

Separation of stubborn joints for inspection and maintenance particularly those fitted with ring grooves or those with external forces acting on them are often difficult to separate. The use of hammers and wedges, chain blocks and lever bars can damage joint components and present a potential safety risk. TLP Wedge Spreaders and Flange Spreader are the ideal solutions.

## Hydraulic and Mechanical Wedge Spreaders

### Wedge Spreaders

Friction-free, smooth and parallel wedge movement with unique interlock wedge design. Eliminates flange damage and risk of spreading arm failure.

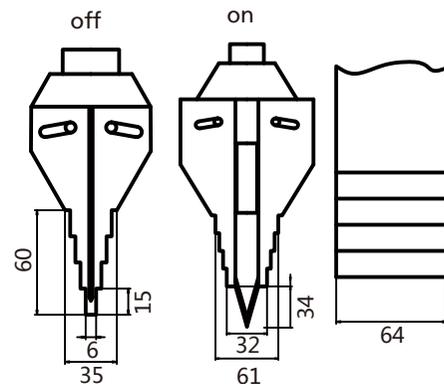
Stepped spreader arm design - each step can spread under full load  
 Requires very small access gap of only 6 mm  
 Includes safety block and stepped blocks



### Self-contained Hydraulic Wedge Spreader HHP-10

#### Characteristics:

- Manual hydraulic operation.
- Use stepped blocks to increase wedge opening up to 81 mm.
- Safe and reliable hydraulic system.



### Hydraulic Wedge Spreader HHP-1481

#### Characteristics:

- Operated by hydraulic pump with rated pressure of 700 bar.
- Use stepped blocks to increase wedge opening up to 81 mm.
- Supplied with R2 3/8 male coupler and dust cap.
- Operated by hydraulic pump with rated pressure of 700 bar.

