

LW-Series, Hydraulic Vertical Lifting Wedge

ENERPAC.

LW Series

Maximum Lifting Force: 16 ton (157 kN)

Tip Clearance / Maximum Spread *: 10 mm / 81,5 mm Maximum Operating Pressure:

Power Box

Control Manifolds

Tool box with P-392 hand pump, gauge adaptor assembly, hose and LW-16.

Control Manifold to control two or

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

four lifting wedges simultaneously. AM-21 with 3 ports 3/8" NPTF

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15,0 (4x)

Lifting Stroke: **21 mm**

700 bar

LW-16 with SB-2 and optional LWB-1



- · Requires very small access gap of only 10 mm
- Lifting force 16 ton at 700 bar hydraulic pressure
- Each step can spread under full load
- Straight vertical lifting
- Unique interlocking wedge design: no first step bending and risk of slipping out
- Single-acting, spring return cylinder
- Lifting wedge LW-16 includes safety block SB-2
- Includes RC-Series Cylinder with CR-400 coupler.
- ▼ For lifting heavy equipment with minimum floor clearance the LW-16 is the ideal tool.



 $\begin{array}{c} \text{Collapsed Height} \\ \hline 0 \\ \hline$

37,5 30,0

LWB-1

Maximum Lifting Force	Lifting Stroke	Model Number	Tip Clearance	Maximum Operating Pressure	0il Capacity	à	
ton (kN)	(mm)		(mm)	(bar)	(cm ³)	(kg)	
16 (157)	21	LW-16	10	700	78	9,0	

Use optional stepped block LWB-1 to increase wedge lifting height by 30 mm. * Using LWB-1.

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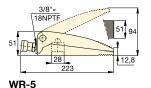


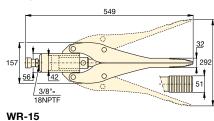
Hydraulic Wedgie and Spread Cylinders

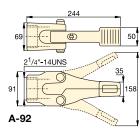
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- WR-5: For use in very confined work areas
- WR-15: For long stroke spreading applications
- · Single-acting, spring return
- A-92: Spreader attachment; threads on 10 ton RC-Series cylinders * (except RC-101).







Cylinder Capacity	Tip Clearance	Model Number	Maximum Spread	Cylinder Effective Area	Oil Capacity	
ton (kN)	(mm)		(mm)	(cm²)	(cm ³)	(kg)
1,0 (8,9)	12,8	WR-5	94	6,5	10	2,3
0,75 (6)	32,0	WR-15	292	14,5	64	11,3
1,0 (8,9)	35,0	A-92 *	158	-	_	3,6

* Maximum system pressure must be limited to half the rated pressure (350 bar).

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Porta Power Sets

cylinder.

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



Page: 55 Best Match Hand Pump To power your WR-5 and WR-15 the P-392 hand pump is an ideal choice. Use Energy

Portable tool sets with hand pump, gauge adaptor assembly, hose and WR-5, RC-, RCS, RSM-or LW-Serie

is an ideal choice. Use Enerpac H700-Series hose (page 114) for hydraulic connection. Page: 66

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



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FS-Series, Hydraulic Flange Spreaders





- Lightweight, ergonomic design for ease of use
- Adjustable jaw widths from 70 mm to 216 mm for a wide range of applications
- Single-acting, spring return RC-Series DUO cylinder for fast trouble-free operation.



FS, STF Series	
Capacity: 5 and 10 ton	
Spread: 70 - 216 mm	
Maximum Operating Pressure: 700 bar	
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Spreader Model Nr.	Pump Model Nr.	Set Model Number				
FS-56	P-392	STF-56H				
FS-109	P-392	STF-109H				
FS-109	PATG-1102N	STF-109A				

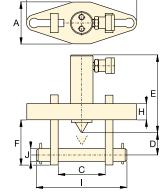


Wedge Spreaders Friction-free, smooth and parallel wedge movement with unique interlock wedge design. Eliminates flange damage and risk of spreading arm failure.

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Flange Spreader Matching Chart

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ASA Rating	Pipe Size (mm)									
(bar)	FS-56	FS-109								
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								

Maximum	Stud	Standard	Oil	Model	Dimensions (mm)								1				
Flange Thickness	Size	Wedge	city		Capa- city	Number				0							
(mm)	(mm)	(mm)	ton	(mm)	(cm ³)		А	В	Min.	Max.	D	Е	F	н	Т	J	(kg)
2 x 57	19 - 28	3 - 28	5	38	24,6	FS-56*	76	209	70	155	32	196	88	25	206	19	11,5
2 x 92	31-41	3 - 28	10	54	78,7	FS-109*	108	279	104	216	50	152	114	38	273	31	18,1

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

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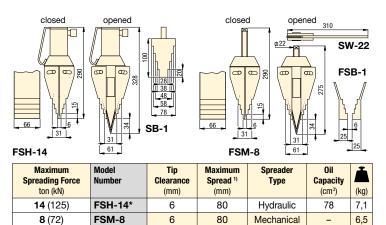


Hydraulic and Mechanical Wedge Spreaders

FSH-14 and FSM-8 with safety blocks SB-1



- Integrated wedge concept: Friction-free, smooth and 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 6 mm
- · Stepped spreader arm design each step can spread under full load
- · Few moving parts mean durability and low maintenance
- Safety block SB-1 and ratchet spanner SW-22 included with FSM-8 mechanical wedge spreader
- Safety block SB-1 and Enerpac RC-102 single-acting cylinder included with FSH-14 hydraulic wedge spreader.



8 (72) FSM-8 Using stepped blocks FSB-1

* Available as pump-tool set, see note on this page.

FSH, FSM, STF Series

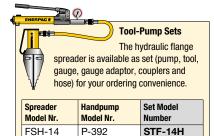
Tip Clearance / Maximum Spread ¹⁾: **6 mm / 80 mm**

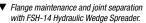
Maximum Spread Force: **8 - 14 ton**

Maximum Operating Pressure:

700 bar (FSH-14)









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