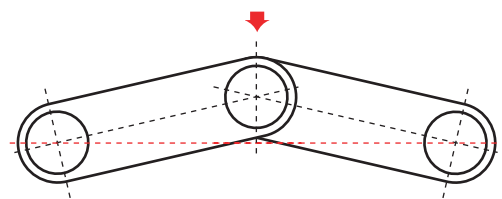


The **ULTIMATE** Production Aid!

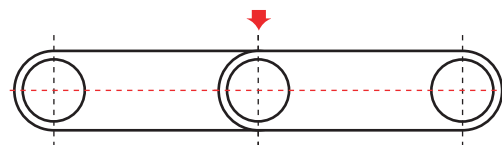
THE PRINCIPAL OF THE TOGGLE MECHANISM

A positive lock with a quick action release facility

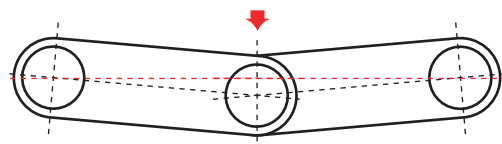
- The toggle mechanism is a method of using the mechanical advantage of a geometrical linkage to amplify the low operator input force to a high output clamping force.
- This is achieved using the over centre principal, which provides a positive lock, preventing the clamp from opening during work holding.
- These features make the toggle clamp most suitable for repetitive work holding applications, whilst allowing a wide clearance to load and unload the work piece.
- The over centre dimension is critical to the reliable function of the clamp, ensuring that the linkage locks sufficiently to allow the maximum output force even under arduous conditions.



Centre position



Before centre position



Over centre position

TECHNICAL INFORMATION

The forces generated by the toggle mechanism can be categorised into two groups;

Holding force

The force that the clamp can exert in the closed position without the clamp mechanism unlocking due to deformation of the linkage.

Clamping force

The force that the clamp mechanism can produce with the clamping spindle in a known fixed position in the clamp arm, from a known input force through the clamp handle. This force can be increased or decreased according to the position of the clamping spindle in the arm.