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to your application. We even offer free safety surveys and training seminars for our customers. That's what comes from being tuned into our customers' needs and wants for more than 65 years. It's no wonder that outstanding customer service and on-time deliveries rank right up there with our being able to offer you the best quality lifting clamp in the industry.

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# HORIZONTAL





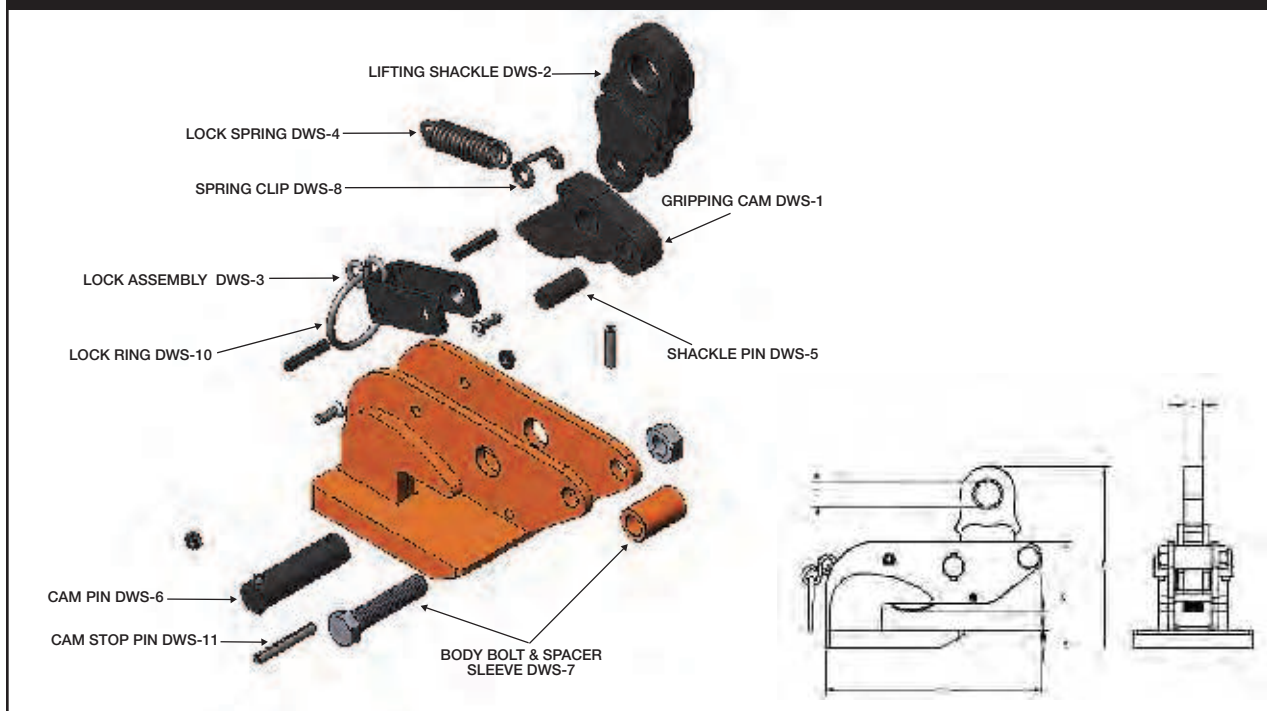
# Model DWS Locking Type

Model DWS is a horizontal lifting clamp utilizing Renfro'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



HORIZONTAL

**SPECIFICATIONS** (in inches)

Rated Capacity Tons	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.

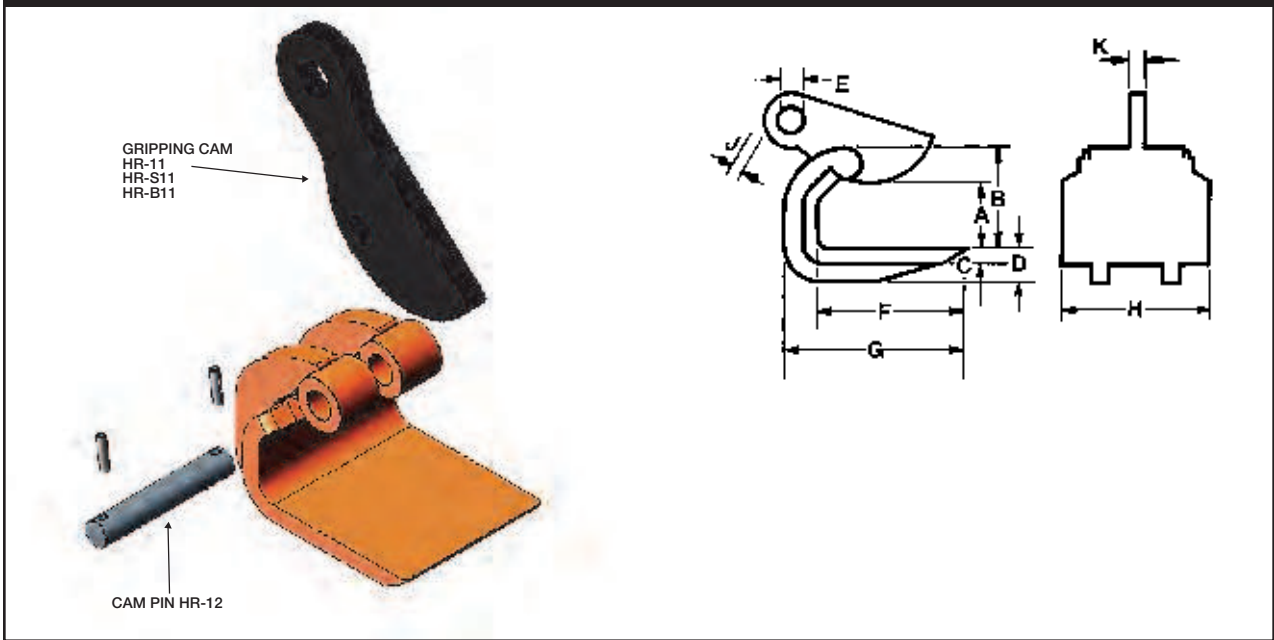
# Model HR Non-Locking Type



The **Model HR** is a horizontal lifting clamp intended to be used in pairs, sets of pairs, or in a tripod arrangement for transporting steel plates horizontally.

Equipped with serrated gripping cams as standard equipment, both the HR and HDR models are available with smooth, bronze or stainless steel gripping cams to prevent marring when handling polished metals such as stainless steel, copper, aluminum, etc.

## MODEL HR EXPLODED VIEW



### SPECIFICATIONS (in inches)

Rated Capacity Tons	Plate Thickness A	B	C	D	E	F	G	H	Weight J	K	(in pounds)
1/4	0-1	2 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	+	1	3 <sup>9</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>16</sub>	3	3 <sup>5</sup> / <sub>16</sub>	1 <sup>1</sup> / <sub>2</sub>	3 <sup>1</sup> / <sub>2</sub>
1/2	0-2	4 <sup>1</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	+	1 <sup>3</sup> / <sub>8</sub>	5 <sup>5</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>8</sub>	7	3 <sup>3</sup> / <sub>4</sub>	1 <sup>1</sup> / <sub>2</sub>	14
3/4	0-2	4 <sup>3</sup> / <sub>8</sub>	5 <sup>5</sup> / <sub>8</sub>	+	1 <sup>3</sup> / <sub>8</sub>	5 <sup>5</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>4</sub>	7	3 <sup>3</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>4</sub>	19
1 1/2	0-2	4 <sup>3</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	+	1 <sup>3</sup> / <sub>8</sub>	5 <sup>5</sup> / <sub>8</sub>	6 <sup>3</sup> / <sub>8</sub>	7	3 <sup>3</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>4</sub>	23
3	0-2	4 <sup>5</sup> / <sub>8</sub>	5 <sup>5</sup> / <sub>8</sub>	1 <sup>5</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>8</sub>	5 <sup>5</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>4</sub>	7	3 <sup>3</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>4</sub>	24
4	0-3	5 <sup>5</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>2</sub>	9 <sup>5</sup> / <sub>8</sub>	7	1 <sup>1</sup> / <sub>8</sub>	1	44

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. + No backpad on capacities 1/4 ton thru 1 1/2 ton.

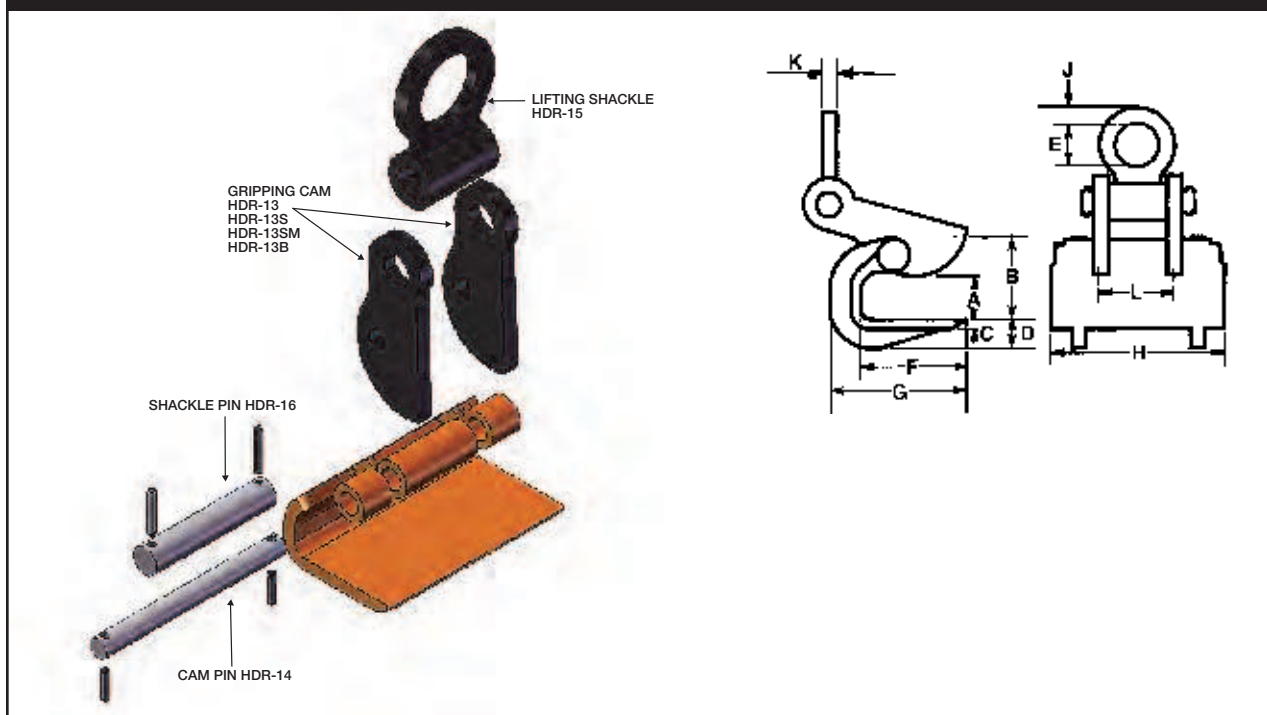


## Model HDR Non-Locking Type

The **Model HDR** 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 HDR** is similar to the **Model HR** except that it contains dual cam assemblies which provide two gripping surfaces.

Equipped with serrated gripping cams as standard equipment, both the HR and HDR models are available with smooth, bronze or stainless steel gripping cams to prevent marring when handling polished metals such as stainless steel, copper, aluminum, etc.

### MODEL HDR EXPLODED VIEW



HORIZONTAL

#### SPECIFICATIONS (in inches)

Rated Capacity Tons	Plate Thickness A	B	C	D	E	F	G	H	Weight			
									J	K	L (in pounds)	
1½	0-2	4¾	5/8	+	3¼	5½	6¼	12	15/16	¾	5	44
3	0-2	4¾	¾	+	3¼	5½	6¾	12	15/16	¾	5	48
6	0-2	4½	5/8	1½	3¼	5½	7¼	12	15/16	1½	5	53
8	0-3	5½	¾	2½	3¼	7½	9½	12¼	15/16	1½	5¼	84

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. + No backpad on 1½ or 3 ton models.

# Model HRS

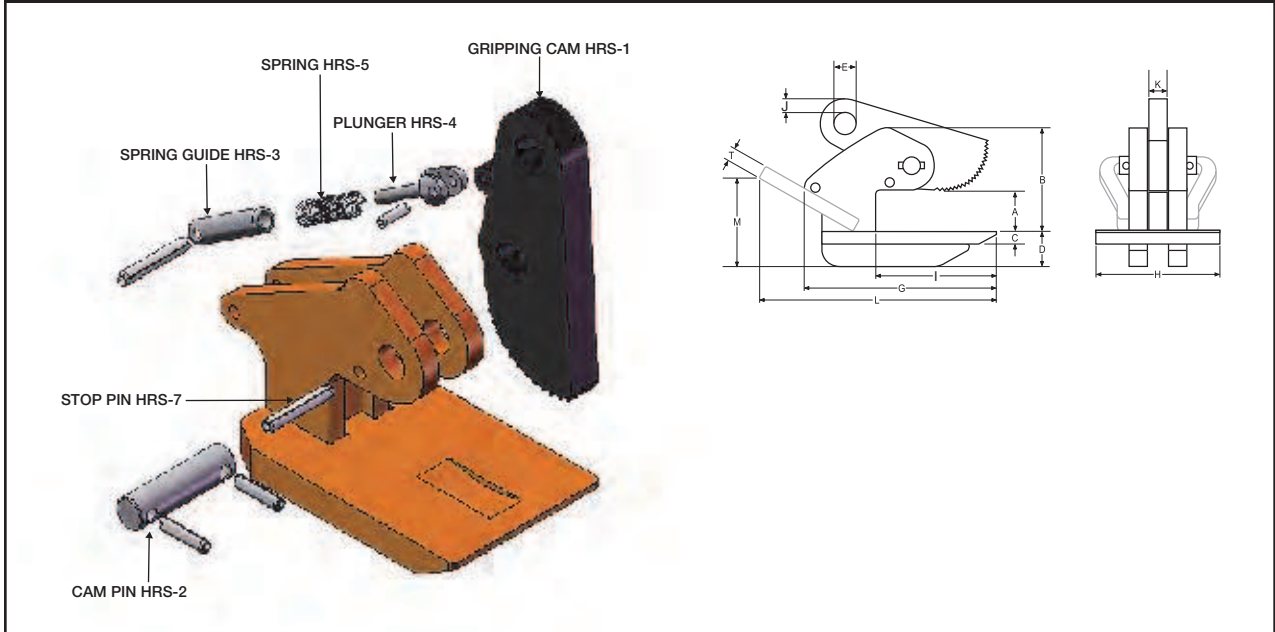
## Locking Type



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)

Rated Capacity Tons	Plate Thickness A	B	C	D	E	F	G	H	J	K	Weight			T (in pounds)
											L	M		
1/4	1/16-3/16	2 1/16	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.

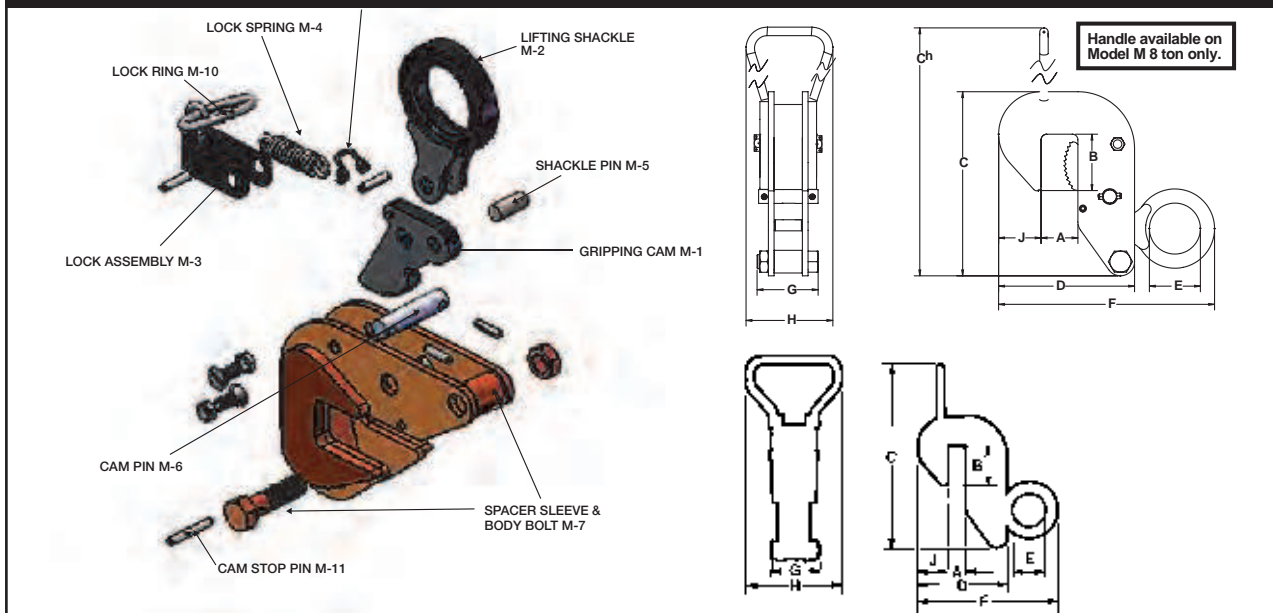
**Backpad available only on 4 ton model. Handles are standard on 2, 3 and 4 ton models.**

## Model M Locking Type



The **Model M** is shown with the structural shape lifting clamps but can also be used for horizontal lifting of plates and structural beams. 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)

Rated Capacity Tons	Plate Thickness A	B	C	Ch	D	MAX. E	F	G	H	J	Weight (in pounds)
<b>1/2</b>	0-1	2 <sup>5</sup> / <sub>16</sub>	7 <sup>7</sup> / <sub>16</sub>	—	4 <sup>1</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>4</sub>	8 <sup>7</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	—	1 <sup>7</sup> / <sub>16</sub>	7
	3/4-1 <sup>1</sup> / <sub>2</sub>	2 <sup>5</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>16</sub>	—	5 <sup>3</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>4</sub>	9 <sup>3</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	—	1 <sup>7</sup> / <sub>16</sub>	8
	1 <sup>1</sup> / <sub>4</sub> -2	2 <sup>5</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>16</sub>	—	5 <sup>11</sup> / <sub>16</sub>	2 <sup>1</sup> / <sub>4</sub>	9 <sup>7</sup> / <sub>8</sub>	2 <sup>5</sup> / <sub>8</sub>	—	1 <sup>7</sup> / <sub>16</sub>	9
<b>1</b>	0-1	2 <sup>1</sup> / <sub>2</sub>	8 <sup>1</sup> / <sub>8</sub>	—	5 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>4</sub>	9 <sup>1</sup> / <sub>2</sub>	2 <sup>3</sup> / <sub>4</sub>	—	1 <sup>7</sup> / <sub>8</sub>	11
	3/4-1 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>2</sub>	8 <sup>1</sup> / <sub>8</sub>	—	6	2 <sup>1</sup> / <sub>4</sub>	10	2 <sup>3</sup> / <sub>4</sub>	—	1 <sup>7</sup> / <sub>8</sub>	12
	1 <sup>1</sup> / <sub>4</sub> -2	2 <sup>1</sup> / <sub>2</sub>	8 <sup>1</sup> / <sub>8</sub>	—	6 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>4</sub>	10 <sup>1</sup> / <sub>2</sub>	2 <sup>3</sup> / <sub>4</sub>	—	1 <sup>7</sup> / <sub>8</sub>	13
<b>2</b>	0-1 <sup>1</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>16</sub>	10 <sup>3</sup> / <sub>4</sub>	—	6 <sup>9</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>16</sub>	12 <sup>1</sup> / <sub>8</sub>	3 <sup>7</sup> / <sub>8</sub>	—	2	23
	1-2	3 <sup>3</sup> / <sub>16</sub>	10 <sup>3</sup> / <sub>4</sub>	—	7 <sup>3</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>16</sub>	12 <sup>5</sup> / <sub>8</sub>	3 <sup>7</sup> / <sub>8</sub>	—	2	24
	1 <sup>3</sup> / <sub>4</sub> -2 <sup>3</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>16</sub>	10 <sup>3</sup> / <sub>4</sub>	—	7 <sup>15</sup> / <sub>16</sub>	3 <sup>1</sup> / <sub>16</sub>	13 <sup>5</sup> / <sub>8</sub>	3 <sup>7</sup> / <sub>8</sub>	—	2	27
<b>4</b>	0-1 <sup>1</sup> / <sub>2</sub>	3 <sup>13</sup> / <sub>16</sub>	12	—	7 <sup>3</sup> / <sub>4</sub>	3 <sup>5</sup> / <sub>8</sub>	14 <sup>1</sup> / <sub>2</sub>	4 <sup>3</sup> / <sub>8</sub>	—	2 <sup>3</sup> / <sub>4</sub>	36
	1 <sup>1</sup> / <sub>4</sub> -2 <sup>1</sup> / <sub>2</sub>	3 <sup>13</sup> / <sub>16</sub>	12	—	8 <sup>3</sup> / <sub>4</sub>	3 <sup>5</sup> / <sub>8</sub>	16 <sup>1</sup> / <sub>2</sub>	4 <sup>3</sup> / <sub>8</sub>	—	2 <sup>3</sup> / <sub>4</sub>	38
	2 <sup>1</sup> / <sub>4</sub> -3 <sup>1</sup> / <sub>2</sub>	3 <sup>13</sup> / <sub>16</sub>	12	—	9 <sup>3</sup> / <sub>4</sub>	3 <sup>5</sup> / <sub>8</sub>	14 <sup>1</sup> / <sub>2</sub>	4 <sup>3</sup> / <sub>8</sub>	—	2 <sup>3</sup> / <sub>4</sub>	41
<b>8</b>	0-2	4 <sup>15</sup> / <sub>16</sub>	—	19 <sup>1</sup> / <sub>4</sub>	11 <sup>7</sup> / <sub>16</sub>	4	19 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>	8	4	107
	1 <sup>3</sup> / <sub>4</sub> -3 <sup>1</sup> / <sub>2</sub>	4 <sup>15</sup> / <sub>16</sub>	—	19 <sup>1</sup> / <sub>4</sub>	12 <sup>15</sup> / <sub>16</sub>	4	21	5 <sup>1</sup> / <sub>2</sub>	8	4	110
	3 <sup>1</sup> / <sub>4</sub> -5	4 <sup>15</sup> / <sub>16</sub>	—	19 <sup>1</sup> / <sub>4</sub>	14 <sup>7</sup> / <sub>16</sub>	4	22 <sup>1</sup> / <sub>2</sub>	5 <sup>1</sup> / <sub>2</sub>	8	4	125

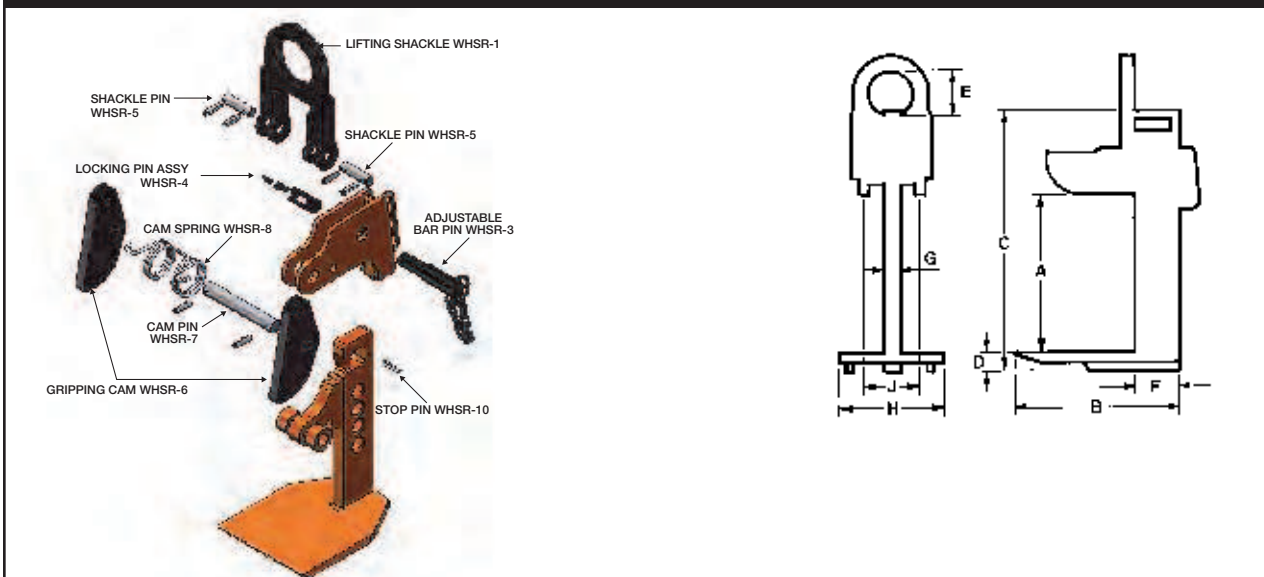
SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

# 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)

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

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