

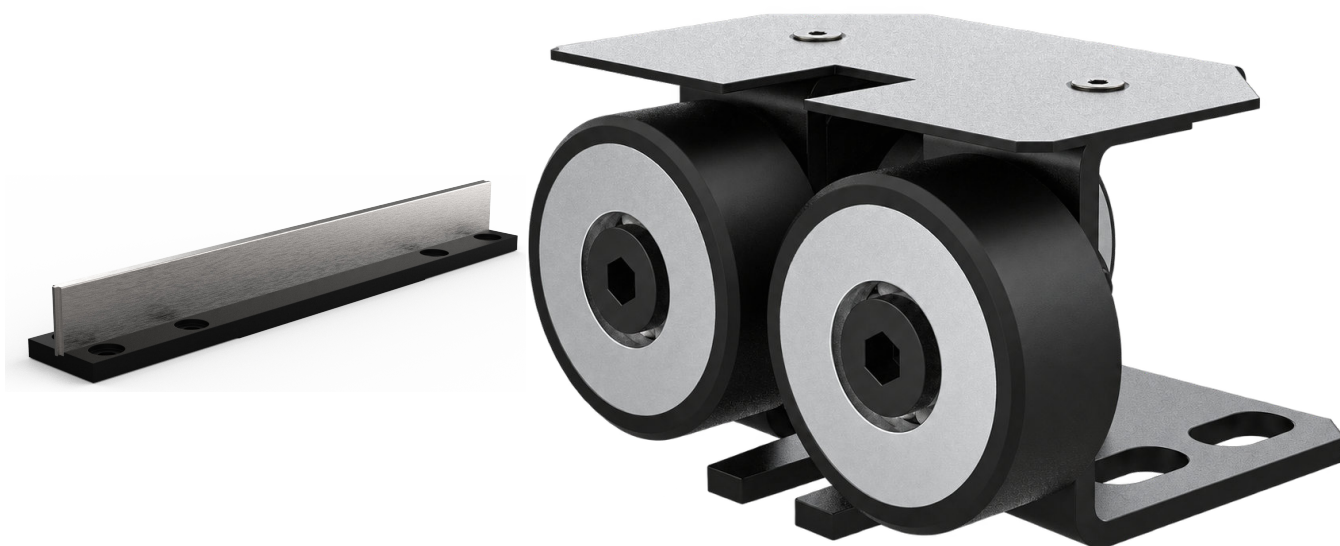
2026

产品样册

PRODUCT CATALOGUE

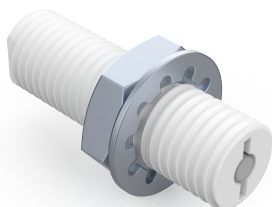
重型导向 · 磨损监测 · UPE 背胶材料

Heavy-duty guidance · Wear monitoring · Adhesive-backed UHMW-PE



01 重型直线导向系统

Heavy-duty linear guiding solutions



M100 磨损监测

Wear limit monitoring



UPE 背胶材料

Adhesive-backed
UHMW-PE

无锡市金甲虫新材料有限公司

GOLDEN BEETLE (WUXI) NEW MATERIALS CO., LTD.

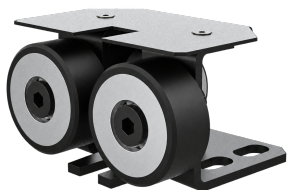
产品体系与目录

PRODUCT RANGE & CONTENTS

关于金甲虫与测试支持

About Golden Beetle & testing support

02



01

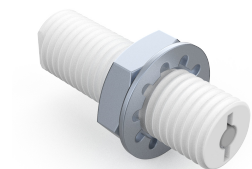
重型直线导向系统

Heavy-duty linear guiding solutions

03–10

SG / GL 导向部件与 T75 / T89 导轨

SG / GL guides and T75 / T89 rails



02

M100 直线滑块磨损到限监测

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磨损头、安装示意与配套功能

Sensor, installation illustration and monitoring options



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UPE 背胶材料

Adhesive-backed UHMW-PE

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卷材、板材、背胶选择与供货规格

Rolls, sheets, adhesive options and supply sizes

关于金甲虫

ABOUT GOLDEN BEETLE

从工况需求出发，让产品与设备相匹配

金甲虫围绕工业设备的导向、磨损监测与滑动接触需求，提供重型直线导向系统、磨损到限监测产品及 UPE 背胶材料。结合载荷、速度、行程与安装空间，明确产品选型、接口条件和供货规格，为设备设计与应用适配提供支持。

Golden Beetle provides heavy-duty linear guiding systems, wear-limit monitoring products and adhesive-backed UHMW-PE for industrial equipment. Product selection considers load, speed, travel and available mounting space, helping define suitable models, interfaces and supply specifications for equipment design and application integration.

产品测试与应用支持

PRODUCT TESTING & APPLICATION SUPPORT



测试设备与实验环境

Test equipment and facilities



材料力学测试设备

Mechanical testing equipment

围绕产品选型与使用工况，明确测试项目、验证条件及评价要求。

Define test items, conditions and evaluation criteria around the product selection and intended operating conditions.

重型直线导向系统

HEAVY-DUTY LINEAR GUIDING SOLUTIONS

一套导轨平台，两种导向方式

One rail platform, two guiding methods

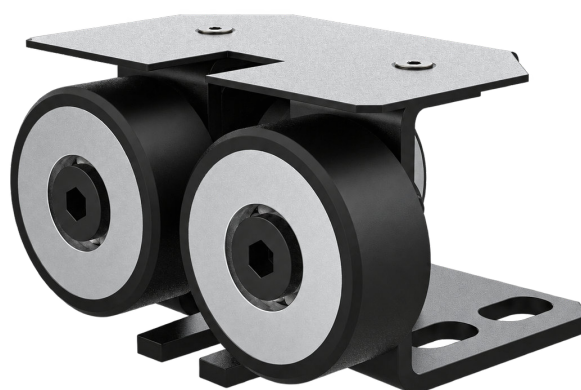


SG 滑动导向

SG sliding guidance

紧凑结构、耐冲击、频繁启停

Compact layouts, impact loading and frequent starts/stops

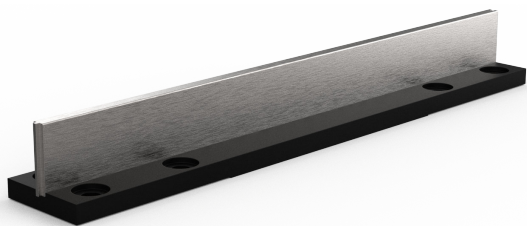


GL 滚轮导向器

GL Roller Guide

平稳运行、长行程、连续运行

Smooth motion, long travel and continuous operation



T75 / T89 导轨平台

Shared guide rail platform

配合关系示意，非真实比例。
具体型号及适用工况需核对。

Compatibility overview, not to scale.
Confirm model and operating conditions.

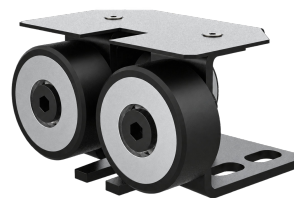
SG 与 GL 导向选择

SLIDING & ROLLER GUIDANCE



SG 直线滑块

Linear sliders



GL 滚轮导向器

Roller Guide

选型项目 Selection item	SG 直线滑块 Linear sliders	GL 滚轮导向器 Roller Guide
工作方式 Guiding method	滑块与导轨滑动接触 Sliding contact with the rail	滚轮沿导轨运行 Rollers running along the rail
推荐工况 Suggested conditions	紧凑、耐冲击、频繁启停 Compact, impact loading, frequent stops	平稳、长行程、连续运行 Smooth motion, long travel, continuous use
最大速度 Maximum speed	1.0 m/s	1.75 m/s
最大受力范围 Max. force by model	600–2000 N	800–1500 N
适用温度 Operating temperature	-5 ~ 80 °C	-5 ~ 50 °C
配用导轨 Compatible rails	T75 / T89	T75 / T89
润滑 Lubrication	无需油润滑 No oil lubrication required	无需油润滑 No oil lubrication required

选型时重点核对

Engineering checks

受力方向与峰值、速度与行程、安装空间及接口、环境与维护条件。

Force direction and peaks; speed and travel; mounting space and interfaces; ambient and maintenance conditions.

型号参数与选型入口

MODEL DATA & SELECTION

先比较受力与速度，再核对安装尺寸。
Compare force and speed, then check the mounting dimensions.

型号 Model	最大受力 Fx Max. force Fx	最大受力 Fy Max. force Fy	最大速度 Max. speed
SG15	600 N	600 N	1.0 m/s
SG16	1000 N	1000 N	1.0 m/s
SG17	1500 N	1500 N	1.0 m/s
SG17A	2000 N	2000 N	1.0 m/s
SG18	1000 N	1000 N	1.0 m/s
GL76	1500 N	1500 N	1.75 m/s
GL76A	800 N	800 N	1.75 m/s

寿命与维护参数

Service life & maintenance data

系列 Series	寿命参数 Service life data	维护周期 Maintenance interval
SG	滑块衬板 24 个月 / 底座 5 年 Liner: 24 months / Base: 5 years	30 天 30 days
GL	滚轮 24 个月 / 底座 5 年 Roller: 24 months / Base: 5 years	30 天 30 days

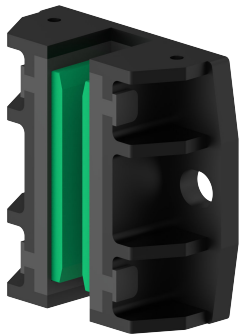
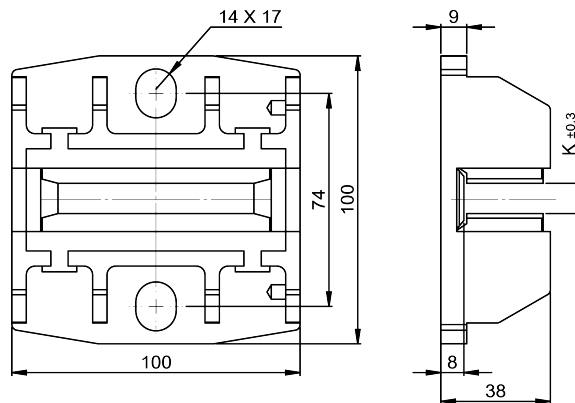
表列为型号最大受力；适用条件与安装尺寸需分别核对。
Maximum forces by model. Verify operating conditions and mounting dimensions.

SG15 / SG16 / SG17

LINEAR SLIDERS

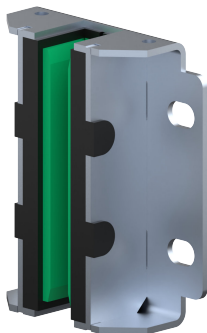
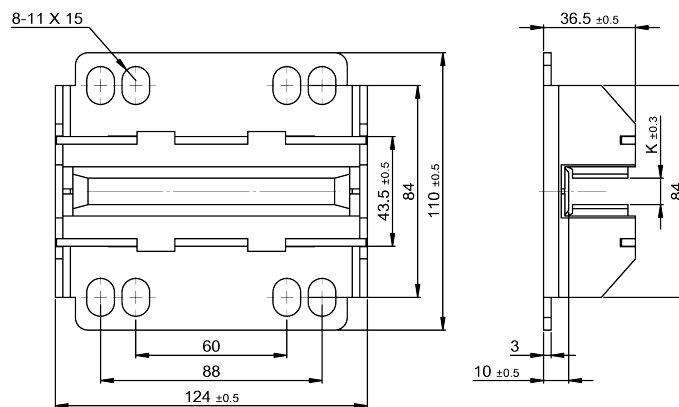
SG15

$F_x = F_y = 600 \text{ N}$



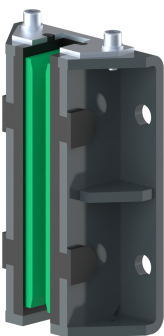
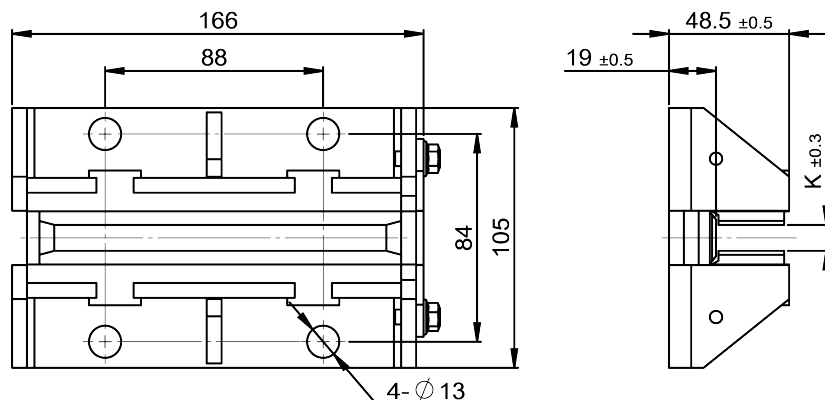
SG16

$F_x = F_y = 1000 \text{ N}$



SG17

$F_x = F_y = 1500 \text{ N}$



最大受力见各型号; 1.0 m/s; T75 / T89; 无需油润滑。

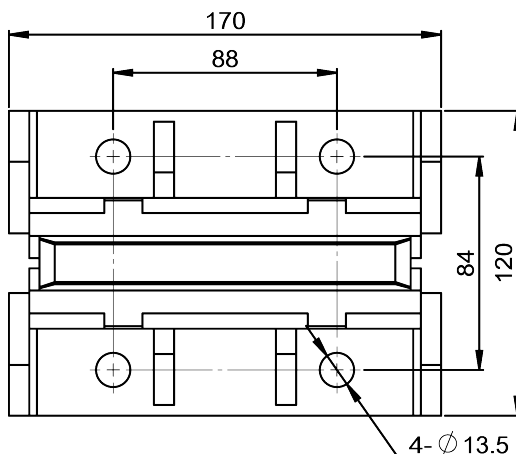
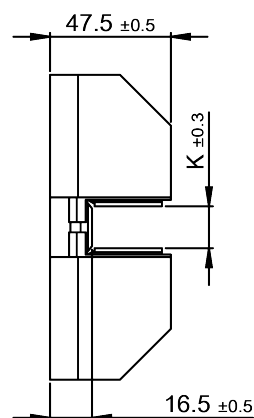
Max. force shown by model; 1.0 m/s; T75 / T89; no oil lubrication.

SG17A 与 SG18

SG17A & SG18 LINEAR SLIDERS

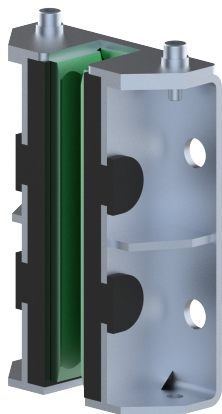
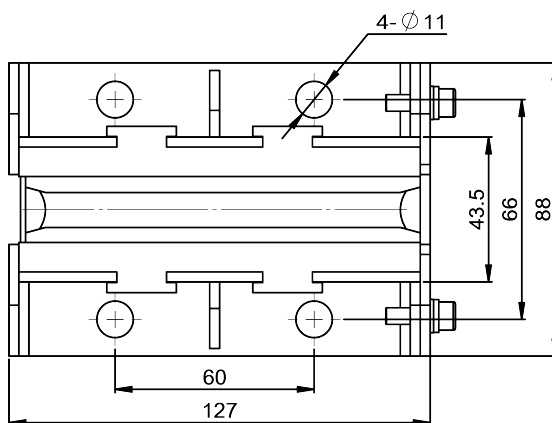
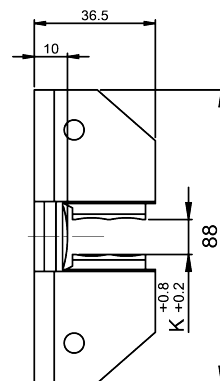
SG17A

最大受力 / Max. force 2000 N



SG18

最大受力 / Max. force 1000 N



共同参数 / Common data	规格 / Specification
最大速度 / 配用导轨 Max. speed / Compatible rails	1.0 m/s; T75 / T89
适用温度 / 维护周期 Temperature / Maintenance interval	-5 ~ 80 °C; 30 天 / days

SG17 / SG17A: 孔距 88 × 84 mm; 孔径分别为 4-Ø13 / 4-Ø13.5。

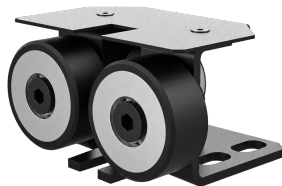
SG17 / SG17A: hole centres 88 × 84 mm; diameters 4-Ø13 / 4-Ø13.5 respectively.

GL76 与 GL76A

GL76 & GL76A ROLLER GUIDE

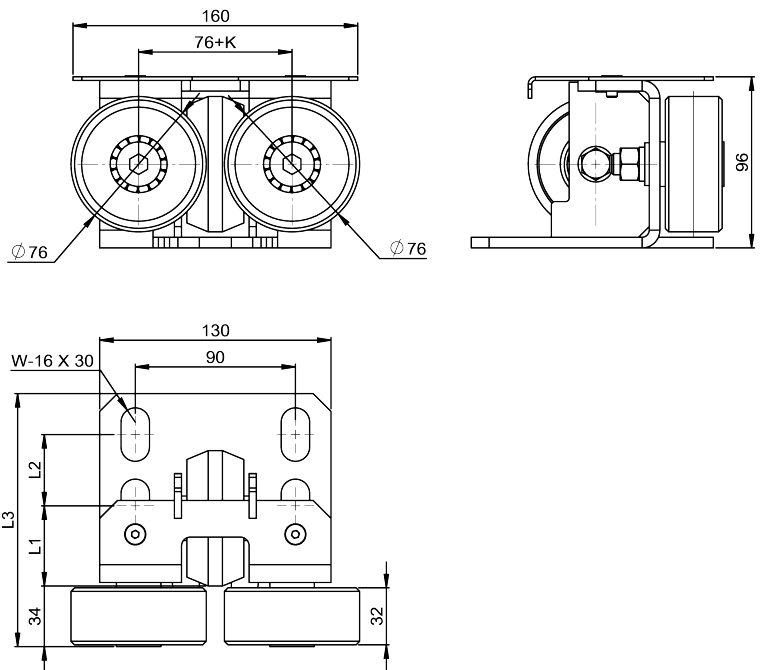
GL76

$F_x = F_y = 1500 \text{ N}$



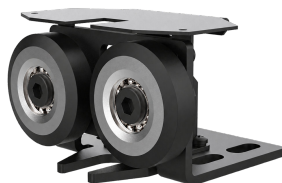
尺寸规格 / Dimensions (mm)

规格 / Type	L1	L2	L3	W	导轨宽度 Rail width
P1	45	40	142	4	10
P2	45	40	142	4	16
P3	57	0	112	2	10
P4	57	0	112	2	16



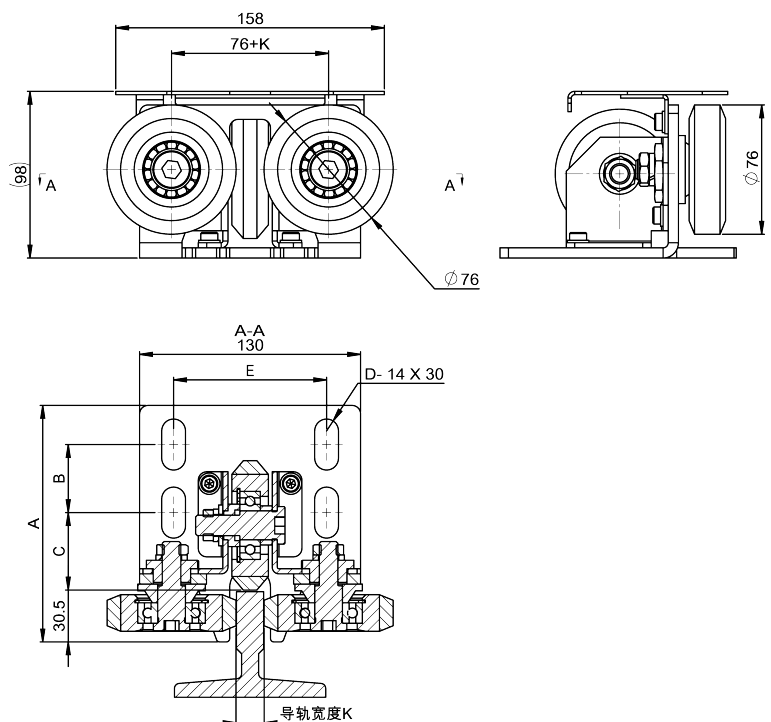
GL76A

$F_x = F_y = 800 \text{ N}$



尺寸规格 / Dimensions (mm)

Dim.	G01	G02	G03	G04	G05	G06
A	45.5	45.5	57.5	57.5	57.5	57.5
B	40	40	0	0	0	0
C	139	139	109	109	109	109
D	4	4	2	2	2	2
E	90	90	90	90	100	100
K	10	16	10	16	10	16



共同参数: 1.75 m/s; -5 ~ 50 °C; 维护 30 天; T75 / T89. K 为导轨宽度。

Common: 1.75 m/s; -5 to 50 °C; 30-day maintenance; T75 / T89. K = rail width.

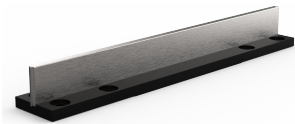
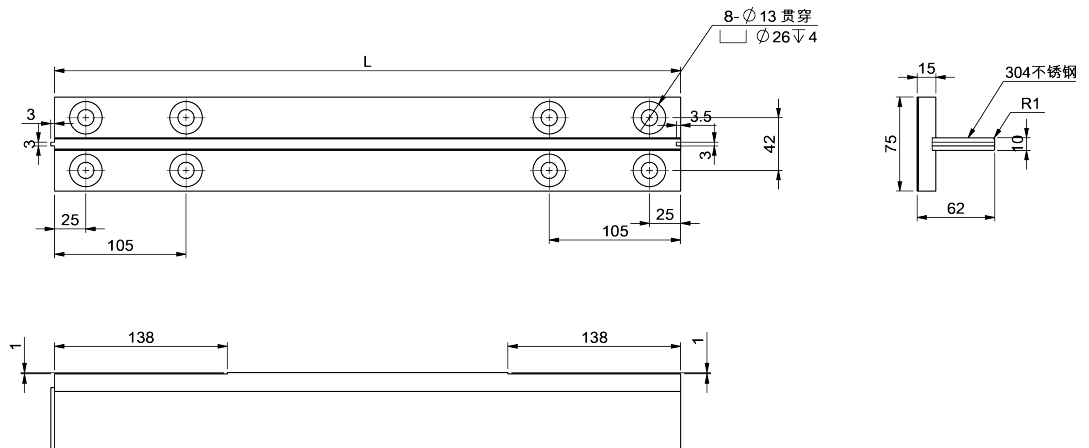
导轨平台与表面工艺

GUIDE RAIL PLATFORM & FINISH OPTIONS

T75

导轨宽度 75 mm

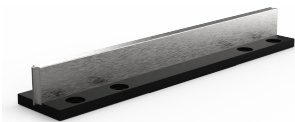
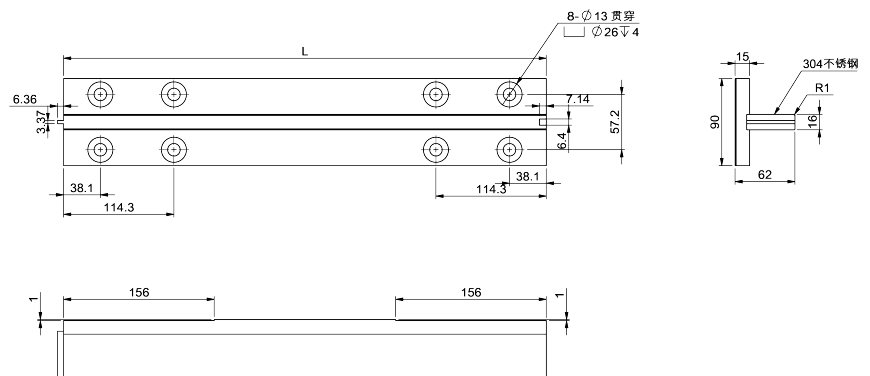
Rail width 75 mm



T89

导轨宽度 90 mm

Rail width 90 mm



图示导轨：材料与表面

Rails shown: material & finish

304 不锈钢工作面；A3 碳钢底座，黑色喷塑。单段最长 2 m，L 为单段长度。

304 stainless working face; A3 steel base, black powder coat. Max. 2 m per section; L denotes length.

常规导轨：可选镀铬或发黑工艺，单段最长 2 m。

Conventional guide rails: chrome-plated or black oxide finish; max. 2 m per section.

连接与安装

Joining & mounting

段间用连接板；底座开孔螺栓固定，或用专用压导板。

Join sections with connecting plates. Mount through base holes with bolts, or use dedicated clamps.

推荐应用与工程确认

SUGGESTED APPLICATIONS & ENGINEERING CHECKS

从运动方式与工况开始选型

Start with the motion and operating conditions

01 工业升降与物料提升

Industrial lifting & material handling

型号 · 峰值载荷 · 速度 · 行程 · 导轨长度

Model · Peak load · Speed · Travel · Rail length

02 重型门体与大型防护机构

Heavy doors & large guarding systems

冲击 · 启停频次 · 粉尘 · 维护

Impact · Start-stop cycles · Dust · Maintenance

03 仓储物流与堆垛设备

Warehouse logistics & stackers

长行程 · 连续运行 · 平稳性

Long travel · Continuous duty · Smooth motion

04 专用机械与自动化设备

Special-purpose machinery & automation

安装空间与方向 · 受力方向 · 接口

Mounting space / orientation · Force direction · Interfaces

询价请提供上述工况；订货前确认型号、导轨及安装图纸。以上为推荐方向，非客户案例。

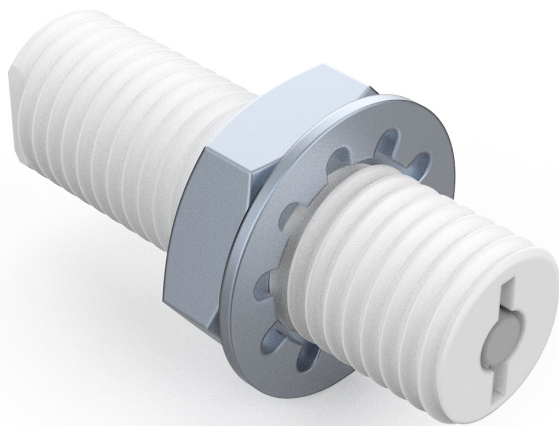
Provide these conditions for enquiries; confirm models, rails and mounting drawings before ordering. Suggested applications, not customer case studies.

M100 直线滑块磨损到限监测

M100 LINEAR SLIDER WEAR LIMIT MONITORING

磨损达到设定位置时发出到限信号，为检查与更换滑块衬板提供提示。

Signals when wear reaches the preset limit, prompting liner inspection and replacement.



0.5—3

mm

磨损厚度报警设定范围

Wear-depth alarm setting range

可定制；设定值与公差需确认。

Custom settings; confirm setpoint and tolerance.

直线滑块安装

Linear slider installation

底面与两侧翼分别设置磨损头，监测对应部位。

外形与安装规格为 M12 × 40 mm，结合直线滑块结构核对安装位置和空间。

Place sensors at the bottom and side wings to monitor the respective areas.

Dimensions / mounting: M12 × 40 mm. Check installation position and clearance.

单独磨损头

Sensor only

客户配套控制器及报警装置。

Customer-supplied controller and alarm.

配套监测系统

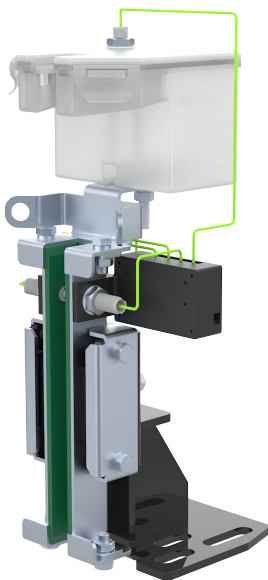
Optional monitoring system

支持本地声光提示与 Y0 输出。

Local visual/audible alarm and Y0 output.

技术参数与配套功能

TECHNICAL DATA & MONITORING OPTIONS



配套系统安装示意

Monitoring system installation illustration

询价需提供滑块/衬板结构、安装空间、报警设定及供货方式；其他滑块需评估适配。

For enquiries: slider / liner geometry, space, alarm setting and supply scope. Assess compatibility with other sliders.

直线滑块报警：红灯、急鸣；油杯报警：黄灯、慢鸣。

Linear slider: red light / fast beep. Oil cup: yellow light / slow beep.

单独磨损头 / Sensor only	规格 / Specification
供电电压 / Supply	DC 2.5–24 V
信号输出 / Output	NMOS 开漏，触发后拉低，需外接上拉 NMOS open-drain, active low; external pull-up required
外形与安装 / Dimensions & mounting	M12 × 40 mm M12 thread; 40 mm length
报警设定 / Alarm setting	滑块衬板磨损厚度 0.5–3 mm，可定制 Liner wear depth: 0.5–3 mm; custom settings available
触发后处理 / After activation	一次性触发，触发后更换磨损头并复核报警 One-shot activation; replace sensor and verify the alarm

报警设定范围为 0.5–3 mm，具体设定值及适用工况需结合实际应用确认。

Alarm setting range: 0.5–3 mm. Confirm the setpoint and operating conditions for the intended application.

配套控制板

Optional control board

DC 24 V ±10%; 3 路磨损输入；可选 1 路油杯液位检测。

DC 24 V ±10%; 3 wear inputs; optional oil-cup level input.

对接与报警

Interface & alarms

订货前核对控制器输入、报警接口；Y0 通断输出逻辑需联调。

Confirm controller input and alarm interface; test Y0 on/off logic.

UPE 背胶材料

ADHESIVE-BACKED UHMW-PE

超高分子量聚乙烯，用于耐磨衬层、滑动接触面与表面保护。

Ultra-high-molecular-weight polyethylene for wear liners, sliding interfaces and surface protection.



卷材

Rolls

0.2 / 0.5 / 1.0 mm

板材

Sheets

2.0 mm

耐磨衬层

Wear liners

低摩擦滑动

Low-friction sliding

表面保护

Surface protection

推荐用于直线滑块衬层、输送滑槽及设备接触面；需按实际载荷、速度及环境验证。

Suggested for rail liners, conveyor chutes and equipment contact surfaces. Validate suitability under actual conditions.

背胶选择与供货规格

ADHESIVE OPTIONS & SUPPLY SIZES

两种背胶选择

Two adhesive options

背胶方案 Adhesive option	对不锈钢剥离强度 Peel strength on stainless steel	使用温度 Operating temperature
普通背胶 Standard adhesive	12 N/100 mm	-34 ~ 85 °C
强粘背胶 High-bond adhesive	75 N/100 mm	-34 ~ 85 °C

表列为选型参考值，尚待最终确认；实际粘接性能及温度适用性需结合基材与工况验证。

Selection reference values, pending final confirmation. Verify bonding performance and temperature suitability for the actual substrate and conditions.

普通背胶用于常规粘接，强粘背胶用于较高粘接强度需求；均需试贴。询价请提供厚度、裁切尺寸、基材、背胶选择及载荷、速度、温度、接触介质。

Standard adhesive for general bonding; high-bond for stronger bonding. Trial on the actual substrate. For enquiries: thickness, cut size, substrate, adhesive, load, speed, temperature and contact media.

四种厚度规格

Four thickness options

0.2 mm	0.5 mm	1.0 mm	2.0 mm
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UPE 厚度 UPE thickness (mm)	含胶总厚度，不含离型纸 Total with adhesive, excluding release liner (mm)	最大供货尺寸 Maximum supply size
0.2	0.25	100 mm × 50 m / 卷 / roll
0.5	0.55	100 mm × 50 m / 卷 / roll
1.0	1.05	100 mm × 50 m / 卷 / roll
2.0	2.05	1.0 × 2.0 m / 张 / sheet

可按要求裁切；四种厚度均有两种背胶可选。尺寸及裁切公差另行确认。

Cut-to-size available; both adhesives for all thicknesses. Confirm dimensions and cutting tolerances.



金甲虫

GOLDEN BEETLE

重型直线导向系统

Heavy-duty linear guiding solutions

直线滑块磨损到限监测

Linear slider wear limit monitoring

UPE 背胶材料

Adhesive-backed UHMW-PE

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