



直线导轨 • 直线光轴



无锡市赛博机电有限公司是一家专业研发、生产及销售直线导轨、轴承和配套精密零部件等产品的机械企业。公司秉持“责任、创新、卓越”的企业精神，经多年市场开发、产品研制、客户服务等积累，现已逐步成长为国内机械传动行业的先行者和领航者。双轴心导轨和超薄轴承等产品获得多项专利权，产品质量达到了国际先进水平。

我公司产品广泛应用于机械设备、医疗器械、激光设备、纺织设备、食品包装机械、喷涂设备、检测仪器等领域，公司凭借雄厚的技术实力和完善的服务，产品已被多家世界 500 强企业认可及使用，到目前为止，SAIBO产品已经销往30多个国家和地区。

SAIBO将您的选择和信任提供超乎您期望的产品和服务！

SAIBO design and produce Linear Guide, Bearing and precision Mechanical components etc. Depend on many years' experience of marketing, products explore, customer services, we developed to one of the leader companies in power transmission area and formed our company's culture of Responsibility, Innovation and Excellence. Our competitive products' (linear guide and Super-slim bearing) design and quality reach international advanced level and get several patent certificates.

SAIBO products are widely used in the area of machinery, medical equipment, laser equipment, spray and painting equipment, Textile Equipment, Food & Packing machine, testing instrument etc. SAIBO products are sold to more than 30 countries. Several world top 500 companies approve and use SAIBO products.

Select SAIBO, you will reach far beyond expectation.

3



SB-LGA 导轨

7



SB-LGB 导轨

9



SB-LGC 导轨

11



SB-LGV 导轨

15

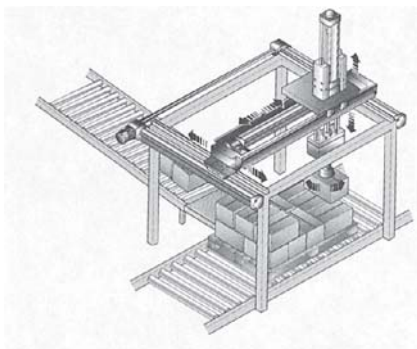


SHAFT 直线光轴

自动处理装置

- 高速提升和放置运动

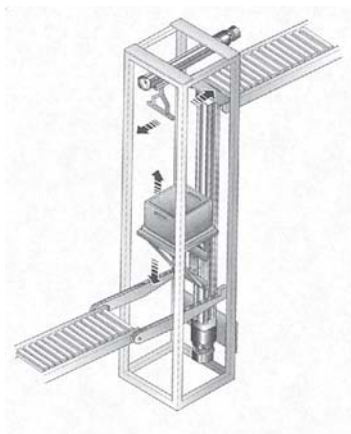
Automatic Processing Equipment



材料处理装置

- 垂直和水平的运输

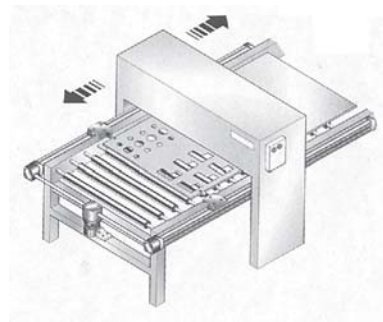
Materials Processing Equipment



打孔机

- 精确进料和定位

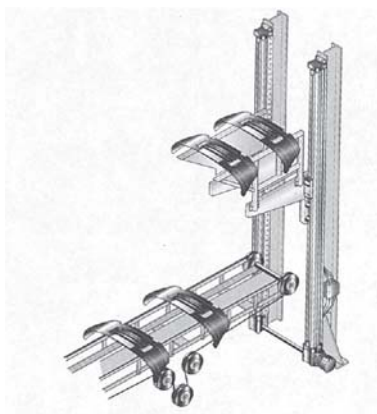
Punch Machine



机械处理装置

- 垂直平行提升系统

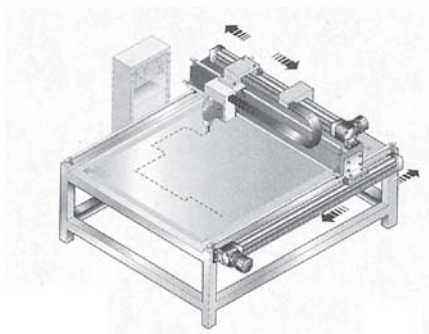
Machinery Processing Equipment



型材切断机

- 水喷射和激光发射的复杂运动

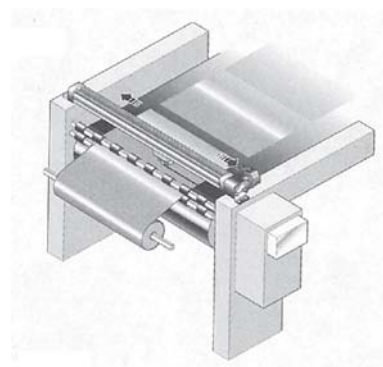
Profiles Cutting Machine



切断机

- 纸张和纺织品的高速横断

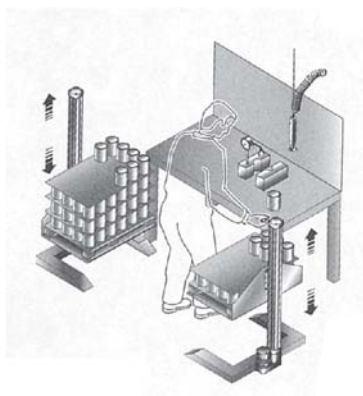
Cutting Machine



环境改选工作站

- 工作台高度的调整

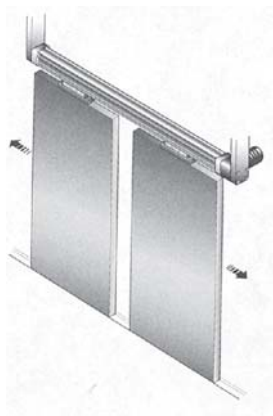
Environmental Re-election Workstations



自动门系统

- 简单的相向(对)运动。

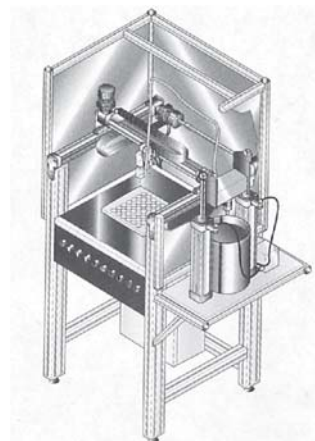
Automatic Door System



自动化充液机

- 精确的三轴定位

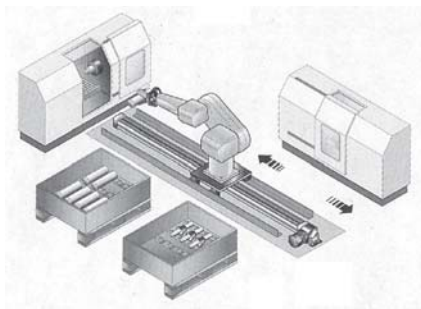
Automatic Liquid - filling Machine



机械手安装

- 机械手在各个工作站之内的横贯往复运动

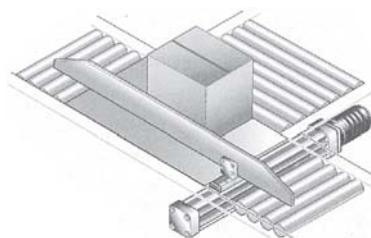
Manipulator Installation



传送带系统

- 的横贯运动

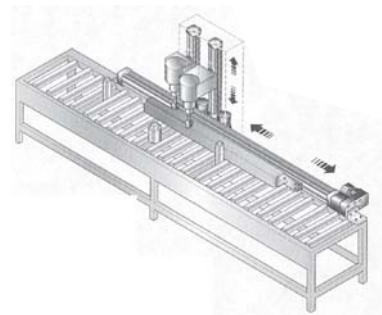
Conveyor Belt System



研磨机

- 二轴精确低速进料

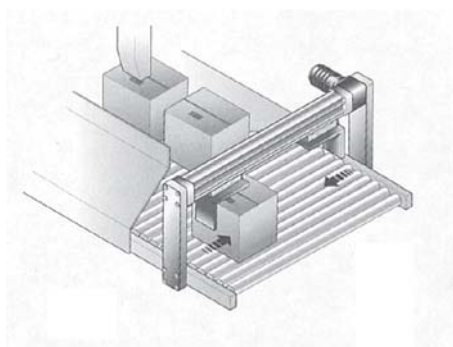
Grinding Machine



传送带系统

- 传送带的包裹对中操作

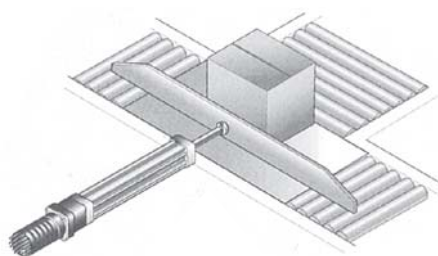
Conveyor Belt System



传送带系统

- 的横贯运动

Conveyor Belt System



喷涂

- 高速同步，相向（对）运动

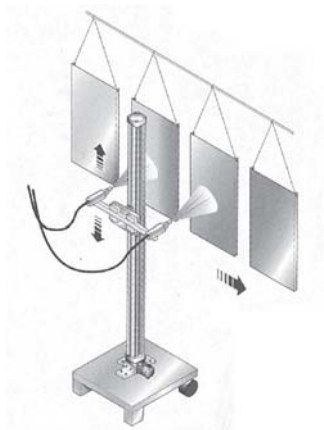
Spraying Painting



喷涂系统

- 精确的往复运动

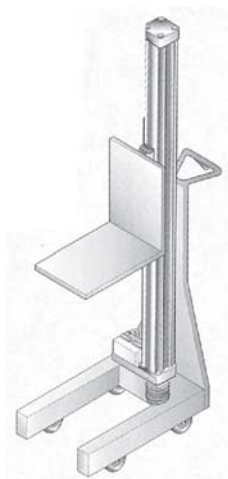
Painting System



移动式举升系统

- 安全的工业举升系统

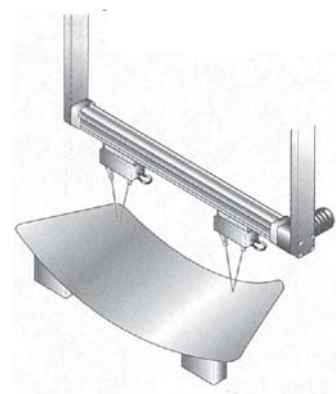
Mobile Lifting System



测量系统

- 运用同步相向(对)运动。实现光学曲率半径的测量

Measurement System



LGA外置滚轮系列 LGA series



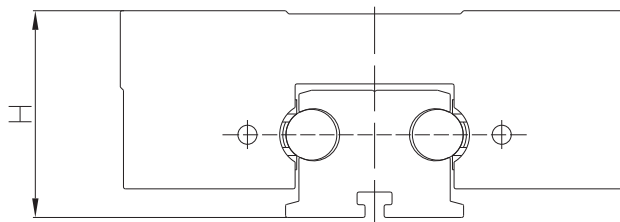
产品特性

1. 高速平稳，噪音低
该系列产品采用高精度的双列滚珠角接触轴承滚轮，使得滑块能在高速状态下平稳运行。
2. 能有效阻挡灰尘
该系列产品使用了具有良好润滑和防尘功能的盖板系统，能有效地阻挡灰尘。
3. 滑块间隙调节方便，互换性好
该系列产品的滑块单边滚轮均采用偏心结构，能方便地调节间隙和预载，使得滑块可在不同导轨间互换使用。

Features

1. High speed, Low noise
This type linear guide uses double row angular contact ball bearing rollers to ensure its stable movement even in high speed.
2. Dust protection
Two Covers have functions both in lubrication and dust protection. So this type linear guide can be used in dust conditions.
3. Easy to adjust Pro-load
One side rollers with eccentric structures are easy to adjust pro-load.

导轨精度 Accuracy



安装高度H公差 Tolerance H: $\pm 0.20 \text{ mm}$

如有更高的精度要求，请联系我们，我们会根据您的要求加工生产。

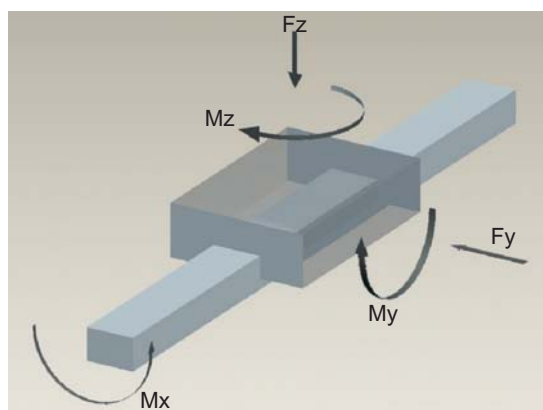
If you have further precision request, please contact us. We can produce it according to your request.

运行参数 Running Parameter

最大运行速度 Max speed: 10 m/s

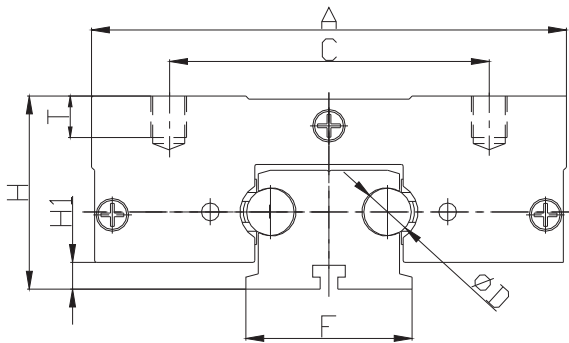
最大加速度 Max acceleration: 50 m/s^2

工作温度范围 Working temperature: $-20^\circ\text{C} \sim +120^\circ\text{C}$

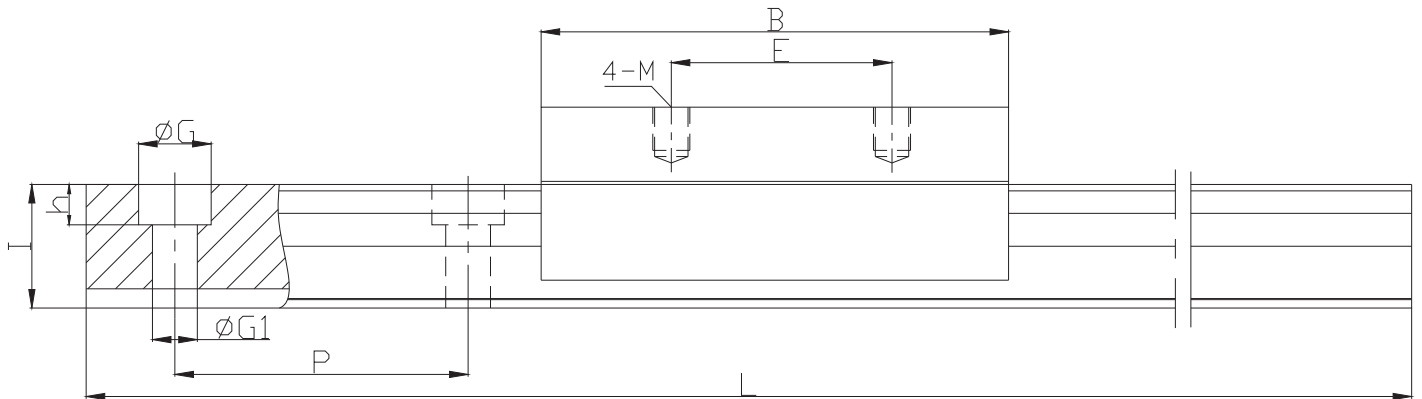


型号 Type	允许载荷 Carriage Capacities				
	F_y (N)	F_z (N)	M_x (Nm)	M_y (Nm)	M_z (Nm)
SB-LGA20	50	75	2	8	7
SB-LGA25	200	210	4	15	12
SB-LGA30	400	536	6	23	17

基本尺寸 Dimension



型号 Type	组件尺寸 Assembly Dimensions (mm)		滑块尺寸 Carriage Dimensions (mm)				
	H	H1	A	B	C	E	M
SB-LGA20	30	4	63	92	53	40	M6
SB-LGA25	32.5	4.5	80	105	60	40	M6
SB-LGA30	38.5	5.5	100	120	85	50	M8



	导轨尺寸 Railway Dimensions (mm)							
T	F	ΦG	ΦG1	h	l	P	ΦD	Lmax
8	20	9	5.5	5.5	19.5	60	6	1020
8	28	12.5	5.5	5.5	20	50	8	3000
10	34.2	14.5	6.5	6.5	24	50	10	4000

LGB内置滚轮系列 LGB series



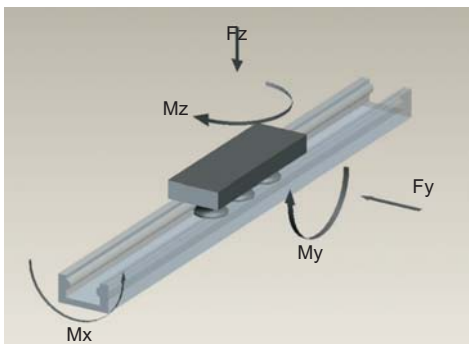
产品特性

1. 耐磨性好，使用寿命长
该系列产品的光轴经特殊加硬处理（硬度可达 $60 \pm 2\text{HRC}$ ），耐磨性能优异，且具有良好的防锈效果。
2. 结构紧凑，便于安装
该系列导轨采用滚轮内置型双轴心设计，产品结构紧凑合理，适合在安装空间狭小的工作条件下使用。

Features

1. Wear resistant, Long service life
This type linear guide uses harden shafts (chrome coated, hardness reach $60 \pm 2\text{HRC}$) which have good abrasive resistance. Meanwhile coated chrome has excellent anti-rust functions.
2. Compact structure
Rollers installed inside two shafts which enable its structure compact and slim. It can be used in narrow space.

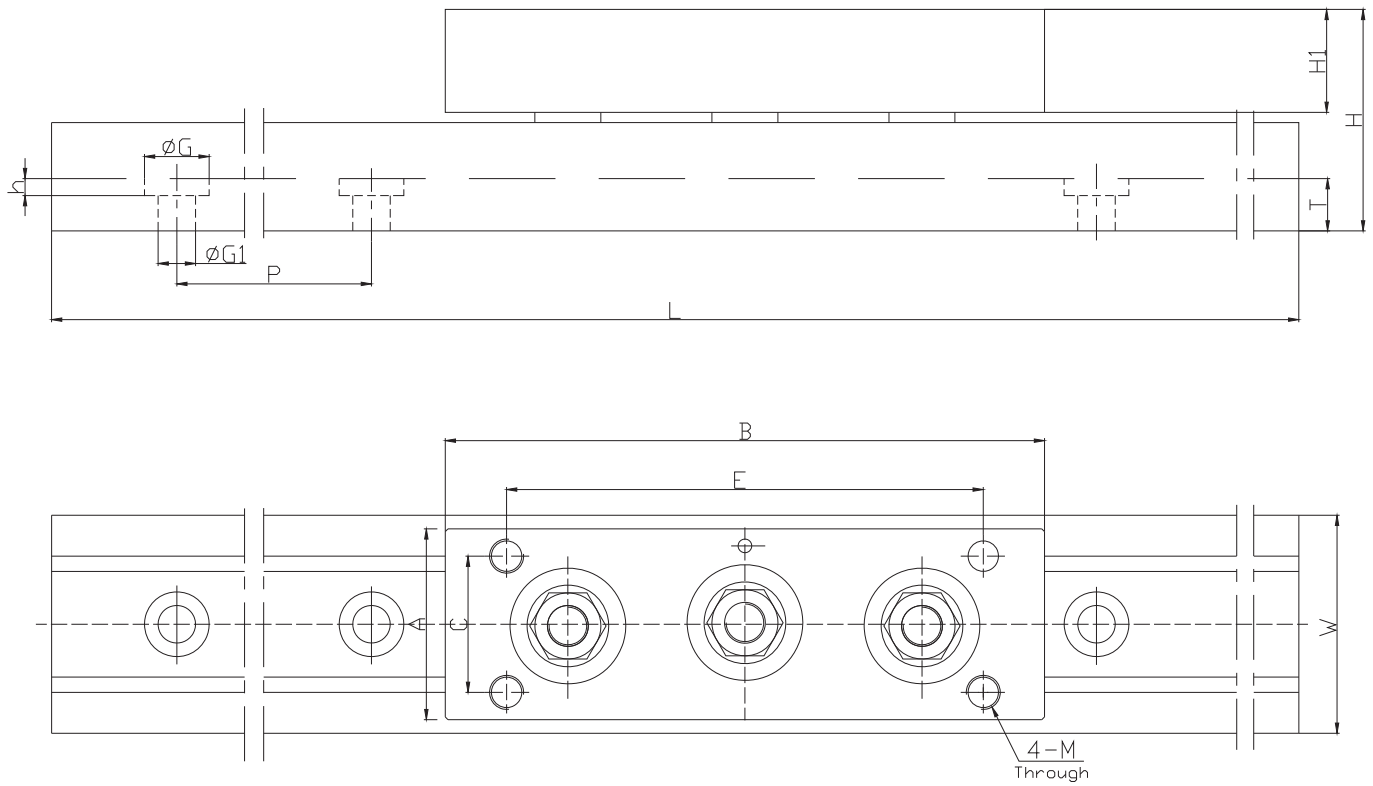
载荷示意图 Load directions



型号 Type	允许载荷 Load Capacity				
	Fy (N)	Fz (N)	Mx (Nm)	My (Nm)	Mz (Nm)
SB-LGB15	30	50	2	3	5
SB-LGB20	120	180	5	7	13
SB-LGB25	280	375	8	12	20

* 以上数据以标准型3轮滑块为准

Above data is according to 3 rollers' standard



型号 Type	组件尺寸 Assembly Dimension (mm)		滑块尺寸 Carriage Dimension (mm)						导轨尺寸 Railway Dimension (mm)					
	H	W	A	B	H1	C	E	M	T	h	ΦG	$\Phi G1$	P	Lmax
SB-LGB15	28.6	32	28	88	10.9	20	70	M5	4.3	2.5	7.5	4.5	60	3000
SB-LGB20	35.5	47	47	108	11.5	38	50	M6	8	5.5	9.5	5.5	60	3000
SB-LGB25	43	65	64	150	14.7	47	65	M8	8	5.5	9.5	5.5	60	3000

* 滑块中的滚轮数量可根据客户不同的承载要求调整

The number of rollers can be added if necessary.

LGC宽体滚轮系列 LGC series



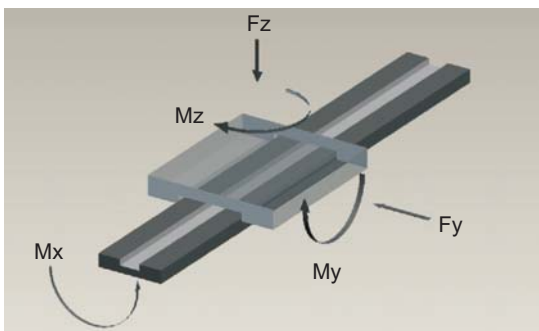
产品特性

1. 该系列产品采用整体式宽形结构设计，导轨基体一次性成型，结构稳定，性能优异。
2. 该系列产品选用大直径镀铬光轴与重载高品质轴承，确保了产品的平稳运行与高承载特性。
3. 该系列产品刚性优良，可承受较大扭力扭矩，导轨可作工作横梁直接使用，滑块亦可作为承载平台。

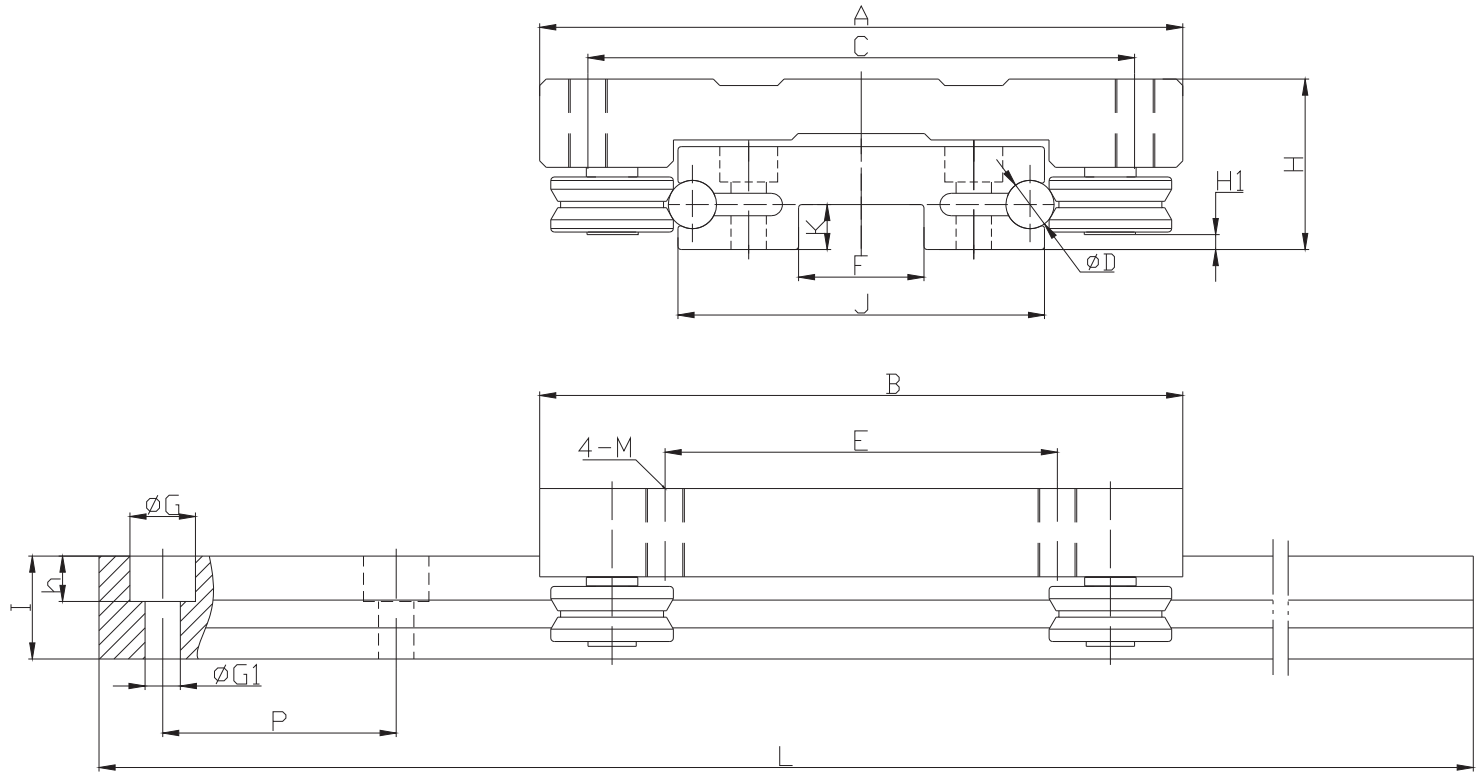
Features

1. This type linear guide designed in wide-body structure. Aluminum rail body is formed with stretch moulding process in one-time. Structure is very stable.
2. Select big diameter shafts to ensure this type linear guide have heavy load capacity and stable movement.
3. Good rigidity ensure this type linear guide have good torque force load capacity. Rail can be used as beam directly. Block can be used as load platform directly.

载荷示意图 Load directions



型号 Type	允许载荷 Load Capacity				
	Fz (N)	Fy (N)	Mx (Nm)	My (Nm)	Mz (Nm)
SB-LGC15	1200	2600	40	225	90



型号 Type	组件尺寸 Assembly Dimension (mm)		滑块尺寸 Carriage Dimension (mm)					导轨尺寸 Railway Dimension (mm)									
	H	H1	A	B	C	E	M	F	K	J	ΦG	ΦG1	h	I	P	ΦD	Lmax
SB-LGC15	53	2.44	200	200	170	102	M12	39	14	114	18	11	11	32	120	15	3000

LGV重载滚轮系列 LGV series



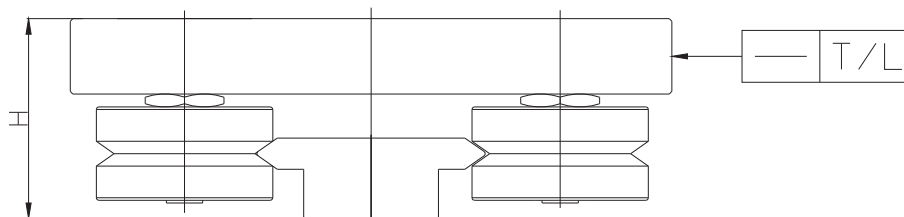
产品特性

1. 重载导轨选用优质钢材，经淬火、研磨、表面处理等加工工艺精制而成，具备硬度高、耐磨性好、高精度等优良品质。滚轮采用重载荷、高精度轴承，确保滑块运行平稳，高速顺畅。
2. 滚轮采用重载荷、双排滚道的高精度轴承,确保滑块运行平稳，高速顺畅，并且维修保养简单易行。
3. 单边滚轮采用偏心结构，易于调节预载。

Features

- 1.Heavy Rail is made of high quality steel with quenching, grinding, surface treatment etc. processing technology. Its character is high-hardness, excellent wear resistance, high precision etc.
- 2.Rollers are heavy load, double race high precision bearings. These rollers ensure linear guide move stable even in high speed. Also it is very easy to maintain.
- 3.One side rollers with eccentric structures are easy to adjust pre-load.

导轨精度 Accuracy



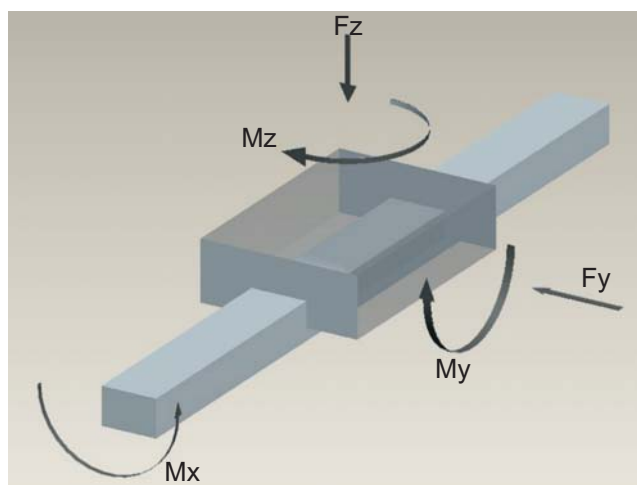
安装高度H公差 Tolerance H : $\pm 0.20\text{mm}$

导轨直线度T Straightness T: 0.05mm/m

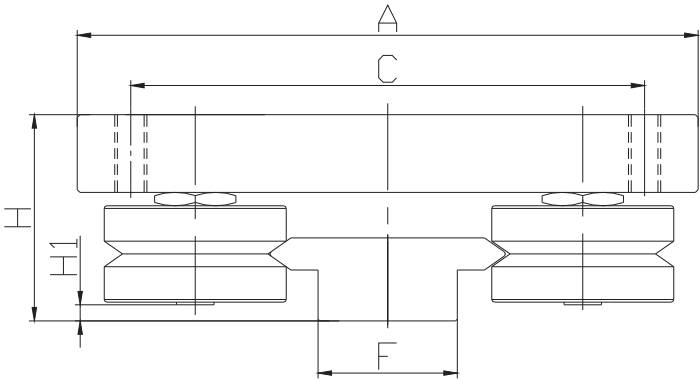
适用温度范围 Working temperature: $-20 \sim +120^{\circ}\text{C}$

如有更高的精度要求, 请与我们联系, 我们会根据您的具体要求加工生产。

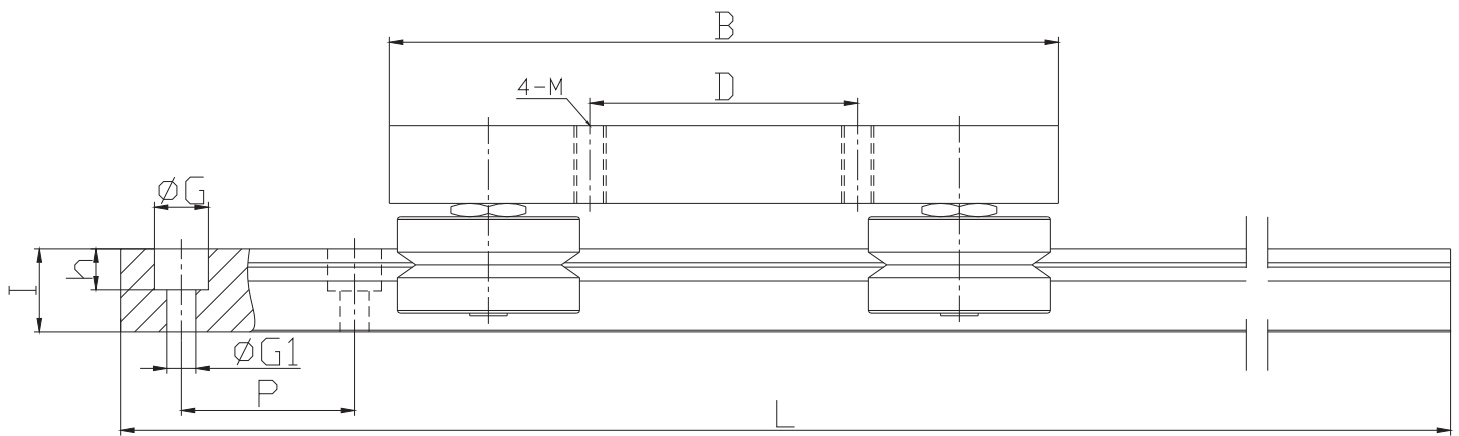
If you have further precision request, please contact us. We can produce it according to your request.



基本尺寸 Dimension



型号 Type	组件尺寸 Assembly Dimension (mm)		滑块尺寸 Carriage Dimension (mm)						
	H	H1	A	B	C	D	M	F	
SB-LGV44	38.5	3	116	125	96	50	4-M8	26	
SB-LGV76	58.5	5	185	200	125	60	4-M14	50	



导轨尺寸 Railway Dimension (mm)					允许载荷 Load Capacity				
l	h	ΦG	ΦG1	P	F _y (N)	F _z (N)	M _x (Nm)	M _y (Nm)	M _z (Nm)
15.5	6	11	7	90	3000	3000	60	132	132
24.3	12	20	11	90	6000	6000	210	420	420

直线轴 SHAFT

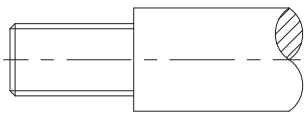


产品特性

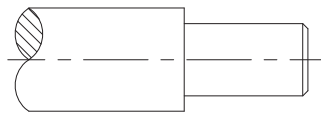
轴类零件广泛应用于电机，工业机器人，激光雕刻机，木工机械，塑胶机械，打印机，油（气）缸等各类机电产品。我公司可根据客户要求选用高碳钢，轴承钢和不锈钢等材料生产高精度轴类零件，并提供如下所示的机械加工：

Features

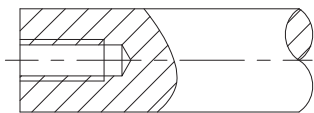
Shafts are widely used in industry many areas such as motor, robot, laser carve machine, woodworking machine, plastic machine, printing machine, Hydraulic (Pneumatic) cylinder etc. We make all kinds of high precision shafts with different material such as high-carbon steel, chromic steel and stainless steel. If required, below treatment is available:



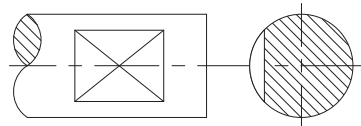
车外螺纹 Screw



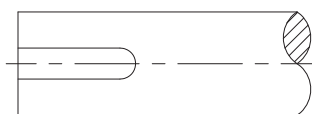
台阶轴 Ladder



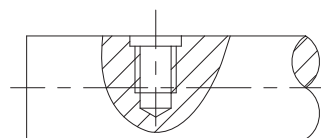
轴端螺纹孔 Screw hole



铣平面 Plane

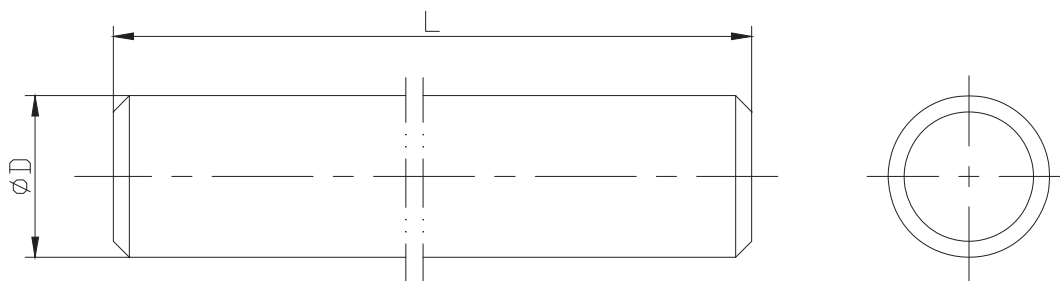


铣键槽 Keyway



径向打孔 Hole

基本尺寸 Dimension



直径 D Diameter (mm)	常备库存公差 Stocks Tolerance	直线度 Straightness um/m	有效硬化层深度 Harden Surface Depth mm	单位重量 Weight kg/m	最大长度L Max Length mm
3	g6 h6	60 ~ 100	≥1.0	0.06	2000
4				0.10	2000
5				0.16	2000
6				0.22	3000
8				0.40	3000
10				0.62	3000
12		100 ~ 150	≥1.0	0.89	3000
13				1.05	3000
16			≥1.5	1.59	4000
20				2.48	4000
25				3.88	4000
30			≥2.0	5.58	4000
35			≥2.5	7.60	4000
40				9.93	4000
50			≥3.0	15.51	4000
60				22.34	4000
80				39.71	4000

材料：高碳钢 轴承钢(铬钢)，硬度：60±2HRC

公差：其它的公差可以订做

Material: High-carbon steel or chrome steel can be selected. Hardness: 60±2HRC

Tolerance: Another Tolerances are available



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