



# 机构的组成原理和结构分析

平面机构运动简图

——运动副及构件的画法



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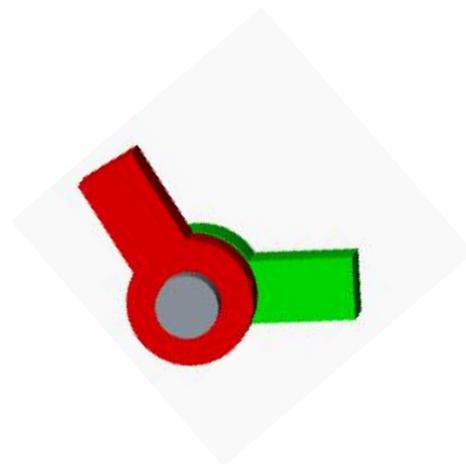
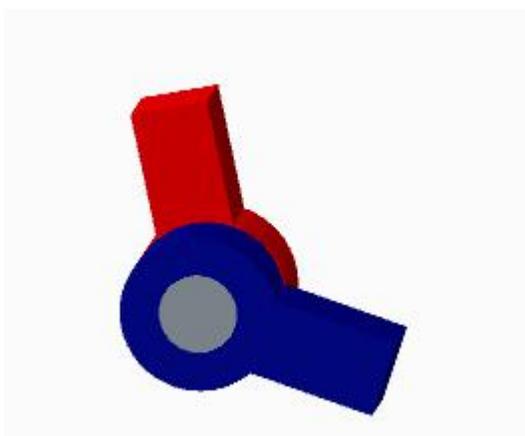
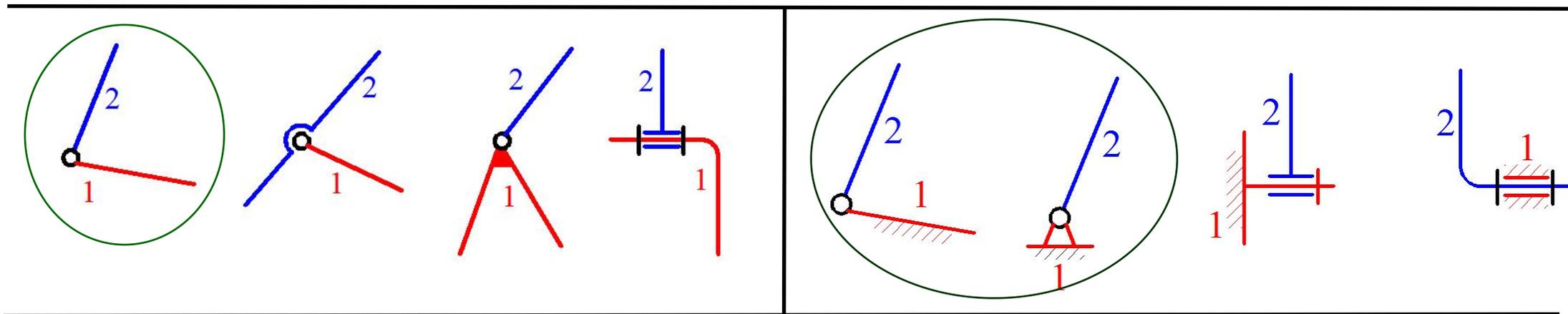
# 运动副及构件的画法

- ① 运动副的画法
- ② 构件的画法

# 运动副的画法

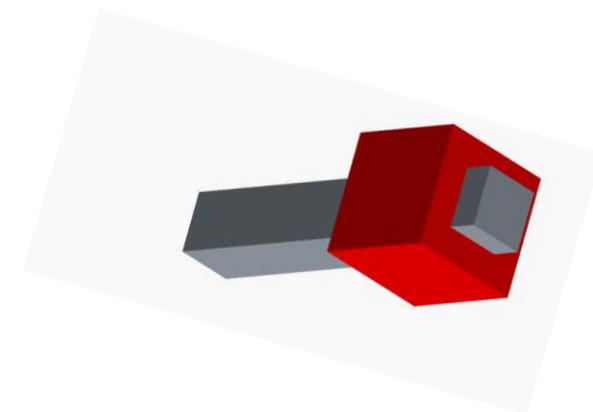
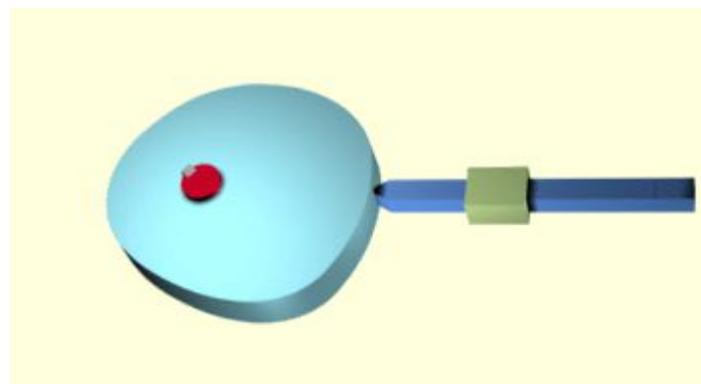
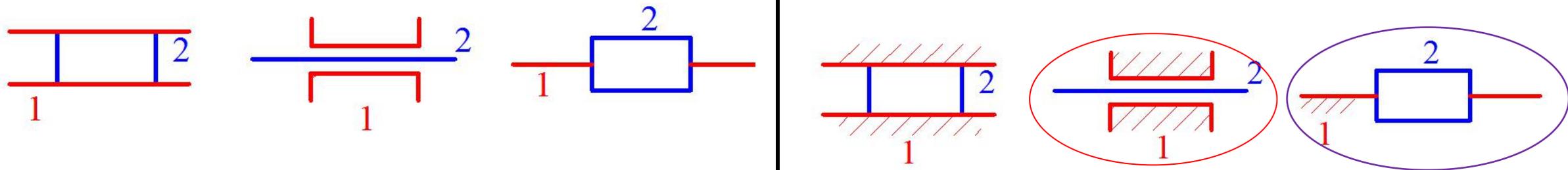
(GB/T4460—2013)

## 转动副



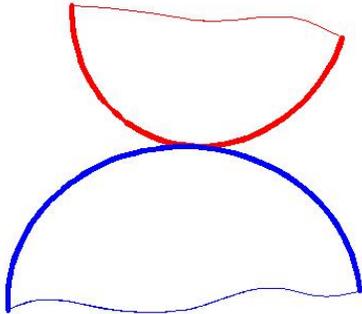
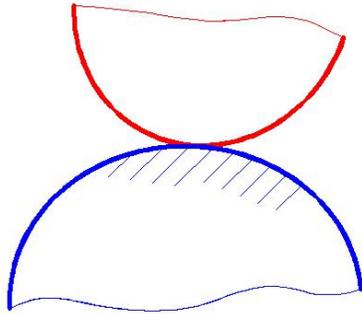
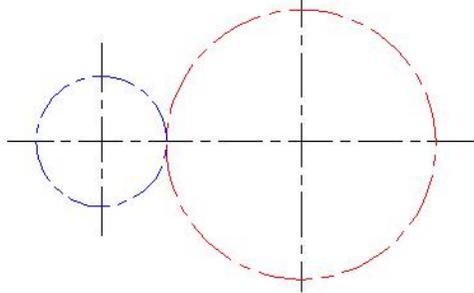
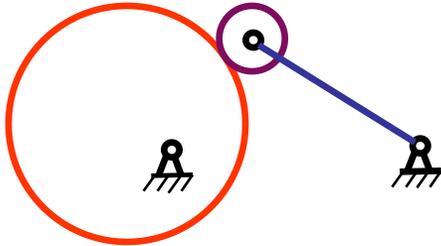
# 运动副的画法 (GB/T4460—2013)

## 移动副



# 运动副的画法 (GB/T4460—2013)

## 高副

普通曲线轮廓形成的高副	 A diagram showing two curved profiles, one red and one blue, in contact at a single point. The red profile is convex and the blue profile is concave.	 A diagram showing two curved profiles, one red and one blue, in contact at a single point. The blue profile is shaded with diagonal lines, indicating it is the ground link.
特殊构件形成的高副	 A diagram showing two circles, one blue and one red, in contact at a single point. Both circles have dashed lines and a crosshair indicating their centers.	 A diagram showing a large orange circle representing a link, with a pin joint (small purple circle) on its circumference. The pin joint is connected to a fixed frame (black symbol with hatching) on the right.

# 运动副符号 (GB/T4460—2013)

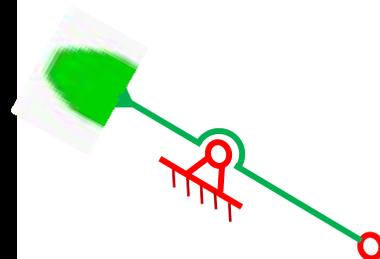
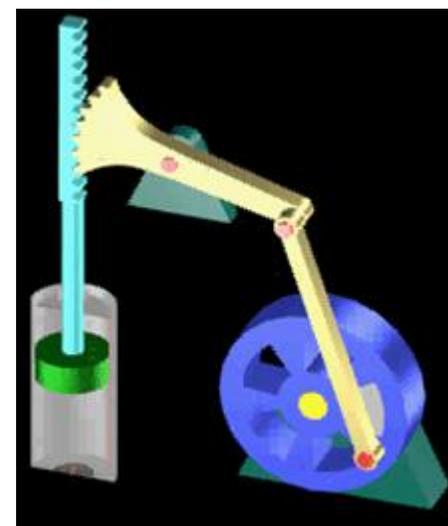
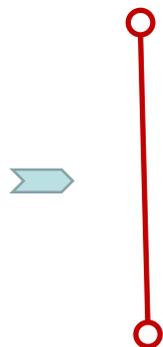
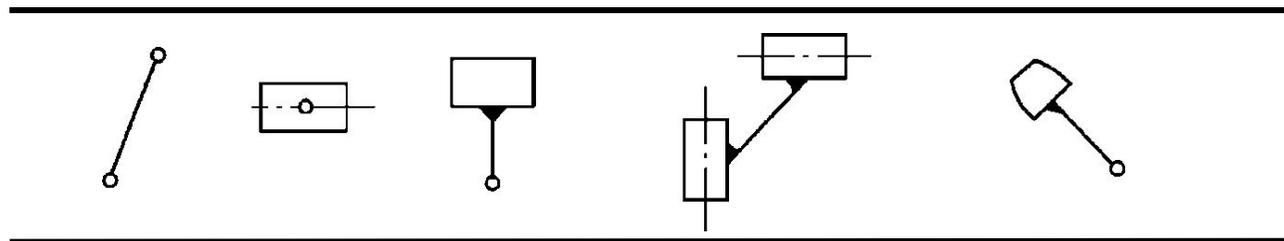
转动副					
移动副					
高副	一般高副				
	齿 轮 副 凸 轮 副				

# 构件的画法

忽略构件的材料、截面形状，用简单的线条代表构件，如：直线，长方形块等

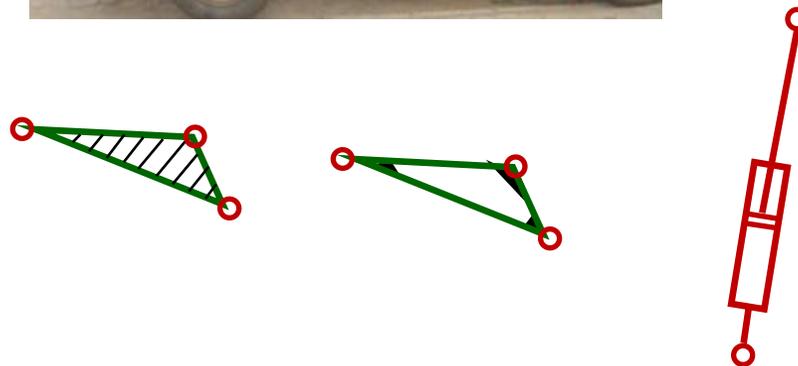
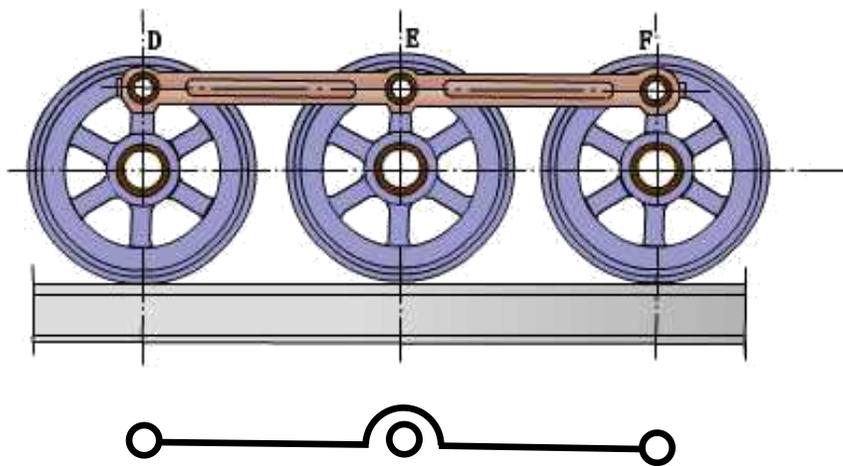
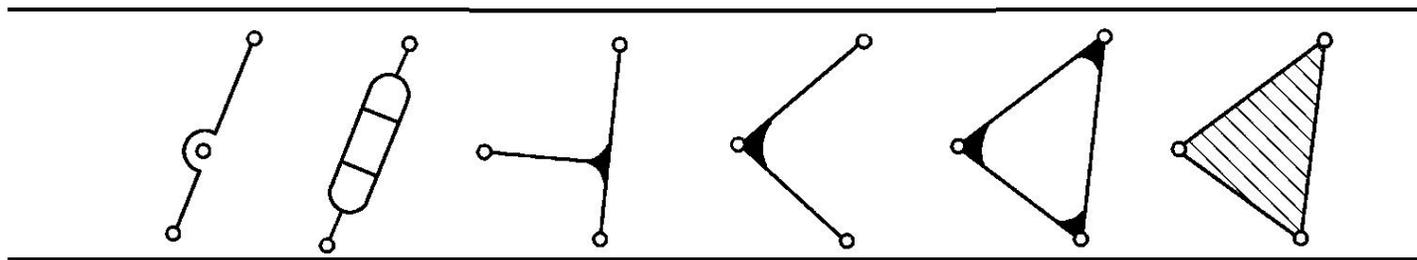
**简化可行吗？** 构件的外部形状、截面尺寸、运动副的内部结构与运动无关。

## 两副构件



# 构件的画法

## 三副构件

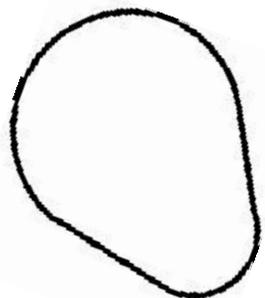
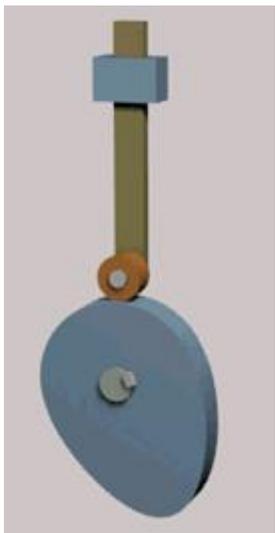


# 构件的画法

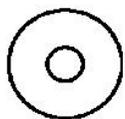
## 特殊构件的特殊规定

## 同一构件

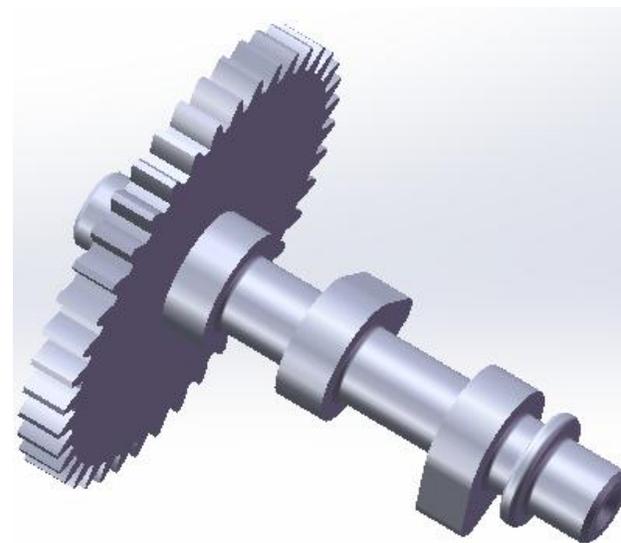
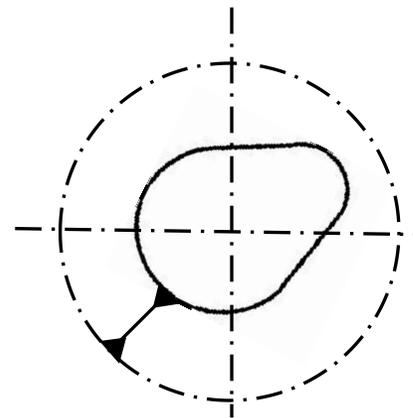
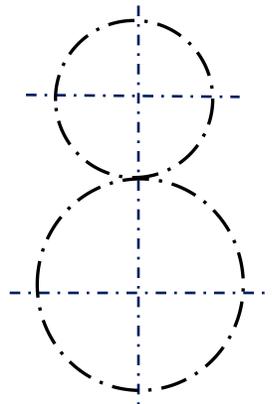
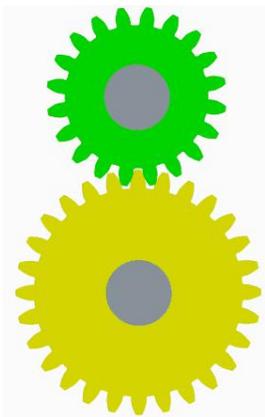
一对相互啮合的齿轮：用点划线或细实线画出两个齿轮的节圆



凸轮

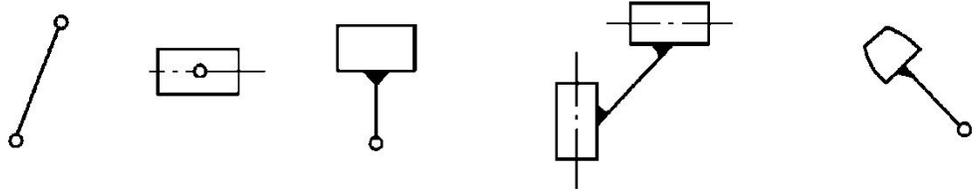
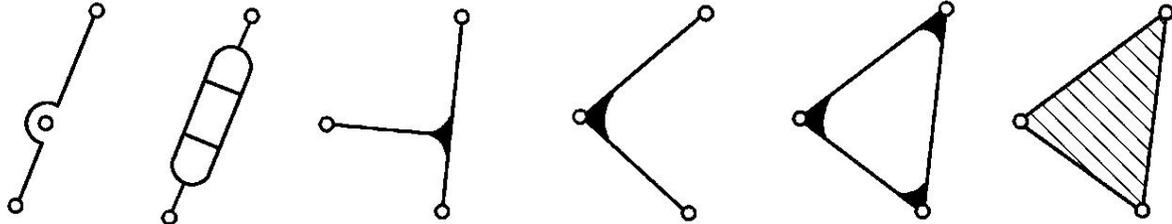
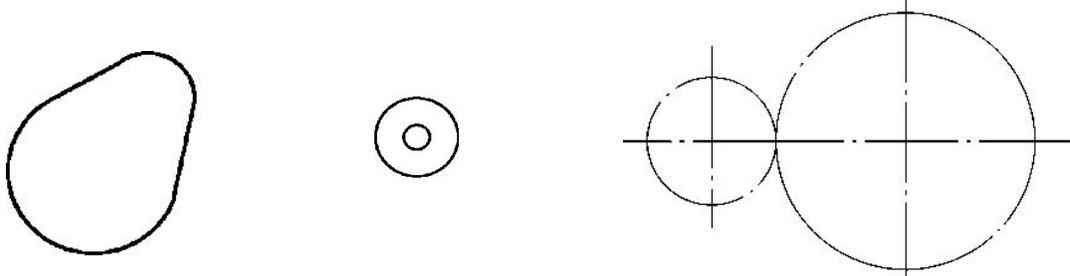


滚子



# 构件的画法

汇总:

两副 构件	
三副 构件	
特殊 构件	



**本讲结束**