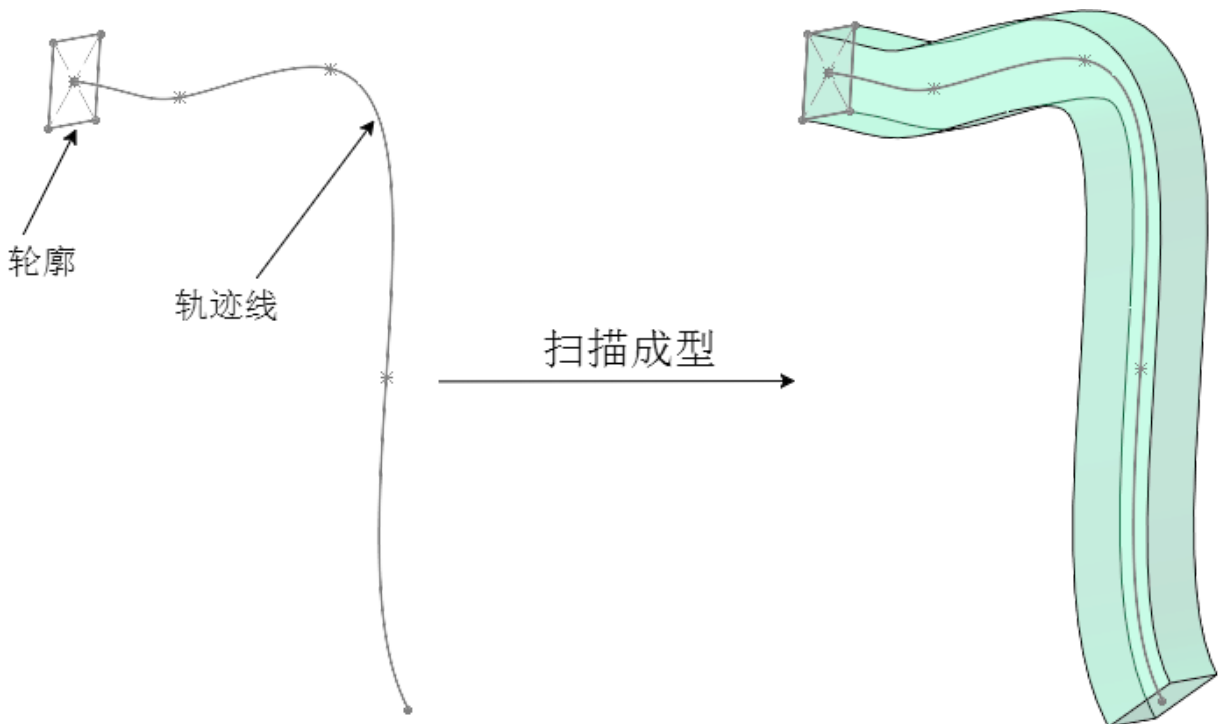


## 🔹 13. 扫描ExtrudeGeometry

通过 `ExtrudeGeometry` 除了可以实现拉伸成型，也可以让一个平面轮廓 `Shape` 沿着曲线扫描成型。

查看案例源码，你可以看到 `ExtrudeGeometry` 的一个扫描变换案例。



### 1.扫描轮廓

```
// 扫描轮廓：Shape表示一个平面多边形轮廓
const shape = new THREE.Shape([
  // 按照特定顺序，依次书写多边形顶点坐标
  new THREE.Vector2(0,0), //多边形起点
  new THREE.Vector2(0,10),
  new THREE.Vector2(10,10),
  new THREE.Vector2(10,0),
]);
```

js

### 2.扫描轨迹

```
// 扫描轨迹：创建轮廓的扫描轨迹(3D样条曲线)
const curve = new THREE.CatmullRomCurve3([
  new THREE.Vector3( -10, -50, -50 ),
  new THREE.Vector3( 10, 0, 0 ),
  new THREE.Vector3( 8, 50, 50 ),
  new THREE.Vector3( -5, 0, 100)
]);
```

### 3.扫描造型

```
//扫描造型：扫描默认没有倒角
const geometry = new THREE.ExtrudeGeometry(
  shape, //扫描轮廓
  {
    extrudePath: curve, //扫描轨迹
    steps: 100 //沿着路径细分精度，越大越光滑
  }
);
```

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← [12. 拉伸ExtrudeGeometry](#)

[14. 多边形轮廓Shape简介](#) →