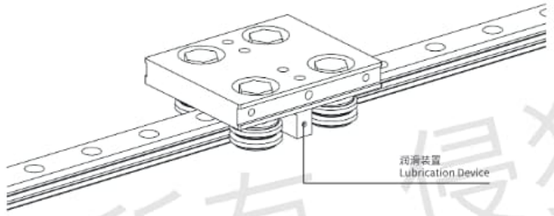
By using an elastic felt soaked in lubricating oil to scrape the working surface of the guideway, excessive friction is avoided, thereby extending its lifespan. It can be connected to an oil barrel





润滑性能对比
Comparison of Lubrication Performance

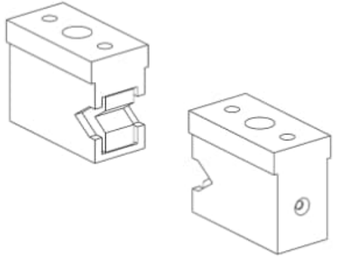




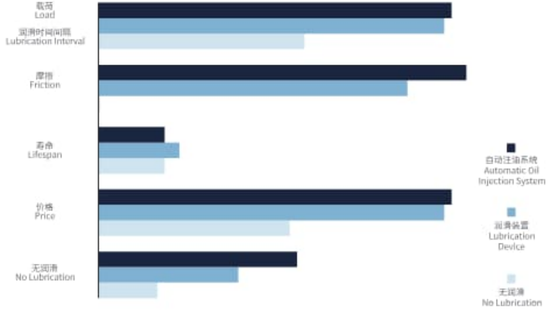
润滑装置
Lubrication Device

通过浸有润滑油的弹性毛毡擦刮导轨工作面避免过度摩擦，延长使用寿命

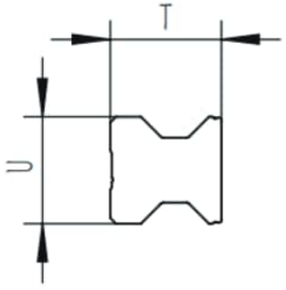
By using an elastic felt soaked in lubricating oil to scrape the working surface of the guideway, excessive friction is avoided, thereby extending its lifespan.



润滑性能对比
Comparison of Lubrication Performance



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Example of T-Type Guideway Model　T 型 导轨型号示例

LGT – 23 – □

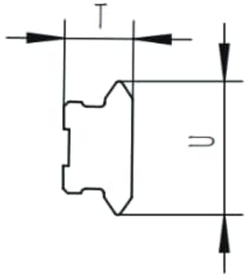
- 导轨长度 Guideway Length ≤ 1980mm
- 导轨宽度 Guideway Width 23mm
- 导轨型号 :T 型 Guideway Model: T-Type

型号 Model	T(mm)	U(mm)	角度 (°) Angle
LGT23	24	23	90
LGT28	28	28	60
LGV25	12.5	25	70
LGV30	15	30	68
LGV44	15.5	44	68
LGV50	18	50	68

注：L=(n-1)xS+R1+R2

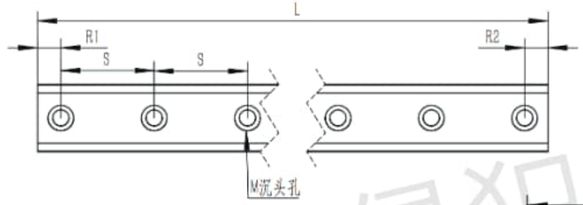
- 导轨总长 Total Length of Guideway
- 螺栓孔数 Number of Bolt Holes
- 螺栓孔间距 Bolt Hole Spacing
- 螺栓孔至端面距离 (最好不要大于 1/2S，防止尺寸过大导致滑轨装配后端部的不稳定，而降低导轨精度) Distance from Bolt Holes to End Face (It is preferable not to exceed 1/2S to prevent instability and reduced guideway precision caused by oversized dimensions at the rear after assembly.)

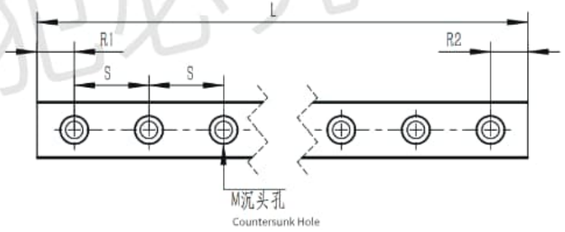
V 型 导轨型号示例　Example of V-Type Guideway Model



LGV – 25 – □

- 导轨长度 Guideway Length • ≤ 1980mm
- 导轨宽度 Guideway Width • 25mm • 30mm • 44mm • 50mm
- 导轨型号 :V 型 Guideway Model: V-Type





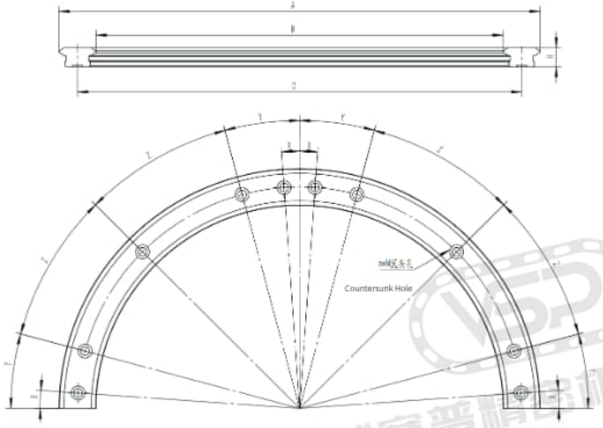
型号 Model	Lmax (mm)	S (mm)	R1 (mm)	R2 (mm)	M 沉头孔 Countersunk Hole
LGT23	1980	30	15	15	M6 沉头孔
LGT28	1980	80	30	30	M8 沉头孔
LGV25	1980	60	30	30	M5 沉头孔
LGV30	1980	40	20	20	M6 沉头孔
LGV44	1980	60	30	30	M6 沉头孔
LGV50	1980	60	30	30	M8 沉头孔

注：L=(n-1)xS+R1+R2

- 导轨总长 Total Length of Guideway
- 螺栓孔数 Number of Bolt Holes
- 螺栓孔间距 Spacing Between Bolt Holes
- 螺栓孔至端面距离 (最好不要大于 1/2S，防止尺寸过大导致滑轨装配后端部的不稳定，而降低导轨精度) Distance from Bolt Holes to End Face (It is preferable not to exceed 1/2S to prevent instability and reduced guideway precision caused by oversized dimensions at the rear after assembly.)

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V型圆弧导轨 V-type Circular Guideway
孔位尺寸

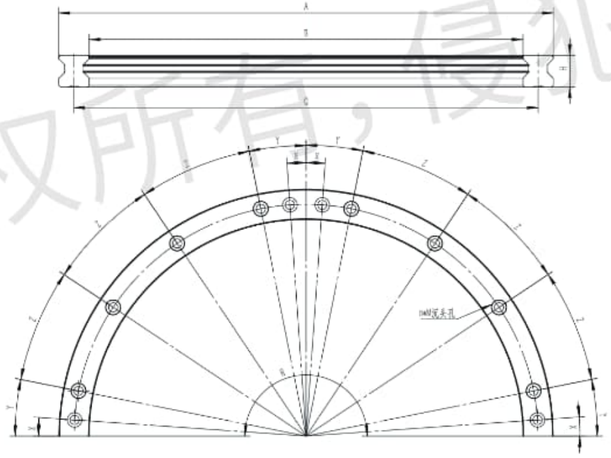


型号 Model	X(°)	Y(°)	Z(°)	M	n
LSV25-200	7	15	30	M5	10
LSV25-255	7	15	30	M5	10
LSV25-300	7	15	30	M5	10
LSV25-351	6	15	30	M5	10
LSV25-400	6	15	30	M5	10
LSV30-255	4	15	30	M6	10
LSV30-351	4	15	30	M6	10
LSV30-468	3	11.25	22.5	M6	10
LSV30-612	3	11.25	22.5	M6	10
LSV44-468	4	11.25	22.5	M6	10
LSV44-612	4	11.25	22.5	M6	10
LSV50-468	4	11.25	22.5	M8	10
LSV50-612	4	11.25	22.5	M8	10

注：90°/180°导轨是由 360°导轨切削而成，存在切削公差，通常为 -0.2mm

Note: 90°/180° guideways are cut from 360° guideways, resulting in cutting tolerances, typically around -0.2mm.

T型圆弧导轨 T-type Circular Guideway
孔位尺寸



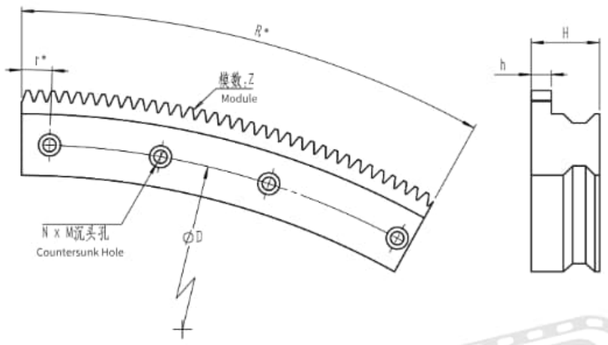
型号 Model	X(°)	Y(°)	Z(°)	M	n
LST23-200	•	11.25	22.5	M6	8
LST23-255	4	11.25	22.5	M6	12
LST23-300	4	11.25	22.5	M6	12
LST23-351	4	11.25	22.5	M6	12
LST23-400	4	11.25	22.5	M6	12
LST23-468	4	11.25	22.5	M6	12
LST23-500	3	11.25	22.5	M6	12
LST23-600	3	11.25	22.5	M6	12
LST28-255	•	11.25	22.5	M8	8
LST28-351	4	11.25	22.5	M8	12
LST28-468	4	11.25	22.5	M8	12
LST28-600	3	11.25	22.5	M8	12

注：90°/180°导轨是由 360°导轨切削而成，存在切削公差，通常为 -0.2mm

Note: 90 °/180 ° guideways are cut from 360 ° guideways, resulting in cutting tolerances, typically around -0.2mm.

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带齿导轨 型号示例 Example of Toothed Guideway Model



LST – 23 – □ – □

- 圆弧角度 Arc Angle
- 圆弧直径 Arc Diameter
  - 351mm
  - 400mm
  - 468mm
  - 500mm
  - 600mm
- 导轨宽度 Guideway Width
  - 23mm
- 带齿圆弧导轨：外圆齿 Toothed Circular Guideway: External Ring Teeth

注：更多尺寸可非标订制

Note: More sizes can be customized according to non-standard requirements.

型号 Model	D(mm)	R(°)	r(°)	H(mm)	h(mm)	Z
LSOC-23-351-R180	351	0~360	⩾ 4°	44	20	3
LSOC-23-400-R180	400					
LSOC-23-468-R180	468					
LSOC-23-500-R180	500					
LSOC-23-600-R180	600					

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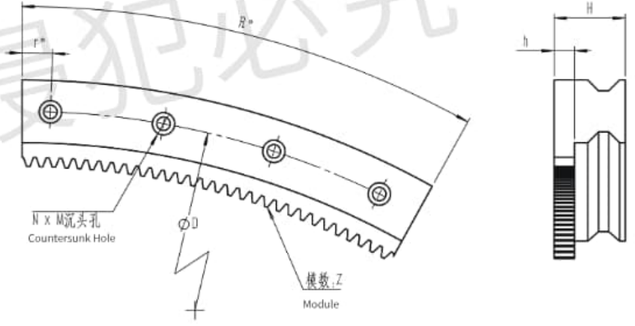
带齿导轨 型号示例 Example of Toothed Guideway Model

LST – 23 – □ – □

- 圆弧角度 Arc Angle
- 圆弧直径 Arc Diameter
  - 351mm
  - 400mm
  - 468mm
  - 500mm
  - 600mm
- 导轨宽度 Guideway Width
  - 23mm
- 带齿圆弧导轨：内圆齿 Toothed Circular Guideway: Internal Ring Teeth

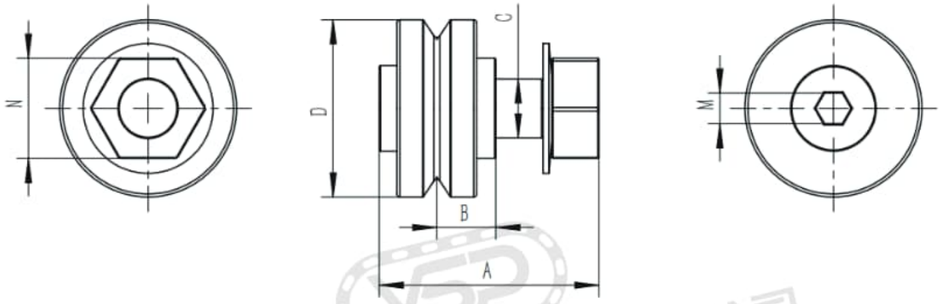
注：更多尺寸可非标订制

Note: More sizes can be customized according to non-standard requirements.



型号 Model	D(mm)	R(°)	r(°)	H(mm)	h(mm)	Z
LSIC-23-351	351	0~360	⩾ 4°	44	20	3
LSIC-23-400	400					
LSIC-23-468	468					
LSIC-23-500	500					
LSIC-23-600	600					

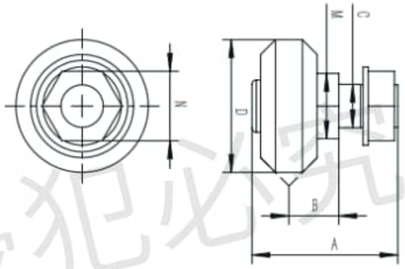
滚轮尺寸 Size of rollers



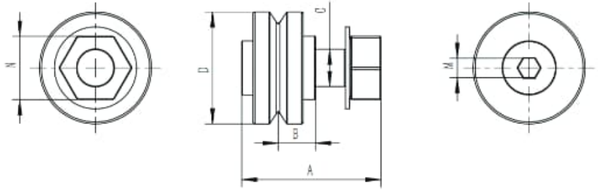
型号 Model	A(mm)	B(mm)	C(mm)	D(mm)	M(mm)	N(mm)	偏心量 (mm) Eccentricity
V25R(C)	32.2	10	8	25	13	13	2
V34R(C)	38.35	12.65	10	34	15	17	
V54R(C)	53	19	14	54	27	22	

VSP 广州威宝普精密机械有限公司

滚轮尺寸 Size of rollers



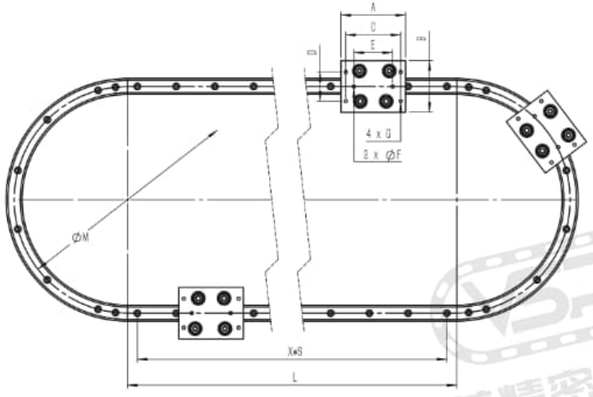
型号 Model	A(mm)	B(mm)	C(mm)	D(mm)	M(mm)	N(mm)	偏心量 (mm) Eccentricity
T23R(C)	33.55	11.45	10	30.5	15	16	2



型号 Model	A(mm)	B(mm)	C(mm)	D(mm)	M(mm)	N(mm)
V30R(C)	36.5	10	10	30	5	16
V35R(C)	37.5	11	12	35	6	16
V45R(C)	37.6	11	12	45	6	16

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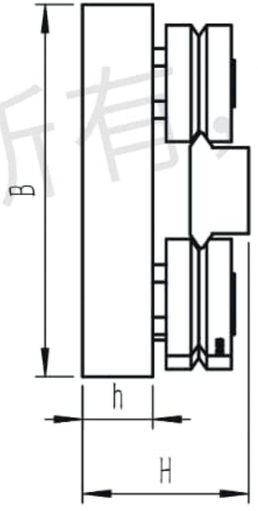
V型轨道组 V-type guideway components
组合尺寸



型号 Model	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
V25-200-R180	100	80	85	45	60	5(0~0.02)
V25-255-R180	100	80	85	45		
V25-300-R180	100	80	85	45		
V25-351-R180	100	80	85	45		
V25-400-R180	100	80	85	45		
V30-255-R180	100	110	85	45		
V30-351-R180	100	110	85	45		
V30-468-R180	100	110	85	45		
V30-612-R180	100	110	85	45		
V44-468-R180	100	130	85	45		
V44-612-R180	100	130	85	45		
V50-468-R180	120	150	85	45		
V50-612-R180	120	150	85	45		

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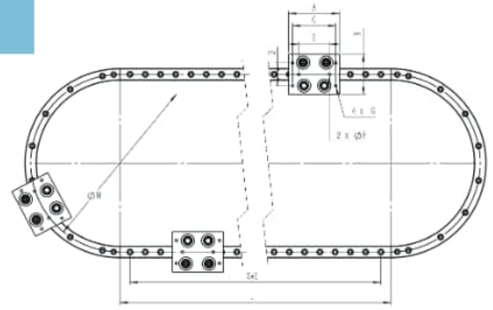
V型轨道组 V-type guideway components
组合尺寸



型号 Model	G	h(mm)	H(mm)	M(mm)	S(mm)
V25-200-R180	M5	15	35.5	200	60
V25-255-R180	M5	15	35.5	255	60
V25-300-R180	M5	15	35.5	300	60
V25-351-R180	M5	15	35.5	351	60
V25-400-R180	M5	15	35.5	400	60
V30-255-R180	M5	18	40	255	40
V30-351-R180	M5	18	40	351	40
V30-468-R180	M5	18	40	468	40
V30-612-R180	M5	18	40	612	40
V44-468-R180	M5	17	40	468	60
V44-612-R180	M5	17	40	612	60
V50-468-R180	M6	20	45	468	90
V50-612-R180	M6	20	45	612	90

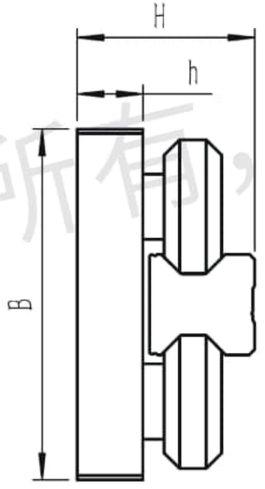
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T型轨道组 组合尺寸 T-type guideway components



型号 Model	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
T23-200-R180	100	80	85	45	60	5(0~0.02)
T23-255-R180	100	80	85	45	60	
T23-300-R180	100	80	85	45	60	
T23-351-R180	100	80	85	45	60	
T23-400-R180	100	80	85	45	60	
T23-468-R180	100	80	85	45	60	
T23-500-R180	100	80	85	45	60	
T23-600-R180	100	80	85	45	60	
T28-255-R180	100	80	85	45	60	
T28-351-R180	100	80	85	45	60	
T28-468-R180	100	80	85	45	60	
T28-600-R180	100	80	85	45	60	

T型轨道组 组合尺寸 T-type guideway components

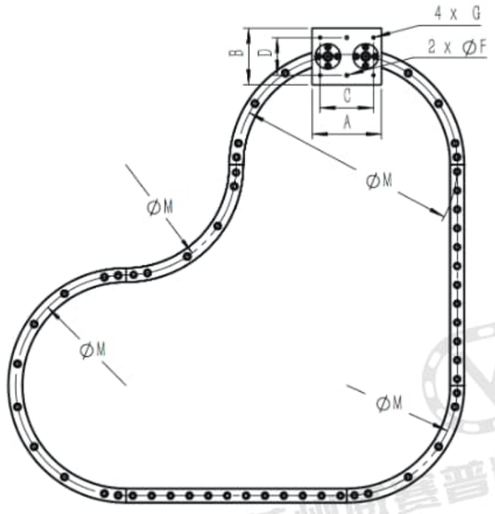


型号 Model	G	h(mm)	H(mm)	M(mm)	S(mm)
T23-200-R180	M5	15	35.5	200	60
T23-255-R180	M5	15	35.5	255	60
T23-300-R180	M5	15	35.5	300	60
T23-351-R180	M5	15	35.5	351	60
T23-400-R180	M5	15	35.5	400	60
T23-468-R180	M5	15	35.5	468	60
T23-500-R180	M5	15	35.5	500	60
T23-600-R180	M5	15	35.5	600	60
T28-255-R180	M5	16	45	255	60
T28-351-R180	M5	16	45	351	60
T28-468-R180	M5	16	45	468	60
T28-600-R180	M5	16	45	600	60

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S 弯轨道组
组合尺寸

S-shape guideway components



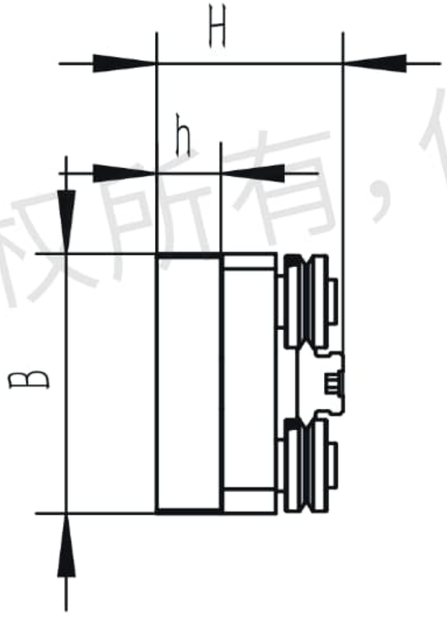
型号 Model	M(mm)	A(mm)	B(mm)	C(mm)	D(mm)
V30-255-R180	255	110	85	90	60
V30-351-R180	351	110	85	90	60
V30-468-R180	468	110	85	90	60
V30-612-R180	612	110	85	90	60

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S 弯轨道组
组合尺寸

S-shape guideway components

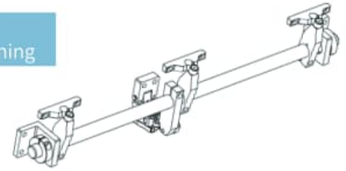


型号 Model	F(mm)	G	H(mm)	h(mm)
V30-255-R180	5(0~0.02)	M5	61	21
V30-351-R180	5(0~0.02)	M5	61	21
V30-468-R180	5(0~0.02)	M5	61	21
V30-612-R180	5(0~0.02)	M5	61	21

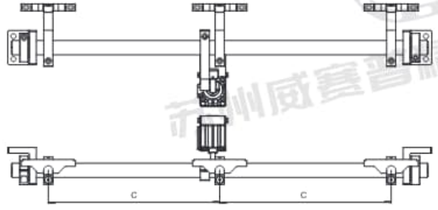
A 定位方式：气连杆定位
Positioning Method A: Pneumatic Rod Positioning

推荐优选 Recommended

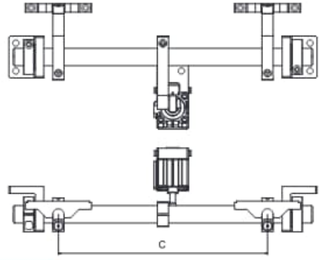
01
三联连杆定位
Triple-Link Rod Positioning



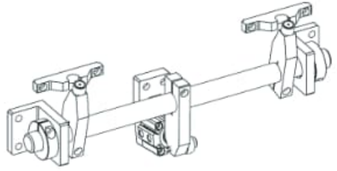
- 定位间距 C 滑座间距，可由客户指定
  Positioning spacing C: the spacing between the slides, adjustable by the customer
- 适用于型材、面板框架
  Suitable for profiles and panel frames
- 气缸可选亚德客、SMC 或客户指定品牌
  Cylinder options: AirTAC, SMC, or customer-appointed brand



02
双联连杆定位
Double-Link Rod Positioning

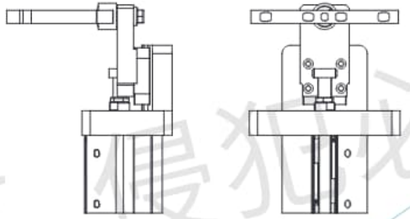


- 定位间距 C 滑座间距，可由客户指定
  Positioning spacing C: the spacing between the slides, adjustable by the customer
- 适用于型材、面板框架
  Suitable for profiles and panel frames
- 气缸可选亚德客、SMC 或客户指定品牌
  Cylinder options: AirTAC, SMC, or customer-appointed brand

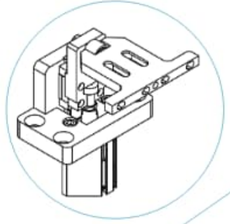


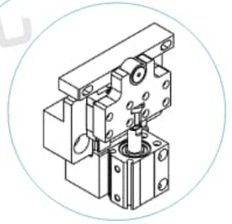
B 定位方式：气缸直顶定位
Positioning Method B: Pneumatic Cylinder Top-Down Positioning

01
面板气缸定位
Panel Cylinder Positioning

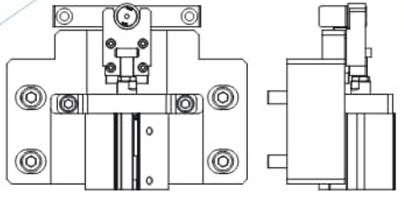


- 适用于面板框架
  Suitable for panel frames
- 气缸可选亚德客、SMC 或客户指定品牌
  Cylinder options: AirTAC, SMC, or customer-appointed brand





02
型材气缸定位
Cylinder Direct-Acting Positioning



- 适用于型材框架
  Suitable for profile frames
- 气缸可选亚德客、SMC 或客户指定品牌
  Cylinder options: AirTAC, SMC, or customer- appointed brand

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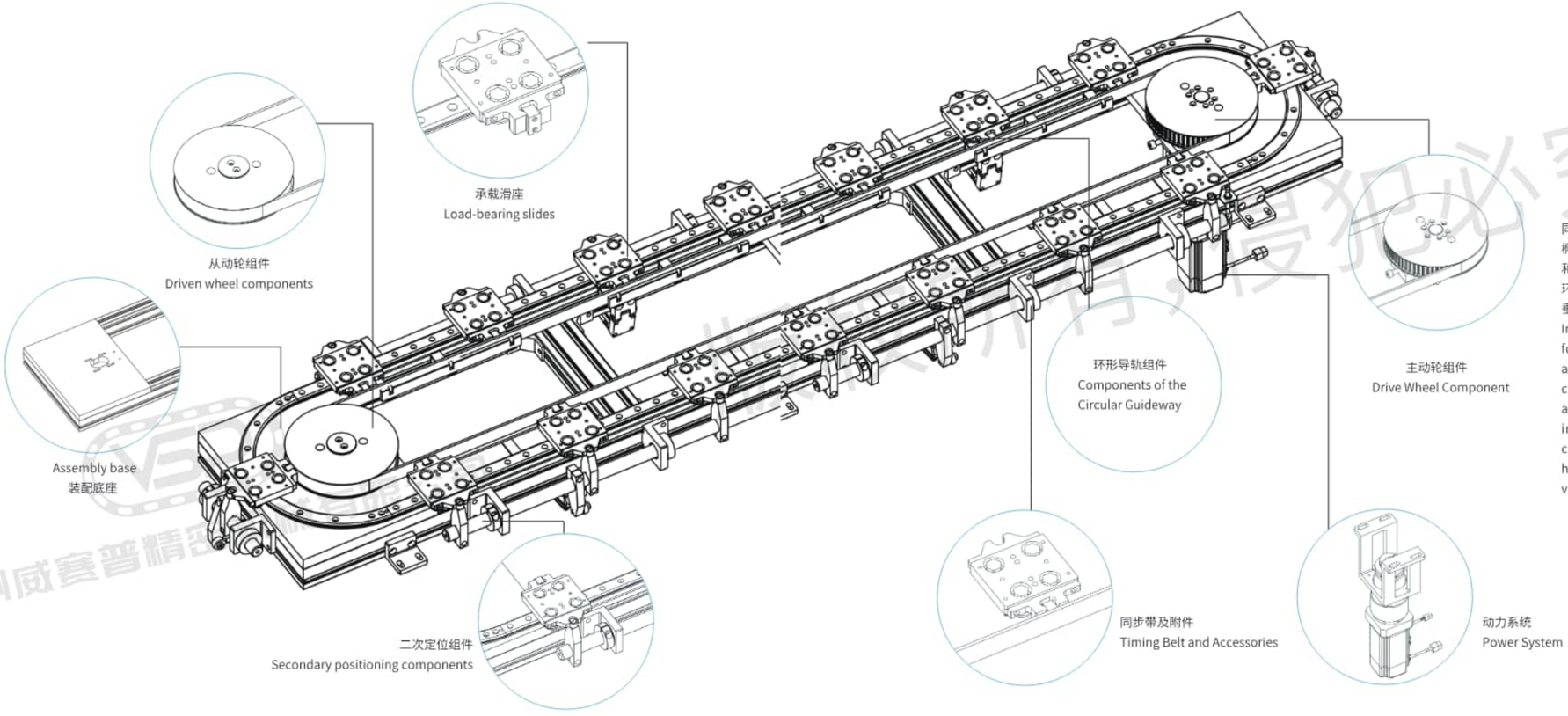
整线介绍
Overall Introduction

图例为同步带驱动的圆形环行线，也是最常见的机型

The diagram represents a circular conveyor line driven by a timing belt, which is the most common of its kind.

主要结构件为：
环形导轨组件、动力系统、主动轮组件、从动轮组件、承载滑座、二次定位组件、同步带及附件、装配底座。

The main structural components include: circular guideway components, power system, drive wheel components, driven wheel components, load-bearing slides, secondary positioning components, timing belt and accessories, assembly base.



整线介绍
Overall Introduction

同时我司还提供多种形式的环形线，如椭圆环形线、矩形环形线、圆形环形线和一般异形环行线：同步带环行线、链条环行线、连杆环行线，水平安装环行线、垂直安装环行线等

In addition, WSP also provides various forms of circular conveyor lines, such as elliptical circular lines, rectangular circular lines, circular loop lines, and general irregular circular lines including timing belt circular lines, chain circular lines, link circular lines, horizontal installation circular lines, vertical installation circular lines, etc.

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整机型号示例
Model Example

LSV30 – AG351R180 – LG479–10P5 – S158.75 – C2

T 型直轨
T-type Linear Guideway

V 型直轨
V-type Linear Guideway

导轨宽度
Guideway Width
- 23-23mm
- 25-25mm
- 30-30mm
- 44-44mm
- 50-50mm

圆弧直径
Arc Diameter
- 200
- 255
- 300
- 351
- 400
- 468
- 500
- 600
- 612

矩形
Rectangular
- 90

椭圆
Elliptical
- 180

圆形
Circular
- 360

直轨长度
Linear Guideway Length

滑座总数量
Total Number of Slides

精定位数量
Number of Precise-positioning Slides

滑座间距
Slide Spacing

- C1 同步带
- C1 Timing Belt

- C2 链条
- C2 Chain

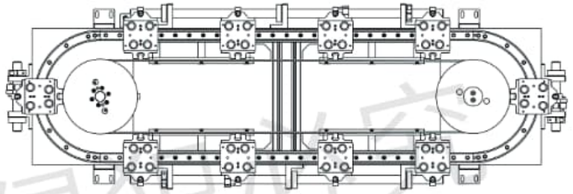
- C3 连杆
- C3 Connecting Rod

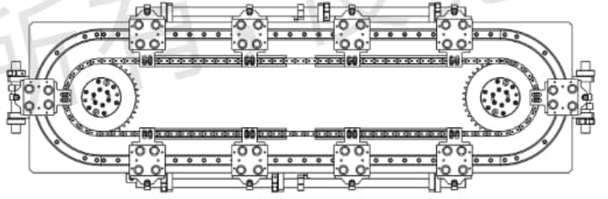
注：根据不同实际的应用情况，可根据客户具体的应用要求进行配置，示例给出的参数指标能方便工程师们快速的确定输入信息
Note: Depending on the specific application requirements of the customer, the configuration can be customized. The provided parameter indicators in the examples may help engineers quickly determine input information.

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传动方式
Transmission Method

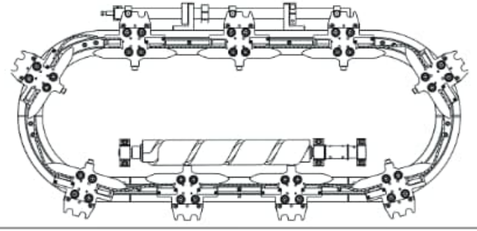
01 同步带 Timing Belt



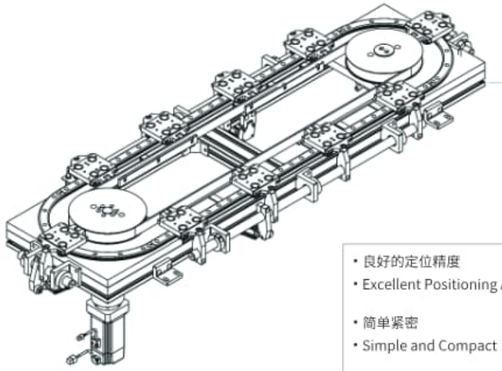


02 链条 Chain

03 连杆 Connecting Rod



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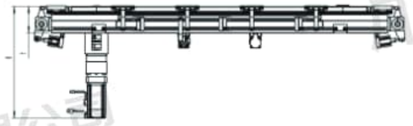
01 平稳运动 Smooth Motion
02 高速运动 High-Speed Motion
03 快速定位 Rapid Positioning

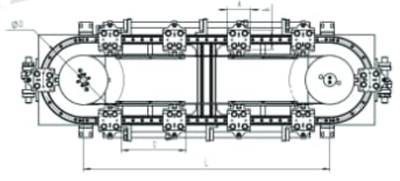
- 良好的定位精度
- Excellent Positioning Accuracy
- 简单紧密
- Simple and Compact
- 成本低，性价比高
- Cost-effective
- 配置灵活
- Flexible Configuration

型号 Model

LSV30-AG351R180-LG1372-10P10-S340-C1

负载 Load	单个滑座≤ 15KG	per Individual Slide
切步时间 The Time Required to Move from One Distance to the Next	⩾ 1.2s	
定位精度 Positioning Accuracy	有定位机构 ±0.05mm	Mechanism with Positioning
	无定位机构 ±0.5mm	Mechanism without Positioning
传动方式 Transmission Method	同步带	Chain
安装方式 Installation Method	水平安装	Horizontal Installation

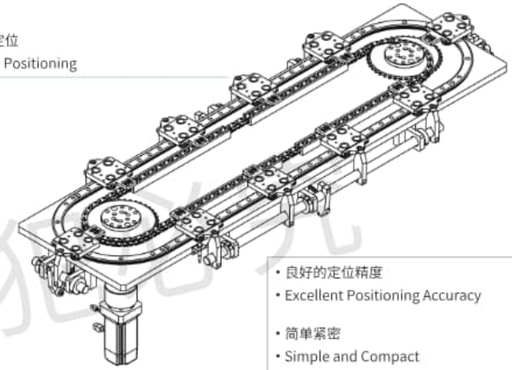




A 滑座长度（100-140mm） Slide Length	B 滑座宽度（mm） Slide Width	C 滑座间距（可由客户指定） Slide Spacing (Can be specified by the customer)	D 环轨直径（200-600mm） Circular uideway Diameter	L 直轨长度（由滑座数量和间距决定） Length of the Linear Guideway (Determined by the number of slides and spacing)	H	h	d 轴心直径 (Shaft diameter)	定位方式 (A: 气缸连杆式，B: 气缸直顶式) Positioning Method: Cylinder Linkage Positioning, Cylinder Direct-Acting Positioning
100	80	340	351	1372	572	120	22	A

注：上图为标准型号根据实际应用的工况不同，威赛普会按照客户具体要求进行配置 . 更多型号参数请联系我们技术部门
Note: The above diagram shows standard models. Depending on the specific application conditions, WSP can provide customized configurations according to customer requirements. For more model parameters, please contact our technical department.

01 平稳运动 Smooth Motion
02 高速运动 High-Speed Motion
03 快速定位 Rapid Positioning

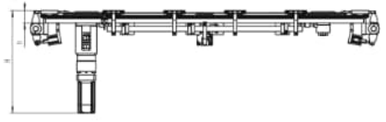


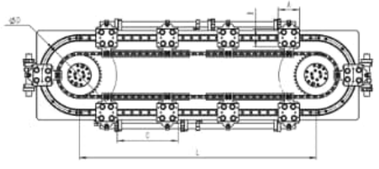
- 良好的定位精度
- Excellent Positioning Accuracy
- 简单紧密
- Simple and Compact
- 面板框架刚性高
- High Rigidity of Panel Frame
- 配置灵活
- Flexible Configuration

型号 Model

LSV30-AG351R180-LG1380.2-10P10-S342.9-C2

负载 Load	单个滑座≤ 15KG	per Individual Slide
切步时间 The Time Required to Move from One Distance to the Next	⩾ 0.8s	
定位精度 Positioning Accuracy	有定位机构 ±0.05mm	Mechanism with Positioning
	无定位机构 ±1mm	Mechanism without Positioning
传动方式 Transmission Method	链条	Chain
安装方式 Installation Method	水平安装	Horizontal Installation





A 滑座长度（100-140mm） Slide ength	B 滑座宽度（mm） Slide Width	C 滑座间距（可由客户指定） Slide Spacing (Can be specified by the customer)	D 环轨直径（200-600mm） Circular uideway Diameter	L 直轨长度（由滑座数量和间距决定） Length of the Linear Guideway (Determined by the number of slides and spacing)	H	h	d 轴心直径 (Shaft diameter)	定位方式 (A: 气缸连杆式，B: 气缸直顶式) Positioning Method: Cylinder Linkage Positioning, Cylinder Direct-Acting Positioning
100	80	342.9	351	1382	512	60	22	A

注：上图为标准型号根据实际应用的工况不同，威赛普会按照客户具体要求进行配置 . 更多型号参数请联系我们技术部门
Note: The above diagram shows standard models. Depending on the specific application conditions, WSP can provide customized configurations according to customer requirements. For more model parameters, please contact our technical department.

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01 平稳运动 Smooth Motion

02 高速运动 High-Speed Motion

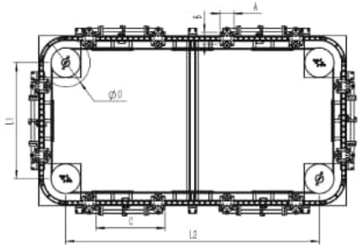
03 快速定位 Rapid Positioning

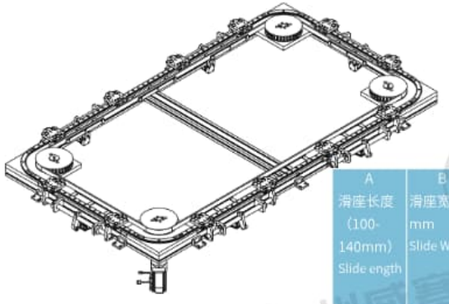


型号 Model

LSV30-AG351R90-LG2828+860-12P12-S700-C1

负载 Load	单个滑座≤ 10KG		per Individual Slide
切步时间 The Time Required to Move from One Station to the Next	⩾ 1.2s		
定位精度 Positioning Accuracy	有定位机构 ±0.05mm		Mechanism with Positioning
	无定位机构 ±1mm		Mechanism without Positioning
传动方式 Transmission Method	同步带		Chain
安装方式 Installation Method	水平安装		Horizontal Installation





- 良好的定位精度
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- High Rigidity of Panel Frame
- 简单紧密
- Simple and Compact
- 配置灵活
- Flexible Configuration

A 滑座长度（100-140mm） Slide ength	B 滑座宽度 mm Slide Width	C 滑座间距（可由客户指定） Slide Spacing (Can be specified by the customer)	D 环轨直径（200-600mm） Circular uideway Diameter	L1 直轨长度（由滑座数量和间距决定） Length of the Linear Guideway (Determined by the number of slides and spacing)	L2 直轨长度（由滑座数量和间距决定） Length of the Linear Guideway (Determined by the number of slides and spacing)	H	h	d 轴心直径（Shaft diameter）	定位方式（A: 气缸连杆式，B: 气缸直顶式） Positioning Method: Cylinder Linkage Positioning, Cylinder Direct-Acting Positioning
120	80	700	468	2828	860	572	120	25	A

注：上图为标准型号根据实际应用的工况不同，威赛普会按照客户具体要求进行配置 . 更多型号参数请联系我们技术部门

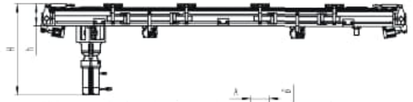
Note: The above diagram shows standard models. Depending on the specific application conditions, WSP can provide customized configurations according to customer requirements. For more mod el parameters, please contact our technical department.

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01 平稳运动 Smooth Motion

02 高速运动 High-Speed Motion

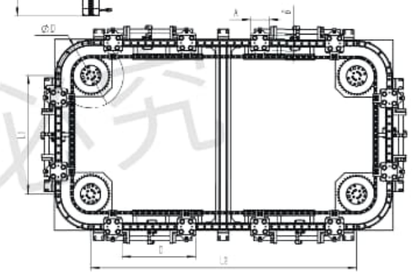
03 快速定位 Rapid Positioning

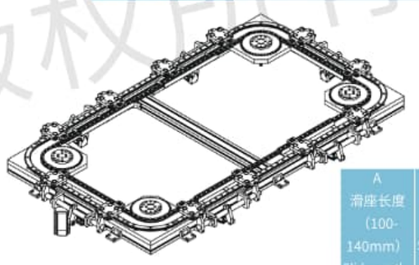


型号 Model

LSV30-AG468R90-LG2736+860-12P12-S685.8-C2

负载 Load	单个滑座≤ 15KG		per Individual Slide
切步时间 The Time Required to Move from One Station to the Next	⩾ 1.2s		
定位精度 Positioning Accuracy	有定位机构 ±0.05mm		Mechanism with Positioning
	无定位机构 ±1mm		Mechanism without Positioning
传动方式 Transmission Method	链条		Chain
安装方式 Installation Method	水平安装		Horizontal Installation





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A 滑座长度（100-140mm） Slide ength	B 滑座宽度 mm Slide Width	C 滑座间距（可由客户指定） Slide Spacing (Can be specified by the customer)	D 环轨直径（200-600mm） Circular uideway Diameter	L1 直轨长度（由滑座数量和间距决定） Length of the Linear Guideway (Determined by the number of slides and spacing)	L2 直轨长度（由滑座数量和间距决定） Length of the Linear Guideway (Determined by the number of slides and spacing)	H	h	d 轴心直径（Shaft diameter）	定位方式（A: 气缸连杆式，B: 气缸直顶式） Positioning Method: Cylinder Linkage Positioning, Cylinder Direct-Acting Positioning
120	80	685.8	468	2736	860	572	120	25	A

注：上图为标准型号根据实际应用的工况不同，威赛普会按照客户具体要求进行配置 . 更多型号参数请联系我们技术部门

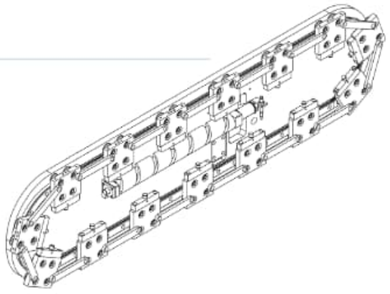
Note: The above diagram shows standard models. Depending on the specific application conditions, WSP can provide customized configurations according to customer requirements. For more model parameters, please contact our technical department.

01 平稳运动 Smooth Motion
02 高速运动 High-Speed Motion
03 快速定位 Rapid Positioning

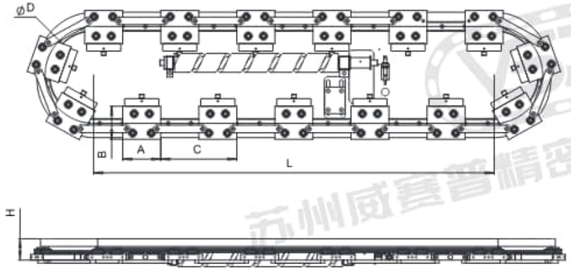
型号 Model

LSV25-AG255R180-LG1053.05-15P0-S200-C3

负载 Load	单个滑座≤ 15KG	per Individual Slide	
切步时间 The Time Required to Move from One Station to the Next	⩾ 1.2s		
定位精度 Positioning Accuracy	有定位机构 ±0.05mm	Mechanism with Positioning	
	无定位机构 ±1mm	Mechanism without Positioning	
传动方式 Transmission Method	链条	Chain	
安装方式 Installation Method	水平安装	Horizontal Installation	



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- 面板框架刚性高
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- Flexible Configuration



A 滑座长度（100-140mm）Slide Length	B 滑座宽度（mm）Slide Width	C 滑座间距（可由客户指定）Slide Spacing (Can be specified by the customer)	D 环轨直径（200-600mm）Circular uideway Diameter	L 直轨长度（由滑座数量和间距决定）Length of the Linear Guideway (Determined by the number of slides and spacing)	H1
100	80	200	255	1053.05	55.9

注 上图为标准型号根据实际应用的工况不同，威赛普会按照客户具体要求进行配置，更多型号参数请联系我们技术部门

Note: The above diagram shows standard models. Depending on the specific application conditions, WSP can provide customized configurations according to customer requirements. For more model parameters, please contact our technical department.

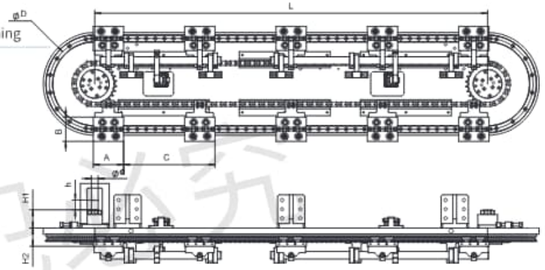
苏州威赛普精密机械有限公司

01 平稳运动 Smooth Motion
02 高速运动 High-Speed Motion
03 快速定位 Rapid Positioning

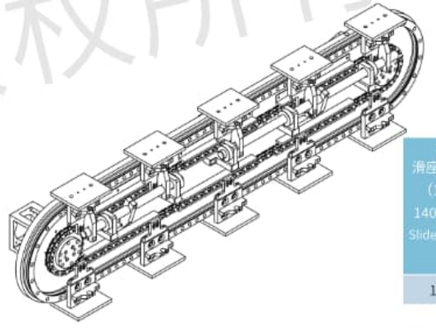
型号 Model

LST23-AG300R180-LG1297-10P5-S301.63-C2

负载 Load	单个滑座≤ 15KG	per Individual Slide	
切步时间 The Time Required to Move from One Station to the Next	⩾ 1.2s		
定位精度 Positioning Accuracy	有定位机构 ±0.05mm	Mechanism with Positioning	
	无定位机构 ±1mm	Mechanism without Positioning	
传动方式 Transmission Method	链条	Chain	
安装方式 Installation Method	垂直安装	Vertical installation	



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A 滑座长度（100-140mm）Slide ength	B 滑座宽度（mm）Slide Width	C 滑座间距（可由客户指定）Slide Spacing (Can be specified by the customer)	D 环轨直径（200-600mm）Circular uideway Diameter	L 直轨长度（由滑座数量和间距决定）Length of the Linear Guideway (Determined by the number of slides and spacing)	H1	H2	h	d 轴心直径（Shaft diameter）	定位方式（A: 气缸连杆式，B: 气缸直顶式）Positioning Method: Cylinder Linkage Positioning, Cylinder Direct-Acting Positioning
100	80	301.63	300	1242	60.5	60.4	32	22	A

注：上图为标准型号根据实际应用的工况不同，威赛普会按照客户具体要求进行配置，更多型号参数请联系我们技术部门

Note: The above diagram shows standard models. Depending on the specific application conditions, WSP can provide customized configurations according to customer requirements. For more model parameters, please contact our technical department.

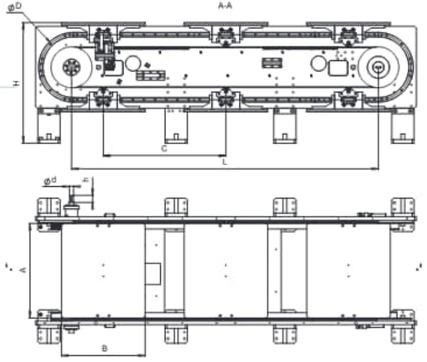
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01 平稳运动 Smooth Motion
02 高速运动 High-Speed Motion
03 快速定位 Rapid Positioning

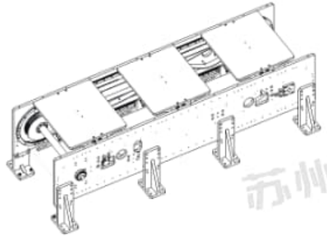
型号 Model

LSV25-AG351R180-LG1652-12P1-S660-C1

负载 Load	单个滑座≤ 20KG	per Individual Slide	
切步时间 The Time Required to Move from One Station to the Next	⩾ 1.8s		
定位精度 Positioning Accuracy	有定位机构 ±0.05mm	Mechanism with Positioning	
	无定位机构 ±1mm	Mechanism without Positioning	
传动方式 Transmission Method	同步带	Timing Belt	
安装方式 Installation Method	垂直安装	Vertical installation	



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- Non-standard Customization
- 配置灵活
- Flexible Configuration



A 滑座长度（可由客户指定） Slide engthCan be specified by the customer)	B 滑座宽度（可由客户指定） Slide WidthCan be specified by the customer)	C 滑座间距（可由客户指定） Slide SpacingCan be specified by the customer)	D 环轨直径（200-600mm） Circular uideway Diameter	L 直轨长度（由滑座数量和间距决定） Length of the Linear Guideway (Determined by the number of slides and spacing)	H	h	d 轴心直径 (Shaft diameter)	定位方式 (A: 气缸连杆式，B: 气缸直顶式) Positioning Method: Cylinder Linkage Positioning, Cylinder Direct-Acting Positioning
510	450	660	351	1652	650	38	22	A

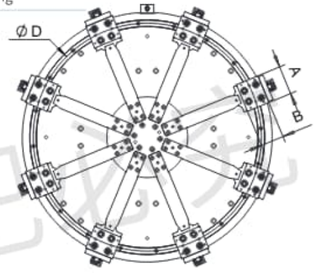
注：上图为标准型号根据实际应用的工况不同，威赛普会按照客户具体要求进行配置 . 更多型号参数请联系我们技术部门
Note: The above diagram shows standard models. Depending on the specific application conditions, WSP can provide customized configurations according to customer requirements. For more model parameters, please contact our technical department.

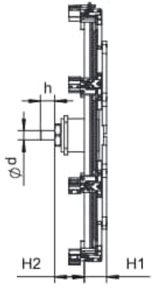
01 平稳运动 Smooth Motion
02 高速运动 High-Speed Motion
03 快速定位 Rapid Positioning

型号 Model

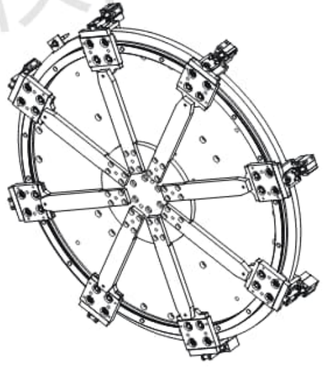
LST23-AG790R360-8P8

负载 Load	单个滑座≤ 15KG	per Individual Slide	
切步时间 The Time Required to Move from One Station to the Next	⩾ 0.8s		
定位精度 Positioning Accuracy	有定位机构 ±0.05mm	Mechanism with Positioning	
	无定位机构 ±0.1mm	Mechanism without Positioning	
传动方式 Transmission Method	链条	Chain	
安装方式 Installation Method	水平安装	Horizontal Installation	





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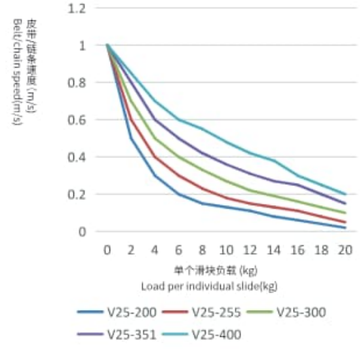
A 滑座长度（可由客户指定） Slide engthCan be specified by the customer)	B 滑座宽度（可由客户指定） Slide WidthCan be specified by the customer)	C 滑座间距（可由客户指定） Slide SpacingCan be specified by the customer)	D 环轨直径（可由客户指定） Circular uideway Diameter	H1	H2	h	d 轴心直径 (Shaft diameter)	定位方式 (A: 气缸连杆式，B: 气缸直顶式) Positioning Method: Cylinder Linkage Positioning, Cylinder Direct-Acting Positioning
100	80	8	790	77	102.5	49	32	B

注：上图为标准型号根据实际应用的工况不同，威赛普会按照客户具体要求进行配置 . 更多型号参数请联系我们技术部门
Note: The above diagram shows standard models. Depending on the specific application conditions, WSP can provide customized configurations according to customer requirements. For more model parameters, please contact our technical department.

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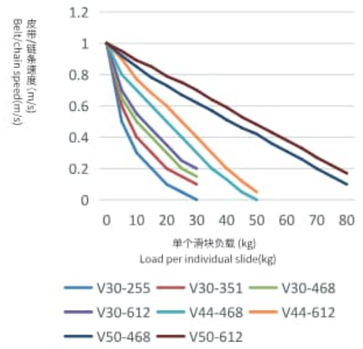
型滑块输送能力参考值

Reference values for conveying capacity of V25 slide



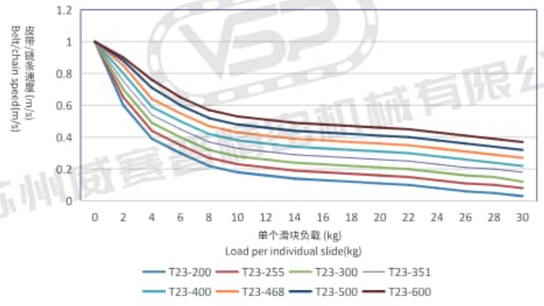
V30、V44、V50 型滑块输送能力参考值

Reference values for conveying capacity of V30, V44, and V50 slides



T23 型滑块输送能力参考值

Reference values for conveying capacity of T23 type slide



输送能力
Conveying Capacity

输送能力 (速度) 主要由圆弧大小和滑座负载决定 :

The conveying capacity (speed) is mainly determined by the size of the arc and the load on the slide:

圆弧大小 :由于滑座在圆弧上的运行速度比直线部分快，且圆弧越小速度差越大，则运行时对滑座造成的惯性反作用力就越大。

Size of the arc: Since the slide moves faster on the arc than on the linear section, and the smaller the arc, the greater the speed difference, the greater the inertial reaction force exerted on the slide during operation.

滑块负载 :负载越大，启停时对滑座的惯性力越大。

Slide load: The larger the load, the greater the inertia force on the slide during starting and stopping.

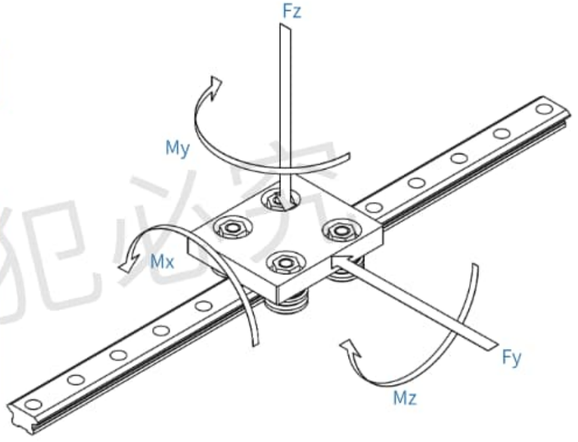
以下为不同导轨的输送能力参考值

The following are reference values for the conveying capacity of different guideways:

受力及寿命分析计算
Analysis and Calculation of Force and Lifespan

滑块的最大承载能力
Maximum Load Capacity of the Slide

滑块型号 Slide Model	Fy(N)	Fz(N)	Mx(Nm)	My(Nm)	Mz(Nm)
V25	80	150	7	16	16
V30	120	250	15	25	25
V44	150	300	16	28	28
V50	250	500	30	50	50
T23	100	200	10	19	19
T28	200	400	23	35	35



LF=F_y/F_ymax+ F_z/F_zmax+ M_x/M_xmax+ M_y/M_ymax+ M_z/M_zmax

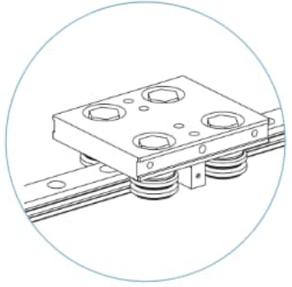
Fymax、Fzmax、Mxmax、Mymax、Mzmax 从上表中查取

Fymax、Fzmax、Mxmax、Mymax、MzmaxRefer to the table above to retrieve the information.

- LF- 载荷系数 (必须小于 1.0)
- LF - Load Factor (must be less than 1.0)
- Fy-Y 方向实际负载
- Fy - Actual Load in the Y direction
- Fz-Z 方向实际负载
- Fz - Actual Load in the Z direction
- Mx-X 方向实际扭矩负载
- Mx - Actual Torque Load in the X direction
- My-Y 方向实际扭矩负载
- My - Actual Torque Load in the Y direction
- Mz-X 方向实际扭矩负载
- Mz - Actual Torque Load in the Z direction

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受力及寿命分析计算
Analysis and Calculation of Force and Lifespan



滑块基本寿命
Basic Lifespan of the Slide

滑块型号	无润滑	润滑
V25	60	100
V30	150	250
V44	100	150
V50	150	250
T23	80	130
T28	130	200

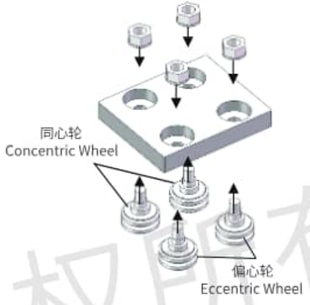
$$\text{无润滑使用寿命 (km)= Slide Lifespan without Lubrication(km)} = \frac{\text{滑块基本寿命 Basic Lifespan of the Slide}}{(0.03+0.97.LF)^2}$$

$$\text{润滑使用寿命 (km)= Slide Lifespan with Lubrication(km)} = \frac{\text{滑块基本寿命 Basic Lifespan of the Slide}}{(0.03+0.97.LF)^3}$$

苏州威赛普精密机械有限公司

滑座调节及安装
Slide Adjustment and Installation

为了环形导轨系统达到最佳性能，必须正确安装及调节滑座。
To achieve optimal performance of the circular guideway, it is necessary to install and adjust the slide correctly.

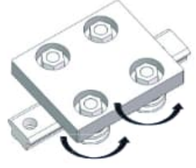


步骤一：正心滚轮安装在两个间距小的孔中，间距大的两个孔安装偏心滚轮。
Step 1: Install the concentric wheel in the two smaller-spaced holes, and install the eccentric wheel in the two larger-spaced holes.

步骤二：同心轴承应完全拧紧，偏心轴承半拧紧并转至离中心最远位置。
Step 2: Tighten the concentric bearings completely, semi-tighten the eccentric bearings, and rotate them to the farthest position from the center.



步骤三：将滑座放入导轨
Step 3: Place the slide onto the guideway.



步骤四：沿箭头方向旋转偏心滚轮直到轴承卡住滑道后，避免偏心轮螺柱进一步旋转的同时将偏心轮螺母完全拧紧至扭矩值（扭矩值见表 1）。
Step 4: Rotate the eccentric wheel in the direction of the arrow until the bearings grip the track. While avoiding further rotation of the eccentric wheel bolt, tighten the eccentric wheel nut completely to the specified torque value (torque values see Table 1).

判断是否正确调节的方式：
Methods to determine correct adjustment:

用手指捏住轴承，在避免导轨和滑座移动的同时，旋转轴承可以使滑座在轨道上滑动，应能感觉到均匀的阻力且轴承可以轻松旋转。
Hold the bearings with your fingers, and while preventing movement of the guideway and slide, rotate the bearings. This should allow the slide to smoothly move on the track, with a consistent and easy rotation of the bearings.

滑座在导轨上滑动时有预载阻力（阻力值见表 2），且阻力值在滑动过程中不变。
When the slide moves along the guideway, there should be a preload resistance (resistance values see Table 2), and the resistance value should remain constant during the sliding process.

	V25	V30	V35	V45	T30.5
活动 / 内六角扳手 Adjustable/Allen wrench	13#	5#	6#	8#	6#
套筒扳手 Socket wrench	13#	16#	16#	18#	16#
拧紧扭矩值 Tightening torque value	22Nm	45Nm	45Nm	75Nm	45Nm

表 1 Table 1

滚轮尺寸 Roller size	阻力值 Resistance value
V25	5N
V30	8N
V35	10N
V45	15N
T30.5	10N

表 2 Table 2

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电控及使用说明
Electrical Control and User Instructions

01

机台运行为闭环循环运动
The machine operates in a closed-loop cyclic motion

a 机台回到机械原点位置
a) The machine returns to the mechanical home position.

b 上位机发送指令，使滑座小车移动一个工位距离
b) The host computer sends a command to move the slide by one station distance.

c 停稳后其他二次修正机构修正，此时进行工作；
c) After stabilizing, other secondary correction mechanisms make adjustments, and work is performed at this stage.

d 工作完成后修正机构撤回。重复步骤 b、c、d 以此完成整个机台的循环运行
d) After completing the work, the correction mechanism retracts. Repeat steps b, c, and d to complete the entire cycle of the machine.

02

通电调试
Electrical Commissioning

通电前例行检查事项
Routine pre-power-on checks

a 机台有无影响运行的杂
a) Check for any debris that may affect the operation of the machine.

b 手动运转机台检查是否有干涉
b) Manually rotate the machine to check for interference.

c 检查机台的结构连接
c) Inspect the structural connections of the machine.

d 原点感应开关调整到有效位置
d) Adjust the origin sensing switch to the correct position.

e 确保接线正确
e) Ensure proper wiring.

为了消除运行产生的累积偏差，使用 1 个滑座当原点感应，建议运转半天左右进行一次回原点，回原点方向需要和运行方向一致
To eliminate accumulated deviations during operation, it is recommended to use one slide as the origin sensor. It is suggested to perform a return-to-origin procedure approximately every half day of operation, and the direction of returning to the home position should be consistent with the running direction.

脉冲型电机运动脉冲量计算
Calculation of Pulse Quantity for Pulse-Type Motor Motion:

M: 电机每转脉冲数
M: Number of motor pulses per revolution

R: 减速机减速比
R: Gear ratio of the reducer

D: 带轮齿数
D: Number of teeth on the pulley

L: 滑座运动一工位距离
L: Distance traveled by the slide per station

N: 运动一工位脉冲数
N: Number of pulses for moving one station

$$N=\frac{L\times R\times M}{D}$$

基本导轨(直线导轨、圆弧导轨、滑动小车、圆盘等)型号示例
Examples of Basic Guideway Models (Linear Guideway, Arc Guideway, Slide, Turntable)

代码 Code	轨道型号 Guideway Type	直轨长度 Linear Guideway Length	圆弧大小 Arc Size	圆弧角度 Arc Angle	定位方式 Positioning Method	工位数 Number of Stations	重复定位工位数 Number of Repeatable Positioning Stations	连接方式 Connection Method
RSQ(椭圆) RSQ(ellipse) RSW(矩形) RSW(rectangle)	T23 V25 V30 V44 V50	300~50000	200 255 300 351 400 468 500 600 612	90 180 360	A-气缸连杆定位 A-Cylinder Linkage positioning B-气缸直顶定位 B-Cylinder Direct-Acting positioning	1-200 （按需求定制） 1-200 (Customized according to requirements)	0-200 （按需求定制） 0-200 (Customized according to requirements)	同步带 链条 连杆 Timing Belt,Chain, Connectiong rod

带系统导轨(基本导轨上加上完整的控制系统，包括动力系统、定位系统等)型号标识示例
Identification Examples for Guideway Models (Basic guideway with complete control system, including power system and positioning system

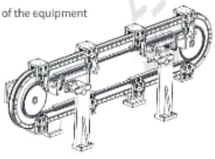
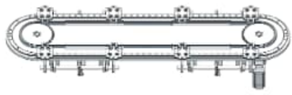
相邻工位中心距 Distance between Adjacent Stations	无定位重复精度 Non-positioning Repeatability	加定位重复精度 Positioning Repeatability	平面精度 Flatness Accuracy	伺服品牌 Servo Brand	伺服功率(W) Servo Power(w)	减速比 Gear Reduction Ratio	特殊要求 Special Requirements
110~2000	±0.5	±0.05	±0.05	S 松下 H 汇川 T 台达 M 三菱 A 安川 X 西门子 Q 其他 Panasonic、 Inovance Tech,Delta Electronics, Mitsubishi, Yaskawa,Siemens,Other	750W 1000W 1200W 1500W 2000W	10比 15比 20比 25比 30比 35比 40比	特殊需求注明(如:高温作业) Please specify any special requirements (e.g., high-temperature operation)

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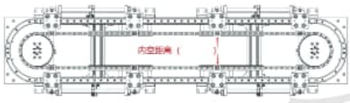
客户基本信息
Customer Basic Information

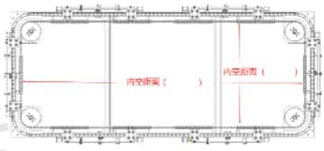
公司名称 Company Name		提出需求时间 Date of Request	
联系人 Contact Person		需求数量 Quantity equired	
联系电话 Phone Number		期望完成时间 Expected Completion Time	

为了更准确了解你的需求，请仔细填写要求
To better understand your requirements, please provide the following detailed information

滑座总数量 Total number of slides	(圆弧处是否需要工位：是 □　　否 □　) (whether a station is required at the arc: Yes □　No □　)
相邻滑座中心距(mm) Center distance between adjacent slides (in millimeters	
载具板尺寸[长(沿直轨方向)*宽*高] Dimensions of the carrier plate [length (along the straight guideway direction) × width × height]	
单个滑座上的承重(kg) Load-bearing capacity per individual slide (in kilograms)	
是否有冲压力(有:请附图或做说明,无:则留空) Presence of punching force(if applicable, please provide details or include a diagram; leave blank if not applicable)	
运动一个滑座中心距时间(包括定位时间0.4s) Time taken for a single slide to move one center distance (including positioning time of 0.4s)	
需要定位的滑座数量(位置请附图或做说明) Number of slides requiring positioning (please provide positions or include a diagram)	(有定位机构线体质重复定位精度为±0.05mm，无定位机构线体的重复精度为±0.5mm) The repositioning precision of a guide rail with locating device is +-0.05mm, the repositioning precision of a guide rail without locating device is +-0.5mm
伺服电机品牌和类型(脉冲或是总线 默认脉冲型) The brand and Type of servo motor (Pulse mode or Bus type, default is pulse mode)	汇川 Xometry □　台达 Delta □　松下 Panasonic □　三菱 Mitsubishi □　其他 other(　　)
简要描述工作环境，如高温、油污、无尘等 Brief description of the working environment, such as high temperature, oil contamination, dust-free, etc.	
选择线体结构形式 choose the structure of the equipment 垂直线 Vertical type □  水平线 Horizontal type □ 	

如有线体中间部分需要安装机构，请给出需要的内空尺寸，填在上图对应括号内
If additional structures need to be installed in the middle of the guide rail, please provide the dimensions and fill in the corresponding parentheses in the figure above.





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