

Vertical Lifting Wedge

▼ Shown: LW-16 with SB-2 and optional LWB-1



LW Series

Minimum Clearance:

.39 inches

Maximum Lift Height:

2.02*-2.72* inches

Maximum Force:

16 tons

Maximum Operating Pressure:

10,000 psi



Best Match Manual Pump

To power your Enerpac Lifting Wedge, The Enerpac P-392 Hand Pump or P-392FP Foot Pump is an ideal choice.

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Split-Flow Manifolds

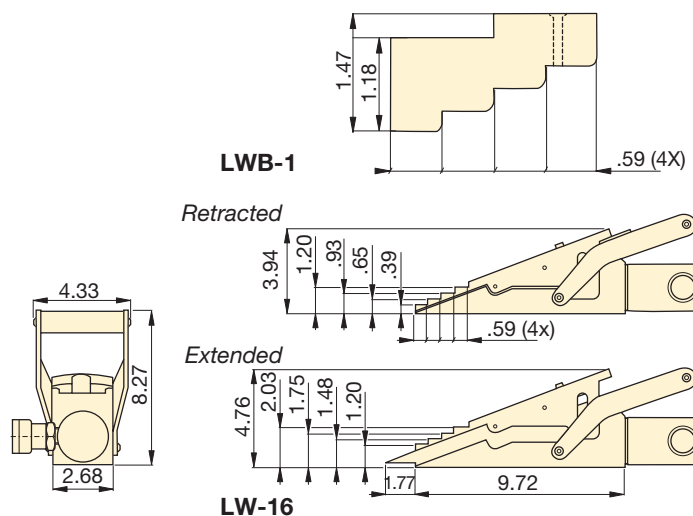
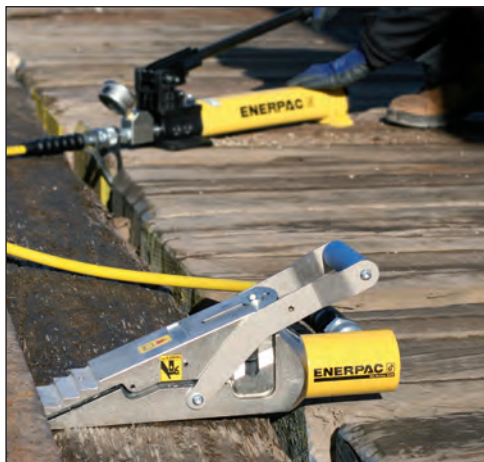
Split Flow Valves to control two or four lifting wedges simultaneously.

AM-21 with 3 ports 3/8" NPTF.
AM-41 with 5 ports 3/8" NPTF.

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- Requires .39 inch access gap
- Lifting force 16 ton at 10,000 psi hydraulic pressure
- Automatic mechanical retraction (single acting)
- Securely raises or lowers 16 tons with no slippage
- Lifting wedge LW-16 includes safety block SB-2
- Use in tandem to lift 32 tons, or 64 tons
- .83 inch of vertical lift from each step (maximum lift to 2.72 inches with optional LWB-1 stepped block)

▼ For lifting heavy equipment with minimum floor clearance the LW-16 is the ideal tool.



Max. Lifting Force (ton)	Model No.	Minimum Clearance Gap (in)	Max. Lift per Stage (in)	Max. Lifting Height (in)	Max. Lifting Height Using Stepped Block (in)	Oil Capacity (in ³)	Weight (lbs)
16	LW-16	.39	.83	2.02	2.72	4.75	15.4

* Use optional stepped block LWB-1 to increase wedge lifting height 1.18 inches.

Hydraulic Wedgie and Spread Cylinders

▼ Shown clockwise from top: **WR-15, WR-5, A-92**



A, WR Series

Capacity:
0.75-1.00 ton

Tip Clearance:
0.50-1.38 inches

Maximum Spread Range:
3.70-11.50 inches

Maximum Operating Pressure:
10,000 psi



RC-Series DUO Cylinders
10 ton RC-Series DUO cylinders (except RC-101) fit into A-92 Spreader Attachment.

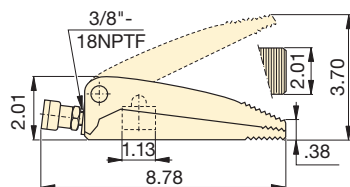
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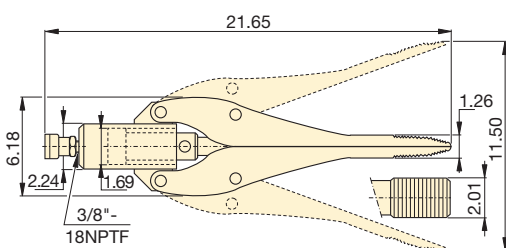
Best Match Hand Pump
To power your WR5 and WR15 the **P-392** hand pump is an ideal choice.

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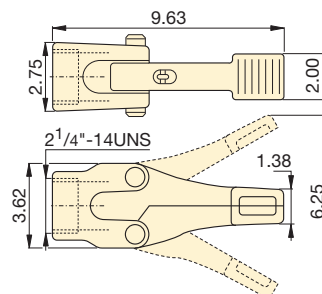
- Single-acting, spring return
- **WR-15:** For long stroke spreading applications
- **WR-5:** For use in very confined work areas
- **A-92:** Spreader attachment screws onto RC-Series 10-ton cylinders (except RC-101)*



WR-5

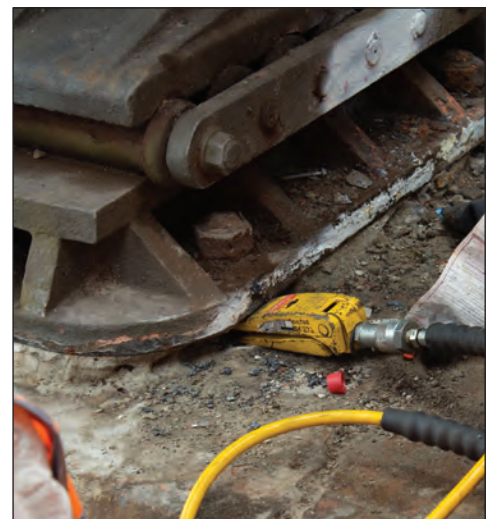


WR-15



A-92*

▼ A WR-5 Wedgie cylinder is used to loosen a bridge bearing.



Spreader Capacity	Tip Clearance	Model Number	Maximum Spread	Cylinder Effective Area	Oil Capacity	Wt.
(ton)	(in)		(in)	(in ²)	(in ³)	(lbs)
1.00	.50	WR-5	3.70	1.00	.61	5.0
.75	1.26	WR-15	11.50	2.25	3.91	25.0
1.00	1.38	A-92*	6.25	—	—	8.0

* Maximum system pressure must be limited to half the rated pressure (5000 psi)

▼ Shown: FS-56



- Lightweight, ergonomic design for ease of use
- Adjustable jaw widths from 2.75" to 8.50" for a wide range of applications
- Single-acting, spring return RC Series cylinders for fast trouble-free operation

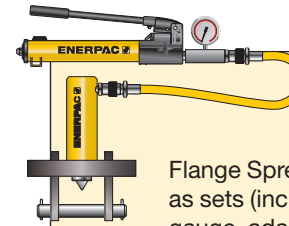
FS, STF Series



Capacity:
5-10 tons

Spread:
2.75 - 8.50 inches

Maximum Operating Pressure:
10,000 psi



Flange Spreader Sets*

Both Hydraulic Flange Spreaders are available as sets (includes pump, tool, gauge, adaptor and hose).

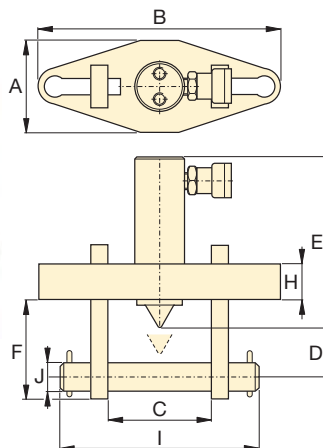
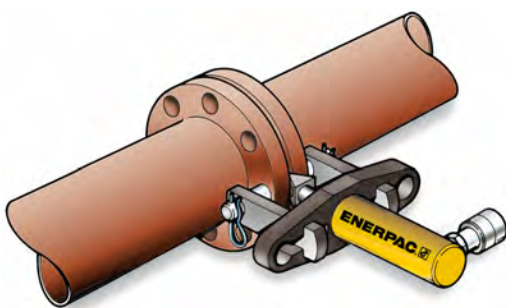
Set Model Number	Spreader Model Number	Pump Model Number
STF-56H	FS-56	P-392
STF-109H	FS-109	P-392
STF-109A	FS-109	PATG-1102N



Wedge Spreaders

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

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Flange Spreader Matching Chart

ASA Rating (psi)	Pipe Size (in)	
	FS-56	FS-109
150	5-20	22-42
300	2.50-14	16-28
400	2.50-12	14-24
500	2.50-10	12-20
900	.50-6	8-16
1500	.50-3.50	4-8
2500	.50-2.50	3-4

Maximum Flange Thickness (in)	Stud Size (in)	Standard Wedge (in)	Cap. (ton)	Stroke (in)	Oil Cap. (in ³)	Model Number	Dimensions (in)										Weight (lbs)
							A	B	C		D	E	F	H	I	J	
									Min.	Max.							
2 x 2.25	.75-1.13	.13-1.13	5	1.50	1.50	FS-56*	3.00	8.25	2.75	6.10	1.28	7.71	3.45	1.00	8.10	.75	26
2 x 3.63	1.25-1.63	.13-1.13	10	2.13	4.80	FS-109*	4.25	11.00	4.10	8.50	1.98	6.00	4.50	1.50	10.75	1.25	40

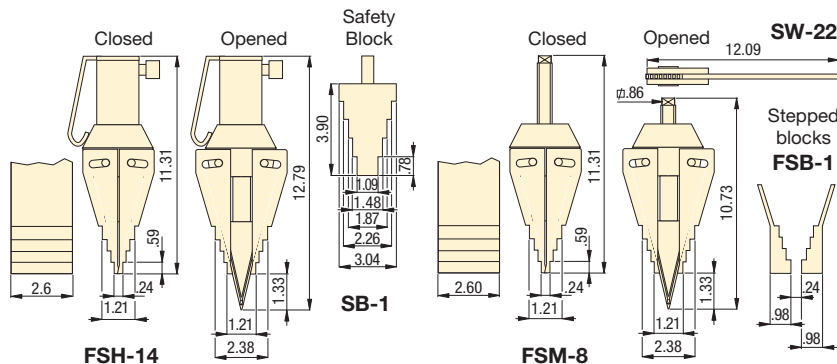
* Available as Tool-Pump Set, see note on this page.

Hydraulic and Mechanical Industrial Spreaders

▼ Shown: FSH-14 and FSM-8 with safety blocks SB1



- Integrated wedge concept: friction-free, smooth, parallel wedge movement eliminates flange damage and spreading arm failure
- Unique interlocking wedge design: no first step bending and risk of slipping out of joint
- Requires very small access gap of only .24 inch (6 mm)
- Stepped spreader arm design: each step can spread under full load
- Few moving parts means durability and low maintenance
- Safety block SB-1 and ratchet spanner SW-22 included with FSM-8
- Safety block and Enerpac RC-102 cylinder included with FSH-14



Max. Spreading Force (ton)	Model Number	Tip Clearance (in)	Max. Spread ¹⁾ (in)	Type	Oil Capacity (in ³)	Weight (lbs)
8	FSM-8	.24	3.16	Mechanical	-	14.3
14	FSH-14*	.24	3.16	Hydraulic	4.76	15.7

¹⁾ Using stepped blocks FSB-1.

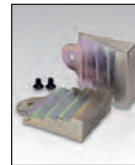
* Available as Tool-Pump Set, see note on this page.

FSM/FSH/STF Series

Tip Clearance / Maximum Spread*:
0.24/3.16 inches

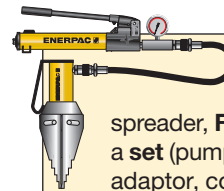
Maximum Spread Force:
8-14 tons

Maximum Operating Pressure:
10,000 psi (FSH-14)



Stepped Blocks FSB-1

Use this pair of stepped blocks to increase wedge opening up to 3.16 in. (81 mm). Fits both FSH-14 and FSM-8.



Flange Spreader Sets

The hydraulic flange spreader, FSH-14, is available as a set (pump, tool, gauge, gauge adaptor, couplers and hose) for your ordering convenience

Spreader Model No.	Handpump Model No.	Set Model Number
FSH-14	P-392	STF-14H

▼ Two FSH-14 spreaders used simultaneously with Enerpac handpump, hoses and AM-21 split-flow manifold.

