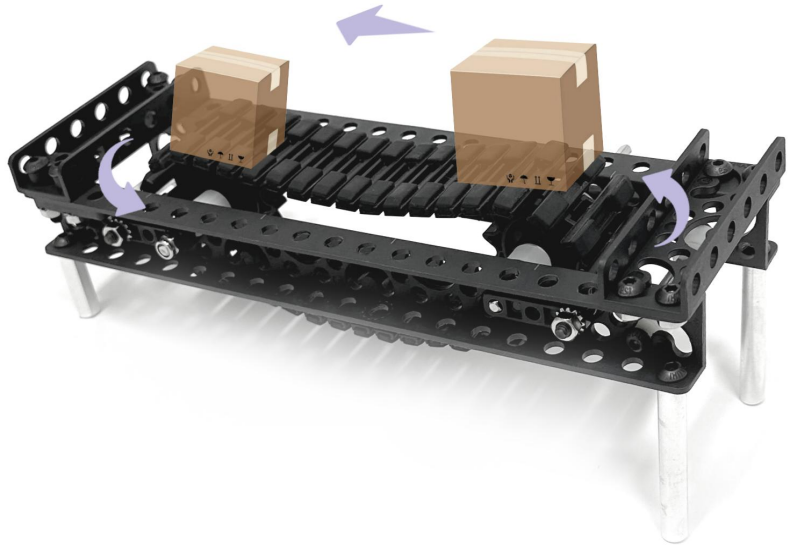
传送带

课程目标

- 认识“传送带”
- 设计制作一个传送带模型
- 测试模型，理解皮带传动的原理



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观察思考



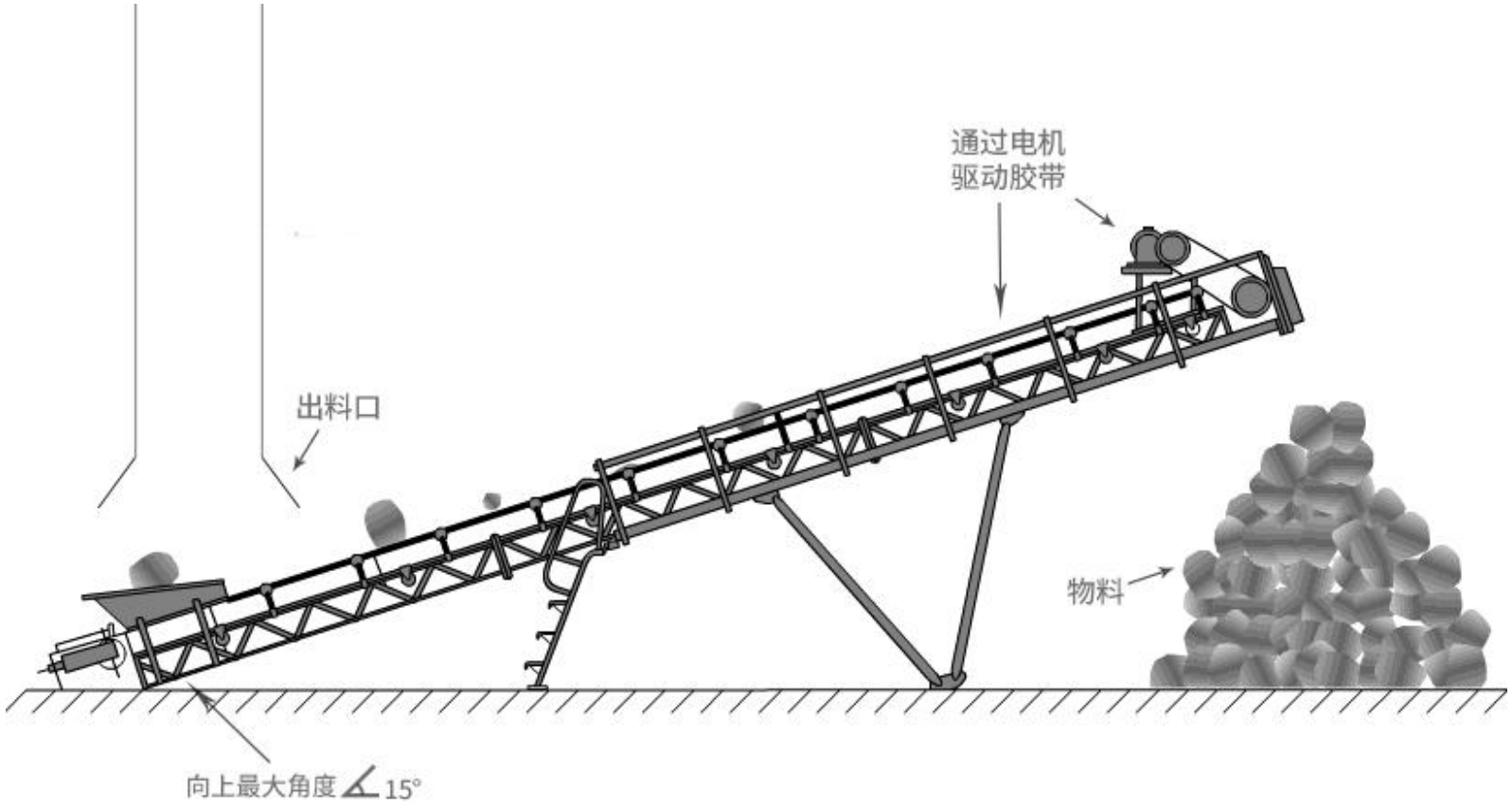
挑山工们肩负着沉重的担子，小心翼翼地向前行进。他们面临危险，因为一旦踩空就可能发生意外。

有没有什么方法可以帮助缓解挑山工的辛劳呢？你有什么好的想法吗？

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观察思考

传送带结构分析



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动手做

任务

设计制作一个传送带模型

要求：

1、有稳定的传动结构，传送过程不卡顿；

2、能够从将重物从低处传送到高处。

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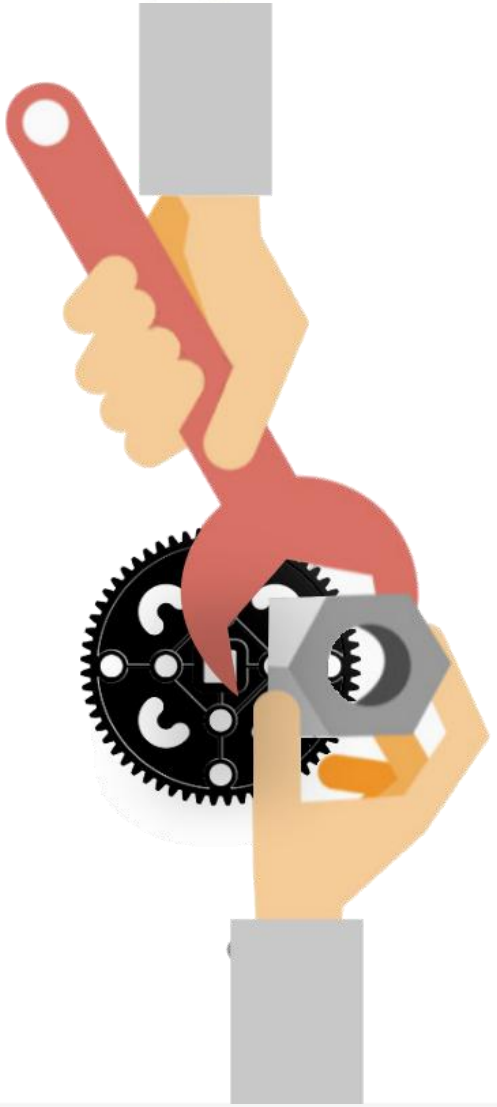
安全提示

（1）请小心使用坚硬、尖锐以及细小的零件。

（2）运行过程中，请勿触碰电机、齿轮等运动部位。

（3）在使用及充电的过程中，请注意用电安全。

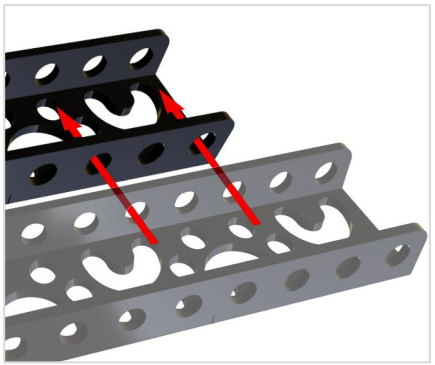




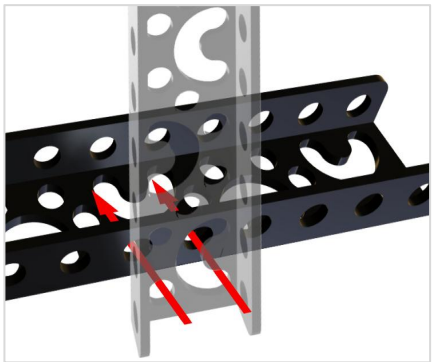
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搭建提示

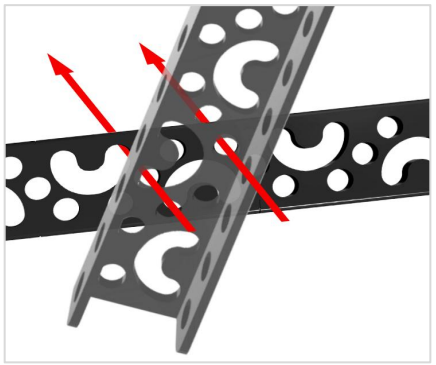
搭建结构的基本方式



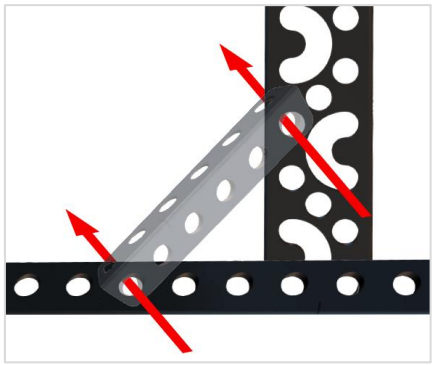
同方向 连接



垂直方向 连接



斜向 连接

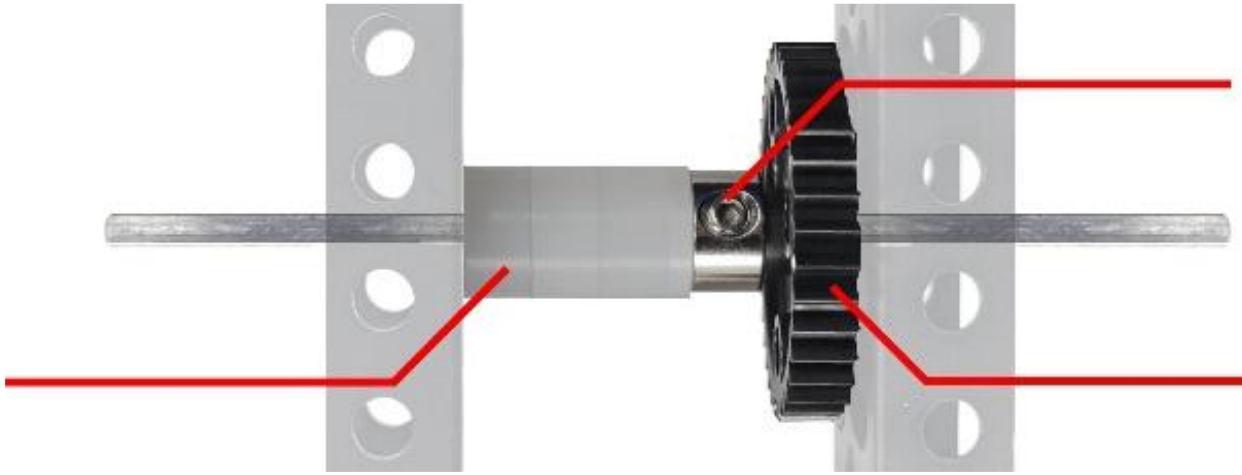


加固 连接

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搭建提示

垫片和细轴杯士的用法



拧紧细轴杯士 上的螺丝，来 **固定** 细轴的位置

使用 **垫片** 填充 **空隙**，可减少轴的晃动幅度

合理使用垫片和细轴杯士，可使齿轮或车轮 **平稳转动**

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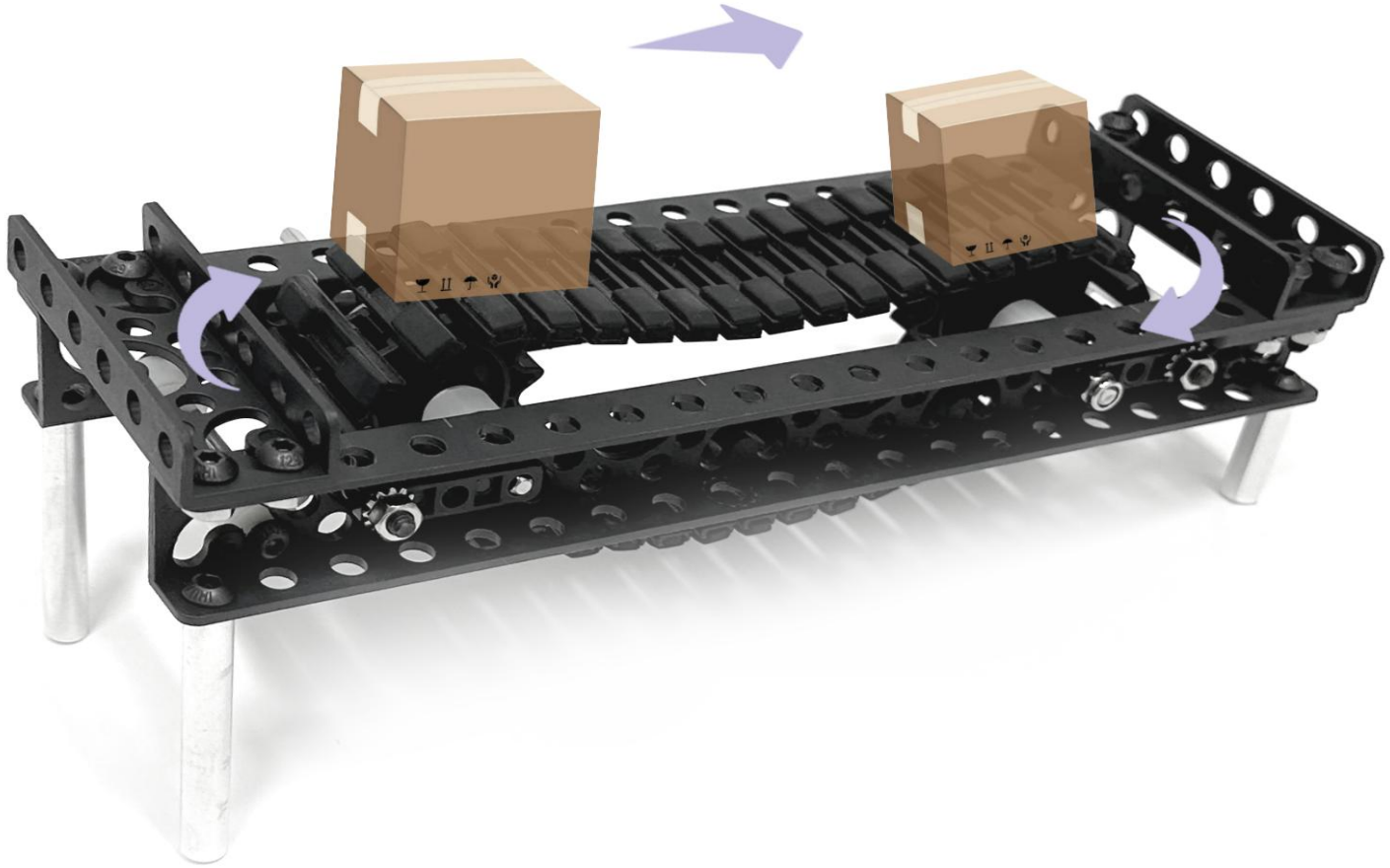
传送带参考模型





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传送带参考模型



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动手做

挑山工人使用了最新的传送带，工作很快就要完成啦！

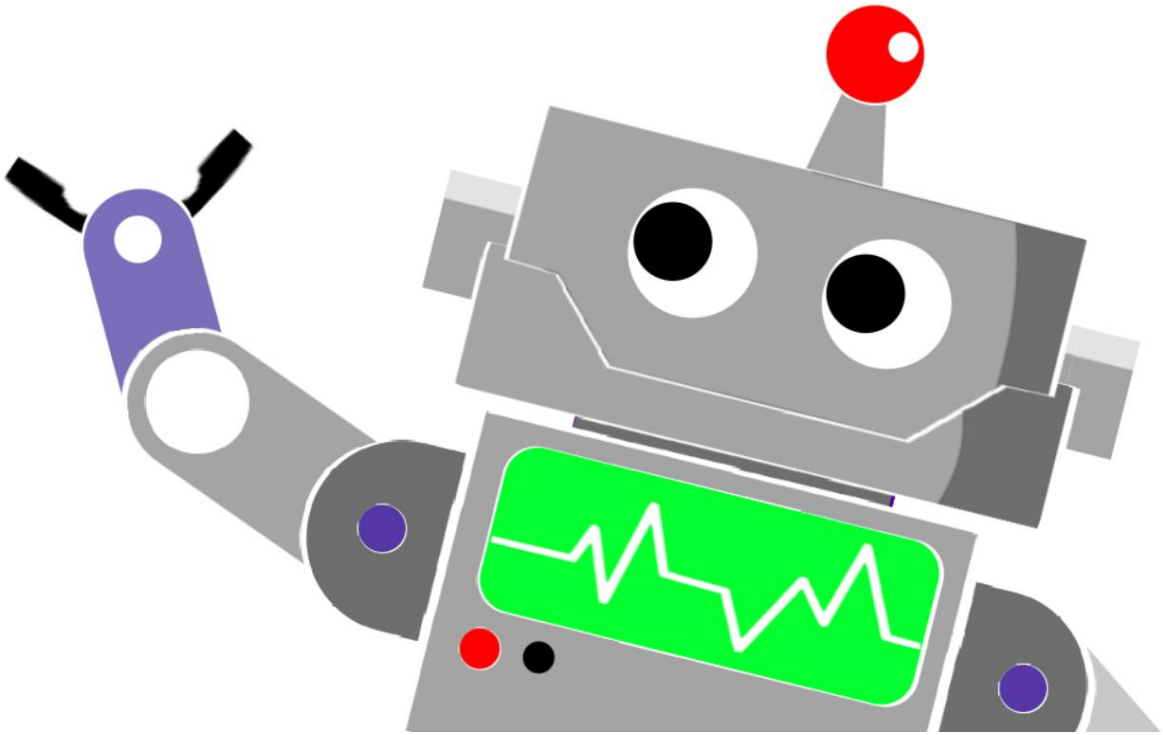




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反思总结

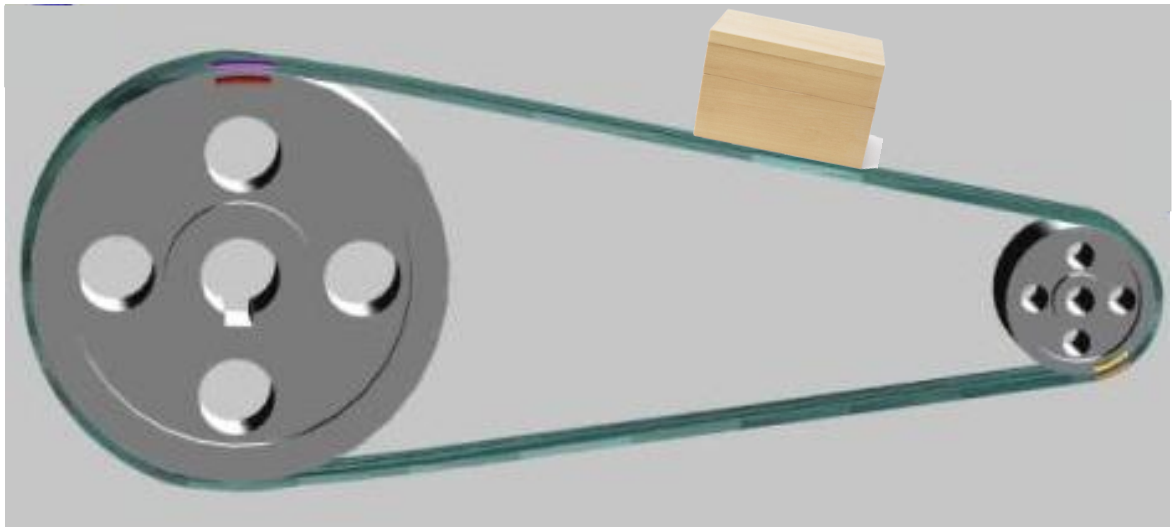
想一想，传送带是如何实现远距离传送功能的呢？



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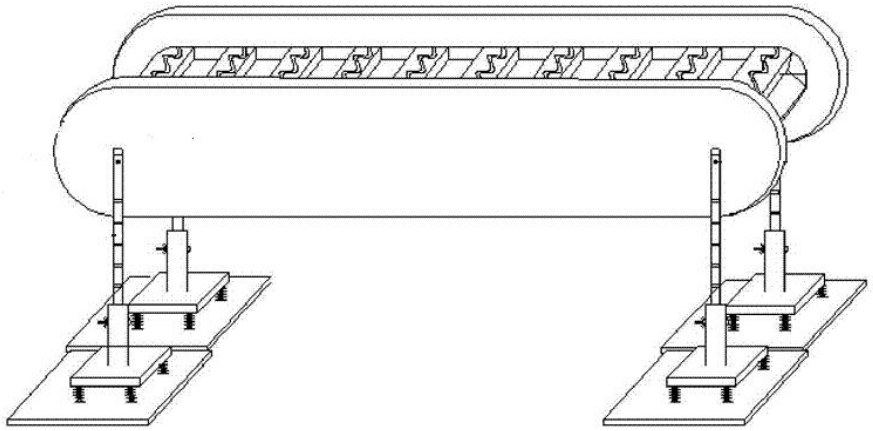
反思总结

传送带的皮带传动



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反思总结



皮带传动的特点有：

优点：传动距离长、平稳噪音小、有过载保护、结构简单、成本低。

缺点：传动精度低、皮带易磨损。

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反思总结

下列哪些不属于皮带传动的优点（　　）

A、噪音小　　B、过载保护

C、成本低　　D、容易打滑

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反思总结

下列哪些不属于皮带传动的优点（　D　）

A、噪音小

B、过载保护

C、成本低

D、容易打滑

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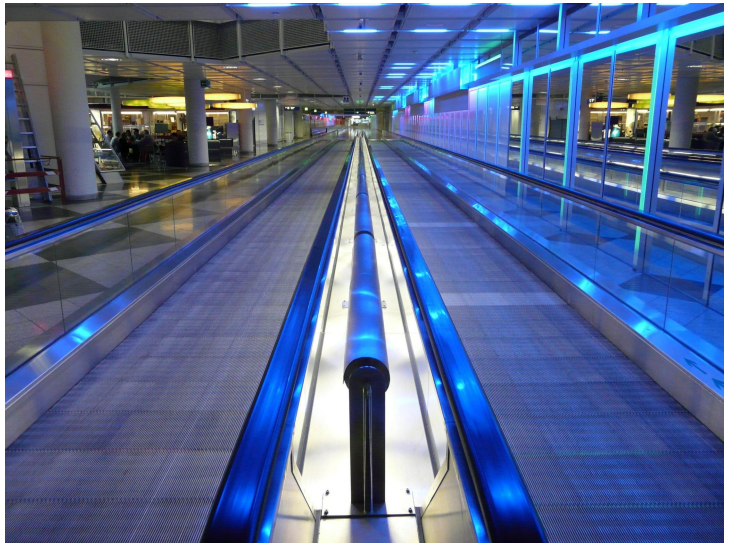
在生活中还有哪些皮带传动?



刮板式传动带



自动扶梯式传送带



自动人行道式传送带

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反思总结

总结

传送带装置的优缺点都有哪些?

你的模型有多长的传送距离？物品可以顺利运送到目的地吗?

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STEAM 创意课堂

下节课见

