



# BOLTING TOOLS

# FLANGE

# SPREADERS



## Flange Spreaders

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 FS-14

##### Characteristics:

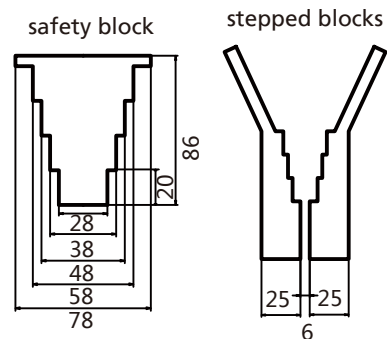
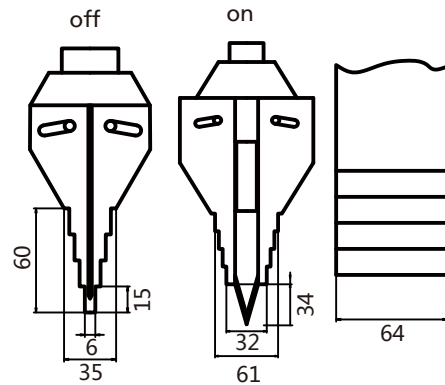
- Manual hydraulic operation.
- Use stepped blocks to increase wedge opening up to 81 mm.
- Safe and reliable hydraulic system.



#### Hydraulic Wedge Spreader FSH-14

##### 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.





## Mechanical Wedge Spreader FSM-8



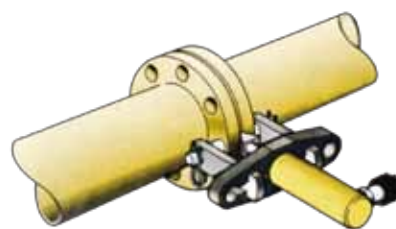
Model	Max.spreading force (Ton)	Tip clearance (mm)	Max.spread (mm)	Type	Oil capacity (cm <sup>3</sup> )	G.W. (Kg)	Packing size (mm)
FSM-8	8	6	77	Mechanical type	-	10.4	
FS-14	14	6	81	Hydraulic type	78	14	500x135x170
FSH-14	14	6	81	Hydraulic type	78	11	325x185x130

Note: use stepped blocks to increase wedge opening up to 81 mm

## Hydraulic Flange Spreaders

### Characteristics:

- Lightweight, ergonomic design for ease of use.
- Adjustable jaw widths from 70 to 216 mm for a wide range of applications.
- Single-acting, spring return.
- Supplied with R2 3/8 male coupler and dust cap.
- Operated by hydraulic pump with rated pressure of 700 bar.



ASA rating (bar)	Pipe size(mm)	
	HHP-538	HHP-1054
10	127-508	558-1066
20	63-355	406-711
27	63-304	355-609
35	63-254	304-508
62	12-152	203-406
103	12-88	101-203
172	12-63	76-101

Model	Max Flange thickness (mm)	Stud Size (mm)	Standard Wedge (mm)	Output Force (ton)	Stroke (mm)	Packing size (cm)	G.W. (kg)
HHP-538	2×57	19-28	3-28	5	38	24×23×10	6
HHP-1054	2×92	31-41	3-28	10	54	32×31×14	13.2

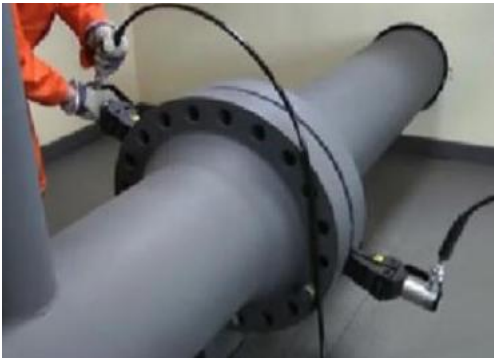


## Hand Hydraulic Flange Spreader

Model	FS-30	FS-55
Pump System	Integral Hydraulic Pump	Integral Hydraulic Pump
Cylinder Capacity	8 Ton	12 Ton
Max. Spread Force	1 Ton	2 Ton
Tip Clearance	9 mm	11 mm
Tip Width	26 mm	35 mm
Max. Spread	30 mm	55 mm
Packing Weight	4 kg	8 kg
Packing Dimension	450x190x90 mm	550x220x110 mm



## Hydraulic Flange Spreader Set



Working in unison from both sides



FSH-14-2

Model	FSH-14-2
Max. Spread Force	28 Ton (14 Ton x2)
Working Pressure	700bar 10000psi
Tip Clearance	6 mm
Max. Spread	81 mm
Oil Capacity	78ml / Spreader
Inside Package	Hydraulic Pump P142 x1
	FSH-14 Enerpac Model x2
	Thermoplastic Hose 3/8" 2m x3
	Coupler Set x6
	Manifold 2 Port x1
	Stepped Spreader x4
	Safety Block SB1 x2
Packing Weight	45 kg
Packing Dimension	725x640x285 mm