

## Classifications of Bending Processes

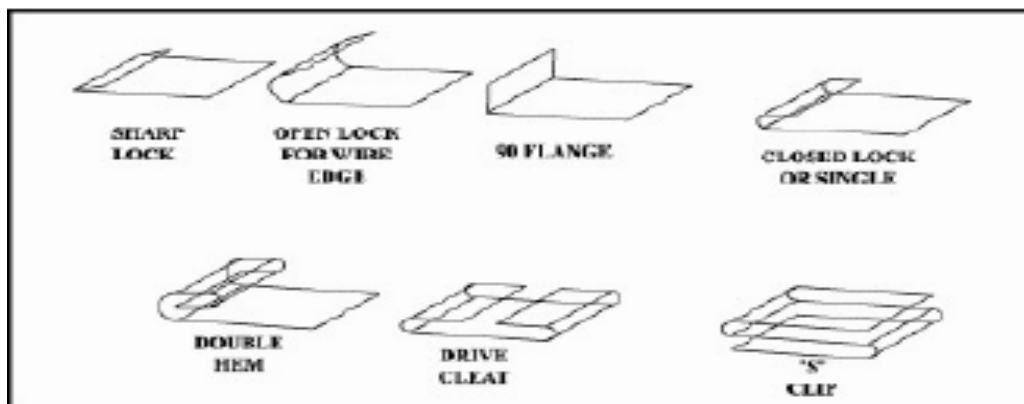
- Angle
- Straightening
- Roll Forming
- Draw and Compression
- Seaming
- Roll
- Flanging

### Roll Bending

Bending where plates, sheets and rolled shapes can be bent to a desired curvature  
Roll bending toll can bend plate up to 6 inches thick

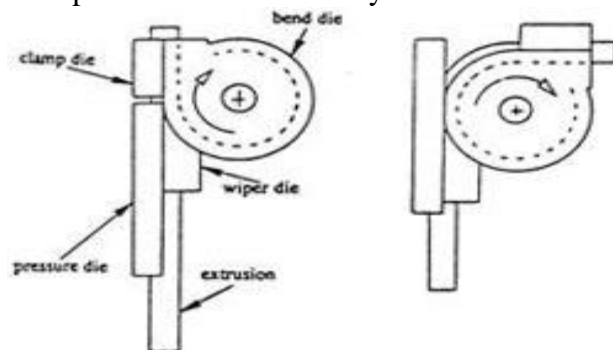
### Angle Bending

#### Profiles:



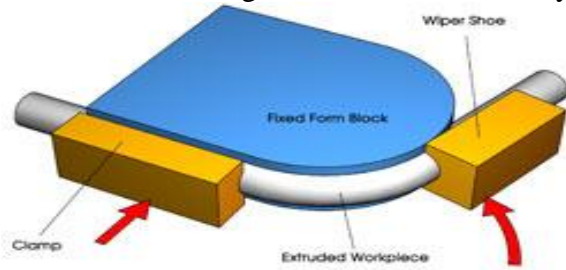
### Drawing Bending

Workpiece is clamped against a bending form and the entire assemble rotates to draw the workpiece across a stationary tool



## Compression Bending

The bending form remains stationary and the pressure tool moves along the workpiece



## Roll Forming

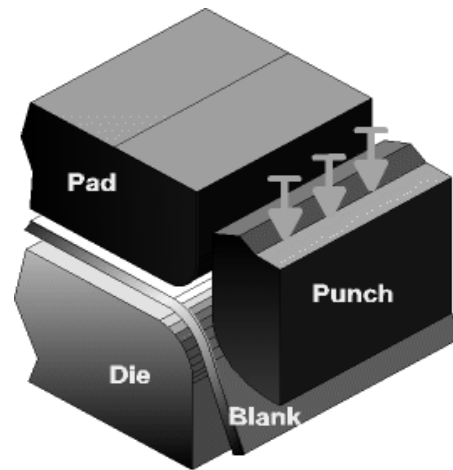
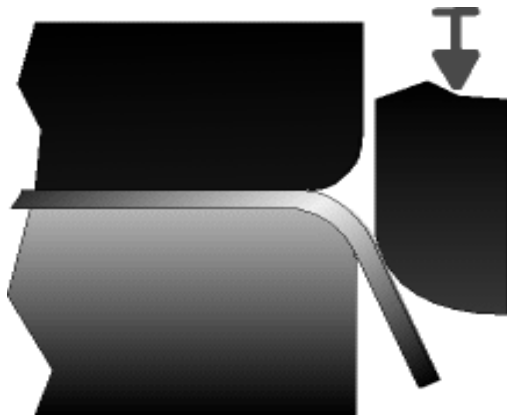
Involves the progressive bending of metal strip as it passes through a series of forming rolls  
Any material that can be bent can be roll- formed

## Seaming

- bending operation that can be used to join the ends of sheet metal to form containers such as cans, pails and drums

## Flanging

-the process of rolling on sheet metal in essentially the same manner as seaming



## Straightening

- also known as flattening
- opposite of bending

Drawing- Stretch forming

Sheet metal clamped along its edges and stretched over a die or form block in required directions.

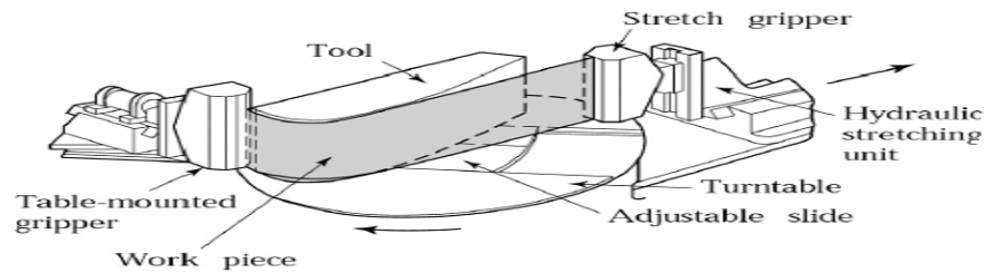


Fig: Schematic illustration of a stretch forming process. Aluminum skins for aircraft can be made by this process

Source : <http://nprcet.org/e%20content/mech/MT.pdf>