LW-Series, Hydraulic Vertical Lifting Wedge



▼ 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.



LW Series

Maximum Lifting Force:

16 ton (157 kN)

Lifting Stroke:

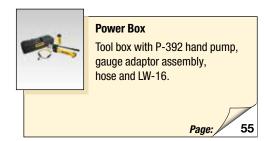
21 mm

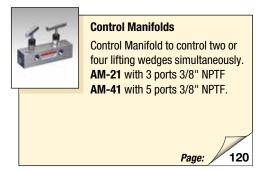
Tip Clearance / Maximum Spread *:

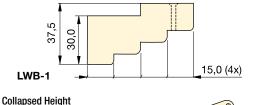
10 mm / 81,5 mm

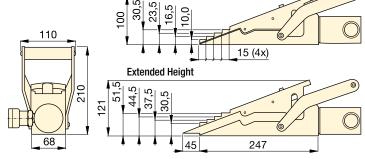
Maximum Operating Pressure:

700 bar









Maximum Lifting Force	Lifting Stroke	Model Number	Tip Clearance	Maximum Operating Pressure	Oil Capacity	Ā
ton (kN)	(mm)		(mm)	(bar)	(cm³)	(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.

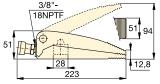
* Using LWB-1.

Hydraulic Wedgie and Spread Cylinders

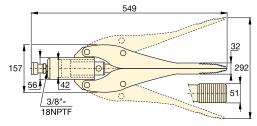
▼ Shown clockwise from top: WR-15, WR-5, A-92



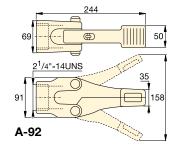
- WR-5: For use in very confined work areas
- WR-15: For long stroke spreading applications
- · Single-acting, spring return
- A-92: Spreader attachment; threads on 10 ton RC-Series cylinders * (except RC-101).



WR-5



WR-15



Cylinder Capacity ton (kN)	Tip Clearance (mm)	Model Number	Maximum Spread (mm)	Cylinder Effective Area (cm²)	Oil Capacity (cm³)	(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).

A WR Series



Capacity:

0,75 - 1,0 ton

Tip Clearance:

12,8 - 35 mm

Maximum Spread:

94 - 292 mm

Maximum Operating Pressure:

700 bar



RC-Series Cylinders

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

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Power Box

Tool box with P-392 hand pump, gauge adaptor assembly, hose and WR-5.

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Best Match Hand Pump

To power your WR-5 and WR-15 the **P-392** hand pump is an ideal choice. Use Enerpac H700-Series hose (page 116) for hydraulic connection.

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



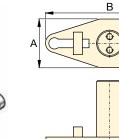
FS-Series, Hydraulic Flange Spreaders

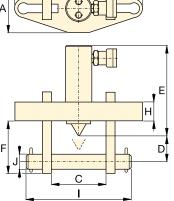


▼ FS-56



- 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 cylinders for fast trouble-free operation.





FS, STF Series



Capacity:

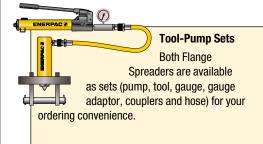
5 and 10 ton

Spread:

70 - 216 mm

Maximum Operating Pressure:

700 bar



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.

Page:

Flange Spreader Matching Chart

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	Capa-	Stroke	Oil	Model				C	Dimensio	ons (mm))				I
Flange Thickness	Size	Wedge	city		Capa- city	Number			(0							
(mm)	(mm)	(mm)	ton	(mm)	(cm³)		Α	В	Min.	Max.	D	Е	F	Н	ı	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.

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)



Stepped Blocks FSB-1

Use stepped blocks to increase wedge opening up to 80 mm. Fits both FSH-14 and FSM-8.

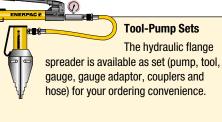


AM-Series Control Manifolds

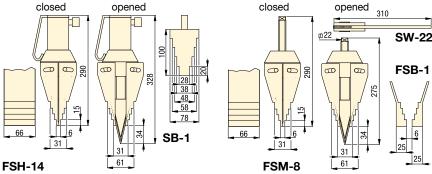
For simultaneously and even spreading of flange joints, 180° apart with FSH-14.

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	Handpump Model Nr.	Set Model Number
FSH-14	P-392	STF-14H



Maximum Spreading Force ton (kN)	Model Number	Tip Clearance (mm)	Maximum Spread ¹⁾ (mm)	Spreader Type	Oil Capacity (cm³)	(kg)
14 (125)	FSH-14*	6	80	Hydraulic	78	7,1
8 (72)	FSM-8	6	80	Mechanical	-	6,5

¹⁾ Using stepped blocks FSB-1

Flange maintenance and joint separation with FSH-14 Hydraulic Wedge Spreader.



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