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PLATE AND FABRICATED - VERTICAL ONLY

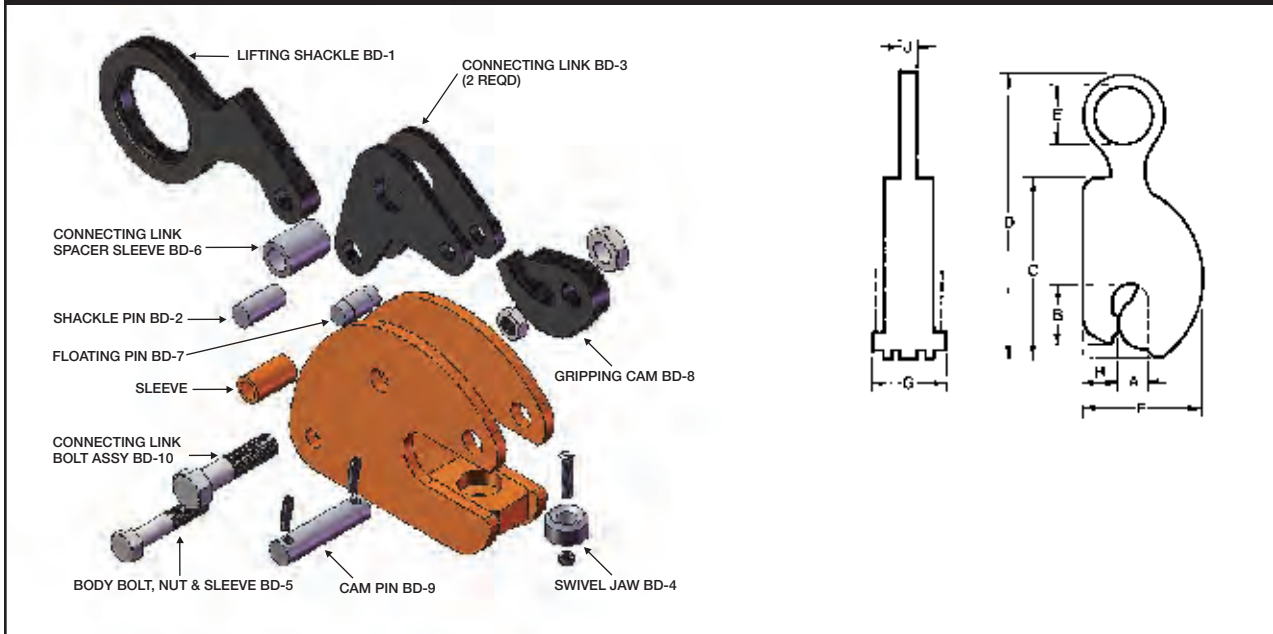


Model BD Non-Locking Type

The **Model BD** is a vertical lifting, non-locking clamp used primarily for steel warehousing and bench work where a locking type clamp is not essential. The clamp is a low-cost, low maintenance tool that features lightweight and compact size. It is recommended for use and application where constant tension is applied to the lifting shackle throughout the entire operation.



MODEL BD EXPLODED VIEW



SPECIFICATIONS (in inches)

Rated Capacity Tons	Plate Thickness A	MAX. B	C	D	E	F	G	H	Weight J	(in pounds)
1/2	0-1	2 ⁹ / ₁₆	6 ⁵ / ₁₆	10 ³ / ₈	1 ³ / ₄	4 ¹ / ₂	2 ¹ / ₄	1 ³ / ₈	1 ¹ / ₂	6
1	0-1 ¹ / ₈	3 ¹ / ₁₆	7 ⁵ / ₁₆	12 ³ / ₄	2 ¹ / ₂	5 ⁹ / ₁₆	2 ⁷ / ₈	1 ⁵ / ₈	5 ⁵ / ₈	11
2	0-1 ³ / ₈	3 ⁹ / ₁₆	8 ¹ / ₁₆	14 ¹ / ₂	3 ¹ / ₈	6 ⁹ / ₁₆	3	2 ¹ / ₄	5 ⁵ / ₈	16
4	0-1 ³ / ₄	3 ⁷ / ₈	10 ³ / ₄	17 ³ / ₄	3 ¹ / ₈	7 ⁷ / ₁₆	3 ³ / ₈	2 ¹ / ₄	3 ³ / ₄	27
7	1 ¹ / ₄ -2 ¹ / ₂	5	12 ³ / ₄	22 ¹ / ₂	3 ⁷ / ₈	9 ⁵ / ₈	5	3	1	65

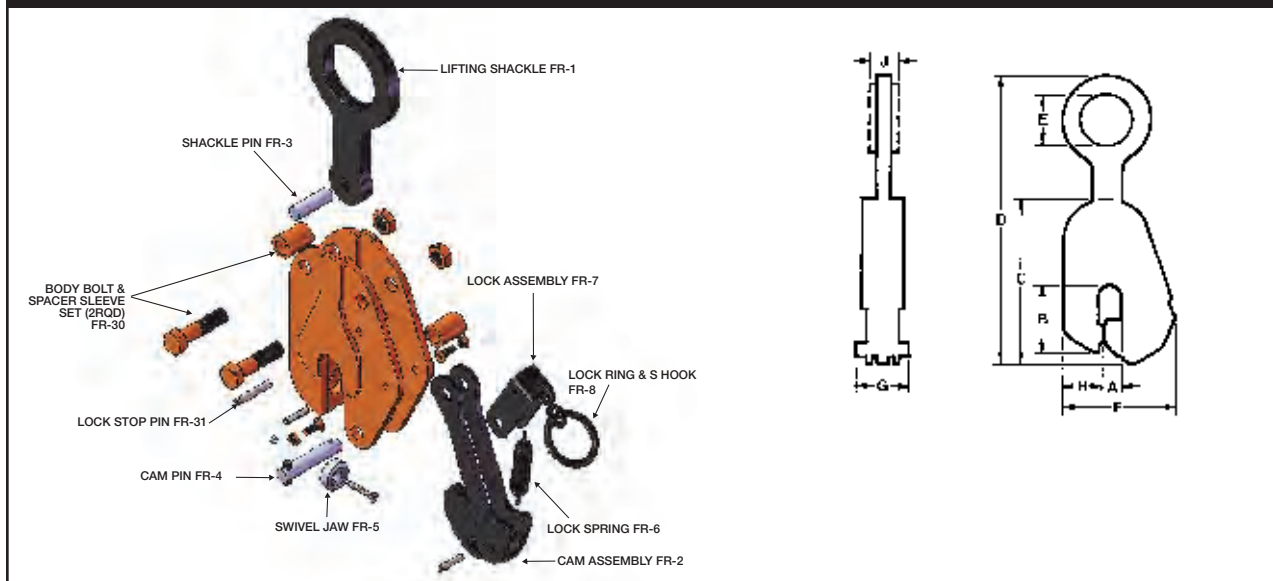
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.



Model FR Locking Type

The **Model FR** is a vertical lifting tool for relatively light work. It is small and easy to handle in capacities through three tons. It incorporates a “Lock Closed” feature which facilitates attaching the clamp to the plate.

MODEL FR EXPLODED VIEW



SPECIFICATIONS (in inches)

Rated Capacity Tons	Plate Thickness A	B	C	MAX. D	E	F	G	H	J	Weight (in pounds)
1/2	0-3/4	2 13/16	7	11 1/4	2 3/8	4 5/8	2 1/2	1 1/2	1/2	8
	1/2-1	2 13/16	7	11 1/4	2 3/8	4 5/8	2 1/2	1 1/2	1/2	8
	3/4-1 1/4	2 13/16	7	11 1/4	2 3/8	5 1/8	2 1/2	1 1/2	1/2	9
	1-1 1/2	2 13/16	7	11 1/4	2 3/8	5 3/8	2 1/2	1 1/2	1/2	10
	1 1/4-1 3/4	2 13/16	7	11 1/4	2 3/8	5 3/8	2 1/2	1 1/2	1/2	11
1	0-3/4	3 3/16	9	13 3/4	2 5/8	5 5/8	3 3/16	1 5/8	5/8	14
	1/2-1	3 3/16	9	13 3/4	2 5/8	6 1/8	3 3/16	1 5/8	5/8	15
	3/4-1 1/4	3 3/16	9	13 3/4	2 5/8	6 3/8	3 3/16	1 5/8	5/8	15
	1-1 1/2	3 3/16	9	13 3/4	2 5/8	6 5/8	3 3/16	1 5/8	5/8	16
	1 1/4-1 3/4	3 3/16	9	13 3/4	2 5/8	6 3/4	3 3/16	1 5/8	5/8	17
2	1 1/2-2	3 3/16	9	13 3/4	2 5/8	7 1/8	3 3/16	1 5/8	5/8	18
	0-1	3 1/2	9	16 3/8	3 5/8	6 3/4	3 3/8	2 1/8	3/4	23
	3/4-1 1/2	3 1/2	9	16 3/8	3 5/8	7 1/4	3 3/8	2 1/8	3/4	23
	1 1/4-2	3 1/2	9	16 3/8	3 5/8	7 3/4	3 3/8	2 1/8	3/4	23
3	1 3/4-2 1/2	3 1/2	9	16 3/8	3 5/8	8 1/4	3 3/8	2 1/8	3/4	24
	0-1 1/4	4 3/16	10 3/4	18 3/8	3 5/8	7 5/8	3 9/16	2 7/16	3/4	30
	3/4-1 1/2	4 3/16	10 3/4	18 3/8	3 5/8	7 7/8	3 9/16	2 7/16	3/4	31
	1 1/4-2	4 3/16	10 3/4	18 3/8	3 5/8	8 3/8	3 9/16	2 7/16	3/4	32
1 3/4-2 1/2	4 3/16	10 3/4	18 3/8	3 5/8	8 7/8	3 9/16	2 7/16	3/4	33	

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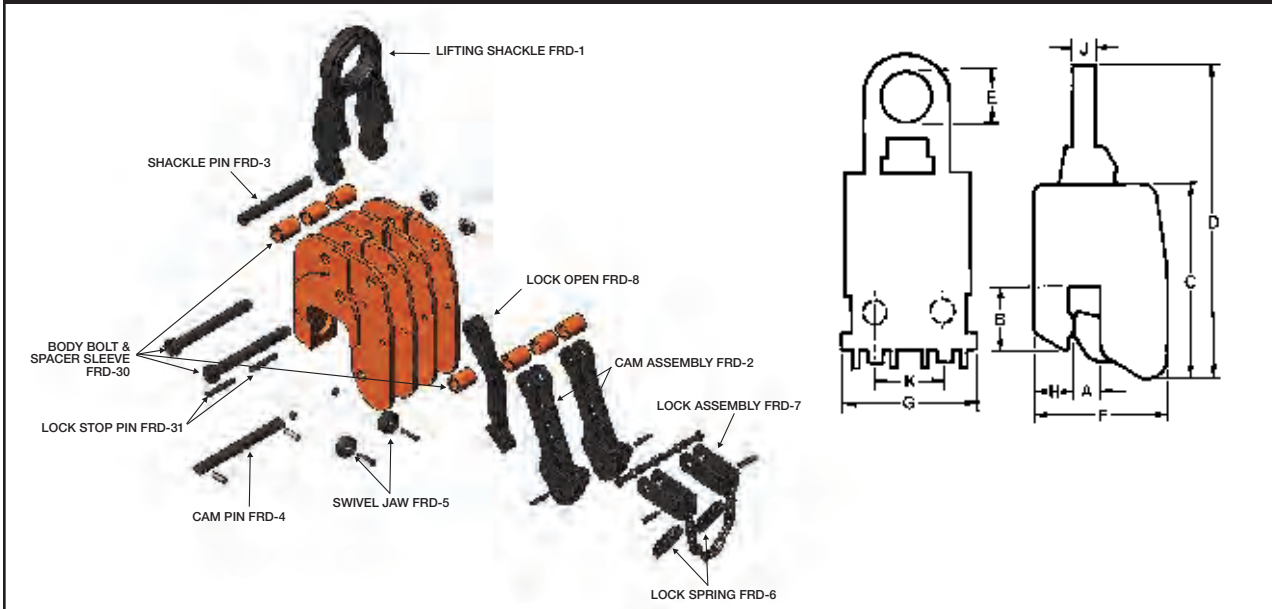


Model FRD Locking Type



The **Model FRD** is a vertical lifting clamp that incorporates two Model FR clamps into one and is used for heavy duty work where it is desirable to spread the gripping surfaces with two points of contact. The clamp contains two “Lock Closed” mechanisms which are activated by a single chain and a manually operated “Lock Open” mechanism.

MODEL FRD EXPLODED VIEW



SPECIFICATIONS (in inches)

Rated Capacity Tons	Plate Thickness A	B	C	MAX. D	E	F	G	H	I	J	Weight (in pounds)
1	0- $\frac{3}{8}$	2 $\frac{5}{8}$	7 $\frac{3}{4}$	14	2 $\frac{3}{8}$	4 $\frac{3}{4}$	5 $\frac{1}{2}$	1 $\frac{1}{2}$	$\frac{5}{8}$	3	16
	0- $\frac{3}{4}$	2 $\frac{5}{8}$	7 $\frac{3}{4}$	14	2 $\frac{5}{8}$	5 $\frac{1}{8}$	5 $\frac{1}{2}$	1 $\frac{1}{2}$	$\frac{5}{8}$	3	18
	$\frac{3}{4}$ -1 $\frac{1}{4}$	2 $\frac{5}{8}$	7 $\frac{3}{4}$	14	2 $\frac{3}{8}$	5 $\frac{5}{8}$	5 $\frac{1}{2}$	1 $\frac{1}{2}$	$\frac{5}{8}$	3	20
	1 $\frac{1}{4}$ -1 $\frac{3}{4}$	2 $\frac{5}{8}$	7 $\frac{3}{4}$	14	2 $\frac{3}{8}$	5 $\frac{5}{8}$	5 $\frac{1}{2}$	1 $\frac{1}{2}$	$\frac{5}{8}$	3	24
2	0- $\frac{3}{4}$	3 $\frac{1}{16}$	9	15 $\frac{3}{8}$	2 $\frac{1}{2}$	6	6 $\frac{1}{2}$	1 $\frac{5}{8}$	$\frac{3}{4}$	3 $\frac{1}{8}$	26
	$\frac{3}{4}$ -1 $\frac{1}{4}$	3 $\frac{1}{16}$	9	15 $\frac{3}{8}$	2 $\frac{1}{2}$	6 $\frac{1}{2}$	6 $\frac{1}{2}$	1 $\frac{5}{8}$	$\frac{3}{4}$	3 $\frac{1}{8}$	30
	1 $\frac{1}{4}$ -1 $\frac{3}{4}$	3 $\frac{1}{16}$	9	15 $\frac{3}{8}$	2 $\frac{1}{2}$	7	6 $\frac{1}{2}$	1 $\frac{5}{8}$	$\frac{3}{4}$	3 $\frac{1}{8}$	34
4	0-1	3 $\frac{1}{2}$	9 $\frac{7}{16}$	17 $\frac{3}{4}$	2 $\frac{7}{8}$	6 $\frac{5}{16}$	6 $\frac{3}{4}$	2 $\frac{1}{8}$	$\frac{3}{4}$	3 $\frac{5}{8}$	40
	1-1 $\frac{1}{4}$	3 $\frac{1}{2}$	9 $\frac{7}{16}$	17 $\frac{3}{4}$	2 $\frac{7}{8}$	7 $\frac{1}{16}$	6 $\frac{3}{4}$	2 $\frac{1}{8}$	$\frac{3}{4}$	3 $\frac{5}{8}$	44
	1 $\frac{3}{4}$ -2 $\frac{1}{2}$	3 $\frac{1}{2}$	9 $\frac{7}{16}$	17 $\frac{3}{4}$	2 $\frac{7}{8}$	7 $\frac{13}{16}$	6 $\frac{3}{4}$	2 $\frac{1}{8}$	$\frac{3}{4}$	3 $\frac{5}{8}$	48
6	0-1 $\frac{3}{8}$	4 $\frac{1}{8}$	11 $\frac{1}{2}$	20 $\frac{5}{8}$	3 $\frac{3}{16}$	7	7 $\frac{7}{8}$	2	1 $\frac{3}{8}$	4 $\frac{1}{8}$	58
	1 $\frac{3}{8}$ -2 $\frac{1}{2}$	4 $\frac{1}{8}$	11 $\frac{1}{2}$	20 $\frac{5}{8}$	3 $\frac{3}{16}$	8 $\frac{1}{8}$	7 $\frac{7}{8}$	2	1 $\frac{3}{8}$	4 $\frac{1}{8}$	67
	2 $\frac{1}{2}$ -3 $\frac{5}{8}$	4 $\frac{1}{8}$	11 $\frac{1}{2}$	20 $\frac{5}{8}$	3 $\frac{3}{16}$	9 $\frac{1}{4}$	7 $\frac{7}{8}$	2	1 $\frac{3}{8}$	4 $\frac{1}{8}$	66

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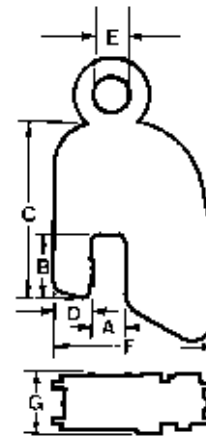
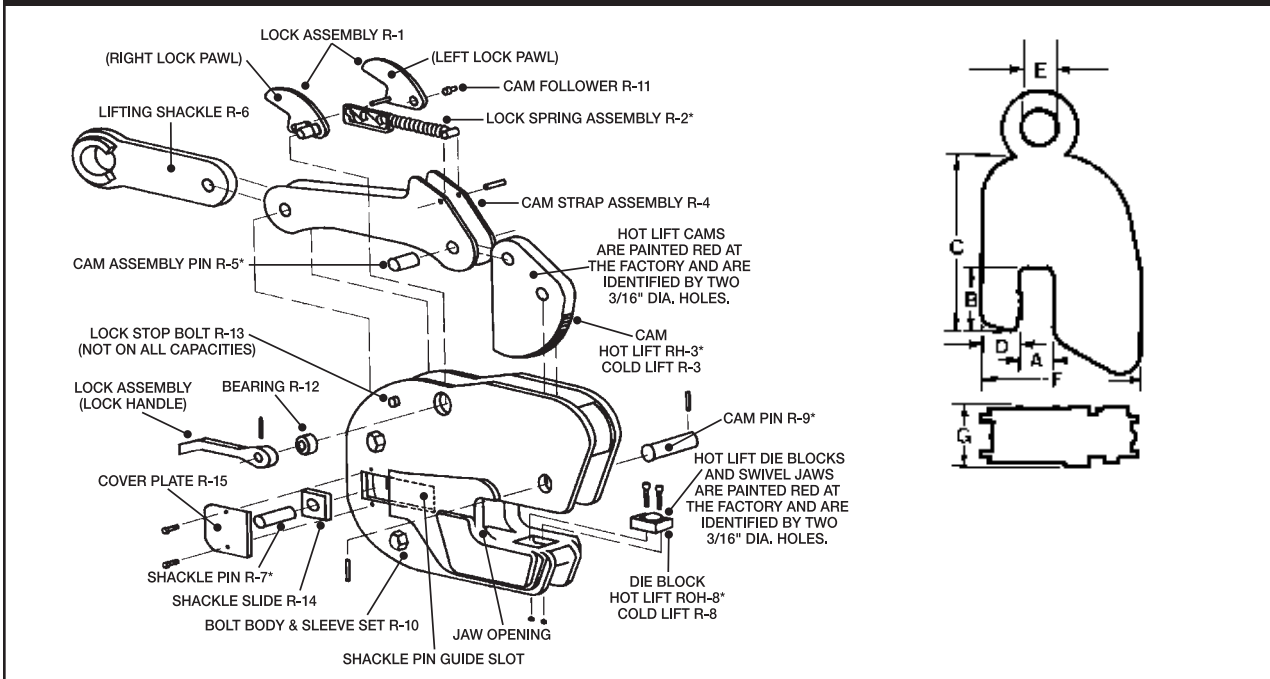


Model R Locking Type

The **Model R** is a vertical lifting clamp primarily used in the handling of heavy steel plate in a wide range of plate thicknesses. Specific models are available for handling “hot” plate (refer to factory for maximum temperatures and recommended application).

The **Model R** incorporates a “Lock Open,” “Lock Closed” feature which facilitates attaching and removing the clamp from the plate.

MODEL R EXPLODED VIEW



SPECIFICATIONS (in inches)

Rated Capacity Tons	Plate Thickness A	B	C	D	E	F	Weight	
							G	(in pounds)
35	¼-4¼	8 ³ / ₈	23 ⁵ / ₈	5 ¹ / ₁₆	5	21 ³ / ₈	8	470
	4-8	8 ³ / ₈	23 ⁵ / ₈	5 ¹ / ₁₆	5	25 ¹ / ₈	8	515
50	½-6½	13	44 ³ / ₄	9	5	36	13½	1370
	6-12	13	44 ³ / ₄	9	5	41½	13½	1500
75	½-6½	16½	46 ³ / ₄	14¼	11	42½	12½	2700
	3-9	16½	46 ³ / ₄	14¼	11	45	12½	2775
	6-12	16½	46 ³ / ₄	14¼	11	48	12½	2850
	8-14	16½	46 ³ / ₄	14¼	11	50	12½	2900

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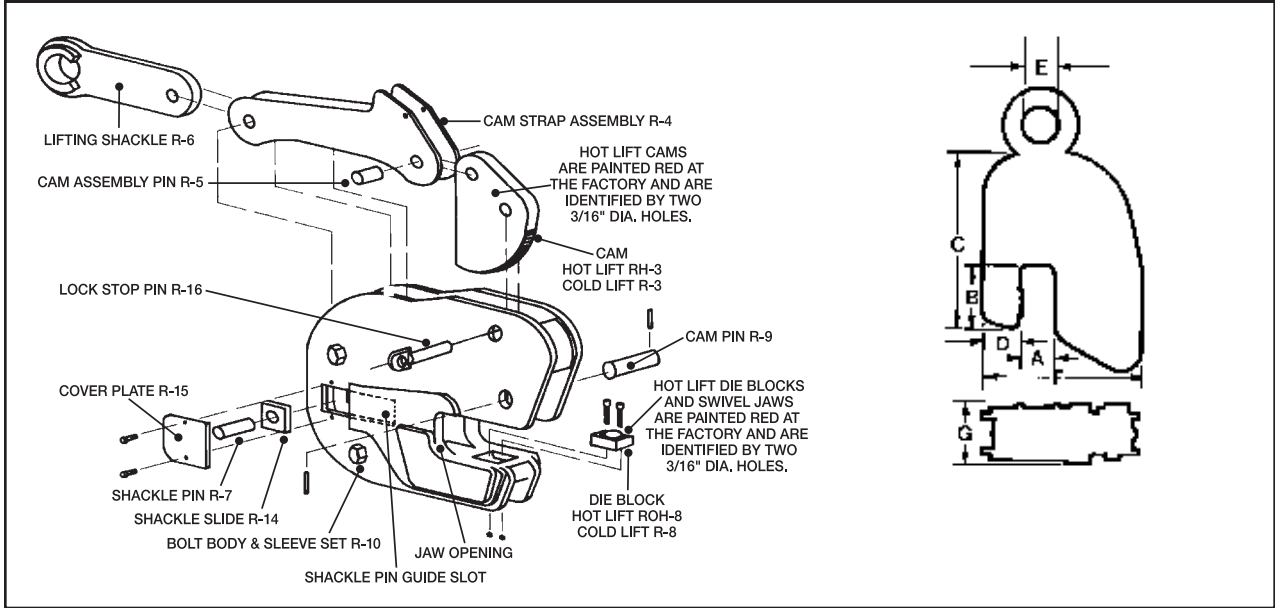


Model RO

Non-Locking Type

The **Model RO** incorporates a “Lock Open Only” feature allowing the clamp to be “Locked Open,” lifted onto a “hot” plate and the lock released without the operator coming in close contact with the “hot” plate.

MODEL RO EXPLODED VIEW



SPECIFICATIONS (in inches)

Rated Capacity Tons	Plate Thickness A	B	C	D	E	F	Weight	
							G	(in pounds)
35	¼-4¼	8¾	23½	5¼	5	21¾	8	470
	4-8	8¾	23½	5¼	5	25½	8	515
50	½-6½	13	44¾	9	5	36	13½	1370
	6-12	13	44¾	9	5	41½	13½	1500
75	½-6½	16½	46¾	14¼	11	42½	12½	2700
	3-9	16½	46¾	14¼	11	45	12½	2775
	6-12	16½	46¾	14¼	11	48	12½	2850
	8-14	16½	46¾	14¼	11	50	12½	2900

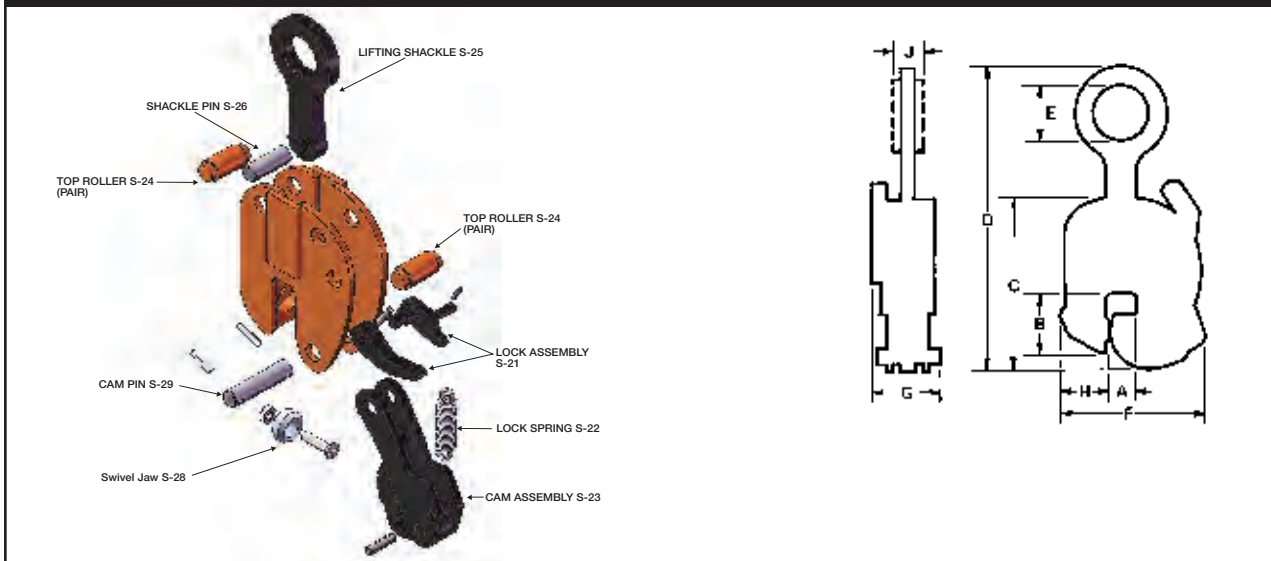
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.



Model S Locking Type

The **Model S** is a vertical lifting clamp and is an effective tool for construction and erection. It incorporates a “Lock Open,” “Lock Closed” feature which facilitates attaching and removing the clamp from the plate.

MODEL S EXPLODED VIEW



SPECIFICATIONS (in inches)

Rated Capacity Tons	Plate Thickness A	B	C	MAX. D	E	F	G	H	J	Weight (in pounds)
1/2	0-5/8	2	5 1/16	7 1/2	1 1/8	4 1/4	2 1/8	1 1/4	3/8	4
1	0-3/4	2	5 1/8	7 3/4	1 1/8	4 3/8	2 3/16	1 3/8	1/2	5
2	0-1	3 7/16	10	17	3 5/8	8 1/2	3 13/16	2 3/4	3/4	32
	3/4-1 1/2	3 7/16	10	17	3 5/8	9	3 13/16	2 3/4	3/4	33
	1 1/4-2	3 7/16	10	17	3 5/8	9 1/2	3 13/16	2 3/4	3/4	33
	1 3/4-2 1/2	3 7/16	10	17	3 5/8	10	3 13/16	2 3/4	3/4	36
4	0-1 1/4	4 5/8	11 1/2	19 5/8	3 5/8	10	4 7/8	3 3/16	3/4	41
	1-2	4 5/8	11 1/2	19 5/8	3 5/8	10 3/4	4 7/8	3 3/16	3/4	43
	1 3/4-2 3/4	4 5/8	11 1/2	19 5/8	3 5/8	11 1/2	4 7/8	3 3/16	3/4	43
	2 1/2-3 1/2	4 5/8	11 1/2	19 5/8	3 5/8	12 1/4	4 7/8	3 3/16	3/4	52
	3 1/4-4 1/4	4 5/8	11 1/2	19 5/8	3 5/8	13	4 7/8	3 3/16	3/4	60
8	0-1 1/2	4 1/2	13 15/16	22 1/2	3 3/4	10 1/2	5 1/8	3 5/16	1	70
	1-2	4 1/2	13 15/16	22 1/2	3 3/4	11	5 1/8	3 5/16	1	73
	2-3	4 1/2	13 15/16	22 1/2	3 3/4	12	5 1/8	3 5/16	1	77
	2 3/4-4	4 1/2	13 15/16	22 1/2	3 3/4	13	5 1/8	3 5/16	1	81
	3 3/4-5	4 1/2	13 15/16	22 1/2	3 3/4	14	5 1/8	3 5/16	1	85
12	0-2 1/2	6 1/2	18	28	3 3/8	13 1/2	6 1/4	3 7/8	1 1/4	140
	1/2-3	6 1/2	18	28	3 3/8	14	6 1/4	3 7/8	1 1/4	140
	2-4	6 1/2	18	28	3 3/8	15	6 1/4	3 7/8	1 1/4	143
	4-6	6 1/2	18	28	3 3/8	17	6 1/4	3 7/8	1 1/4	150
	5 1/2-7 1/2	6 1/2	18	28	3 3/8	18 1/2	6 1/4	3 7/8	1 1/4	160
20	1/2-3	7 1/2	22 3/4	35	4 15/16	17	7 3/8	5	2 1/2	265
	3-5	7 1/2	22 3/4	35	4 15/16	19	7 3/8	5	2 1/2	294
	5-7	7 1/2	22 3/4	35	4 15/16	21	7 3/8	5	2 1/2	324
	7-9	7 1/2	22 3/4	35	4 15/16	23	7 3/8	5	2 1/2	350
50*	1/2-3	8 3/8	27 5/8	41	4 5/8	22	9 3/4	6 5/8	3	470
100*	1/2-3	13 1/2	34	44	4 15/16	26	12 1/2	10 1/2	4	1350

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. OTHER CAPACITIES AVAILABLE UPON REQUEST.

*For handling heavy plate or hot material, see Model R.

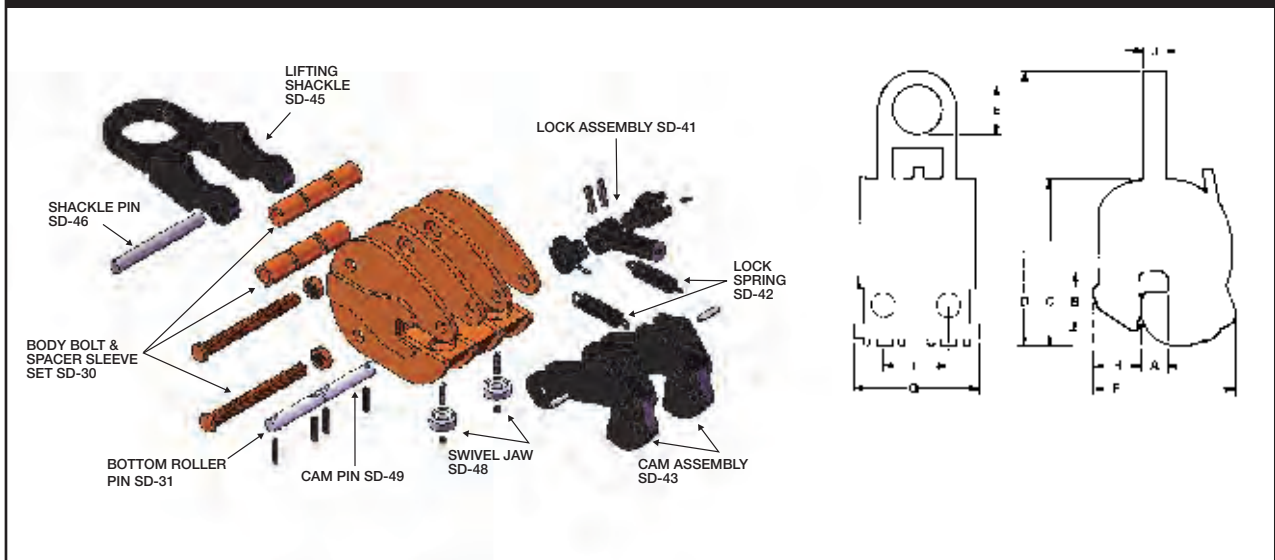
Model SD

Locking Type

The **SD** is a vertical lifting clamp that incorporates two Model S clamps into one and is used for heavy duty work where it is desirable to spread the gripping surfaces with two points of contact. It incorporates a "Lock Open," "Lock Closed" feature which facilitates attaching and removing the clamp from the plate.



MODEL SD EXPLODED VIEW



SPECIFICATIONS (in inches)

Rated Capacity Tons	Plate Thickness		MAX.								Weight (in pounds)
	A	B	C	D	E	F	G	H	I	J	
6	0-1	3/4	9 1/2	15 1/2	3	7 1/2	6 1/2	2 1/8	4 1/8	3/4	60
	3/4-1 1/2	3/4	9 1/2	15 1/2	3	8	6 1/2	2 1/8	4 1/8	3/4	62
8	0-1 1/4	4 1/2	11 1/2	17	3	8 3/4	6 3/4	3	4 1/4	1	77
	1-2	4 1/2	11 1/2	17	3	9 1/2	6 3/4	3	4 1/4	1	81

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