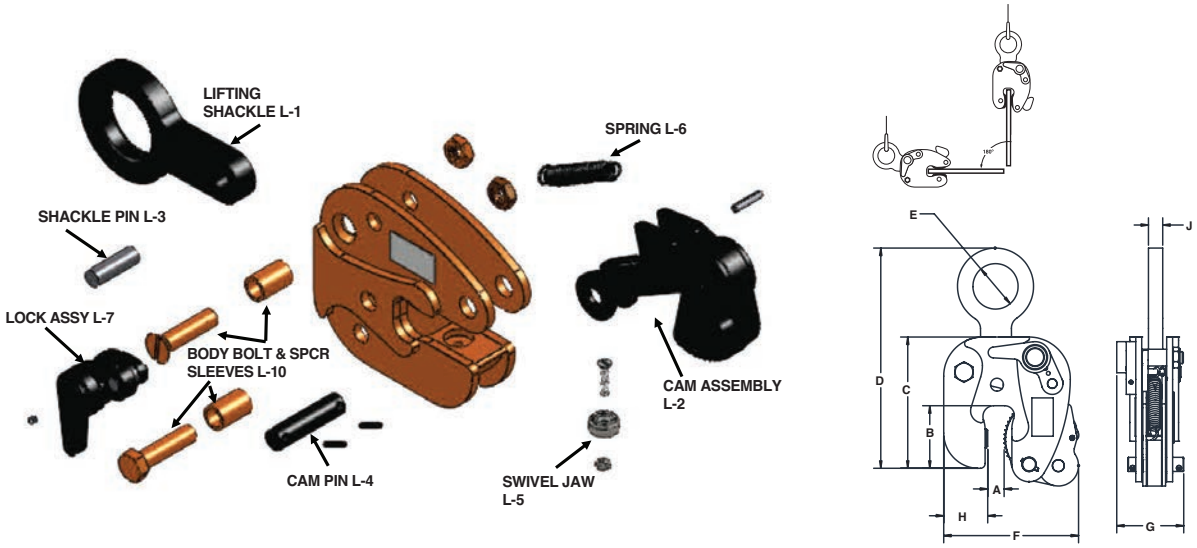
Model L
Locking Type

The **Model L** is an ergonomic vertical lifting clamp capable of turning a single plate or member from horizontal to vertical and back to horizontal through the same 90 degree arc. The “Lock Open – Lock Closed” feature facilitates attaching and removing the clamp from the plate.

MODEL L EXPLODED VIEW



SPECIFICATIONS (in inches)

Rated Capacity Tons	Plate Thickness A	B	C	MAX. D	E	MAX. F	G	H	J	Weight (in pounds)
1/2	0-5/8	2	4 7/8	8	1 1/8	4 1/4	2 7/16	1 3/8	3/8	4 1/8
1	0-3/4	2	4 7/8	8	1 1/8	4 3/8	2 7/16	1 3/8	1/2	5 1/8
2	0-1	3 5/16	6 7/8	12 1/2	2 3/8	7 1/16	3 5/8	2 3/8	3/4	16 7/8
3	0-1	3 7/16	10	17	3 3/8	8 1/2	3 13/16	2 3/4	3/4	32

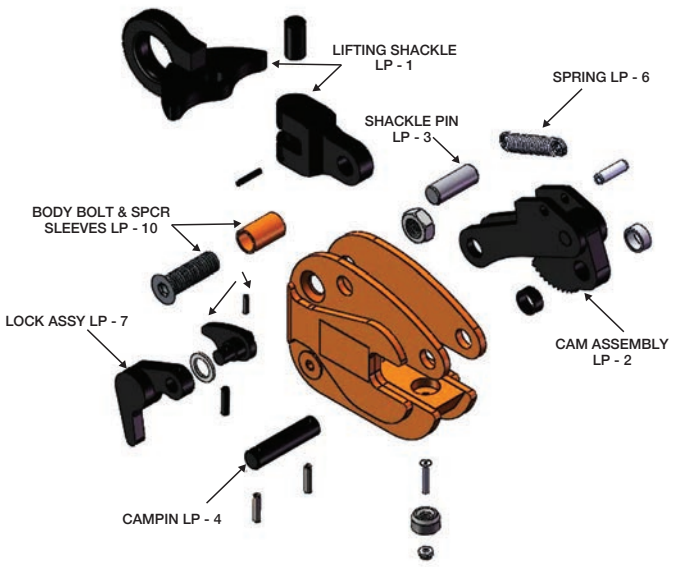
Consult factory for possible larger capacities. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

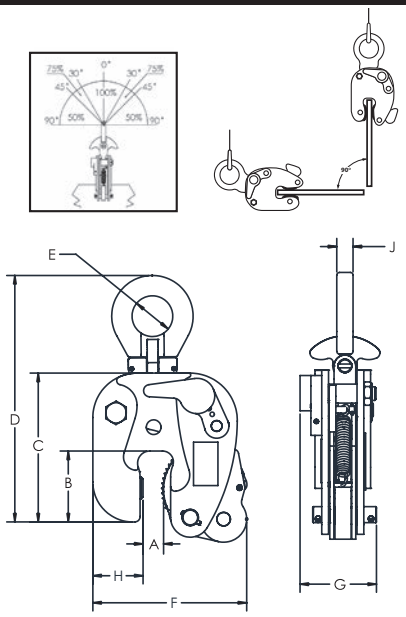
Model LP
Locking Type

The **Model LP** is an ergonomic vertical lifting clamp capable of turning a single plate or member from horizontal to vertical and back to horizontal through the same 90 degree arc. Permits side loading of lifting shackle to 90 degrees by de-rating of clamp's capacity. Refer to FIGURE 1 for de-rated capaci- ties. The "Lock Open – Lock Closed" feature facilitates attaching and removing the clamp from the plate.

Model LP incorporates a pivoting shackle that permits side loading of the lifting shackle at 100 percent of rated capacity from vertical to 30 degrees, 75 percent of rated capacity between 30 and 45 degrees, and 50 percent of rated capacity between 45 and 90 degrees.

MODEL LP EXPLODED VIEW





SPECIFICATIONS (in inches)

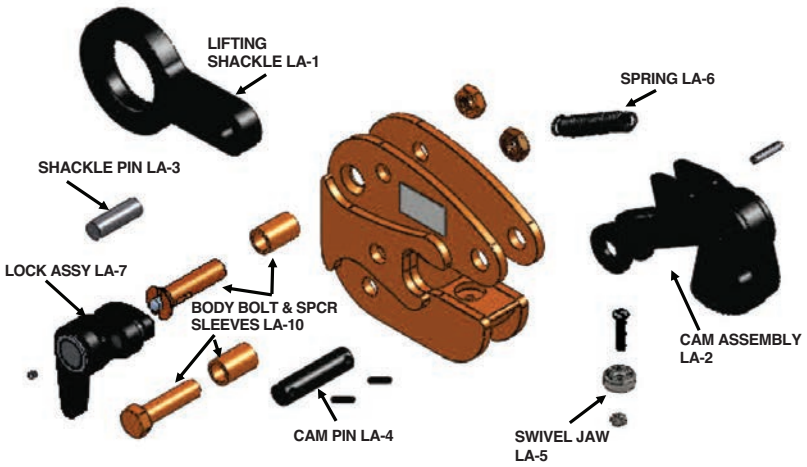
Rated Capacity Tons	Plate Thickness A	B	C	MAX. D	E	MAX. F	G	H	J	Weight (in pounds)
1/2	0-5/8	2	5 1/16	8 11/16	1 1/8	4 1/4	2 7/16	1 3/8	3/8	4 1/8
1	0-3/4	2	5 1/8	8 11/16	1 1/8	4 3/8	2 7/16	1 3/8	1/2	5 1/8
2	0-1	3 5/16	6 7/8	12 1/2	1 7/8	7 1/16	3 5/8	2 3/8	3/4	16 7/8
3	0-1	3 7/16	10	17	3 3/8	8 1/2	3 13/16	2 3/4	3/4	32

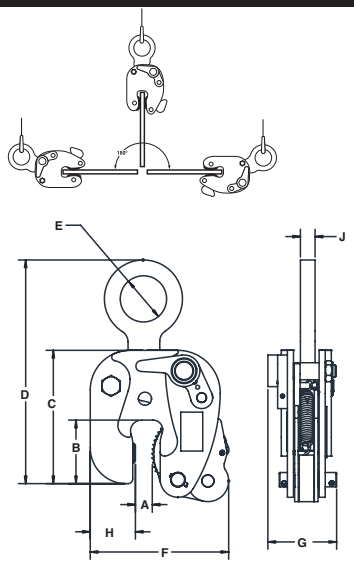
Consult factory for possible larger capacities. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

Model LA
Locking Type

Model LA is an ergonomic vertical lifting clamp capable of turning a single plate or member from horizontal to vertical to horizontal through a 180 degree arc. It incorporates a push button auxiliary lock. The "Lock Open – Lock Closed" feature facilitates attaching and removing the clamp from the plate.

MODEL LA EXPLODED VIEW





SPECIFICATIONS (in inches)

Rated Capacity Tons	Plate Thickness A	B	C	MAX. D	E	MAX. F	G	H	J	Weight (in pounds)
1/2	0-5/8	2	4 7/8	8	1 1/8	4 1/4	2 7/16	1 3/8	3/8	4 1/8
1	0-3/4	2	4 7/8	8	1 1/8	4 3/8	2 7/16	1 3/8	1/2	5 1/8
2	0-1	3 5/16	6 7/8	12 1/2	2 3/8	7 1/16	3 5/8	2 3/8	3/4	16 7/8
3	0-1	3 7/16	10	17	3 3/8	8 1/2	3 13/16	2 3/4	3/4	32

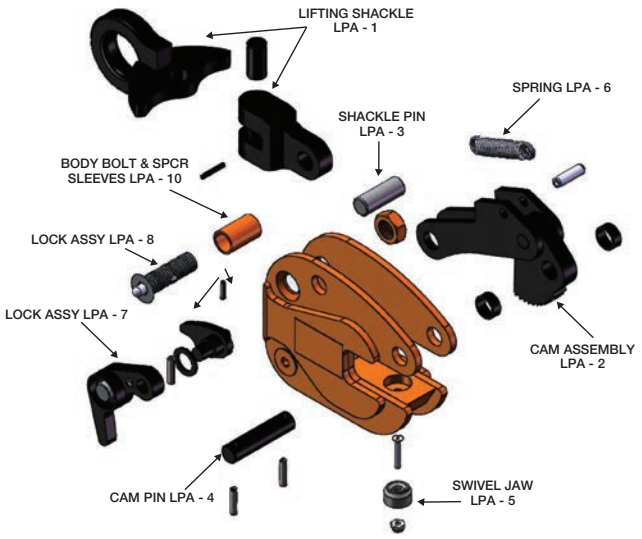
Consult factory for possible larger capacities. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

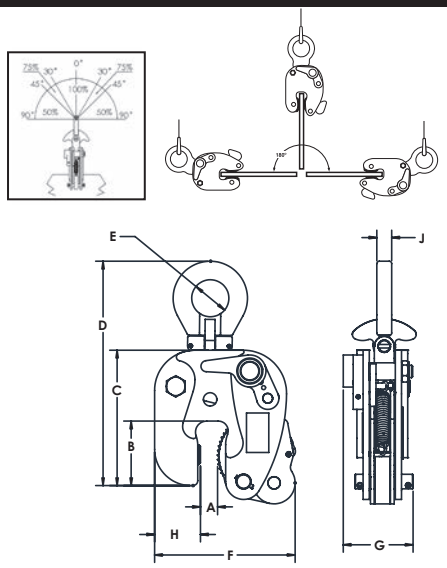
Model LPA
Locking Type

Model LPA is an ergonomic vertical lifting clamp capable of turning a single plate or member from horizontal to vertical to horizontal through a 180 degree arc. It incorporates an auxiliary push button lock. Permits side loading of lifting shackle to 90 degrees by de-rating of clamp's capacity. Refer to FIGURE 1 for de-rated capacities. The "Lock Open – Lock Closed" feature facilitates attaching and removing the clamp from the plate.

The Model LPA incorporates a pivoting shackle that permits side loading of the lifting shackle at 100 percent of rated capacity from vertical to 30 degrees, 75 percent of rated capacity between 30 and 45 degrees, and 50 percent of rated capacity between 45 and 90 degrees.

MODEL LPA EXPLODED VIEW





SPECIFICATIONS (in inches)

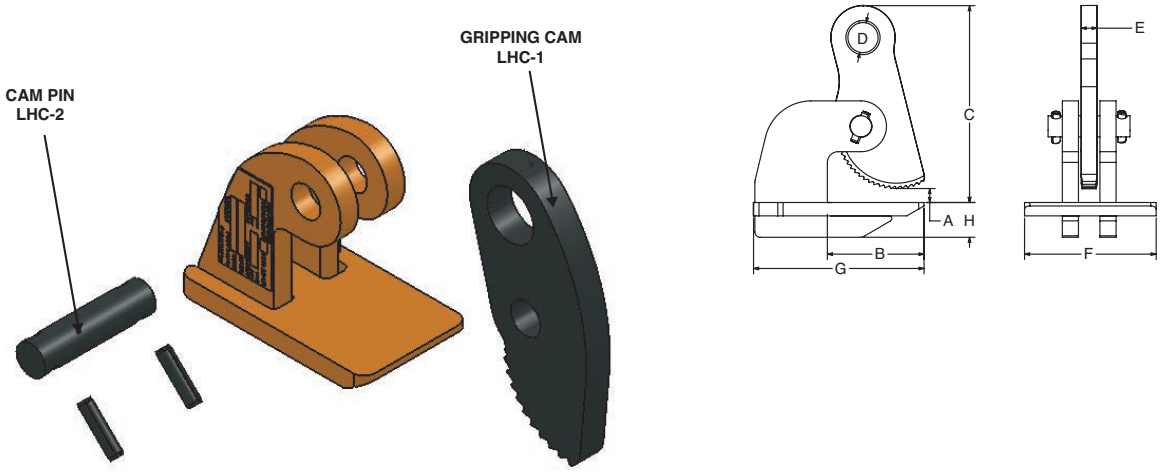
Rated Capacity Tons	Plate Thickness A	B	C	MAX. D	E	MAX. F	G	H	J	Weight (in pounds)
1/2	0-5/8	2	5 1/16	8 11/16	1 1/8	4 1/4	2 7/16	1 3/8	3/8	4 1/8
1	0-3/4	2	5 1/8	8 11/16	1 1/8	4 3/8	2 7/16	1 3/8	1/2	5 1/8
2	0-1	3 5/16	6 7/8	12 1/2	1 7/8	7 1/16	3 5/8	2 3/8	3/4	16 7/8
3	0-1	3 7/16	10	17	3 5/8	8 1/2	3 13/16	2 3/4	3/4	32

Consult factory for possible larger capacities. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

Model LHC
Non-Locking Type

The **LHC Model** is a horizontal lifting clamp intended to be used in pairs, sets of pairs or in a tripod arrangement for transporting steel plates horizontally. The clamp is designed to lift individual sheets horizontally. Cam operations ensure a tight grip on the load. Serrated gripping cam bites into load for positive grip. Clamps rest in position on edge of plate until tension is applied to the load sling. Clamps must be used in single pairs (2), double pairs (4), or tripod (3) configuration with a lifting sling.

MODEL LHC EXPLODED VIEW



SPECIFICATIONS (in inches)

Rated Capacity Tons per Clamp	Plate Thickness A	B	C	D	E	F	G	H	Weight Each (in pounds)
1/4	0-1	2 3/8	5	1	1/2	2 1/4	4	3/8	3
1/2	0-2	4 3/8	9 1/4	1 3/8	1/2	4 7/8	7 3/4	5/8	14
3/4	0-2	4 3/8	9 1/4	1 13/32	3/4	5 3/8	7 3/4	3/4	19
1 1/2	0-2	4 9/16	9 1/4	1 13/32	3/4	6 1/8	7 15/16	1	26
3	0-2	4 1/2	9 1/4	1 13/32	3/4	6 1/8	7 15/16	1 5/8	24
4	0-3	7	12 5/16	1 13/32	1	6 1/2	10 3/8	2 3/16	48

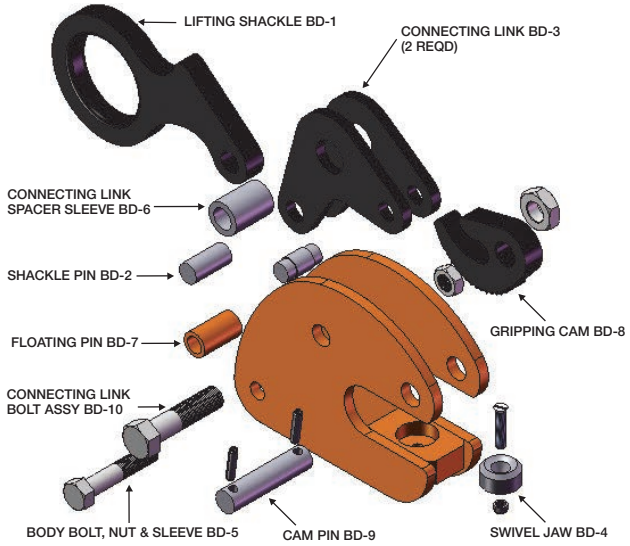
Consult factory for possible larger capacities. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

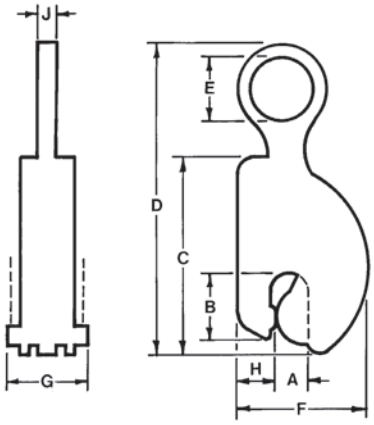
PLATE AND FABRICATED – VERTICAL ONLY

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)

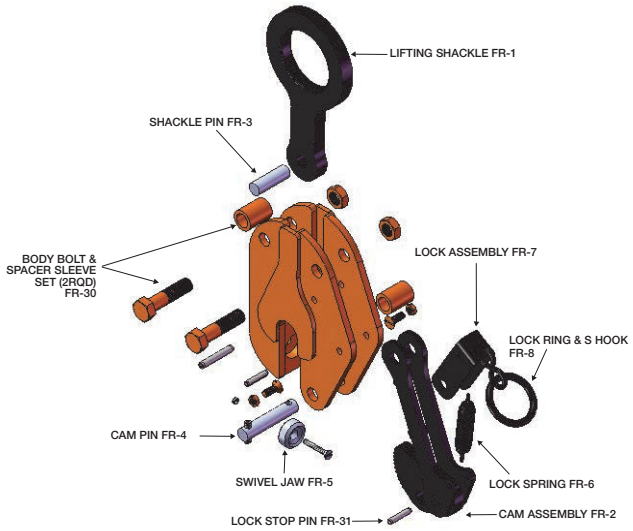
Rated Capacity Tons	Plate Thickness A	MAX. B	C	D	E	F	G	H	J	Weight (in pounds)
1/2	0-1	2 9/16	6 5/16	10 3/8	1 3/4	4 1/2	2 1/4	1 3/8	1/2	6
1	0-1 1/8	3 1/16	7 5/16	12 3/4	2 1/2	5 9/16	2 7/8	1 5/8	5/8	11
2	0-1 3/8	3 9/16	8 1/16	14 1/2	3 1/8	6 9/16	3	2 1/4	5/8	16
4	0-1 3/4	3 7/8	10 3/4	17 3/4	3 1/8	7 7/16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

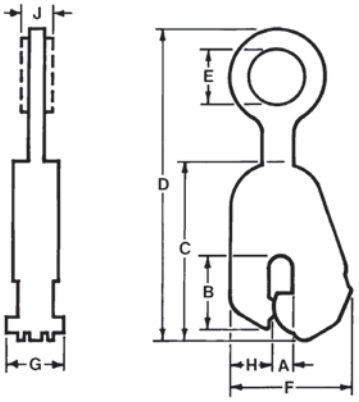
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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)

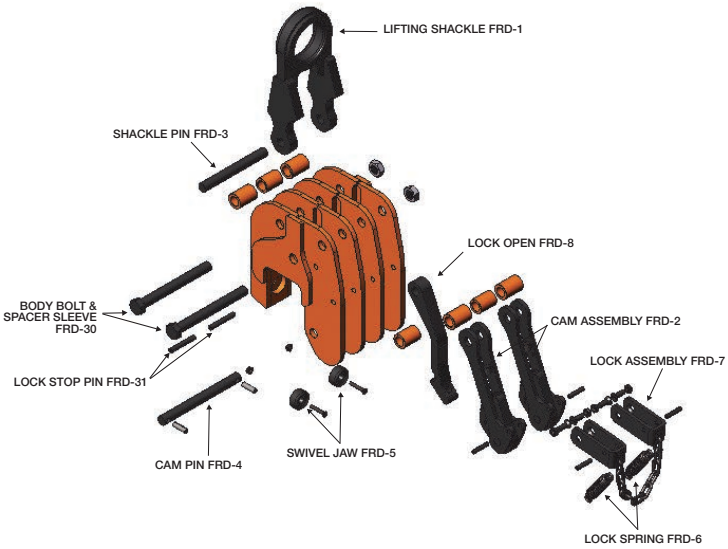
Rated Capacity Tons	Plate Thickness A	B	C	MAX. D	E	F	G	H	J	Weight (in pounds)
½	0-¾	2 13/16	7	11¼	2⅜	4⅝	2½	1½	½	8
	½-1	2 13/16	7	11¼	2⅜	4⅞	2½	1½	½	8
	¾-1¼	2 13/16	7	11¼	2⅜	5⅛	2½	1½	½	9
	1-1½	2 13/16	7	11¼	2⅜	5⅜	2½	1½	½	10
	1¼-1¾	2 13/16	7	11¼	2⅜	5⅜	2½	1½	½	11
1	0-¾	3 3/16	9	13¾	2 7/16	5⅞	3 3/16	1⅝	⅝	14
	½-1	3 3/16	9	13¾	2 7/16	6⅛	3 3/16	1⅝	⅝	15
	¾-1¼	3 3/16	9	13¾	2 7/16	6⅜	3 3/16	1⅝	⅝	15
	1-1½	3 3/16	9	13¾	2 7/16	6⅝	3 3/16	1⅝	⅝	16
	1¼-1¾	3 3/16	9	13¾	2 7/16	6⅞	3 3/16	1⅝	⅝	17
	1½-2	3 3/16	9	13¾	2 7/16	7⅛	3 3/16	1⅝	⅝	18
2	0-1	3½	9	16⅜	3⅝	6¾	3⅜	2⅛	¾	23
	¾-1½	3½	9	16⅜	3⅝	7¼	3⅜	2⅛	¾	23
	1¼-2	3½	9	16⅜	3⅝	7¾	3⅜	2⅛	¾	23
	1¾-2½	3½	9	16⅜	3⅝	8¼	3⅜	2⅛	¾	24
3	0-1¼	4 3/16	10¾	18⅜	3⅝	7⅝	3 9/16	2 7/16	¾	30
	¾-1½	4 3/16	10¾	18⅜	3⅝	7⅞	3 9/16	2 7/16	¾	31
	1¼-2	4 3/16	10¾	18⅜	3⅝	8⅜	3 9/16	2 7/16	¾	32
	1¾-2½	4 3/16	10¾	18⅜	3⅝	8⅞	3 9/16	2 7/16	¾	33

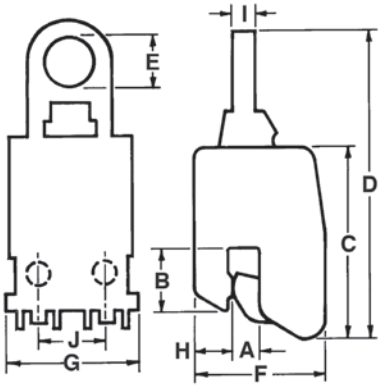
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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	0-3/8	2 5/8	7 3/4	14	2 3/8	4 3/4	5 1/2	1 1/2	5/8	3	16
	0-3/4	2 5/8	7 3/4	14	2 5/8	5 1/8	5 1/2	1 1/2	5/8	3	18
	3/4-1 1/4	2 5/8	7 3/4	14	2 3/8	5 5/8	5 1/2	1 1/2	5/8	3	20
	1 1/4-1 3/4	2 5/8	7 3/4	14	2 3/8	5 5/8	5 1/2	1 1/2	5/8	3	24
2	0-3/4	3 1/16	9	15 3/8	2 1/2	6	6 1/2	1 5/8	3/4	3 1/8	26
	3/4-1 1/4	3 1/16	9	15 3/8	2 1/2	6 1/2	6 1/2	1 5/8	3/4	3 1/8	30
	1 1/4-1 3/4	3 1/16	9	15 3/8	2 1/2	7	6 1/2	1 5/8	3/4	3 1/8	34
4	0-1	3 1/2	9 7/16	17 3/4	2 7/8	6 5/16	6 3/4	2 1/8	3/4	3 5/8	40
	1-1 3/4	3 1/2	9 7/16	17 3/4	2 7/8	7 1/16	6 3/4	2 1/8	3/4	3 5/8	44
	1 3/4-2 1/2	3 1/2	9 7/16	17 3/4	2 7/8	7 13/16	6 3/4	2 1/8	3/4	3 5/8	48
6	0-1 3/8	4 1/8	11 1/2	20 5/8	3 3/16	7	7 7/8	2	1 3/8	4 1/8	58
	1 3/8-2 1/2	4 1/8	11 1/2	20 5/8	3 3/16	8 1/8	7 7/8	2	1 3/8	4 1/8	67
	2 1/2-3 5/8	4 1/8	11 1/2	20 5/8	3 3/16	9 1/4	7 7/8	2	1 3/8	4 1/8	66

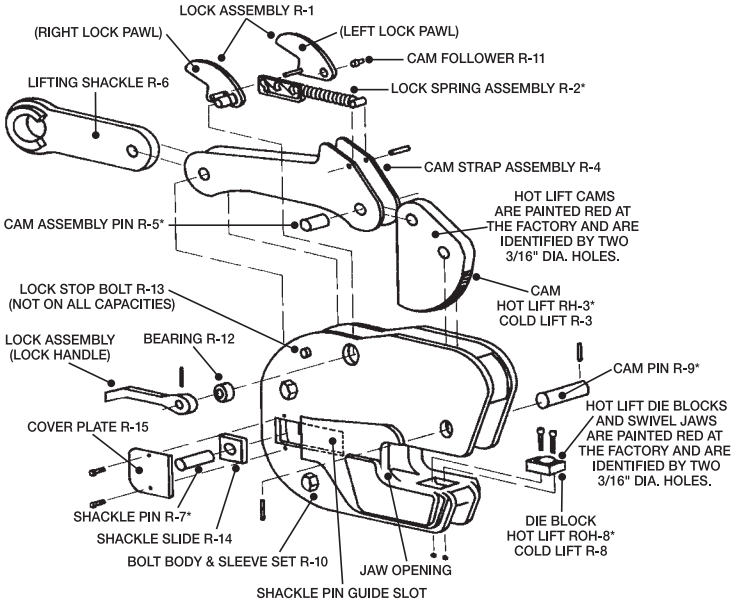
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

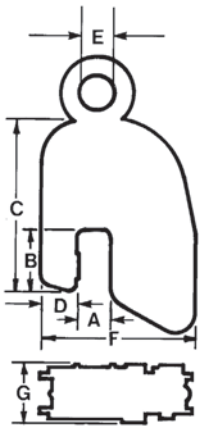
Model R
Non-Locking Type

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)

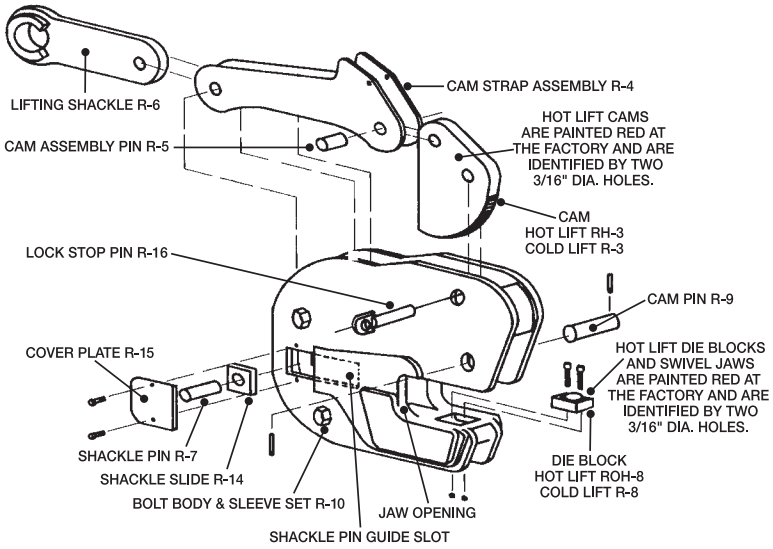
Rated Capacity Tons	Plate Thickness A	B	C	D	E	F	G	Weight (in pounds)
35	¼-4¼	8⅜	23⅝	5 1/16	5	21⅜	8	470
	4-8	8⅜	23⅝	5 1/16	5	25⅛	8	515
50	½-6½	13	44¾	9	5	36	13½	1370
	6-12	13	44¾	9	5	41½	13½	1500
75	½-6½	16½	46¾	14¼	11	42½	12½	2700
	3-9	16½	46¾	14¼	11	45	12½	2775
	6-12	16½	46¾	14¼	11	48	12½	2850
	8-14	16½	46¾	14¼	11	50	12½	2900

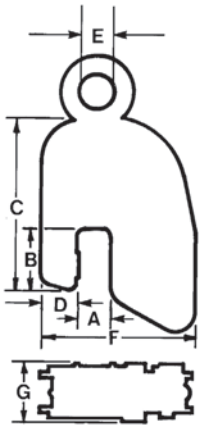
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Model RO
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)

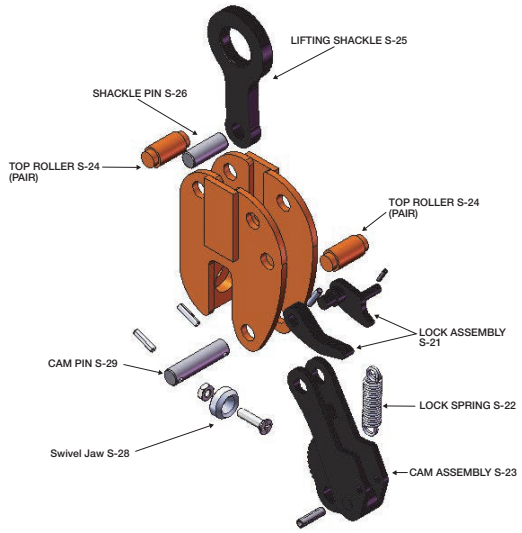
Rated Capacity Tons	Plate Thickness A	B	C	D	E	F	G	Weight (in pounds)
35	¼-4¼	8⅜	23⅝	5 1⁄16	5	21⅜	8	470
	4-8	8⅜	23⅝	5 1⁄16	5	25⅛	8	515
50	½-6½	13	44¾	9	5	36	13½	1370
	6-12	13	44¾	9	5	41½	13½	1500
75	½-6½	16½	46¾	14¼	11	42½	12½	2700
	3-9	16½	46¾	14¼	11	45	12½	2775
	6-12	16½	46¾	14¼	11	48	12½	2850
	8-14	16½	46¾	14¼	11	50	12½	2900

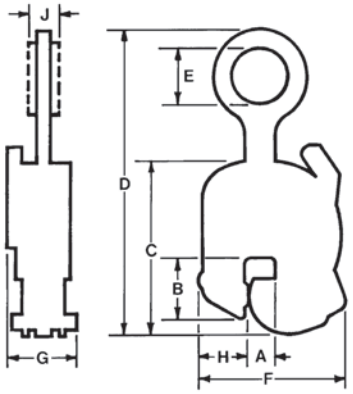
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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)
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 7/16	3/4	41
	1-2	4 5/8	11 1/2	19 5/8	3 5/8	10 3/4	4 7/8	3 7/16	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 7/16	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 7/16	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 7/16	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 7/8	13 1/2	6 1/4	3 7/8	1 3/4	140
	1/2-3	6 1/2	18	28	3 7/8	14	6 1/4	3 7/8	1 3/4	140
	2-4	6 1/2	18	28	3 7/8	15	6 1/4	3 7/8	1 3/4	143
	4-6	6 1/2	18	28	3 7/8	17	6 1/4	3 7/8	1 3/4	150
	5 1/2-7 1/2	6 1/2	18	28	3 7/8	18 1/2	6 1/4	3 7/8	1 3/4	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

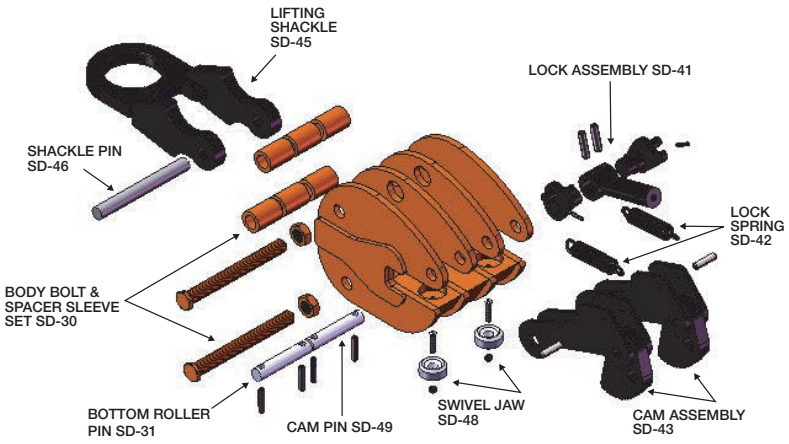
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. OTHER CAPACITIES AVAILABLE UPON REQUEST.

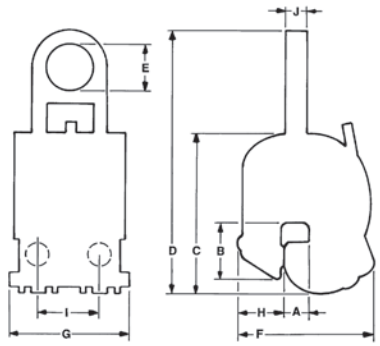
***For handling heavy plate or hot material, see Model R.**

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 A	B	C	MAX. D	E	F	G	H	I	J	Weight (in pounds)
6	0-1	3¼	9½	15½	3	7½	6½	2⅛	4⅛	¾	60
	¾-1½	3¼	9½	15½	3	8	6½	2⅛	4⅛	¾	62
8	0-1¼	4½	11½	17	3	8¾	6¾	3	4¼	1	77
	1-2	4½	11½	17	3	9½	6¾	3	4¼	1	81

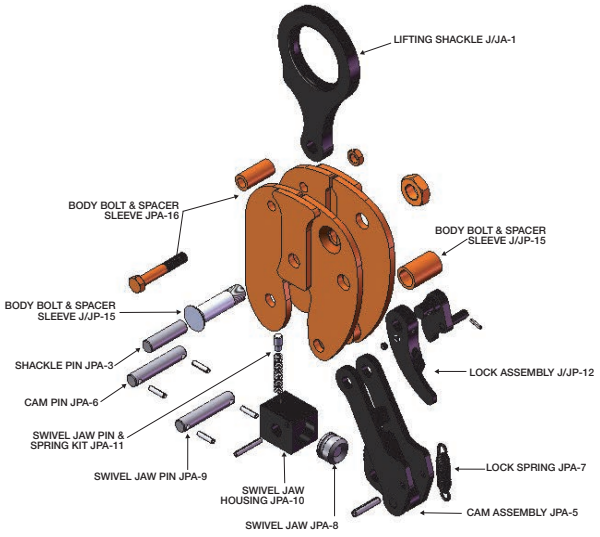
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. OTHER CAPACITIES AVAILABLE UPON REQUEST.

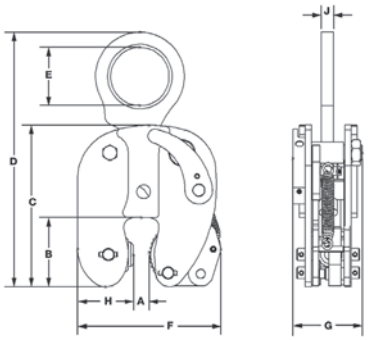
VERTICAL + 90

Model J
Locking Type

The **Model J** is a vertical lifting clamp capable of turning a single plate or member from horizontal to vertical and back to horizontal through the same 90 degree arc.

MODEL J EXPLODED VIEW





SPECIFICATIONS (in inches)

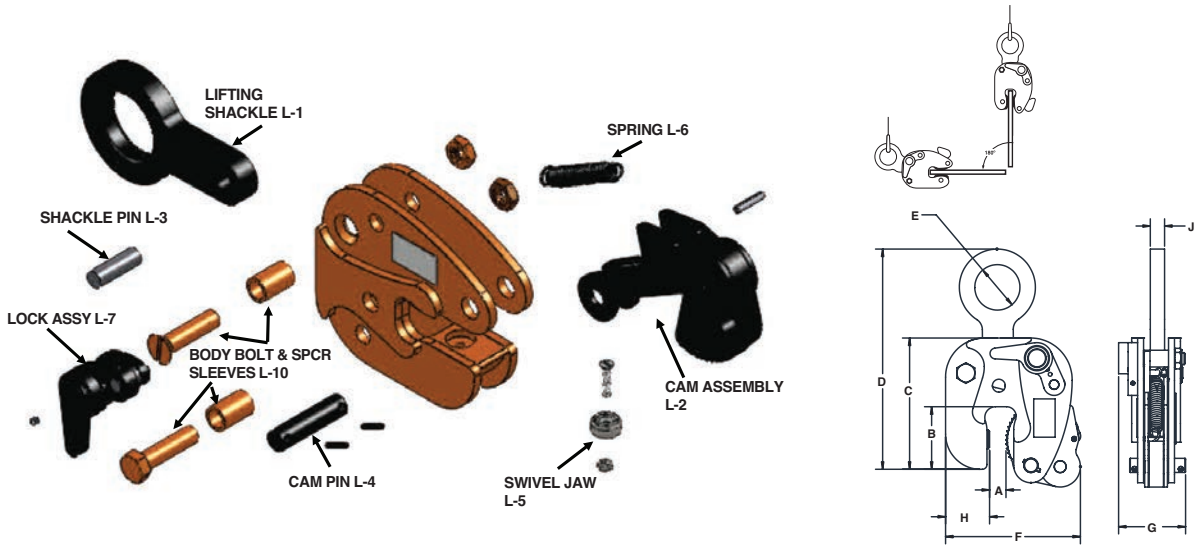
Rated Capacity Tons	Plate Thickness A	B	C	MAX. D	E	F	G	H	J	Weight (in pounds)
1/2	0-5/8 1/2-1 3/4-1 1/4 1 1/4-1 3/4	2 3/4 2 3/4 2 3/4 2 3/4	6 1/2 6 1/2 6 1/2 6 1/2	12 12 12 12	2 3/8 2 3/8 2 3/8 2 3/8	5 5/8 6 6 1/4 6 3/4	3 1/4 3 1/4 3 1/4 3 1/4	2 1/4 2 1/4 2 1/4 2 1/4	1/2 1/2 1/2 1/2	10
1	0-3/4 1/2-1 3/4-1 1/4 1-1 1/2 1 1/2-2	3 3/8 3 3/8 3 3/8 3 3/8 3 3/8	7 3/4 7 3/4 7 3/4 7 3/4 7 3/4	13 3/4 13 3/4 13 3/4 13 3/4 13 3/4	2 7/16 2 7/16 2 7/16 2 7/16 2 7/16	7 7 1/4 8 8 1/4 8 3/4	3 1/2 3 1/2 3 1/2 3 1/2 3 1/2	2 5/8 2 5/8 2 5/8 2 5/8 2 5/8	5/8 5/8 5/8 5/8 5/8	15
2	0-1 3/4-1 1/2 1 1/4-2 2-2 3/4	3 5/8 3 5/8 3 5/8 3 5/8	9 1/2 9 1/2 9 1/2 9 1/2	17 3/8 17 3/8 17 3/8 17 3/8	3 1/2 3 1/2 3 1/2 3 1/2	8 3/4 9 1/4 9 3/4 10 1/2	4 1/2 4 1/2 4 1/2 4 1/2	3 3 3 3	3/4 3/4 3/4 3/4	36
4	3/16-1 1/4 1-2 2-3 3-4	4 3/8 4 3/8 4 3/8 4 3/8	11 1/2 11 1/2 11 1/2 11 1/2	20 1/8 20 1/8 20 1/8 20 1/8	3 1/2 3 1/2 3 1/2 3 1/2	9 1/4 10 11 12	4 1/2 4 1/2 4 1/2 4 1/2	3 1/4 3 1/4 3 1/4 3 1/4	1 1/2 1 1/2 1 1/2 1 1/2	42
6	1/4-1 3/8 1-2 1/8 2-3 1/8 3-4 1/8	4 7/8 4 7/8 4 7/8 4 7/8	12 3/8 12 3/8 12 3/8 12 3/8	20 7/8 20 7/8 20 7/8 20 7/8	3 1/2 3 1/2 3 1/2 3 1/2	10 3/4 11 1/2 12 1/2 13 1/2	4 3/4 4 3/4 4 3/4 4 3/4	3 3/4 3 3/4 3 3/4 3 3/4	1 1/2 1 1/2 1 1/2 1 1/2	64
8	3/8-1 1/2 1-2 1/8 2-3 1/8 3-4 1/8	5 3/8 5 3/8 5 3/8 5 3/8	12 3/4 12 3/4 12 3/4 12 3/4	22 5/8 22 5/8 22 5/8 22 5/8	3 3/4 3 3/4 3 3/4 3 3/4	12 3/8 13 14 5/8 15 5/8	5 1/4 5 1/4 5 1/4 5 1/4	4 1/4 4 1/4 4 1/4 4 1/4	2 2 2 2	83
12	1/2-2 1/2 2-4 4-6	7 1/4 7 1/4 7 1/4	17 3/8 17 3/8 17 3/8	28 1/8 28 1/8 28 1/8	3 7/8 3 7/8 3 7/8	15 15/16 17 1/16 19 1/16	7 1/16 7 1/16 7 1/16	5 3/8 5 3/8 5 3/8	2 2 2	203 212 222
16	1/2-2 1/2	8	19 13/16	32 5/16	4 1/2	19 13/16	8 11/16	6 1/4	2 1/4	350
20	1/2-3	8 5/8	21 13/16	35 7/8	5	21	11 1/2	6 7/8	2 3/4	456
25	1/2-2 1/2 3-5 4-6	8 5/8 8 5/8 8 5/8	23 5/8 23 5/8 23 5/8	35 7/8 35 7/8 35 7/8	5 5 5	19 1/16 21 9/16 22 9/16	9 5/8 9 5/8 9 5/8	6 3/4 6 3/4 6 3/4	3 3 3	483 495 502
30	1/2-3	9 9/16	24 1/4	39 7/8	5	22 13/16	14 9/16	7 5/8	3	625
50	3-5	10 7/8	30 7/8	46 7/16	5	29 3/16	11 1/8	9 1/4	3 1/2	1306

Consult factory for possible larger capacities. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

Model L
Locking Type

The **Model L** is an ergonomic vertical lifting clamp capable of turning a single plate or member from horizontal to vertical and back to horizontal through the same 90 degree arc. The “Lock Open – Lock Closed” feature facilitates attaching and removing the clamp from the plate.

MODEL L EXPLODED VIEW



SPECIFICATIONS (in inches)

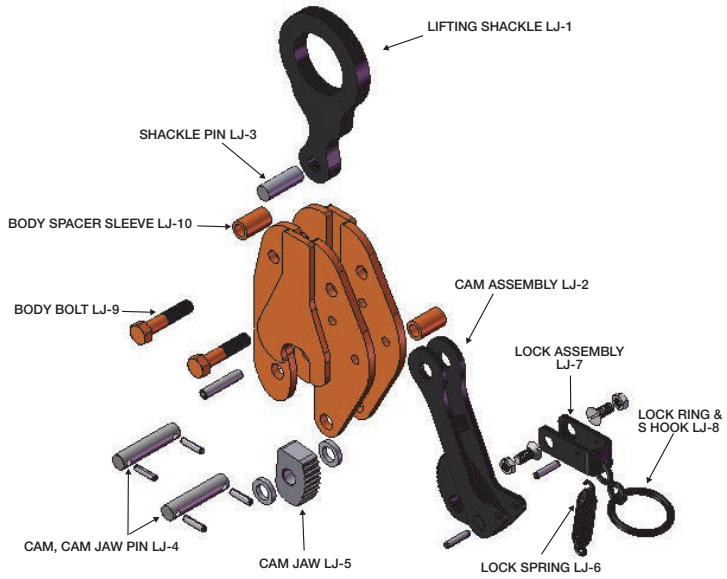
Rated Capacity Tons	Plate Thickness A	B	C	MAX. D	E	MAX. F	G	H	J	Weight (in pounds)
1/2	0-5/8	2	4 7/8	8	1 1/8	4 1/4	2 7/16	1 3/8	3/8	4 1/8
1	0-3/4	2	4 7/8	8	1 1/8	4 3/8	2 7/16	1 3/8	1/2	5 1/8
2	0-1	3 5/16	6 7/8	12 1/2	2 3/8	7 1/16	3 5/8	2 3/8	3/4	16 7/8
3	0-1	3 7/16	10	17	3 3/8	8 1/2	3 13/16	2 3/4	3/4	32

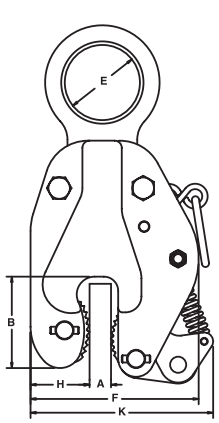
Consult factory for possible larger capacities. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

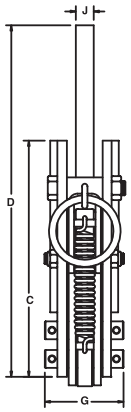
Model LJ
Locking Type

The **MODEL LJ** is a vertical lifting clamp capable of turning a plate from horizontal to vertical and back through the same ninety-degree arc. It is small and easy to handle in capacities through three tons. The Model LJ incorporates a “Lock Closed” feature, which facilitates attaching the clamp to the plate.

MODEL LJ EXPLODED VIEW







SPECIFICATIONS (in inches)

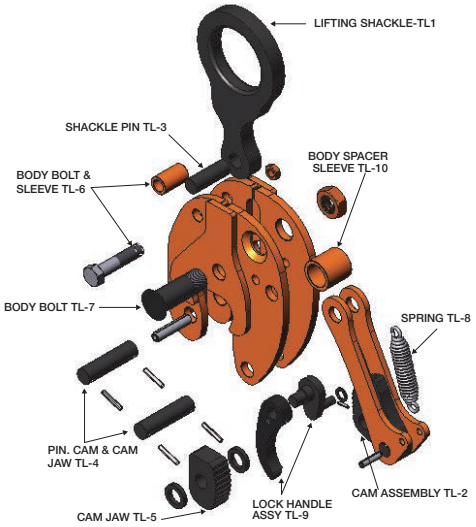
Rated Capacity Tons	Plate Thickness A	B	C	MAX. D	E	F	G	H	J	K	Weight (in pounds)
1/2	0-3/4	2 5/8	6 5/8	10 1/4	2 1/4	5	2 3/8	1 7/8	1/2	5	9
1	0-3/4	3 3/16	8 1/4	13 7/16	2 7/16	5 7/8	2 7/8	2 1/16	5/8	6 7/16	15
2	0-1	3 5/8	9	15 13/16	3 5/8	7 1/4	3 1/4	2 7/8	3/4	7 5/8	26
3	0-1 1/4	4 1/4	10 3/4	18	3 5/8	8 3/16	3 5/8	3	3/4	8 3/8	34

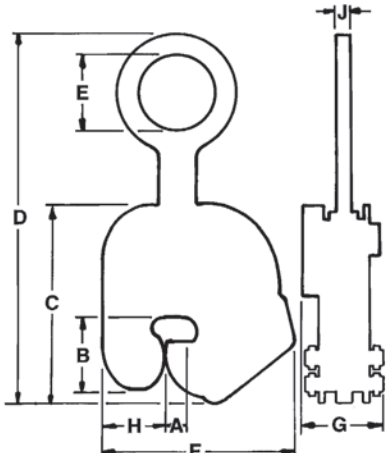
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Model TL
Locking Type

The **Model TL** is a vertical lifting clamp capable of turning a single plate or member from horizontal to vertical and back to horizontal through the same 90 degree arc.

MODEL TL EXPLODED VIEW





SPECIFICATIONS (in inches)

Rated Capacity Tons	Plate Thickness A	B	C	MAX. D	E	MAX. F	G	H	J	Weight (in pounds)
½	0-⅝	2⅜	6¼	11⅛	2⅜	4¾	2¾	1 13/16	½	9
	½-1	2⅜	6¼	11⅛	2⅜	5⅛	2¾	1 13/16	½	10
	¾-1¼	2⅜	6¼	11⅛	2⅜	5⅜	2¾	1 13/16	½	11
	1¼-1¾	2⅜	6¼	11⅛	2⅜	5⅞	2¾	1 13/16	½	13
1	0-¾	3	7½	13⅛	2 7/16	6	2 13/16	2	⅝	14
	½-1	3	7½	13⅛	2 7/16	6¼	2 13/16	2	⅝	15
	¾-1¼	3	7½	13⅛	2 7/16	6½	2 13/16	2	⅝	16
	1-1½	3	7½	13⅛	2 7/16	6¾	2 13/16	2	⅝	17
	1½-2	3	7½	13⅛	2 7/16	7¼	2 13/16	2	⅝	18
2	0-1	3½	9⅜	16¼	3⅝	8⅞	3¾	2⅞	¾	32
	¾-1½	3½	9⅜	16¼	3⅝	9⅜	3¾	2⅞	¾	33
	1¼-2	3½	9⅜	16¼	3⅝	9⅞	3¾	2⅞	¾	35
	2-2¾	3½	9⅜	16¼	3⅝	10⅝	3¾	2⅞	¾	37
4	3/16-1¼	4	9⅞	17⅝	3⅝	9	3 13/16	3	¾	36
	1-2	4	9⅞	17⅝	3⅝	9¾	3 13/16	3	¾	37
	2-3	4	9⅞	17⅝	3⅝	10¾	3 13/16	3	¾	40
	3-4	4	9⅞	17⅝	3⅝	11¾	3 13/16	3	¾	43
6	¼-1⅜	4⅝	11⅛	20⅛	3½	10¼	3⅞	3⅜	¾	49
	1-2⅛	4⅝	11⅛	20⅛	3½	11	3⅞	3⅜	¾	51
	2-3⅛	4⅝	11⅛	20⅛	3½	12	3⅞	3⅜	¾	54
	3-4⅛	4⅝	11⅛	20⅛	3½	13	3⅞	3⅜	¾	57
8	⅜-1½	4 13/16	12 5/16	21 5/16	3¾	11½	4¾	3⅞	1	72
	1-2⅛	4 13/16	12 5/16	21 5/16	3¾	12⅛	4¾	3⅞	1	74
	2-3⅛	4 13/16	12 5/16	21 5/16	3¾	13⅛	4¾	3⅞	1	77
	3-4⅛	4 13/16	12 5/16	21 5/16	3¾	14⅛	4¾	3⅞	1	80
12	½-2½	6¼	15⅛	26 3/16	3⅞	14½	6¾	4⅜	1¾	142
	2-4	6¼	15⅛	26 3/16	3⅞	16	6¾	4⅜	1¾	150
	3-5	6¼	15⅛	26 3/16	3⅞	17	6¾	4⅜	1¾	154
	4-6	6¼	15⅛	26 3/16	3⅞	18	6¾	4⅜	1¾	158
20	½-3	8⅛	21¾	36 11/16	5	20 11/16	8⅛	6 3/16	2¾	415
	2½-4½	8⅛	21¾	36 11/16	5	22 3/16	8⅛	6 3/16	2¾	426
	3-5	8⅛	21¾	36 11/16	5	22 11/16	8⅛	6 3/16	2¾	430
	5-7	8⅛	21¾	36 11/16	5	24 11/16	8⅛	6 3/16	2¾	445

Consult factory for possible larger capacities. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

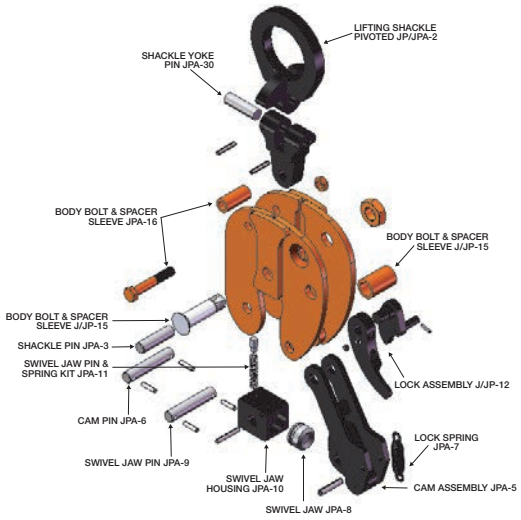
VERTICAL + 90 + SIDE PULL

Model JP
Locking Type

The **Model JP** is a vertical lifting clamp capable of turning a single plate or member from horizontal to vertical and back to horizontal through the same 90 degree arc. Permits side loading of lifting shackle up to 90 degrees by derating of clamp's rated capacity. Refer to FIGURE 1 for derated capacities.

Model JP incorporates a pivoting shackle that permits side loading of the lifting shackle at 100 percent of rated capacity from vertical to 30 degrees, 75 percent of rated capacity between 30 and 45 degrees and 50 percent of rated capacity between 45 and 90 degrees

MODEL JP EXPLODED VIEW



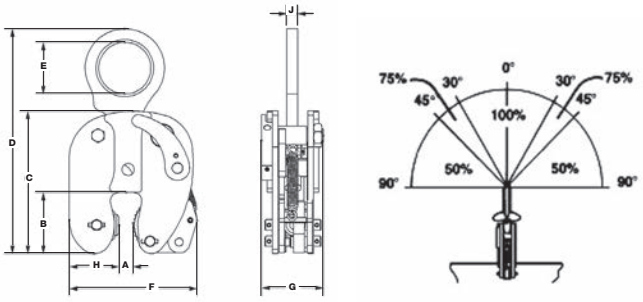


FIGURE 1

SPECIFICATIONS (in inches)

Rated Capacity Tons	Plate Thickness A	B	C	MAX. D	E	MAX. F	G	H	J	Weight (in pounds)
1/2	0-⅝ ½-1 ¾-1¼ 1¼-1¾	2¾ 2¾ 2¾ 2¾	6½ 6½ 6½ 6½	12 12 12 12	2⅜ 2⅜ 2⅜ 2⅜	5⅝ 6 6¼ 6¾	3¼ 3¼ 3¼ 3¼	2¼ 2¼ 2¼ 2¼	½ ½ ½ ½	12
1	0-¾ ½-1 ¾-1¼ 1-1½ 1½-2	3⅜ 3⅜ 3⅜ 3⅜ 3⅜	7¾ 7¾ 7¾ 7¾ 7¾	13¾ 13¾ 13¾ 13¾ 13¾	2⅝ 2⅝ 2⅝ 2⅝ 2⅝	7 7¼ 8 8¼ 8¾	3½ 3½ 3½ 3½ 3½	2⅝ 2⅝ 2⅝ 2⅝ 2⅝	⅝ ⅝ ⅝ ⅝ ⅝	20
2	0-1 ¾-1½ 1¼-2 2-2¾	3⅝ 3⅝ 3⅝ 3⅝	9½ 9½ 9½ 9½	17⅜ 17⅜ 17⅜ 17⅜	3½ 3½ 3½ 3½	8¾ 9¼ 9¾ 10½	4½ 4½ 4½ 4½	3 3 3 3	¾ ¾ ¾ ¾	40
4	3/16-1¼ 1-2 2-3 3-4	4⅜ 4⅜ 4⅜ 4⅜	11½ 11½ 11½ 11½	20⅛ 20⅛ 20⅛ 20⅛	3½ 3½ 3½ 3½	9¼ 10 11 12	4½ 4½ 4½ 4½	3¼ 3¼ 3¼ 3¼	1½ 1½ 1½ 1½	50
6	¼-1⅜ 1-2⅛ 2-3⅛ 3-4⅛	4⅞ 4⅞ 4⅞ 4⅞	12⅜ 12⅜ 12⅜ 12⅜	20⅞ 20⅞ 20⅞ 20⅞	3½ 3½ 3½ 3½	10¾ 11½ 12½ 13½	4¾ 4¾ 4¾ 4¾	3¾ 3¾ 3¾ 3¾	1¾ 1¾ 1¾ 1¾	72
8	⅜-1½ 1-2⅛ 2-3⅛ 3-4⅛	5⅜ 5⅜ 5⅜ 5⅜	12¾ 12¾ 12¾ 12¾	22⅝ 22⅝ 22⅝ 22⅝	3¾ 3¾ 3¾ 3¾	12⅜ 13 14⅝ 15⅝	5¼ 5¼ 5¼ 5¼	4¼ 4¼ 4¼ 4¼	2 2 2 2	93
12	½-2½ 2-4 4-6	7¼ 7¼ 7¼	17⅜ 17⅜ 17⅜	28⅛ 28⅛ 28⅛	3⅞ 3⅞ 3⅞	15 15/16 17 7/16 19 7/16	7 1/16 7 1/16 7 1/16	5⅜ 5⅜ 5⅜	2 2 2	203 212 222
16	½-2½	8	19 13/16	32 5/16	4½	19 13/16	8 11/16	6¼	2¼	350
20	½-3	8⅝	21 13/16	35⅞	5	21	11½	6⅞	2¾	456
25	½-2½ 3-5 4-6	8⅝ 8⅝ 8⅝	23⅝ 23⅝ 23⅝	35⅞ 35⅞ 35⅞	5 5 5	19 1/16 21 9/16 22 9/16	9⅝ 9⅝ 9⅝	6¾ 6¾ 6¾	3 3 3	483 495 502
30	½-3	9 9/16	24¼	39⅞	5	22 13/16	14 9/16	7⅝	3	625
50	3-5	10⅞	30⅞	46 7/16	5	29 3/16	11⅛	9¼	3½	1306

Consult factory for possible larger capacities. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

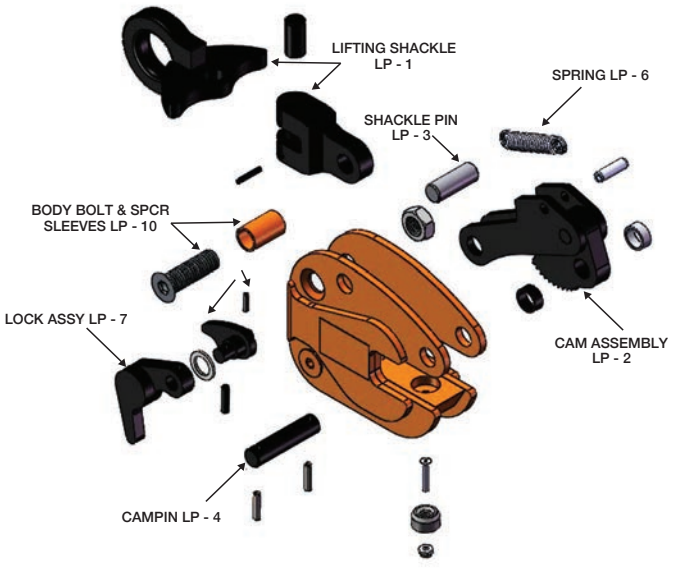
VERTICAL + 90 + SIDE PULL

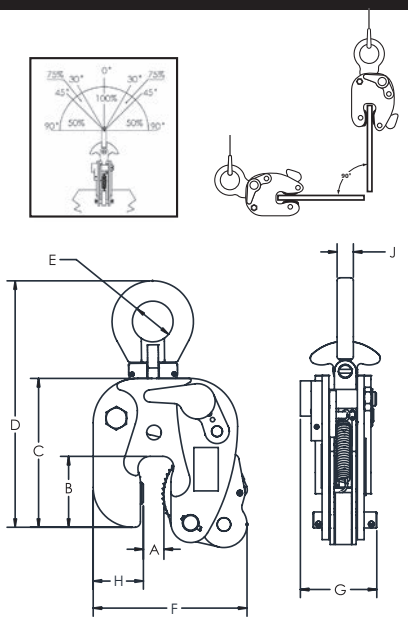
Model LP
Locking Type

The **Model LP** is an ergonomic vertical lifting clamp capable of turning a single plate or member from horizontal to vertical and back to horizontal through the same 90 degree arc. Permits side loading of lifting shackle to 90 degrees by de-rating of clamp's capacity. Refer to FIGURE 1 for de-rated capaci- ties. The "Lock Open – Lock Closed" feature facilitates attaching and removing the clamp from the plate.

Model LP incorporates a pivoting shackle that permits side loading of the lifting shackle at 100 percent of rated capacity from vertical to 30 degrees, 75 percent of rated capacity between 30 and 45 degrees, and 50 percent of rated capacity between 45 and 90 degrees.

MODEL LP EXPLODED VIEW





SPECIFICATIONS (in inches)

Rated Capacity Tons	Plate Thickness A	B	C	MAX. D	E	MAX. F	G	H	J	Weight (in pounds)
1/2	0-5/8	2	5 1/16	8 11/16	1 1/8	4 1/4	2 7/16	1 3/8	3/8	4 1/8
1	0-3/4	2	5 1/8	8 11/16	1 1/8	4 3/8	2 7/16	1 3/8	1/2	5 1/8
2	0-1	3 5/16	6 7/8	12 1/2	1 7/8	7 1/16	3 5/8	2 3/8	3/4	16 7/8
3	0-1	3 7/16	10	17	3 3/8	8 1/2	3 13/16	2 3/4	3/4	32

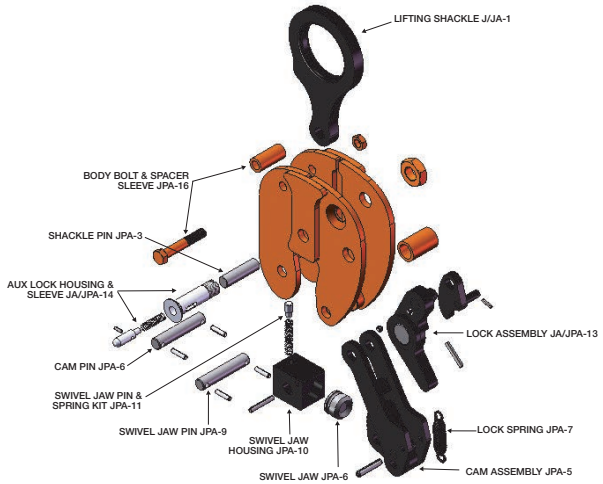
Consult factory for possible larger capacities. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

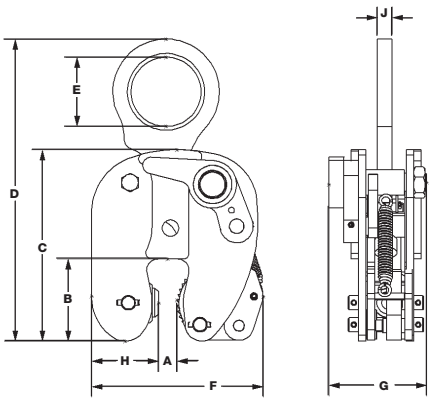
VERTICAL + 180

Model JA
Locking Type

The **Model JA** is a vertical lifting clamp capable of turning a single plate or member from horizontal to vertical to horizontal through a 180 degree arc. It incorporates a push button auxiliary lock.

MODEL JA EXPLODED VIEW





SPECIFICATIONS (in inches)

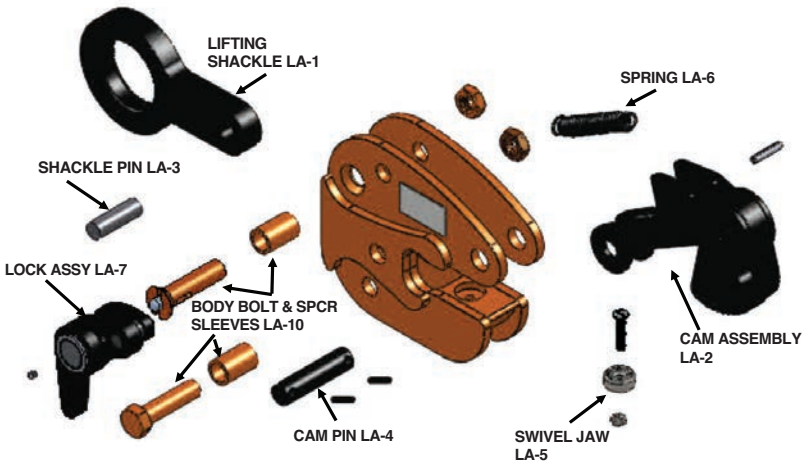
Rated Capacity Tons	Plate Thickness A	B	C	MAX. D	E	MAX. F	G	H	J	Weight (in pounds)
1/2	0-⅝ ½-1 ¾-1¼ 1¼-1¾	2¾ 2¾ 2¾ 2¾	6½ 6½ 6½ 6½	12 12 12 12	2⅜ 2⅜ 2⅜ 2⅜	5⅝ 6 6¼ 6¾	3¼ 3¼ 3¼ 3¼	2¼ 2¼ 2¼ 2¼	½ ½ ½ ½	10
1	0-¾ ½-1 ¾-1¼ 1-1½ 1½-2	3⅜ 3⅜ 3⅜ 3⅜ 3⅜	7¾ 7¾ 7¾ 7¾ 7¾	13¾ 13¾ 13¾ 13¾ 13¾	2 7/16 2 7/16 2 7/16 2 7/16 2 7/16	7 7¼ 8 8¼ 8¾	3½ 3½ 3½ 3½ 3½	2 5/8 2 5/8 2 5/8 2 5/8 2 5/8	5/8 5/8 5/8 5/8 5/8	15
2	0-1 ¾-1½ 1¼-2 2-2¾	3⅝ 3⅝ 3⅝ 3⅝	9½ 9½ 9½ 9½	17⅜ 17⅜ 17⅜ 17⅜	3½ 3½ 3½ 3½	8¾ 9¼ 9¾ 10½	4½ 4½ 4½ 4½	3 3 3 3	¾ ¾ ¾ ¾	36
4	3/16-1¼ 1-2 2-3 3-4	4⅜ 4⅜ 4⅜ 4⅜	11½ 11½ 11½ 11½	20⅛ 20⅛ 20⅛ 20⅛	3½ 3½ 3½ 3½	9¼ 10 11 12	4½ 4½ 4½ 4½	3¼ 3¼ 3¼ 3¼	1½ 1½ 1½ 1½	42
6	¼-1⅜ 1-2⅛ 2-3⅛ 3-4⅛	4⅞ 4⅞ 4⅞ 4⅞	12⅜ 12⅜ 12⅜ 12⅜	20⅞ 20⅞ 20⅞ 20⅞	3½ 3½ 3½ 3½	10¾ 11½ 12½ 13½	4¾ 4¾ 4¾ 4¾	3¾ 3¾ 3¾ 3¾	1½ 1½ 1½ 1½	64
8	⅜-1½ 1-2⅛ 2-3⅛ 3-4⅛	5⅜ 5⅜ 5⅜ 5⅜	12¾ 12¾ 12¾ 12¾	22⅝ 22⅝ 22⅝ 22⅝	3¾ 3¾ 3¾ 3¾	12⅜ 13 14⅝ 15⅝	5¼ 5¼ 5¼ 5¼	4¼ 4¼ 4¼ 4¼	2 2 2 2	83
12	½-2½ 2-4 4-6	7¼ 7¼ 7¼	17⅜ 17⅜ 17⅜	28⅛ 28⅛ 28⅛	3⅞ 3⅞ 3⅞	15 15/16 17 7/16 19 7/16	7 1/16 7 1/16 7 1/16	5⅜ 5⅜ 5⅜	2 2 2	203 212 222
16	½-2½	8	19 13/16	32 5/16	4½	19 13/16	8 11/16	6¼	2¼	350
20	½-3	8⅝	21 13/16	35⅞	5	21	11½	6⅞	2¾	456
25	½-2½ 3-5 4-6	8⅝ 8⅝ 8⅝	23⅝ 23⅝ 23⅝	35⅞ 35⅞ 35⅞	5 5 5	19 1/16 21 9/16 22 9/16	9⅝ 9⅝ 9⅝	6¾ 6¾ 6¾	3 3 3	483 495 502
30	½-3	9 9/16	24¼	39⅞	5	22 13/16	14 9/16	7⅝	3	625
50	3-5	10⅞	30⅞	46 7/16	5	29 3/16	11⅛	9¼	3½	1306

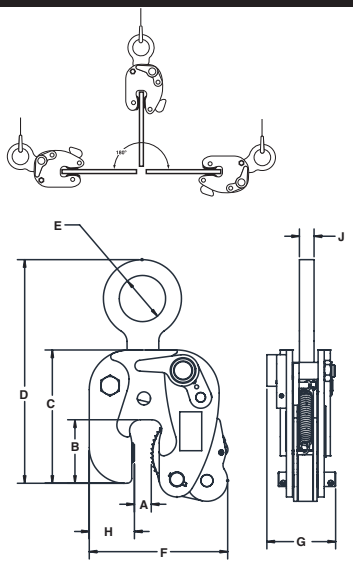
Consult factory for possible larger capacities. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

Model LA
Locking Type

Model LA is an ergonomic vertical lifting clamp capable of turning a single plate or member from horizontal to vertical to horizontal through a 180 degree arc. It incorporates a push button auxiliary lock. The "Lock Open – Lock Closed" feature facilitates attaching and removing the clamp from the plate.

MODEL LA EXPLODED VIEW





SPECIFICATIONS (in inches)

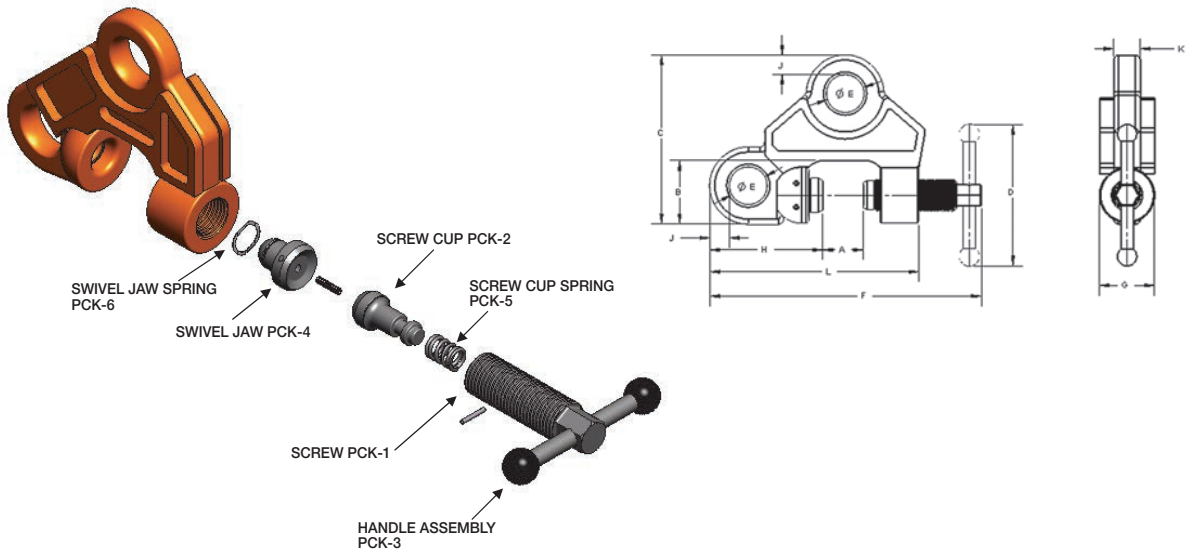
Rated Capacity Tons	Plate Thickness A	B	C	MAX. D	E	MAX. F	G	H	J	Weight (in pounds)
1/2	0-5/8	2	4 7/8	8	1 1/8	4 1/4	2 7/16	1 3/8	3/8	4 1/8
1	0-3/4	2	4 7/8	8	1 1/8	4 3/8	2 7/16	1 3/8	1/2	5 1/8
2	0-1	3 5/16	6 7/8	12 1/2	2 3/8	7 1/16	3 5/8	2 3/8	3/4	16 7/8
3	0-1	3 7/16	10	17	3 3/8	8 1/2	3 13/16	2 3/4	3/4	32

Consult factory for possible larger capacities. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

Model PCK-SL
Locking, Screw Type

The **PCK-SL** Locking Screw Clamp is a versatile multi-purpose lifting turning pulling clamp capable of lift and turn operations from the horizontal through 180 degrees arc. The clamp can also be used for the assembling of steel plates, structural members and welded sections. The clamp is generally used in pairs for the purpose of drawing two plates or members together or to a predetermined position adjacent to each other. The adjusting screw is used to accommodate various thicknesses of material and to facilitate the attachment of the clamp to the member being worked on.

MODEL PCK-SL EXPLODED VIEW



SPECIFICATIONS (in inches)

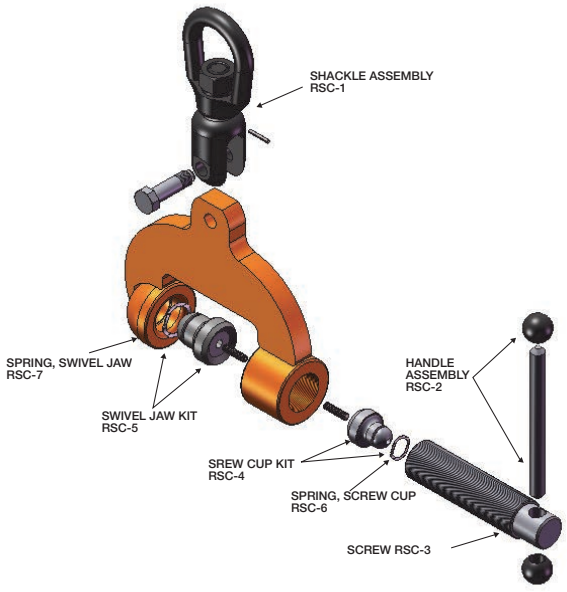
Capacity Tons	Plate Thickness A	B	C	D	E	F	G	H	J	K	L	Weight (in pounds)
1/2	0-1	2 1/2	5 1/2	5 11/16	1	9 1/8	1 3/4	3	1/2	5/16	6 1/8	4.6
1	0-1 1/2	3	6 3/4	5 11/16	1 3/8	10 1/2	2 1/8	4 1/32	11/16	3/4	7 5/8	9.6
2	0-1 1/2	3 3/16	7 1/2	7	1 1/2	11 1/2	2 3/8	4 9/16	3/4	1	8 1/2	14.5
3	3/16-1 3/8	3 1/2	8	6 11/16	1 3/4	12 1/8	2 5/8	5 3/8	7/8	1 1/8	9 1/8	17.9
5	0-1 1/2	3 13/16	9 5/16	7 3/8	2	13 3/8	2 7/8	5 7/8	1	1 3/8	10	28.4

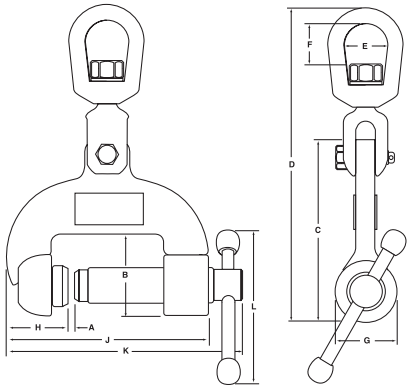
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Model RSC
Locking, Screw Type

The **Model RSC** is a lightweight screw clamp for bench work on steel plates of large thickness, and weighing less than 1,000 lbs.

MODEL RSC EXPLODED VIEW





SPECIFICATIONS (in inches)

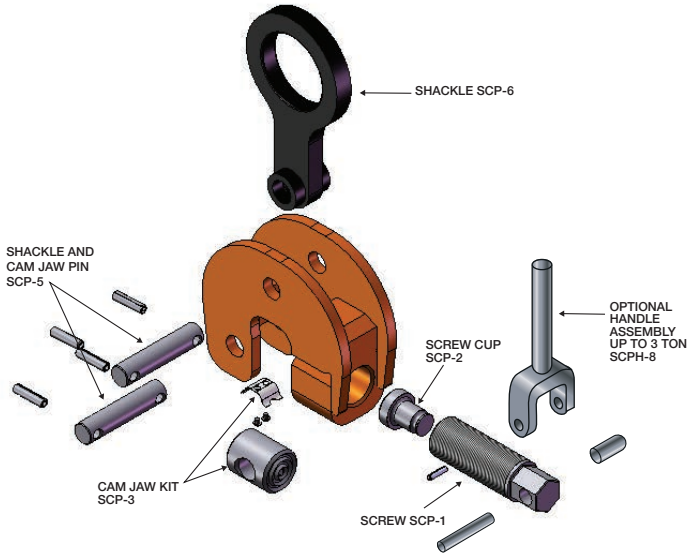
Rated Capacity Tons	Plate Thickness A	B	C	D	E	F	G	H	J	K	L	Weight (in pounds)
1/2	0-3	3 3/16	7	12 3/16	1 3/4	1 9/16	2 3/8	2 3/8	7 7/8	11 7/8	6 3/4	13 1/2
1/2	1 3/8-4 1/4	3 3/16	7 5/16	12 5/16	1 3/4	1 9/16	2 3/8	2 3/8	9 1/4	13 1/8	6 3/4	16 1/2

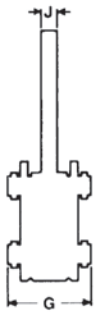
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

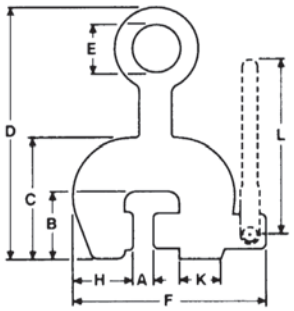
Model SCP
Locking, Screw Type

The **Model SCP** clamp is capable of handling steel plate from horizontal to vertical to horizontal through a 180 degree arc and may be used for handling plate at rolling and forming machines. These clamps feature a spring loaded pivoting cam jaw that "cams in" when a load is applied to the lifting shackle. Clamp is capable of handling plate horizontally when used in pairs or sets of pairs, or in a tripod arrangement.

MODEL SCP EXPLODED VIEW







SPECIFICATIONS (in inches)

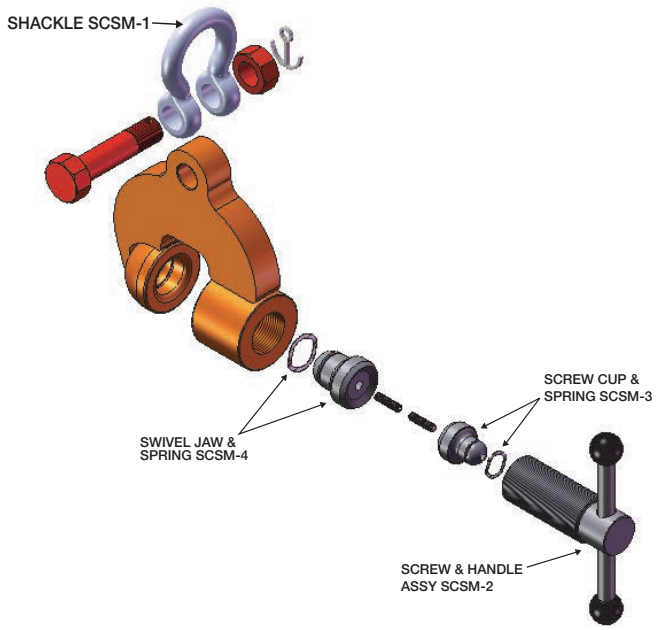
Rated Capacity Tons	Plate Thickness A	B	C	D	E	F	G	H	J	K	L	Weight (in pounds)
1/2	0-3/4	2 3/8	4 1/2	9	2 3/8	6 5/8	2 3/8	1 7/8	1/2	1 1/2	–	7
1½	0-1 1/4	2 7/8	5 1/2	10 9/16	2 5/8	8 7/16	3 3/8	2 3/8	5/8	1 3/4	8 1/4	13
3	0-2	3 1/8	5 3/4	12	2 3/8	10 13/16	4 1/16	2 13/16	3/4	2	8 5/8	19
6	0-2 1/2	4 5/16	7 9/16	14 3/8	3	14 3/8	5 3/8	3 7/16	1	2 15/16	–	44
10	0-3	5 1/2	9 3/4	19 1/4	3 1/4	16 3/8	6 3/4	4 3/8	1	3 1/8	–	93
15	0-4	7 1/4	12 1/8	22 7/8	3 3/4	21 1/2	8 1/4	5 9/16	1 1/4	4	–	210

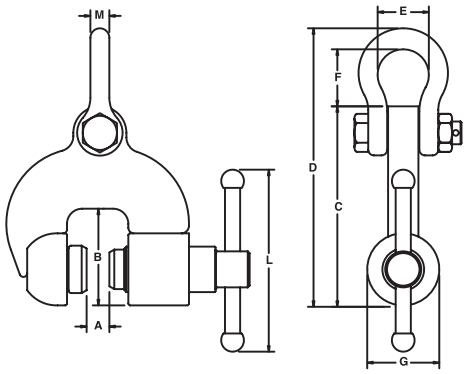
20, 30, 50, 100 and 150 Ton capacities available upon request. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Model SCSM
Locking, Screw Type

The **MODEL SCSM** is a locking screw clamp capable of handling a steel plate from horizontal to vertical to horizontal through a 180-degree arc. It is a lightweight clamp primarily used for bench work. It is capable of handling up to a 2,000-pound load.

MODEL SCSM EXPLODED VIEW





SPECIFICATIONS (in inches)

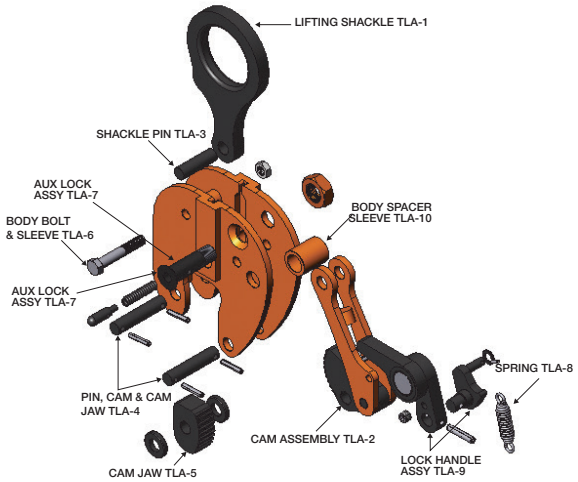
Rated Capacity Tons	Plate Thickness A	B	C	D	E	F	G	L	M	Weight (in pounds)
1	0-¾	3¼	6⅝	9³⁄₁₆	1¹¹⁄₁₆	1⅞	2½	6	⅝	12

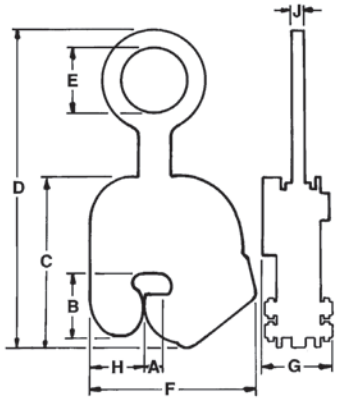
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Model TLA
Locking Type

The **Model TLA** is a vertical lifting clamp incorporating a "Lock Open" and a "Lock Closed" feature and an auxiliary push button lock. The clamp is capable of turning a steel plate from horizontal to vertical to horizontal through a 180 degree arc. The "Lock Open," "Lock Closed" feature facilitates attaching and removing the clamp from the plate.

MODEL TLA EXPLODED VIEW





SPECIFICATIONS (in inches)

Rated Capacity Tons	Plate Thickness A	B	C	MAX. D	E	MAX. F	G	H	J	Weight (in pounds)
½	0-⅝	2⅜	6¼	11⅛	2⅜	4¾	2¾	1 13/16	½	9
	½-1	2⅜	6¼	11⅛	2⅜	5⅛	2¾	1 13/16	½	10
	¾-1¼	2⅜	6¼	11⅛	2⅜	5⅜	2¾	1 13/16	½	11
	1¼-1¾	2⅜	6¼	11⅛	2⅜	5⅞	2¾	1 13/16	½	13
1	0-¾	3	7½	13⅛	2 7/16	6	2 13/16	2	⅝	14
	½-1	3	7½	13⅛	2 7/16	6¼	2 13/16	2	⅝	15
	¾-1¼	3	7½	13⅛	2 7/16	6½	2 13/16	2	⅝	16
	1-1½	3	7½	13⅛	2 7/16	6¾	2 13/16	2	⅝	17
	1½-2	3	7½	13⅛	2 7/16	7¼	2 13/16	2	⅝	18
2	0-1	3½	9⅜	16¼	3⅝	8⅞	3¾	2⅞	¾	32
	¾-1½	3½	9⅜	16¼	3⅝	9⅜	3¾	2⅞	¾	33
	1¼-2	3½	9⅜	16¼	3⅝	9⅞	3¾	2⅞	¾	35
	2-2¾	3½	9⅜	16¼	3⅝	10⅝	3¾	2⅞	¾	37
4	3/16-1¼	4	9⅞	17⅝	3⅝	9	3 13/16	3	¾	36
	1-2	4	9⅞	17⅝	3⅝	9¾	3 13/16	3	¾	37
	2-3	4	9⅞	17⅝	3⅝	10¾	3 13/16	3	¾	40
	3-4	4	9⅞	17⅝	3⅝	11¾	3 13/16	3	¾	43
6	¼-1⅜	4⅝	11⅛	20⅛	3½	10¼	3⅞	3⅜	¾	49
	1-2⅛	4⅝	11⅛	20⅛	3½	11	3⅞	3⅜	¾	51
	2-3⅛	4⅝	11⅛	20⅛	3½	12	3⅞	3⅜	¾	54
	3-4⅛	4⅝	11⅛	20⅛	3½	13	3⅞	3⅜	¾	57
8	⅜-1½	4 13/16	12 5/16	21 5/16	3¾	11½	4¾	3⅞	1	72
	1-2⅛	4 13/16	12 5/16	21 5/16	3¾	12⅛	4¾	3⅞	1	74
	2-3⅛	4 13/16	12 5/16	21 5/16	3¾	13⅛	4¾	3⅞	1	77
	3-4⅛	4 13/16	12 5/16	21 5/16	3¾	14⅛	4¾	3⅞	1	80
12	½-2½	6¼	15⅛	26 3/16	3⅞	14½	6¾	4⅜	1¾	142
	2-4	6¼	15⅛	26 3/16	3⅞	16	6¾	4⅜	1¾	150
	3-5	6¼	15⅛	26 3/16	3⅞	17	6¾	4⅜	1¾	154
	4-6	6¼	15⅛	26 3/16	3⅞	18	6¾	4⅜	1¾	158
20	½-3	8⅛	21¾	36 11/16	5	20 11/16	8 1/16	6 3/16	2¾	415
	2½-4½	8⅛	21¾	36 11/16	5	22 3/16	8 1/16	6 3/16	2¾	426
	3-5	8⅛	21¾	36 11/16	5	22 11/16	8 1/16	6 3/16	2¾	430
	5-7	8⅛	21¾	36 11/16	5	24 11/16	8 1/16	6 3/16	2¾	445

Consult factory for possible larger capacities. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

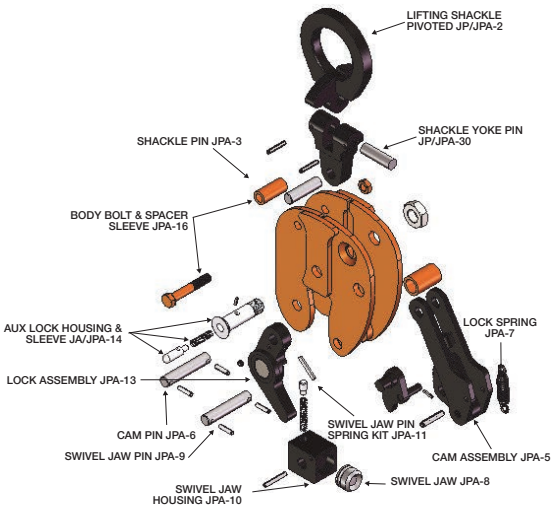
VERTICAL + 180 + SIDE PULL

Model JPA
Locking Type

The **Model JPA** is a vertical lifting clamp capable of turning a single plate or member from horizontal to vertical to horizontal through a 180 degree arc. Incorporates a push button auxiliary lock. Permits side loading of lifting shackle to 90 degrees by derating of clamp's rated capacity. Refer to FIGURE 1 for derated capacities.

Model JPA incorporates a pivoting shackle that permits side loading of the lifting shackle at 100 percent of rated capacity from vertical to 30 degrees, 75 percent of rated capacity between 30 and 45 degrees and 50 percent of rated capacity between 45 and 90 degrees.

MODEL JPA EXPLODED VIEW



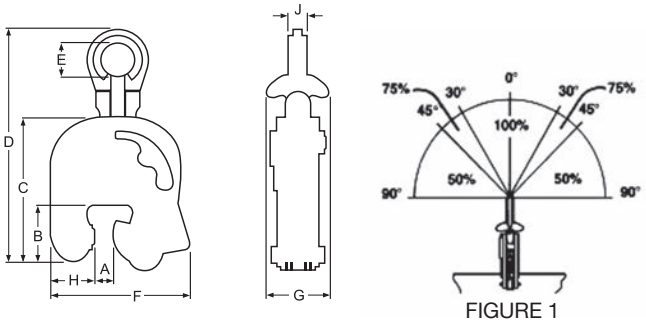


FIGURE 1

SPECIFICATIONS (in inches)

Rated Capacity Tons	Plate Thickness A	B	C	MAX. D	E	MAX. F	G	H	J	Weight (in pounds)
1/2	0-5/8 1/2-1 3/4-1 1/4 1 1/4-1 3/4	2 3/4 2 3/4 2 3/4 2 3/4	6 1/2 6 1/2 6 1/2 6 1/2	12 12 12 12	2 3/8 2 3/8 2 3/8 2 3/8	5 5/8 6 6 1/4 6 3/4	3 1/4 3 1/4 3 1/4 3 1/4	2 1/4 2 1/4 2 1/4 2 1/4	1/2 1/2 1/2 1/2	12
1	0-3/4 1/2-1 3/4-1 1/4 1-1 1/2 1 1/2-2	3 3/8 3 3/8 3 3/8 3 3/8 3 3/8	7 3/4 7 3/4 7 3/4 7 3/4 7 3/4	13 3/4 13 3/4 13 3/4 13 3/4 13 3/4	2 5/8 2 5/8 2 5/8 2 5/8 2 5/8	7 7 1/4 8 8 1/4 8 3/4	3 1/2 3 1/2 3 1/2 3 1/2 3 1/2	2 5/8 2 5/8 2 5/8 2 5/8 2 5/8	5/8 5/8 5/8 5/8 5/8	20
2	0-1 3/4-1 1/2 1 1/4-2 2-2 3/4	3 5/8 3 5/8 3 5/8 3 5/8	9 1/2 9 1/2 9 1/2 9 1/2	17 3/8 17 3/8 17 3/8 17 3/8	3 1/2 3 1/2 3 1/2 3 1/2	8 3/4 9 1/4 9 3/4 10 1/2	4 1/2 4 1/2 4 1/2 4 1/2	3 3 3 3	3/4 3/4 3/4 3/4	40
4	3/16-1 1/4 1-2 2-3 3-4	4 3/8 4 3/8 4 3/8 4 3/8	11 1/2 11 1/2 11 1/2 11 1/2	20 1/8 20 1/8 20 1/8 20 1/8	3 1/2 3 1/2 3 1/2 3 1/2	9 1/4 10 11 12	4 1/2 4 1/2 4 1/2 4 1/2	3 1/4 3 1/4 3 1/4 3 1/4	1 1/2 1 1/2 1 1/2 1 1/2	50
6	1/4-1 3/8 1-2 1/8 2-3 1/8 3-4 1/8	4 7/8 4 7/8 4 7/8 4 7/8	12 3/8 12 3/8 12 3/8 12 3/8	20 7/8 20 7/8 20 7/8 20 7/8	3 1/2 3 1/2 3 1/2 3 1/2	10 3/4 11 1/2 12 1/2 13 1/2	4 3/4 4 3/4 4 3/4 4 3/4	3 3/4 3 3/4 3 3/4 3 3/4	1 3/4 1 3/4 1 3/4 1 3/4	72
8	3/8-1 1/2 1-2 1/8 2-3 1/8 3-4 1/8	5 3/8 5 3/8 5 3/8 5 3/8	12 3/4 12 3/4 12 3/4 12 3/4	22 5/8 22 5/8 22 5/8 22 5/8	3 3/4 3 3/4 3 3/4 3 3/4	12 3/8 13 14 5/8 15 5/8	5 1/4 5 1/4 5 1/4 5 1/4	4 1/4 4 1/4 4 1/4 4 1/4	2 2 2 2	93
12	1/2-2 1/2 2-4 4-6	7 1/4 7 1/4 7 1/4	17 3/8 17 3/8 17 3/8	28 1/8 28 1/8 28 1/8	3 7/8 3 7/8 3 7/8	15 15/16 17 7/16 19 7/16	7 1/16 7 1/16 7 1/16	5 3/8 5 3/8 5 3/8	2 2 2	203 212 222
16	1/2-2 1/2	8	19 13/16	32 5/16	4 1/2	19 13/16	8 11/16	6 1/4	2 1/4	350
20	1/2-3	8 5/8	21 13/16	35 7/8	5	21	11 1/2	6 7/8	2 3/4	456
25	1/2-2 1/2 3-5 4-6	8 5/8 8 5/8 8 5/8	23 5/8 23 5/8 23 5/8	35 7/8 35 7/8 35 7/8	5 5 5	19 1/16 21 9/16 22 9/16	9 5/8 9 5/8 9 5/8	6 3/4 6 3/4 6 3/4	3 3 3	483 495 502
30	1/2-3	9 9/16	24 1/4	39 7/8	5	22 13/16	14 9/16	7 5/8	3	625
50	3-5	10 7/8	30 7/8	46 7/16	5	29 3/16	11 1/8	9 1/4	3 1/2	1306

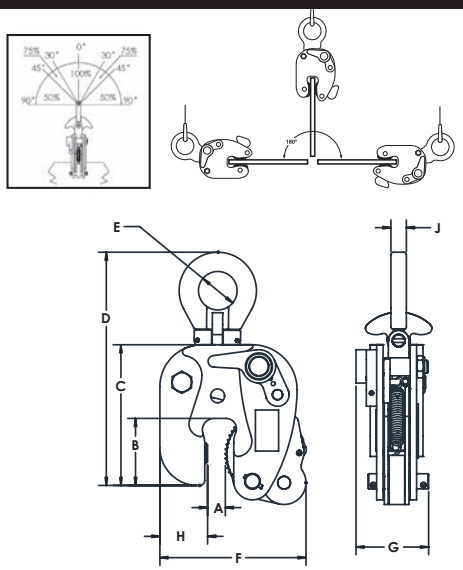
Consult factory for possible larger capacities. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

Model LPA
Locking Type

Model LPA is an ergonomic vertical lifting clamp capable of turning a single plate or member from horizontal to vertical to horizontal through a 180 degree arc. It incorporates an auxiliary push button lock. Permits side loading of lifting shackle to 90 degrees by de-rating of clamp's capacity. Refer to FIGURE 1 for de-rated capacities. The "Lock Open – Lock Closed" feature facilitates attaching and removing the clamp from the plate.

The **Model LPA** incorporates a pivoting shackle that permits side loading of the lifting shackle at 100 percent of rated capacity from vertical to 30 degrees, 75 percent of rated capacity between 30 and 45 degrees, and 50 percent of rated capacity between 45 and 90 degrees.

MODEL LPA EXPLODED VIEW



SPECIFICATIONS (in inches)

Rated Capacity Tons	Plate Thickness A	B	C	MAX. D	E	MAX. F	G	H	J	Weight (in pounds)
1/2	0-5/8	2	5 1/16	8 11/16	1 1/8	4 1/4	2 7/16	1 3/8	3/8	4 1/8
1	0-3/4	2	5 1/8	8 11/16	1 1/8	4 3/8	2 7/16	1 3/8	1/2	5 1/8
2	0-1	3 5/16	6 7/8	12 1/2	1 7/8	7 1/16	3 5/8	2 3/8	3/4	16 7/8
3	0-1	3 7/16	10	17	3 5/8	8 1/2	3 13/16	2 3/4	3/4	32

Consult factory for possible larger capacities. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

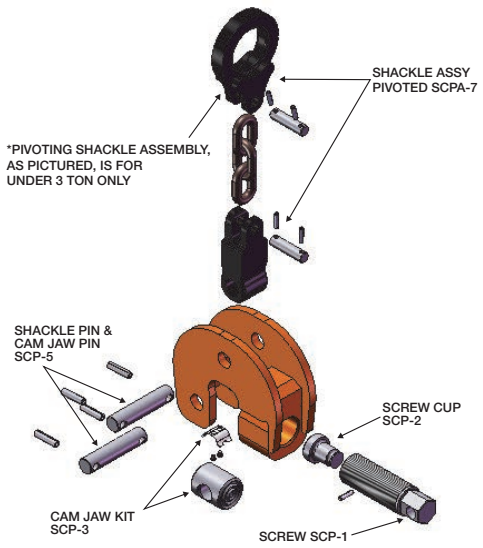
VERTICAL + 180 + PULL

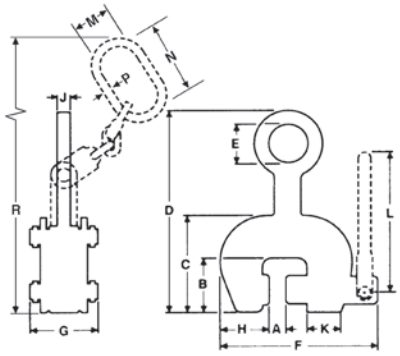
Model SCPA
Locking, Screw Type

The **SCPA** clamp is capable of handling steel plate from horizontal to vertical to horizontal through a 180 degree arc and may be used for handling plate at rolling and forming machines. These clamps feature a spring loaded pivoting cam jaw that "cams in" when a load is applied to the lifting shackle. Clamp is capable of handling plate horizontally when used in pairs or sets of pairs, or in a tripod arrangement.

*Pivoting shackle assembly, as shown, is available on capacities 3 tons and larger.

MODEL SCPA EXPLODED VIEW





SPECIFICATIONS (in inches)

Rated Capacity Tons	Plate Thickness A	B	C	E	D	F	G	H	J	K	L	M	N	P	R	Weight (in pounds)
1/2	0-¾	2⅜	4½	2⅜	9	6⅝	2⅜	1⅞	½	1½	—	1¾	1¾	9/16	12 3/16	8
1½	0-1¼	2⅞	5½	2⅝	10 9/16	8 7/16	3⅜	2⅜	⅝	1¾	8¼	2	2	11/16	14 3/16	15
3	0-2	3⅛	5¾	2⅜	12	10 13/16	4 1/16	2 13/16	¾	2	8⅝	3	6	¾	21⅜	24
6	0-2½	4 5/16	7 9/16	3	14⅜	14⅜	5⅜	3 7/16	1	2 15/16	—	3½	7	1	27¾	57
10	0-3	5½	9¾	3¼	19¼	16⅜	6¾	4⅜	1	3⅛	—	3½	7	1	29 7/16	134
15	0-4	7¼	12⅛	3¾	22⅞	21½	8¼	5 9/16	1¼	4	—	3⅞	8	1¼	36½	312

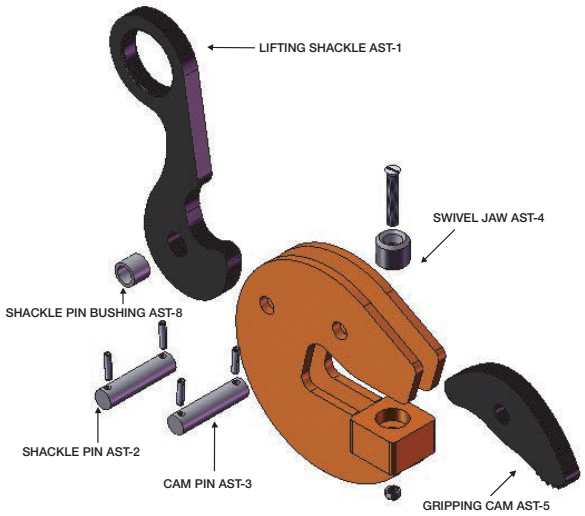
20, 30, 50, 100 and 150 Ton capacities available upon request. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

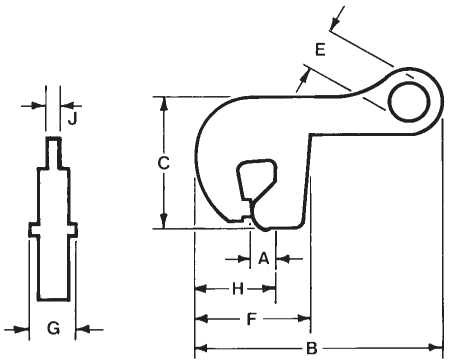
STRUCTURAL – SHAPES

Model AST
Non-Locking Type

Both the **Model AST** and **ASTL** were developed primarily for lifting, turning and stacking lightweight beams and structural shapes while a constant tension is applied to the lifting shackle. The horizontal shackle permits a beam to be lifted with the web in a near horizontal position by placing the clamp on the load with the shackle positioned over the web, and between the flanges. With a beam lying in a horizontal position, and the clamp placed with the shackle overhanging the flange, the beam can be lifted, turned 90 degrees, and raised in a vertical position.

MODEL AST EXPLODED VIEW





SPECIFICATIONS (in inches)

Rated Capacity Tons	Plate Thickness A	MAX. B	C	D	E	F	G	H	J	Weight (in pounds)
1/2	0-¾	10¾	6 1/16	-	1¾	6 3/16	1⅝	2½	½	10
1½	0-¾	13	8½	-	2½	7	2 3/16	3	⅝	20
3	0-1½	19¼	12½	-	3¾	11	3	4⅝	¾	50

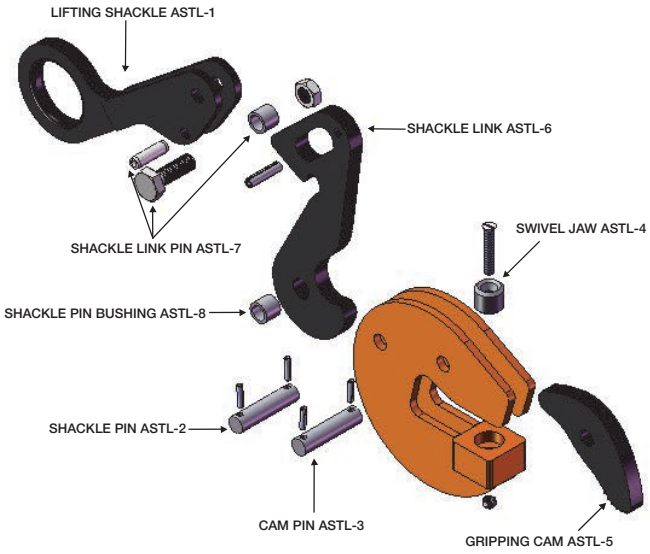
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

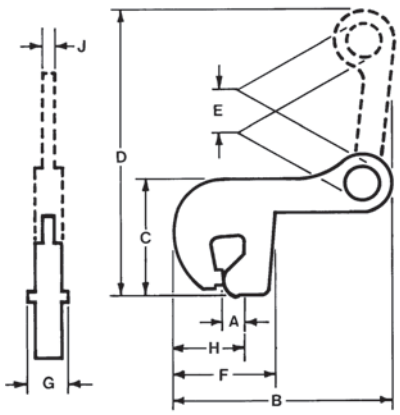
Model ASTL
Non-Locking Type

Both the **Model AST** and **ASTL** were developed primarily for lifting, turning and stacking lightweight beams and structural shapes while a constant tension is applied to the lifting shackle. The horizontal shackle permits a beam to be lifted with the web in a near horizontal position by placing the clamp on the load with the shackle positioned over the web, and between the flanges. With a beam lying in a horizontal position, and the clamp placed with the shackle overhanging the flange, the beam can be lifted, turned 90 degrees, and raised in a vertical position.

The **Model ASTL** includes all of the feature of the **Model AST** plus a linkage which permits the tool to be removed remotely by setting the load down with the sling slack, then lifting the crane hook.

MODEL ASTL EXPLODED VIEW





SPECIFICATIONS (in inches)

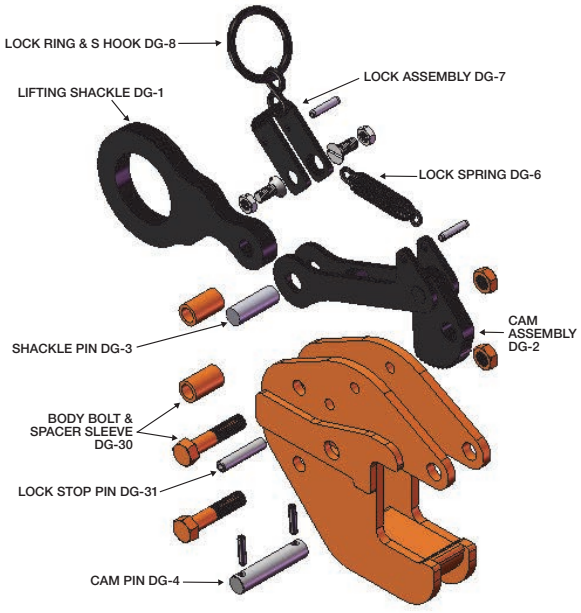
Rated Capacity Tons	Plate Thickness A	MAX. B	C	D	E	F	G	H	J	Weight (in pounds)
1/2	0-¾	10¾	6 1⁄16	14	1¾	6 3⁄16	1¾	2½	½	10
1½	0-¾	13	8½	18½	2½	7	2 9⁄16	4½	⅝	24
3	0-1½	19¼	12½	25	3¾	11 3⁄16	3⅜	4⅝	¾	63

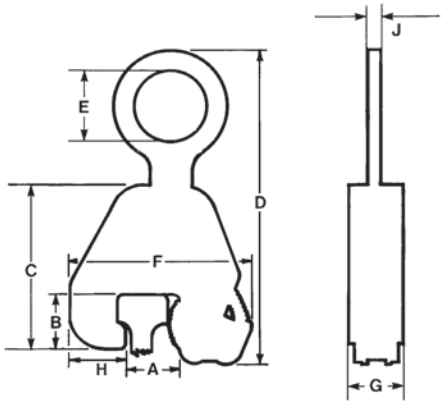
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Model DG
Locking Type

The **Model DG** rail clamp is used for lifting and transporting crane rails and railroad rails. Lightness of weight allows it to be hand applied and hand removed. The **Model DG** possesses all the features of the Model FR. All the repair parts are identical to same tonnage of the FR, except the swivel jaw has been eliminated.

MODEL DG EXPLODED VIEW





SPECIFICATIONS (in inches)

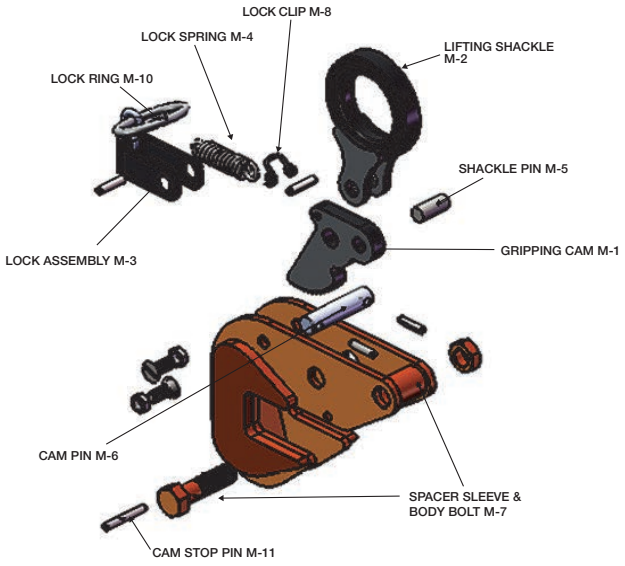
Rated Capacity Tons	Model	Capacity Std. Rail A	Capacity Crane Rail A	B	C	D	E	F	G	H	J	Weight (in pounds)
1/2	25	12-25 LB.	NONE	1 5/16	6 11/16	11 1/4	2 3/8	5 3/8	2 1/2	1 5/8	1/2	10
1/2	50	30-50 LB.	NONE	1 3/8	6 11/16	11 1/4	2 3/8	6	2 1/2	1 5/8	1/2	11
1	132	85-155 LB.	NONE	2 1/2	8 1/8	13 1/2	2 5/8	8 5/8	3 1/4	1 7/8	5/8	16
2	105	60-155 LB.	104 & 105 LB.	2 5/8	9	16	3 5/8	9 1/8	3 1/4	2 1/2	3/4	26
2	175	NONE	135, 171, 175 LB.	2 5/8	9 1/2	16	3 5/8	10 3/8	3 1/4	2 1/2	3/4	26

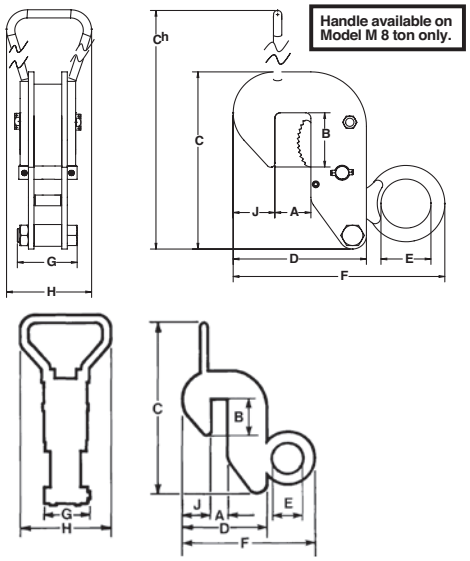
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. OTHER CAPACITIES AVAILABLE UPON REQUEST.

Model M
Locking Type

The **Model M** is a multipurpose clamp used for positioning, sorting, erection and handling of prefabricated sections. The split lower jaw enables the clamp to be particularly useful in handling structural shapes. The **Model M** incorporates a "Lock Closed" feature which facilitates attaching the clamp to the member being lifted. These clamps must be used in pairs, sets of pairs, or in a tripod arrangement for transporting plate horizontally. Handle is available on 8 ton clamp only.

MODEL M EXPLODED VIEW





SPECIFICATIONS (in inches)

Rate Capacity Tons per Clamp	Plate Thickness A	B	C	C^h	D	MAX. E	F	G	H	J	Weight (in pounds)
1/2	0-1	2 5/16	7 7/16	–	4 11/16	2 1/4	8 7/8	2 5/8	–	1 7/16	7
	3/4-1 1/2	2 5/16	7 1/16	–	5 3/16	2 1/4	9 3/8	2 5/8	–	1 7/16	8
	1 1/4-2	2 5/16	7 1/16	–	5 11/16	2 1/4	9 7/8	2 5/8	–	1 7/16	9
1	0-1	2 1/2	8 1/8	–	5 1/2	2 1/4	9 1/2	2 3/4	–	1 7/8	11
	3/4-1 1/2	2 1/2	8 1/8	–	6	2 1/4	10	2 3/4	–	1 7/8	12
	1 1/4-2	2 1/2	8 1/8	–	6 1/2	2 1/4	10 1/2	2 3/4	–	1 7/8	13
2	0-1 1/4	3 3/16	10 3/4	–	6 9/16	3 1/16	12 1/8	3 7/8	–	2	23
	1-2	3 3/16	10 3/4	–	7 3/16	3 1/16	12 7/8	3 7/8	–	2	24
	1 3/4-2 3/4	3 3/16	10 3/4	–	7 15/16	3 1/16	13 5/8	3 7/8	–	2	27
4	0-1 1/2	3 13/16	12	–	7 3/4	3 5/8	14 1/2	4 3/8	–	2 3/4	36
	1 1/4-2 1/2	3 13/16	12	–	8 3/4	3 5/8	16 1/2	4 3/8	–	2 3/4	38
	2 1/4-3 1/2	3 13/16	12	–	9 3/4	3 5/8	14 1/2	4 3/8	–	2 3/4	41
8	0-2	4 15/16	–	19 1/4	11 7/16	4	19 1/2	5 1/2	8	4	107
	1 3/4-3 1/2	4 15/16	–	19 1/4	12 15/16	4	21	5 1/2	8	4	110
	3 1/4-5	4 15/16	–	19 1/4	14 7/16	4	22 1/2	5 1/2	8	4	125

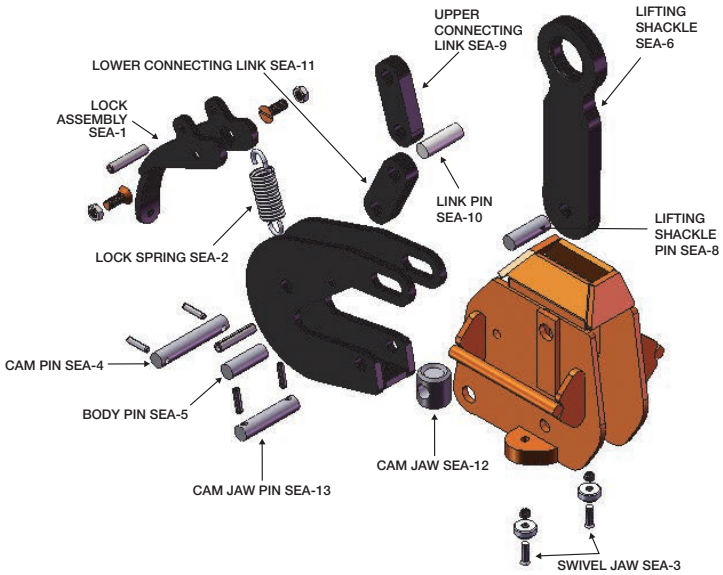
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

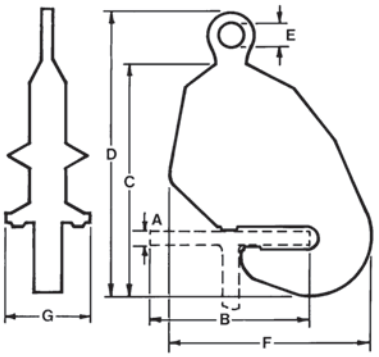
Model SEA
Locking Type

The **Model SEA** is a clamp used primarily for erection of structural beams. Configuration of the lower hook assembly and the over center position of the shackle permits a clamp to grip closer to the beam web, stabilizing the load and holding it with the web near horizontal for easy alignment of bolt holes.

The clamp incorporates a “Lock Open” and “Lock Closed” feature which facilitates in attaching and removing the clamp from the beam.

MODEL SEA EXPLODED VIEW





SPECIFICATIONS (in inches)

Rated Capacity Tons	Plate Thickness A	Flange Width B	C	Max. D	E	F	G	Weight (in pounds)
1	0-¾	3-8	11 5/16	17⅛	1⅛	9¼	5⅞	22
2	0-1	5-12	17½	21½	1½	14⅛	6⅞	73
4	0-1	7-14	19¾	27½	1¾	17⅞	8 11/16	116
	¾-1¾	7-14	20½	28¼	1¾	17⅞	8 11/16	120
8	0-1½	10-20	25½	31	2	21½	9¾	200
	1-2½	10-20	26½	32	2	21½	9¾	204
15	¾-2¼	10-20	31	41½	3¾	21½	10¾	343
	2-3½	10-20	32¼	42¾	3¾	21½	10¾	

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

HORIZONTAL

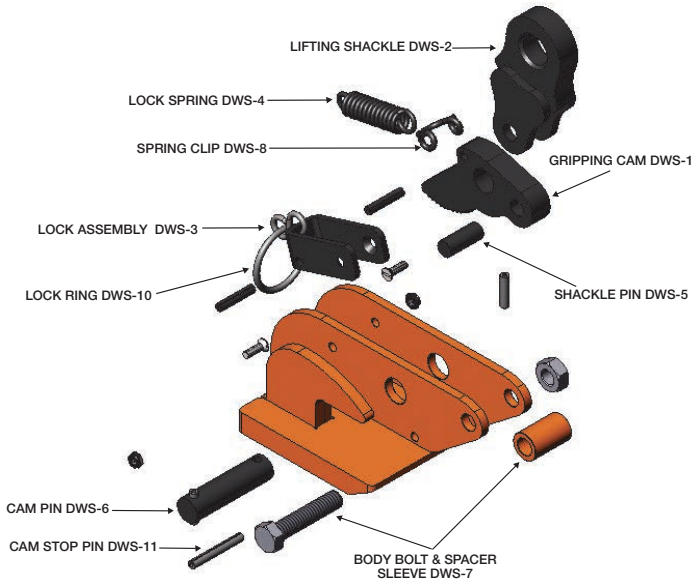
Model DWS
Locking Type

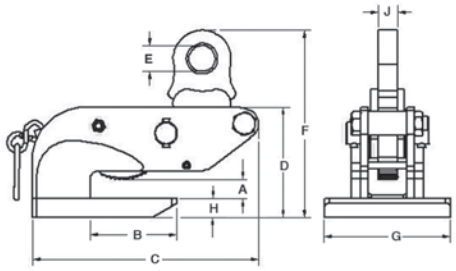
Model DWS is a horizontal lifting clamp utilizing Renfroe's famous "lock-closed" feature. This clamp comes in four sizes:

- **1/4 Ton: 0 – 1/2" opening**
- **1/2 Ton: 0 – 3/4" opening**
- **1-1/2 Ton: 0 – 1" opening**
- **3 Ton: 0 – 1-1/4" opening**

Recommended for use in pairs.

MODEL DWS EXPLODED VIEW





SPECIFICATIONS (in inches)

Rate Capacity Tons per Clamp	Plate Thickness A	B	C	D	Std. E	Option E	Max. F	G	H	J	Weight (in pounds)
1/4	0 - 1/2	2 7/8	6 5/8	3 3/16	3/4	2	5 3/4	3 1/2	3/8	1/2	5
1/2	0 - 3/4	3	7	3 9/16	1	2 1/4	7 3/8	4	1/2	5/8	9
1 1/2	0 - 1	3 1/2	8 1/4	4 1/4	1	2 1/4	8 1/8	5	5/8	5/8	14
3	0 - 1 1/4	4 1/2	11 3/4	5 13/16	1 1/8	3 1/2	11 3/4	6 1/2	1	1	37

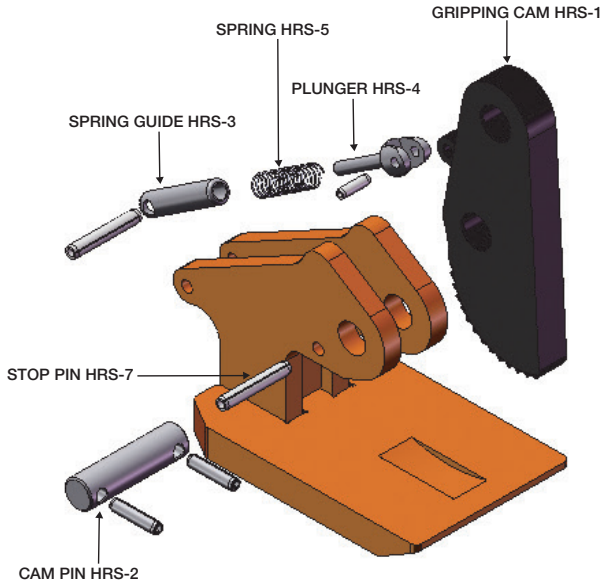
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

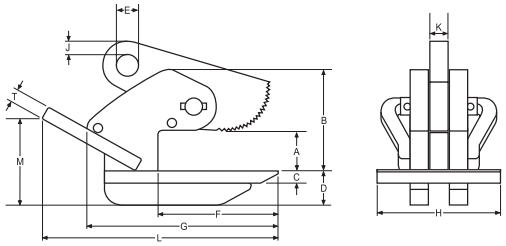
Model HRS
Non-Locking Type

The **Model HRS** is a horizontal lifting clamp that has a spring loaded open and closed position. The spring closed position allows one-man operation of multiple clamps. The clamps stay in position where they're attached until spring open is actuated.

These clamps must be used in pairs, sets of pairs, or in a tripod arrangement for transporting plate horizontally.

MODEL HRS EXPLODED VIEW





SPECIFICATIONS (in inches)

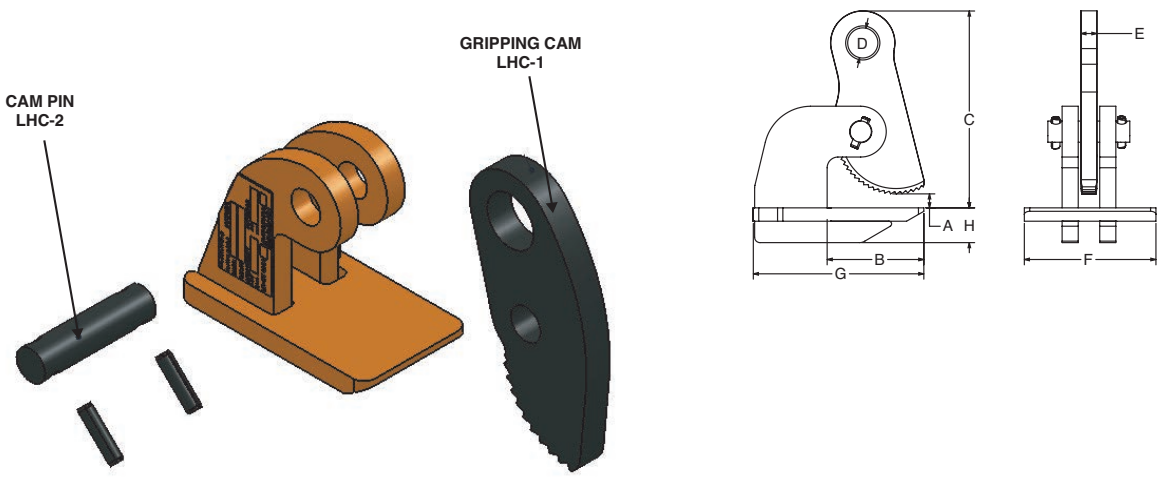
Rate Capacity Tons per Clamp	Plate Thickness A	B	C	D	E	F	G	H	J	K	L	M	T	Weight (in pounds)
1/4	1/16-3/4	2 9/16	3/8	–	1/2	3	4 3/4	3	1/4	1/2	–	–	–	4
1/2	1/16-1	3 5/16	1/2	–	1/2	3 3/4	5 15/16	3 1/4	5/16	1/2	–	–	–	5
1	1/16-1 1/4	3 11/16	5/8	–	5/8	4	6 3/16	3 1/2	7/16	5/8	–	–	–	7
2	1/16/-1 1/2	4 1/2	3/4	–	1 1/16	5 3/8	8 5/8	5	9/16	3/4	10 15/16	3 1/4	5/8	20
3	1/16-1 3/4	5 3/4	1	–	1 1/4	6 3/4	10 3/4	7	3/4	1	13	4	5/8	34
4	1/16-2	5 3/4	3/4	2	1 1/4	6 3/4	10 3/4	7	3/4	1	13 5/16	5	3/4	44

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.
Backpad available only on 4 ton model. Handles are standard on 2, 3 and 4 ton models.

Model LHC
Non-Locking Type

The **LHC Model** is a horizontal lifting clamp intended to be used in pairs, sets of pairs or in a tripod arrangement for transporting steel plates horizontally. The clamp is designed to lift individual sheets horizontally. Cam operations ensure a tight grip on the load. Serrated gripping cam bites into load for positive grip. Clamps rest in position on edge of plate until tension is applied to the load sling. Clamps must be used in single pairs (2), double pairs (4), or tripod (3) configuration with a lifting sling.

MODEL LHC EXPLODED VIEW



SPECIFICATIONS (in inches)

Rated Capacity Tons per Clamp	Plate Thickness A	B	C	D	E	F	G	H	Weight Each (in pounds)
1/4	0-1	2 3/8	5	1	1/2	2 1/4	4	3/8	3
1/2	0-2	4 3/8	9 1/4	1 3/8	1/2	4 7/8	7 3/4	5/8	14
3/4	0-2	4 3/8	9 1/4	1 13/32	3/4	5 3/8	7 3/4	3/4	19
1 1/2	0-2	4 9/16	9 1/4	1 13/32	3/4	6 1/8	7 15/16	1	26
3	0-2	4 1/2	9 1/4	1 13/32	3/4	6 1/8	7 15/16	1 5/8	24
4	0-3	7	12 5/16	1 13/32	1	6 1/2	10 3/8	2 3/16	48

Consult factory for possible larger capacities. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

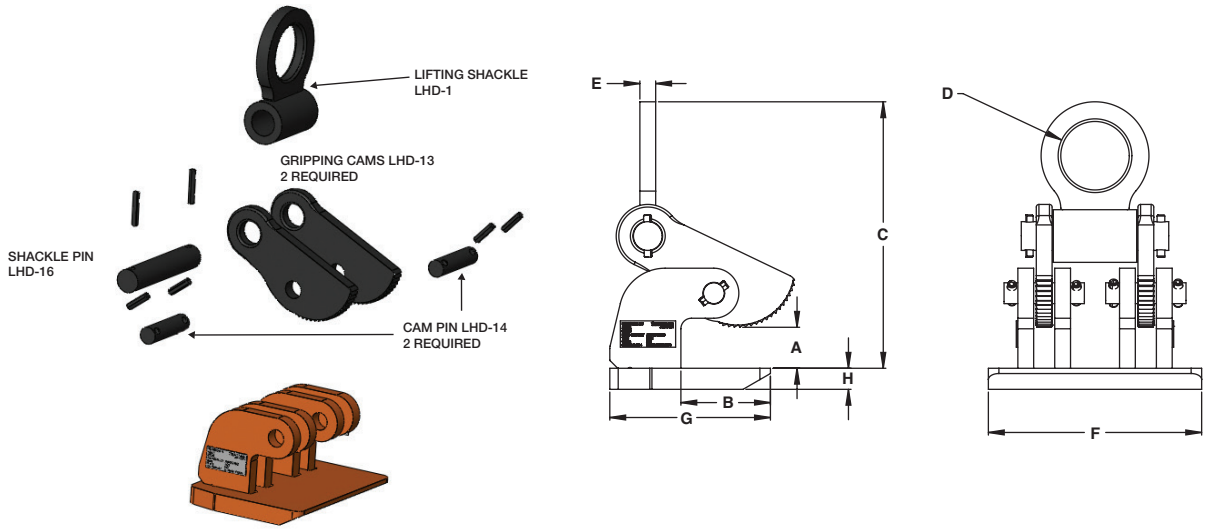
Model LHD
Non-Locking Type

The **Model LHD** is a horizontal lifting clamp intended to be used in pairs, sets of pairs, or in a tripod arrangement for transporting steel plates horizontally. The **Model LHD** possesses dual cam assemblies which provides two gripping surfaces.

Equipped with serrated gripping cams as standard equipment, this model is available with smooth, bronze or stainless steel surfaces gripping cams to prevent marring when handling polished metals such as stainless steel, copper, aluminum, etc.

The **Model LHD** is a Non-Locking clamp and requires a constant tension applied to the lifting shackle throughout the entire operation.

MODEL LHD EXPLODED VIEW



SPECIFICATIONS (in inches)

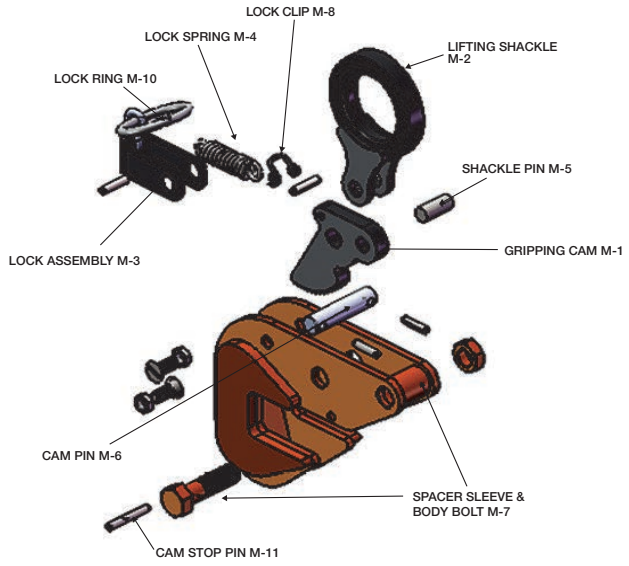
Rated Capacity Tons per Clamp	Plate Thickness A	B	C	D	E	F	G	H	Weight Each (in pounds)
1 1/2	0-2	4.25	14 13/16	3 1/4	3/4	10 1/4	7 5/8	3/4	46
3	0-2	4.25	15 1/8	3 1/4	3/4	10 1/4	7 5/8	1	56
6	0-2	4.5	16 3/16	3 1/4	1 5/8	10 1/4	7 7/8	1 5/8	59
8	0-3	6 5/8	17 1/4	3 1/4	1 5/8	11 1/4	10	2 3/16	110

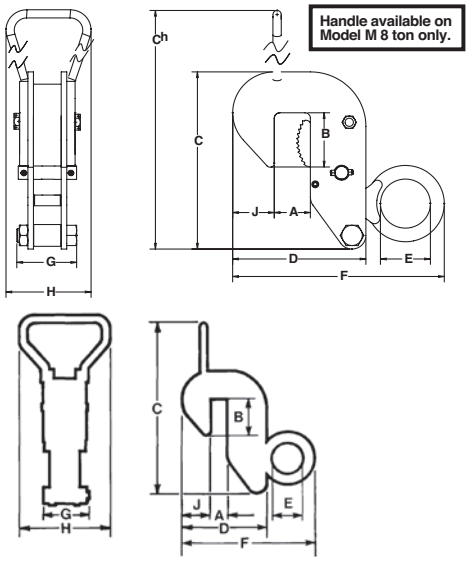
Consult factory for possible larger capacities. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

Model M
Locking Type

The **Model M** is a multipurpose clamp used for positioning, sorting, erection and handling of prefabricated sections. The split lower jaw enables the clamp to be particularly useful in handling structural shapes. The **Model M** incorporates a "Lock Closed" feature which facilitates attaching the clamp to the member being lifted. These clamps must be used in pairs, sets of pairs, or in a tripod arrangement for transporting plate horizontally. Handle is available on 8 ton clamp only.

MODEL M EXPLODED VIEW





SPECIFICATIONS (in inches)

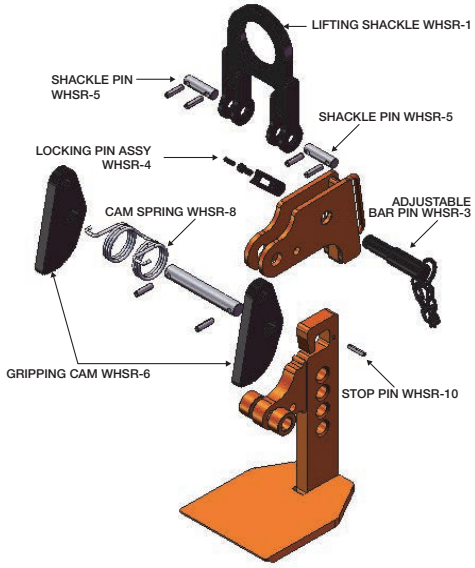
Rate Capacity Tons per Clamp	Plate Thickness A	B	C	C^h	D	MAX. E	F	G	H	J	Weight (in pounds)
1/2	0-1	2 5/16	7 7/16	–	4 11/16	2 1/4	8 7/8	2 5/8	–	1 7/16	7
	3/4-1 1/2	2 5/16	7 1/16	–	5 3/16	2 1/4	9 3/8	2 5/8	–	1 7/16	8
	1 1/4-2	2 5/16	7 1/16	–	5 11/16	2 1/4	9 7/8	2 5/8	–	1 7/16	9
1	0-1	2 1/2	8 1/8	–	5 1/2	2 1/4	9 1/2	2 3/4	–	1 7/8	11
	3/4-1 1/2	2 1/2	8 1/8	–	6	2 1/4	10	2 3/4	–	1 7/8	12
	1 1/4-2	2 1/2	8 1/8	–	6 1/2	2 1/4	10 1/2	2 3/4	–	1 7/8	13
2	0-1 1/4	3 3/16	10 3/4	–	6 9/16	3 1/16	12 1/8	3 7/8	–	2	23
	1-2	3 3/16	10 3/4	–	7 3/16	3 1/16	12 7/8	3 7/8	–	2	24
	1 3/4-2 3/4	3 3/16	10 3/4	–	7 15/16	3 1/16	13 5/8	3 7/8	–	2	27
4	0-1 1/2	3 13/16	12	–	7 3/4	3 5/8	14 1/2	4 3/8	–	2 3/4	36
	1 1/4-2 1/2	3 13/16	12	–	8 3/4	3 5/8	16 1/2	4 3/8	–	2 3/4	38
	2 1/4-3 1/2	3 13/16	12	–	9 3/4	3 5/8	14 1/2	4 3/8	–	2 3/4	41
8	0-2	4 15/16	–	19 1/4	11 7/16	4	19 1/2	5 1/2	8	4	107
	1 3/4-3 1/2	4 15/16	–	19 1/4	12 15/16	4	21	5 1/2	8	4	110
	3 1/4-5	4 15/16	–	19 1/4	14 7/16	4	22 1/2	5 1/2	8	4	125

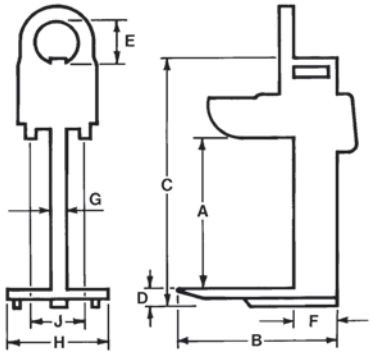
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

Model WHSR
Non-Locking Type

The **Model WHSR** is an adjustable, horizontal clamp intended to be used in pairs, sets of pairs, or in a tripod arrangement for transporting steel plates horizontally. In addition to incorporating two gripping cams, the jaw opening may be adjusted by the positioning of a pin in the body of the clamp. The gripping cams are spring loaded to remain in the "open" position until the load is applied. This feature permits the clamp to be easily applied and removed from the load. Normally furnished with serrated gripping surfaces, it is available with smooth faced bronze or stainless steel surfaces to prevent marring when handling polished plates.

MODEL WHSR EXPLODED VIEW



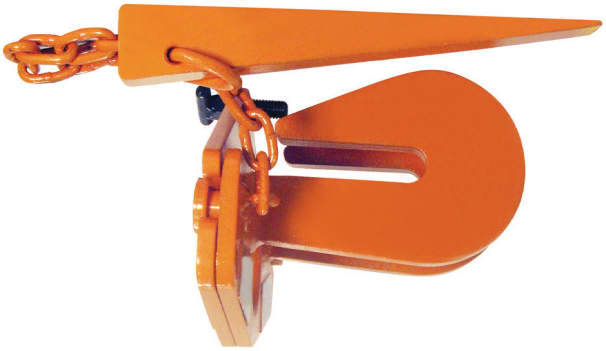


SPECIFICATIONS (in inches)

Rate Capacity Tons per Clamp	Plate Thickness A	B	C	D	E	F	G	H	J	Weight (in pounds)
1/2	0-6	10 3/4	14 3/16	5/8	3 1/2	3	1/2	8 3/8	4 1/2	46
	0-12	13	23 1/8	5/8	3 1/2	5	1/2	8 1/4	4 1/2	60
	0-16	13	27 3/16	5/8	3 1/2	5	1/2	8 1/4	4 1/2	80
1 1/2	0-6	10 3/4	14 5/16	3/4	3 1/2	3	3/4	8 3/8	4 5/8	66
	0-12	13	23 1/4	3/4	3 1/2	5	3/4	8 1/4	4 5/8	90
	0-16	13	27 5/16	3/4	3 1/2	5	3/4	8 1/4	4 5/8	104
3	0-6	10 3/4	15 1/4	1 5/8	3 1/2	3	1	8 3/8	4 5/8	70
	0-12	13	23 5/16	1 5/8	3 1/2	5	1	8 1/4	4 5/8	94
	0-16	13	27 13/16	1 5/8	3 1/2	5	1	8 1/4	4 5/8	112
6	0-6	13	18 1/16	2 1/4	3 1/2	5	1	8 1/4	4 5/8	108
	0-12	13	24 13/16	2 1/4	3 1/2	5	1	8 1/4	4 5/8	114
	0-16	13	28 13/16	2 1/4	3 1/2	5	1	8 1/4	4 5/8	154
8	0-6	13	18 1/2	3	3 1/2	6	1	8 1/4	5 1/4	130
	0-12	13	24 7/8	3	3 1/2	6	1	8 1/4	5 1/4	141
	0-16	13	28 7/8	3	3 1/2	6	1	8 1/4	5 1/4	220

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

BEAM

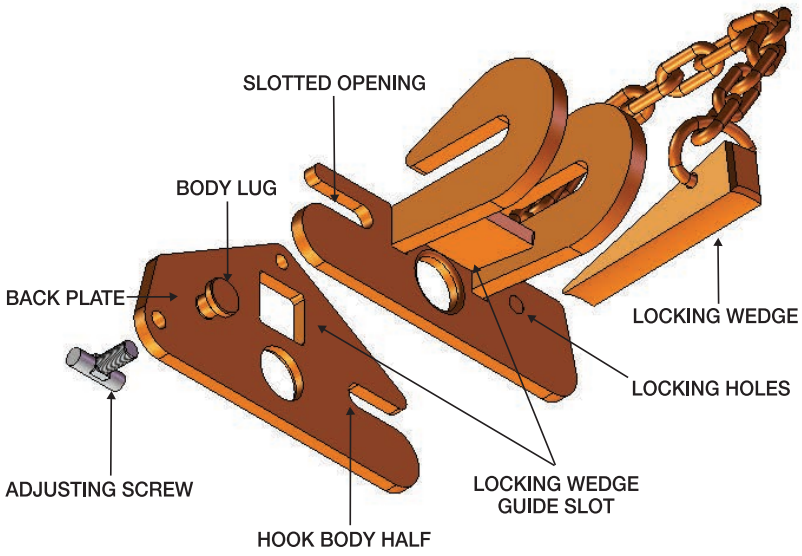


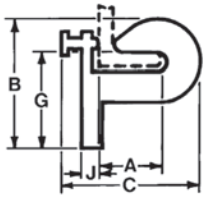
Model A-1
Locking Type

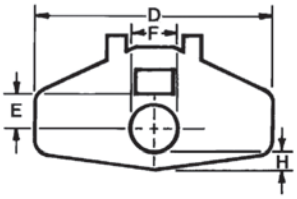
The **Model A-1** is a portable beam clamp that provides easy suspension of hoists, from channels or angles thereby eliminating the need for nuts, bolts, shackles and so on.

The **Model A-1** is designed for use on channel or angle shapes only. This model is furnished with a fluted tool steel locking wedge which holds the clamp in place on channels or angles.

MODEL A-1 EXPLODED VIEW







SPECIFICATIONS (in inches)

Rated Capacity Tons	Flange Width A	B	MAX. C	D	E	F	G	H	J	Weight (in pounds)
1	1½-4	5 5/16	7 7/8	8 3/4	1 3/16	1½	4 3/16	5/8	3/4	14
	4-8	6¼	12¼	8 3/4	1 3/16	1½	4 11/16	5/8	3/4	15
3	2-4	6 11/16	8 9/16	11¼	1 11/16	2¼	5 3/8	7/8	3/4	22
	4-8	8¼	13½	11¼	1 11/16	2¼	6½	7/8	3/4	27
5	2-4	8 5/8	8 7/8	13¼	2¾	3⅛	6 3/8	1	1	35
	4-8	10 3/16	13 13/16	13¼	2¾	3⅛	6 7/8	1	1	45

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

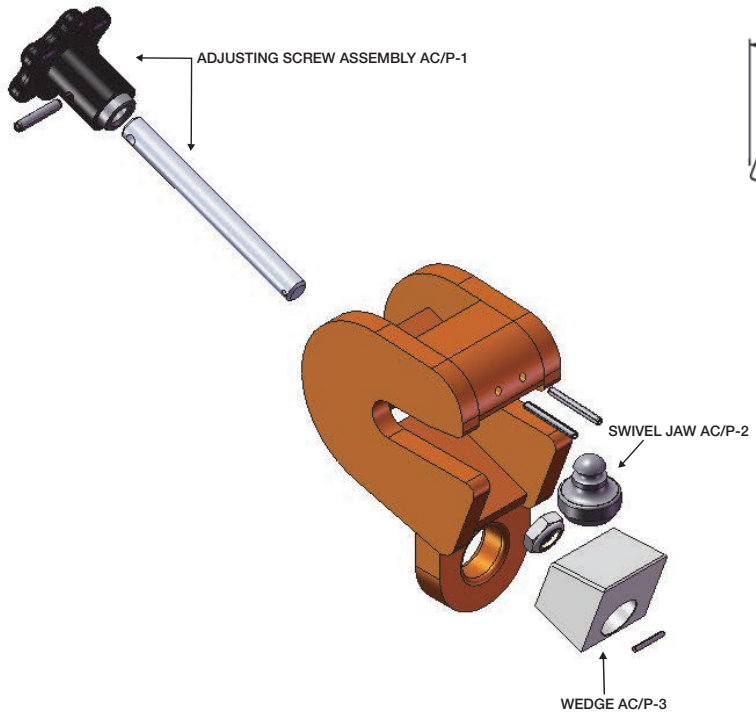
Model AC
Locking, Screw Type

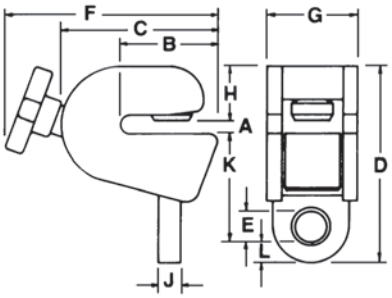
These clamps may be used for Drifting Loads when used in pairs or multiples.

The **Models AC** and **ACP** are light weight, portable clamps that provide quick easy attachment to structural members for the use of chain falls, hoists and wire rope pullers. These clamps are of single unit construction with a quick acting hand screw to secure the clamp.

The **Model AC** has a fixed Shackle Eye. These clamps are especially useful in the construction and maintenance for shipbuilding and other industries.

MODEL AC EXPLODED VIEW





SPECIFICATIONS (in inches)

Rated Capacity Tons	Flange Width A	B	C	D	E	F	G	H	J	K	L	Weight (in pounds)
2	¼-⅝	3¼	5¼	7	1¼	6¾	3	1 13/16	¾	3 9/16	¾	11½

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

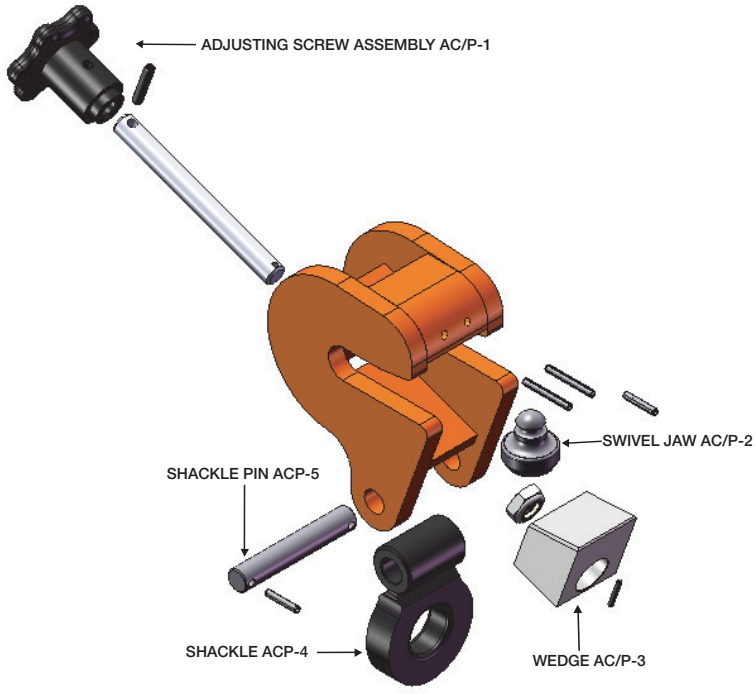
Model ACP
Locking, Screw Type

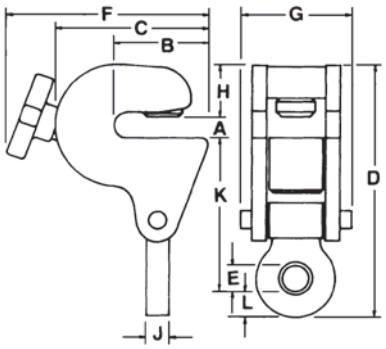
These clamps may be used for Drifting Loads when used in pairs or multiples.

The **Models AC** and **ACP** are light weight, portable clamps that provide quick easy attachment to structural members for the use of chain falls, hoists and wire rope pullers. These clamps are of single unit construction with a quick acting hand screw to secure the clamp.

The **Model ACP** has a Pivoting Shackle Eye. These clamps are especially useful in the construction and maintenance for shipbuilding and other industries.

MODEL ACP EXPLODED VIEW





SPECIFICATIONS (in inches)

Rated Capacity Tons	Flange Width A	B	C	D	E	F	G	H	J	K	L	Weight (in pounds)
2	¼-⅝	3¼	5¼	8 5/16	1¼	6¾	3¾	1 13/16	¾	5½	¾	12½

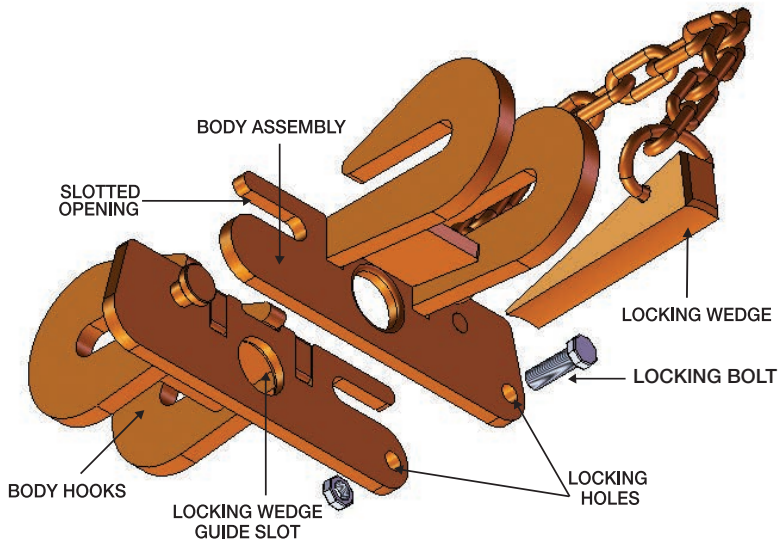
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. OTHER CAPACITIES AVAILABLE UPON REQUEST.

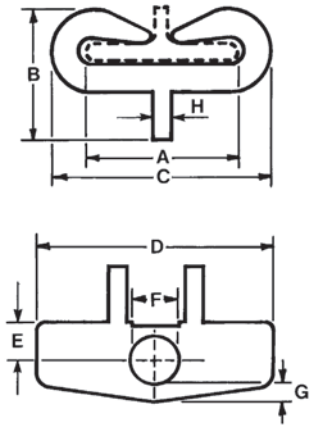
Model B-1
Locking Type

The **Model B-1** is a portable beam clamp that provides easy suspension of hoists from beams or girders thereby eliminating the need for nuts, bolts, shackles and so on.

The **Model B-1** is intended for use on the American standard or wide flange beams. This model is furnished with a fluted tool steel locking wedge which holds the clamp in place on a beam. The Model B-1 can be used for lifting as well.

MODEL B-1 EXPLODED VIEW





SPECIFICATIONS (in inches)

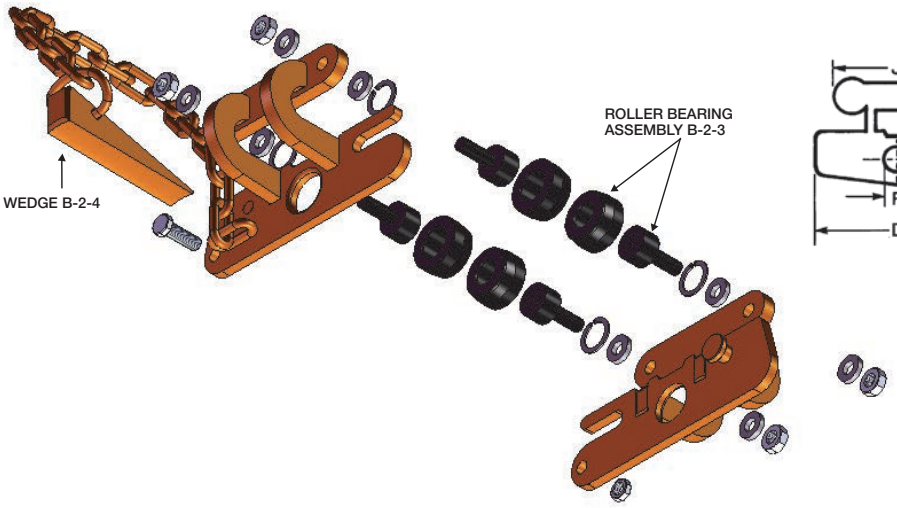
Rated Capacity Tons	Flange Width A	B	C	D	E	F	G	H	Weight (in pounds)
1	1½-4	4 21/32	6¾	8¾	1 9/16	1½	⅝	¾	12
	2-6	5¼	9½	8¾	1 9/16	1½	⅝	¾	13
	4-12	6 3/16	18⅞	8¾	1 9/16	1½	⅝	¾	22
3	4-6	6 11/16	10⅛	11¼	2	2¼	⅞	¾	20
	4-12	7 11/16	18⅝	11¼	2	2¼	⅞	¾	38
5	4-8	9 7/16	15	14¼	3	3⅛	1	1	45
	4-14	9 13/16	21⅜	14¼	3	3⅛	1	1	62
8	6-12	11 7/16	18⅜	18⅝	4	3½ x 4⅝	1 7/16	1	96
	6-17	15⅛	26¼	18⅝	4	3½ x 4⅝	1 7/16	1	151
	6-24	15 5/16	34⅜	18⅝	4	3½ x 4⅝	1 7/16	1	207
12	6-12	11 15/16	19⅜	18⅝	4	3½ x 4⅝	1 7/16	1¼	98
	6-17	15 5/16	26⅞	18⅝	4	3½ x 4⅝	1 7/16	1¼	153
	6-24	15 13/16	34⅞	18⅝	4	3½ x 4⅝	1 7/16	1¼	209

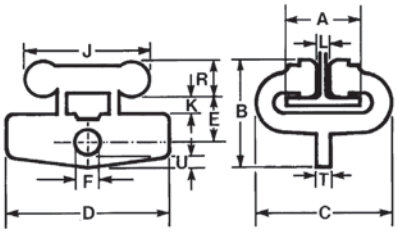
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

Model B-2
Trolley Clamp

The **Model B-2** is a beam trolley clamp that provides connection of a hoist or chain fall to an overhead beam and enables it to be moved along the beam as the necessity arises. Equipped with four heavy duty rollers, the **Model B-2**, with load attached, can be moved along any length of American Standard or wide flange beams. The fluted tool steel locking wedge permits the clamp to be temporarily or permanently locked at a particular position along the beam.

MODEL B-2 EXPLODED VIEW





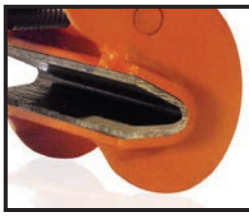
SPECIFICATIONS (in inches)

Rated Capacity Tons	Flange Width A	B	C	D	E	F	J	K	L	R	T	U	Weight (in pounds)
1	1½-4	5¾	7¼	8¾	2⁹⁄₁₆	1½	6¾	⅞	⅝	2	¾	¾	18
	2-6	7⅝	10½	8¾	3⅜	1½	8¾	1¼	1⅛	3½	¾	¾	28
	4-12	8³⁄₁₆	18	8¾	3¹⁵⁄₁₆	1½	8¾	1¹³⁄₁₆	1⅜	3½	¾	¾	38
3	4-6	10¼	12¼	11¼	4	2¼	12¼	1¼	1½	5⅛	¾	⅞	65
	4-12	10⅞	19	11¼	4⅝	2¼	12¼	1⅞	1½	5⅛	¾	⅞	78
5	4-8	13⁷⁄₁₆	16½	16½	5	3⅛	15½	1⅞	1½	6	1	1	92
	4-14	13⁷⁄₁₆	22½	16½	5	3⅛	15½	1⅞	1½	6	1	1	130
8	6-12	18¹⁄₁₆	21⅛	18⅝	6½	3½ x 4⅝	21	2½	1½	8	1	1⁷⁄₁₆	256
	6-17	18¹⁄₁₆	27	18⅝	6½	3½ x 4⅝	21	2½	1½	8	1	1⁷⁄₁₆	332
	6-24	18¹⁄₁₆	35	18⅝	6½	3½ x 4⅝	21	2½	1½	8	1	1⁷⁄₁₆	355
12	6-12	18¹⁄₁₆	22½	18⅝	6½	3½ x 4⅝	21	2½	1½	8	1¼	1⁷⁄₁₆	275
	6-17	18¹⁄₁₆	28½	18⅝	6½	3½ x 4⅝	21	2½	1½	8	1¼	1⁷⁄₁₆	295
	6-24	18¹⁄₁₆	36½	18⅝	6½	3½ x 4⅝	21	2½	1½	8	1¼	1⁷⁄₁₆	345

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

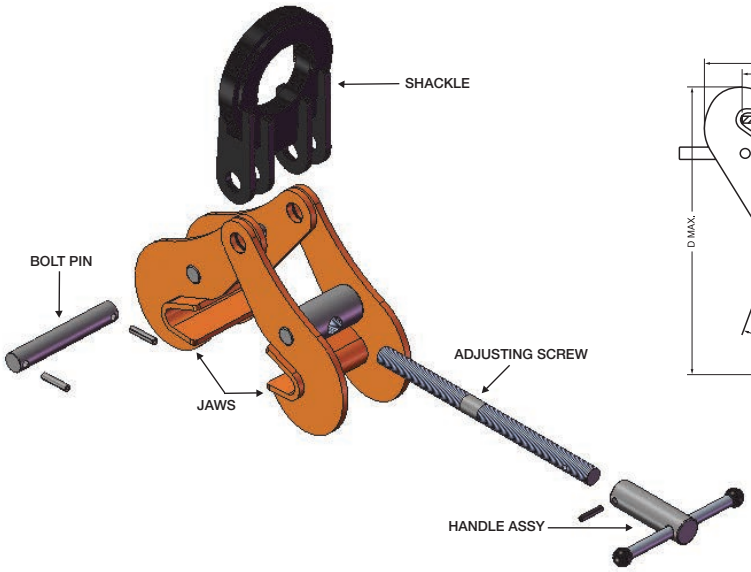
Model BC
Locking Type

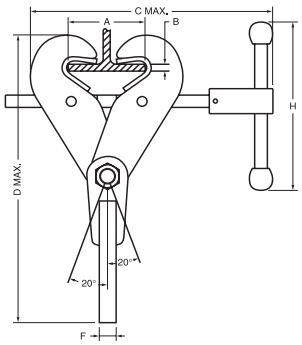
The **Model BC** is a multi-purpose beam clamp suitable for both lifting beams or providing suspension of hoists from beams or girders, thereby eliminating the need for nuts, bolts and shackles. It is intended for use on the American standard or wide flange beams.

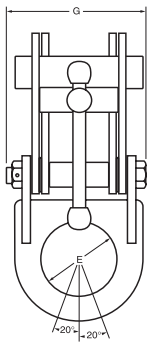


OPTION: Now available with soft jaw inserts. Factory installed at time of order or as a Retrofit Kit for customer installation

MODEL BC EXPLODED VIEW







SPECIFICATIONS (in inches)

Working Load Limit at 0°- 20° Vertical Tons	Flange Width A	Flange Thickness B	C	D	E	F	G	H	Weight (in pounds)
1½	3 - 7 1/4	1/4 - 1/2	11 7/8	11 3/4	3	1/2	5	5 3/4	9 1/2
3	3 - 7 1/4	1/4 - 1/2	11 7/8	12	3	5/8	5 3/16	6 3/4	13 1/2
5	6 - 9 1/2	1/2 - 3/4	17	14 7/8	3 1/4	3/4	6 5/16	6 3/4	22 1/2
10	6 - 11 1/8	1/2 - 1 1/4	21 1/4	19 1/8	4	1 1/2	7 1/8	9	53
15	8 - 16 3/4	7/8 - 2	32	26 1/2	4 1/2	1 3/4	8 3/8	12	120
25	18 - 38	2 - 3	61	40 1/2	5	2	15	15	450

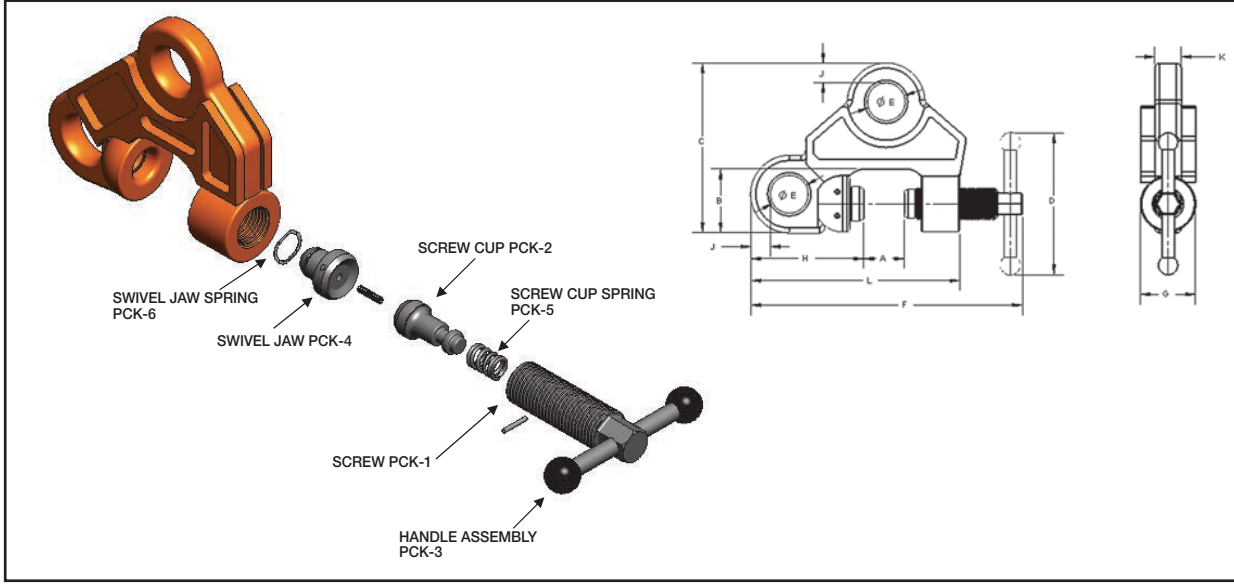
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

PULL

Model PCK-SL
Locking, Screw Type

The **PCK** Locking Screw Clamp is a versatile multi-purpose lifting turning pulling clamp capable of lift and turn operations from the horizontal through 180 degrees arc. The clamp can also be used for the assembling of steel plates, structural members and welded sections. The clamp is generally used in pairs for the purpose of drawing two plates or members together or to a predetermined position adjacent to each other. The adjusting screw is used to accommodate various thicknesses of material and to facilitate the attachment of the clamp to the member being worked on.

MODEL PCK-SL EXPLODED VIEW



SPECIFICATIONS (in inches)

Capacity Tons	Plate Thickness A	B	C	D	E	F	G	H	J	K	L	Weight (in pounds)
1/2	0-1	2½	5½	5 11/16	1	9⅛	1¾	3	1/2	5/16	6⅛	4.6
1	0-1½	3	6¾	5 11/16	1⅜	10½	2⅛	4 1/32	11/16	¾	7⅝	9.6
2	0-1½	3 3/16	7½	7	1½	11½	2⅜	4 9/16	¾	1	8½	14.5
3	3/16-1⅜	3½	8	6 11/16	1¾	12⅛	2⅝	5⅜	⅞	1⅛	9⅛	17.9
5	0-1½	3 13/16	9 5/16	7⅜	2	13⅜	2⅞	5⅞	1	1⅜	10	28.4

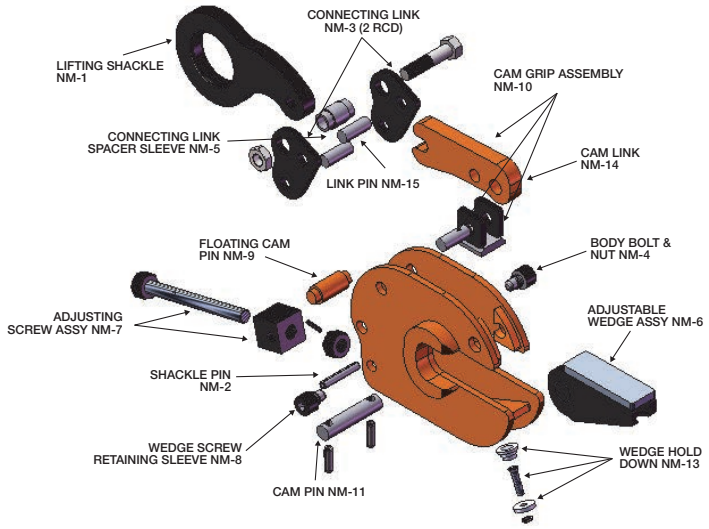
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

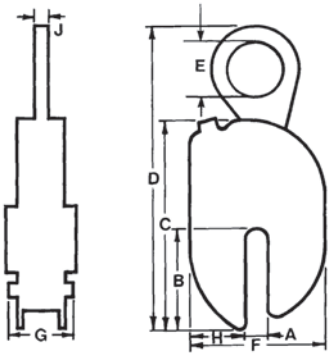
NON-MARRING

Model NM
Locking, Screw Type

The **Model NM** clamp (non-marring) is manufactured with smooth gripping surfaces to prevent marring when gripping stainless steel, copper, aluminum and other polished metal plates. Due to the variety of conditions that may exist in handling these plates, it is recommended that these clamps be used in pairs and attached to a chain or wire rope sling, supported by a spreader beam. The **Model NM** is supplied with stainless steel gripping surfaces and is available with steel or bronze upon request. The **Model NM** is not intended for use in transportation of plates using mobile equipment where shocking of the load may occur.

MODEL NM EXPLODED VIEW





SPECIFICATIONS (in inches)

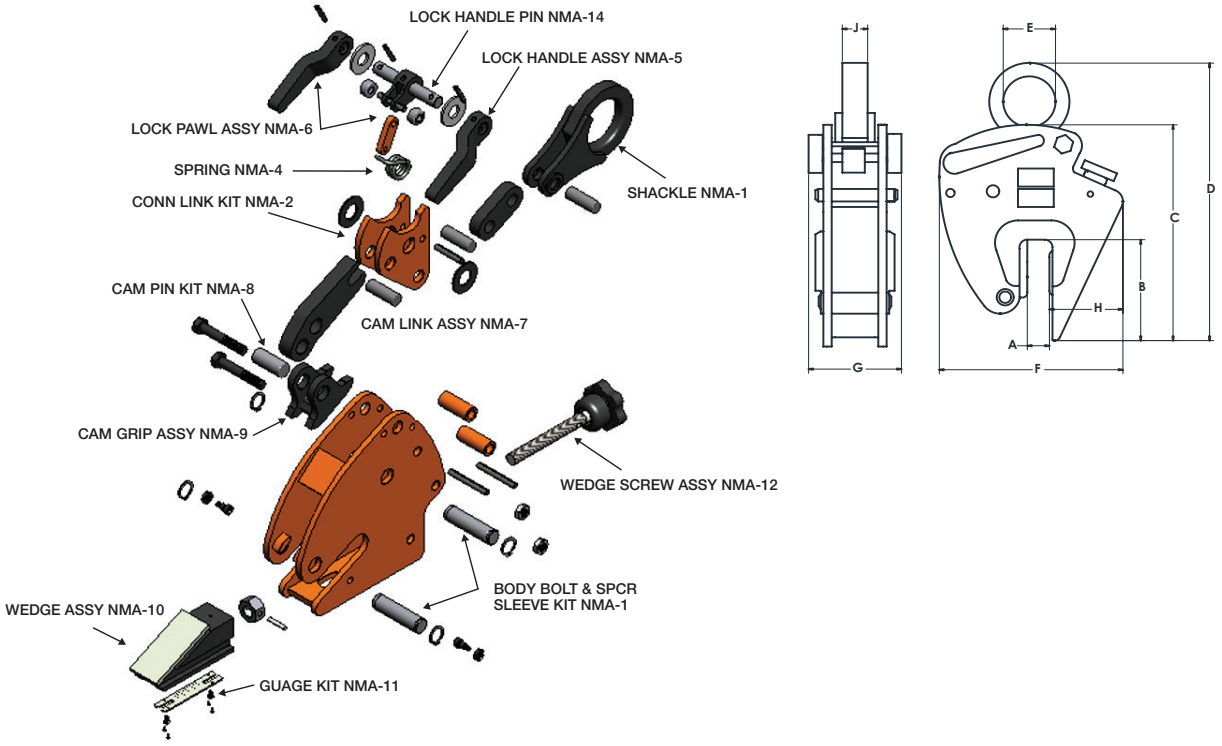
Rate Capacity Tons per Clamp	Plate Thickness A	B	C	MAX. D	E	F	G	H	J	Weight (in pounds)
1	0-¾	4½	9⅜	15⅝	2⅜	5⅞	3⅛	2⅜	⅝	17
	¾-1¼	4½	9⅜	15⅝	2⅜	6⅜	3⅛	2⅜	⅝	19
	1¼-1¾	4½	9⅜	15⅝	2⅜	6⅞	3⅛	2⅜	⅝	21
	1¾-2¼	4½	9⅜	15⅝	2⅜	7⅜	3⅛	2⅜	⅝	23
2	0-15	5⅛	10 1/16	16	2⅝	6¾	3¾	2⅞	⅝	23
	¾-1½	5⅛	10 1/16	16	2⅝	7¼	3¾	2⅞	⅝	27
	1¼-2	5⅛	10 1/16	16	2⅝	7¾	3¾	2⅞	⅝	28
	1¾-2½	5⅛	10 1/16	16	2⅝	8¼	3¾	2⅞	⅝	30
	2¼-3	5⅛	10 1/16	16	2⅝	8¾	3¾	2⅞	⅝	33
4	¼-1½	5⅜	12⅛	18 9/16	2 15/16	7¾	4½	2 15/16	1	45
	1¼-2½	5⅜	12⅛	18 9/16	2 15/16	8¾	4½	2 15/16	1	48
	1¾-3	5⅜	12⅛	18 9/16	2 15/16	9¾	4½	2 15/16	1	50
	3-4¼	5⅜	12⅛	18 9/16	2 15/16	11	4½	2 15/16	1	55
8	1½-3¼	11	20¼	27¾	3⅞	15⅜	6⅜	5⅞	2	193
	1¾-3½	11	20¼	27¾	3⅞	15⅝	6⅜	5⅞	2	195
	3-4½	11	20¼	27¾	3⅞	16⅝	6⅜	5⅞	2	210
	4-5½	11	20¼	27¾	3⅞	17⅝	6⅜	5⅞	2	225
12	2-4	11	20¼	27¾	3⅞	16⅛	7⅞	5⅞	2	200
	3¾-5½	11	20¼	27¾	3⅞	17⅝	7⅞	5⅞	2	220
	4½-6	11	20¼	27¾	3⅞	18⅛	7⅞	5⅞	2	240

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

Model NMA
Locking Type

The **Model NMA** is a non-marring clamp with smooth gripping pads that can lift hard surface materials. Materials with sensitive finishes such as stainless steel, copper, aluminum and polished metal plates can also be lifted. The clamp incorporates a locking feature which enables the clamp gripping jaws to be “Locked Open” for attaching and removing the clamp from the material being lifted and to be “Locked Closed” for turning material through 180 degrees. It is recommended these clamps be used in pairs.

MODEL NMA EXPLODED VIEW



SPECIFICATIONS (in inches)

Rate Capacity Tons per Clamp	Plate Thickness A	B	C	D	E	MAX. F	G	H	J	Weight (in pounds)
1/2	0 - 1/2	3 7/16	7 26/32	12 1/16	2	7 1/4	4 1/4	2 15/16	1/2	16
1	0 - 3/4	4 3/4	11 3/8	16 13/16	2 5/8	9 5/8	5 1/16	4 5/8	5/8	27
2	0 - 1	5 1/2	12 7/8	20 1/8	3	11 1/2	6	4 15/32	3/4	53
4	1/4 - 1 1/4	6 31/32	14 7/16	22 1/4	3 5/8	11 11/16	6	4 7/8	1	63 1/2
4	1 - 2	6 31/32	14 7/16	22 1/4	3 5/8	12 13/16	6	4 7/8	1	65 1/2

Larger capacites available on request. SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

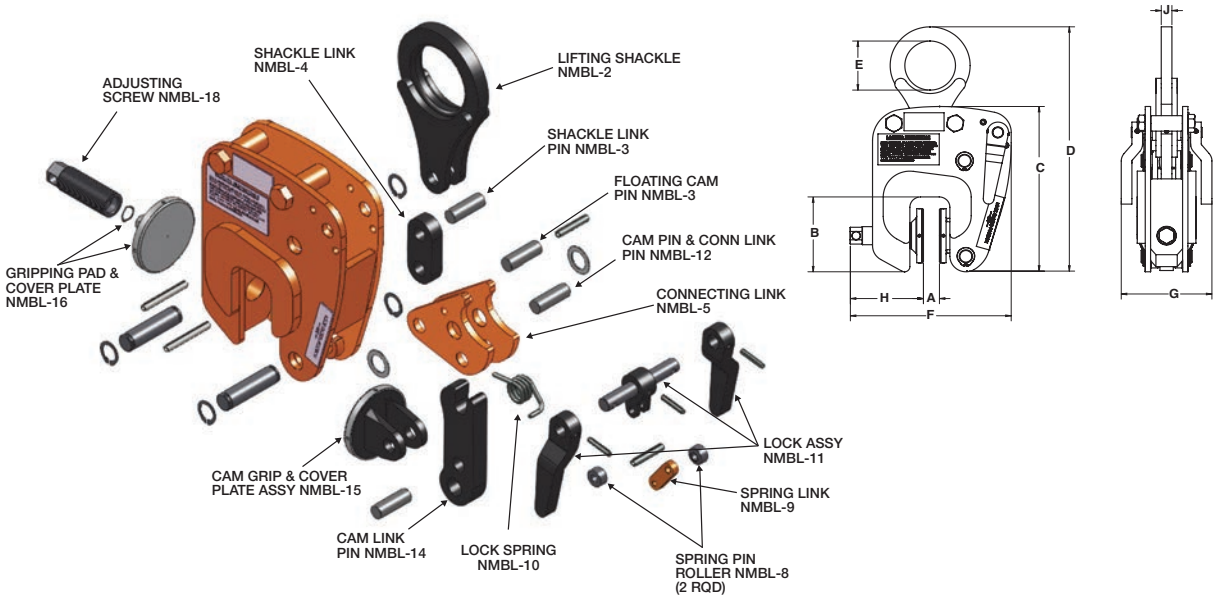
NON-MARRING

Model NMBL
Locking Type

The **NMBL** model is used to turn plates from the horizontal through a 180 degree arc. It is manufactured with smooth gripping surfaces to prevent marring when gripping stainless steel, copper, aluminum and other polished metal plates. The NMBL incorporates a lock open – lock closed feature to facilitate attaching and removing the clamp from the plate.

Recommended for use in pairs.

MODEL NMBL EXPLODED VIEW



SPECIFICATIONS (in inches)

Rated Capacity Tons per Clamp	Plate Thickness A	B	C	D	E	MAX. F	G	H	J	Weight (in pounds)
1/2	0-5/8	3 5/8	8	12 5/16	2 3/8	7 5/8	4 1/4	3 7/16	1/2	15 5/8
1	0-3/4	3 5/8	8	11 7/8	2 3/8	7 9/16	4 1/4	3 7/16	1/2	17 1/4
2	0-2	4 7/8	10 7/8	17 9/16	3	12 1/32	5 1/2	5 7/16	3/4	31
4	1/4-1 1/2	7 11/64	16 3/16	23 25/32	3	6 1/4	8 1/2	8 9/64	1 1/4	126

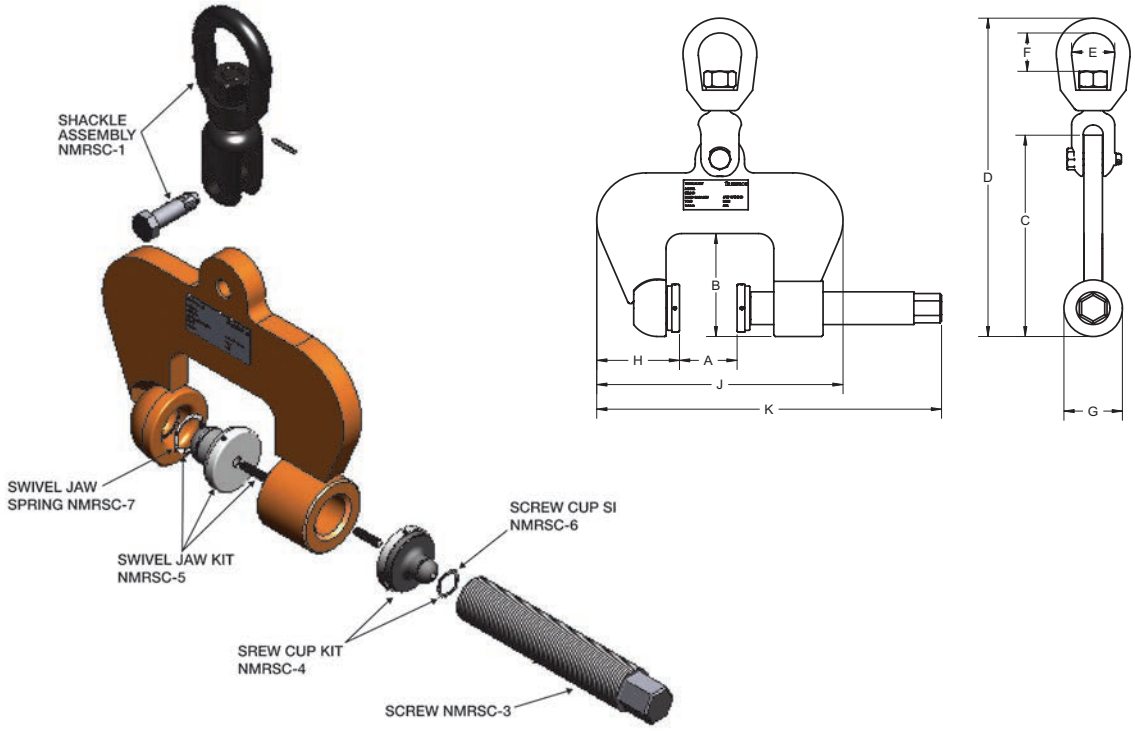
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

Model NMRSC
Locking, Screw Type

The **Model NMRSC** is a lightweight screw clamp for bench work on steel plates of large thickness, and weighing less than 1000 lbs. Supplied with smooth gripping surfaces to prevent marring when gripping stainless steel, copper, aluminum and other polished metal plates.

Recommended for use in pairs.

MODEL NMRSC EXPLODED VIEW



SPECIFICATIONS (in inches)

Rated Capacity Tons per Clamp	Plate Thickness A	B	C	D	E	F	G	H	J	K	Weight (in pounds)
1/2	0-3	4 5/16	8 1/16	13 3/8	1 3/4	1 9/16	2 3/8	3 3/8	10	14	13 7/8
1/2	1 3/8-4 1/4	4 5/16	8 1/16	13 3/8	1 3/4	1 9/16	2 3/8	3 3/8	11 3/16	15 15/16	14 1/2

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

NON-MARRING