

# Mechanical Vacuum Lifters

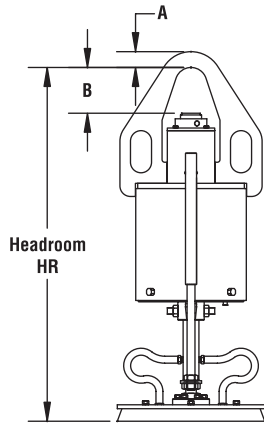


The Caldwell Group • 800-628-4263 Fax 815-229-5686

UNIVAC®  
Vacuum Lifters Section  
Master Catalog MC-607

## Mechanical Vacuum Lifter

The revolutionary design of our vacuum generator requires no electrical or air line connections, just hang it on your hook and go! This is an economical solution for a wide range of applications where bringing power to the lifter is not practical or feasible—even the warning system requires no power. This virtually maintenance free design conforms to ASME standards.



### PRODUCT FEATURES:

- No outside power source is required.
- Color-coded vacuum indicator rods alert the operator of vacuum level.  
GREEN = Safe to lift with additional vacuum available.  
YELLOW = Minimum vacuum remaining, begin to set load down.  
RED = Hazardous condition.
- Auto cycling valve provides a hands-free attach and release function.
- Large lifting bail accommodates a wide range of hook sizes.
- The Caldwell Mechanical Vacuum Lifter has very few moving parts that will need attention from the maintenance department.
- Standard sizes shown, please contact factory for additional capacities and configurations.



### Single Pad Models

Rated Capacity (lbs.)	Number of Pads	Pad Diameter (in.)	Dimensions (in.)			Weight (lbs.)	Model Number
			A	C	HR		
300	1	9-5/8	0.75	3.34	35	75	AM3S8
800	1	14-1/4	1.5	4.3	37-3/4	115	AM8V12
2,000	1	23	1.5	4.3	39.39	290	AM20V20



### Twin Pad Inline Models

Rated Capacity (lbs.)	Number of Pads	Pad Diameter (in.)	Main Beam Length (ft.)	Dimensions (in.)			Weight (lbs.)	Model Number
				A	C	HR		
300	2	7-1/4	4	0.75	3.34	44-1/4	100	BM3S6-4
			6				105	BM3S6-6
800	2	10-5/8	4	1.5	4.3	52-1/4	215	BM8V8-4
			5				226	BM8V8-5
			6				237	BM8V8-5
			6				424	BM16V14-4
1,600	2	16	4	1.5	4.3	63	466	BM16V14-6
			6				508	BM16V14-8
			8					

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## Four Pad Inline Models

Rated Capacity (lbs.)	Number of Pads	Pad Diameter (in.)	Main Beam Length (ft.)	Dimensions (in.)			Weight (lbs.)	Model Number
				A	C	HR		
600	4	7-1/4	5'	1.5	4.3	52-1/4	230	CM6S6-5
			6'				241	CM6S6-6
			8'				262	CM6S6-8
800	4	9-5/8	5'	1.5	4.3	52-1/4	235	CM8S8-5
			6'				246	CM8S8-6
			8'				267	CM8S8-8
1,500	4	12-1/4	6'	1.5	4.3	63	482	CM15VIO-6
			8'				524	CM15VIO-8
			10'				566	CM15VIO-10



## Twin Crossarm Models

Rated Capacity (lbs.)	Number of Pads	Pad Diameter (in.)	Main Beam Length (ft.)	Dimensions (in.)			Weight (lbs.)	Model Number*
				A	C	HR		
300	4	5	4'	0.75	3.34	44-1/4	110	DM3S4-4-D_
			6'				115	DM3S4-6-D_
600	4	7-1/4	4'	1.5	4.3	54-1/2	240	DM6S6-4-D_
			6'				256	DM6S6-6-D_
			8'				272	DM6S6-8-D_
800	4	9-5/8	4'	1.5	4.3	54-1/2	245	DM8S8-4-D_
			6'				261	DM8S8-6-D_
			8'				277	DM8S8-8-D_
1,500	4	12-1/2	4'	1.5	4.3	66	532	DM15VIO-4-D_
			6'				558	DM15VIO-6-D_
			8'				600	DM15VIO-8-D_
			10'				642	DM15VIO-10-D_

## Triple Crossarm Models

Rated Capacity (lbs.)	Number of Pads	Pad Diameter (in.)	Main Beam Length (ft.)	Dimensions (in.)			Weight (lbs.)	Model Number*
				A	C	HR		
1,500	6	10-5/8	4'	1.5	4.3	66	550	EM15V8-4-T_
			6'				568	EM15V8-6-T_
			8'				610	EM15V8-8-T_
			10'				652	EM15V8-10-T_

\* Specify crossarm length where \_ is in Model No.  
i.e. DM6S6-6-D3 would have a 6' main beam and 3' cross arms.  
Other sizes available. please consult factory.

# Application Evaluation



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## Univac® Application Evaluation

### Material To Be Handled:

- Steel       Aluminum       Glass       Stone Slabs  
 Plastic/Fiberglass       Particle Board  
 Other: \_\_\_\_\_ (Provide detailed sketch)

### Material Temperature Is:

- Under 200° F  
 200° to 600° F  
 Over 600° F (Specify temperature)

### Material Dimensions:

Minimum: Length \_\_\_\_\_ Width \_\_\_\_\_ Thickness \_\_\_\_\_ (required)  
Maximum: Length \_\_\_\_\_ Width \_\_\_\_\_ Thickness \_\_\_\_\_  
Maximum Capacity Required \_\_\_\_\_

### Material Orientation During Lift:

- Horizontal Only       Vertical Only  
 Horizontal to Vertical

Headroom Available: \_\_\_\_\_

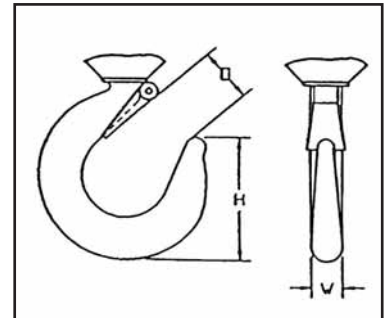
### Power Available:

- Electric Specify:     115v/1ph/60hz  
                                   230-460v/3ph/60hz  
                                   230v dc  
 Compressed Air  
 No External Power - Battery operated required

### Hook Size or Hook Opening:

Required for crane hook

H \_\_\_\_\_  
O \_\_\_\_\_  
W \_\_\_\_\_



### Options Required:

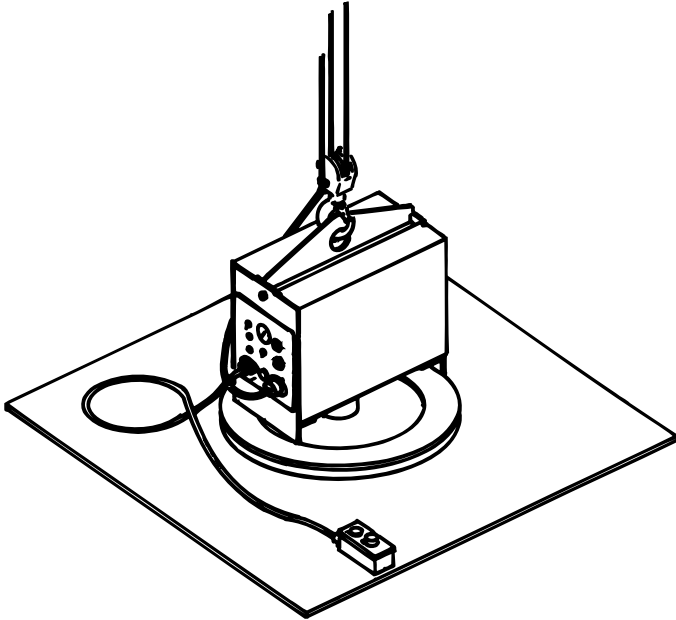
- Side Handle  
 Parking Stand  
 Audible Low Vacuum Warning  
 Custom Pendant Control (Standard is 2-button)  
 Wireless Pendant Control

For a price quote on your specific application, please complete the above application guide and fax this along with a photo, sketch, or drawing of the product being rotated, to **815-229-5686**

# Narrow Applications

## Model A - Single Pad Vacuum Lifter

For lightweight material with small square shaped surface. Neither the width or the length should exceed 5 times the pad diameter (see specifications below for pad diameter).



Quick guideline for max. sheet size of steel or aluminum at different thicknesses.

Minimum Thickness (in.)	Maximum Width (in.)	Maximum Length (in.)
.0250	36	36
.0478	48	48
.1150	72	72
.1950	96	96

Max. width + length equal to twice overhang distance.

**NOTE:** Options pg. C.8.

### SPECIFICATIONS

Rated Capacity (lbs.)	Wt. (lbs.)	Model Number	Power-Pac	Flared Diameter (in.)
<b>Shop Air - Venturi</b>				
170	20	AA1S6	V-40	7-1/4
310	22	AA3S8	V-40	9-5/8
400	28	AA4V8	V-40	10-5/8
600	30	AA6V10	V-40	12-1/4
800	33	AA8V12	V-40	14-1/4
1000	51	AA10V14	V-40	16
1500	53	AA15V16	V-40	19
2000	55	AA20V20	V-40	23
3000	71	AA30V24	V-40	27-5/8
<b>Electric</b>				
170	78	AE1S6	UNIVAC-250	7-1/4
310	80	AE3S8	UNIVAC-250	9-5/8
400	84	AE4V8	UNIVAC-250	10-5/8
600	87	AE6V10	UNIVAC-250	12-1/4
800	95	AE8V12	UNIVAC-250	14-1/4
1000	108	AE10V14	UNIVAC-250	16
1500	202	AE15V16	UNIVAC-250	19
2000	213	AE20V20	UNIVAC-250	23
3000	384	AE30V24	UNIVAC-330	27-5/8

Other sizes available, consult factory.



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# Narrow Applications

## Model A - Single Pad Vacuum Lifter



Univac® 330 unit - side view showing vacuum indicator lights and power / control connections.



Single pad unit AE15V16 with a 19" diameter V16 pad.

Single pad unit shown with a 10" diameter sponge pad for lifting semi-porous material.



Single pad units with large or small capacities are used when surface area is at a minimum.



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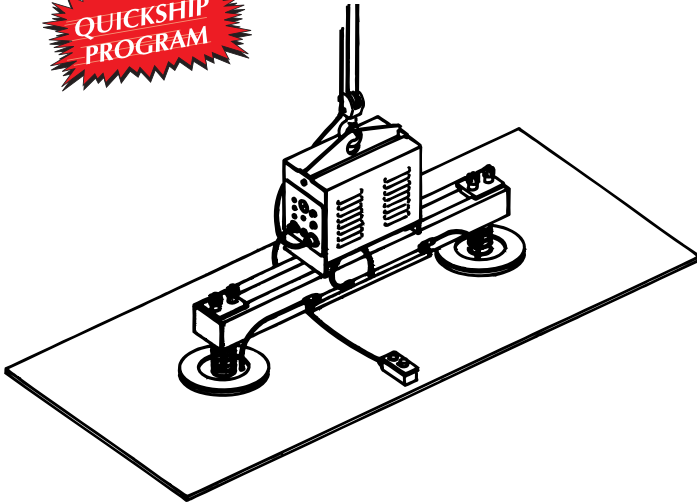
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# Narrow Applications



## Model B - Twin Pad Load Beam Vacuum Lifter

For lifting smaller rectangular shaped material. Width should not exceed 5 times the pad diameter (see specifications below for pad diameter).



Quick guideline for max. sheet size of steel or aluminum at different thicknesses.

Minimum Thickness (in.)	Maximum Width (in.)	Maximum Length (in.)
.0250	36	72
.0478	48	96
.1150	72	144
.1950	96	192

Max. width equal to twice overhang distance.

Max. length equal to four times overhang distance.

**NOTE:** All venturi units include a side handle. For other options, please see page C.8.

### SPECIFICATIONS

Add FEET to blank Model Number box to complete code.  
 Example: 4' load beam BA6S8

Rated Capacity (lbs.)	Base Wt. @ 4' (lbs.)	Model Number	Power-Pac	Flared Diameter (in.)	Load Beam Length (ft.)			
					4	5	6	8
<b>Shop Air - Venturi</b>								
160	140	BA1S4 <input type="text"/>	V-40	5	4	5	6	8
340	170	BA3S6 <input type="text"/>	V-40	7-1/4	4	5	6	8
620	175	BA6S8 <input type="text"/>	V-40	9-5/8	4	5	6	8
800	180	BA8V8 <input type="text"/>	V-40	10-5/8	4	5	6	8
1200	190	BA12V10 <input type="text"/>	V-40	12-1/4	4	5	6	8
1600	200	BA16V12 <input type="text"/>	V-40	14-1/4	4	5	6	8
2000	210	BA20V14 <input type="text"/>	V-40	16	4	5	6	8
3000	225	BA30V16 <input type="text"/>	V-40	19	4	5	6	8
4000	250	BA40V20 <input type="text"/>	V-40	23	4	5	6	8
<b>Electric</b>								
160	130	BE1S4 <input type="text"/>	UNIVAC-250	5	4	5	6	8
340	135	BE3S6 <input type="text"/>	UNIVAC-250	7-1/4	4	5	6	8
620	140	BE6S8 <input type="text"/>	UNIVAC-250	9-5/8	4	5	6	8
800	150	BE8V8 <input type="text"/>	UNIVAC-250	10-5/8	4	5	6	8
1200	230	BE12V10 <input type="text"/>	UNIVAC-250	12-1/4	4	5	6	8
1600	240	BE16V12 <input type="text"/>	UNIVAC-250	14-1/4	4	5	6	8
2000	260	BE20V14 <input type="text"/>	UNIVAC-250	16	4	5	6	8
3000	355	BE30V16 <input type="text"/>	UNIVAC-330	19	4	5	6	8
4000	375	BE40V20 <input type="text"/>	UNIVAC-330	23	4	5	6	8

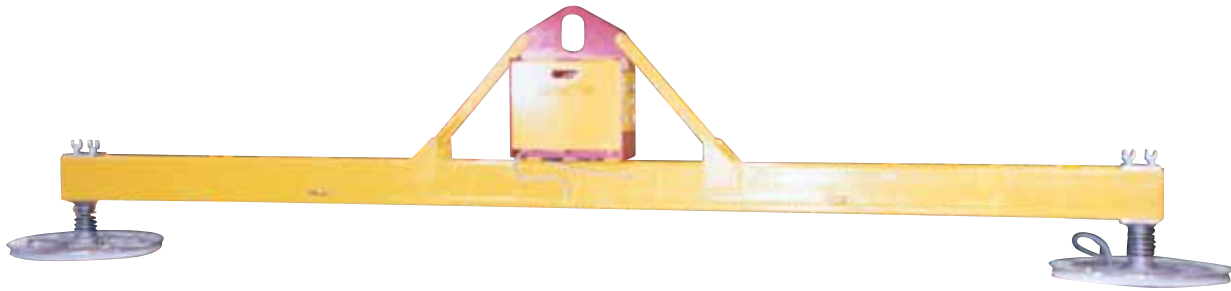
Other sizes available, consult factory.

# Narrow Applications

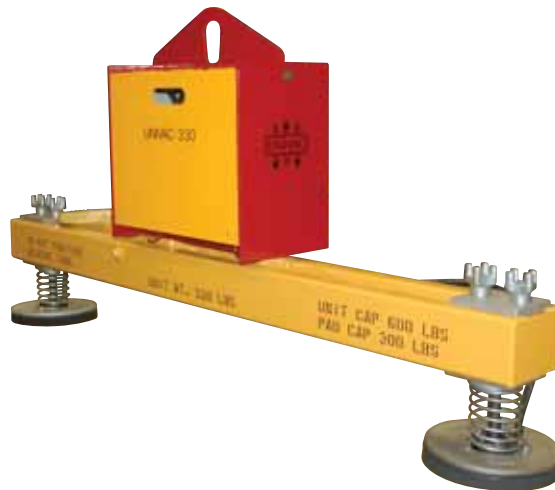
## Model B - Twin Pad Load Beam Vacuum Lifter



Custom designed bail  
for large crane hook.



Twin pad unit with sling for long heavy rigid material  
and silicone vacuum pads for handling hot plate.



Shown with sponge pads for  
handling semi-porous material.



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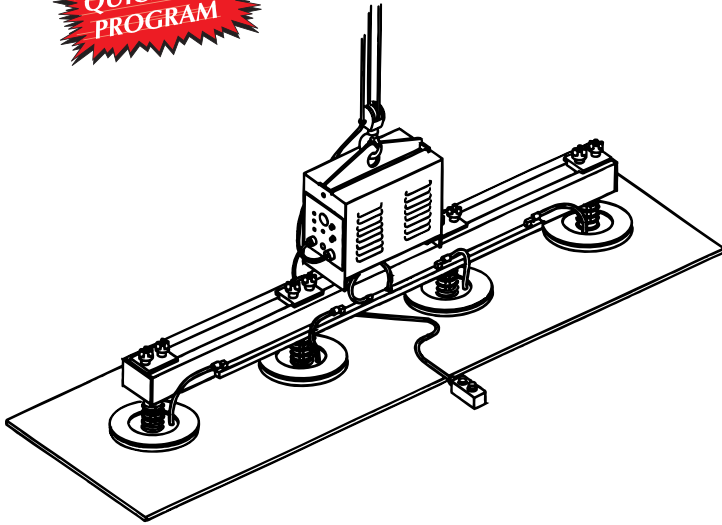


# Narrow Applications



## Model C - Load Beam with 4 Inline Pads Vacuum Lifter

For lifting long narrow sized material. Width should not exceed 5 times the pad diameter (see specifications below for pad diameter).



Quick guideline for max. sheet size of steel or aluminum at different thicknesses.

Minimum Thickness (in.)	Maximum Width (in.)	Maximum Length (in.)
.0250	36	144
.0478	48	200
.1150	72	300
.1950	96	320

Max. width equal to twice overhang distance.

Max. length equal to four times overhang distance.

**NOTE:** All venturi units include a side handle. For other options, please see page C.8.

### SPECIFICATIONS

Add FEET to blank Model Number box to complete code.  
 Example: 5' load beam - CE12S8

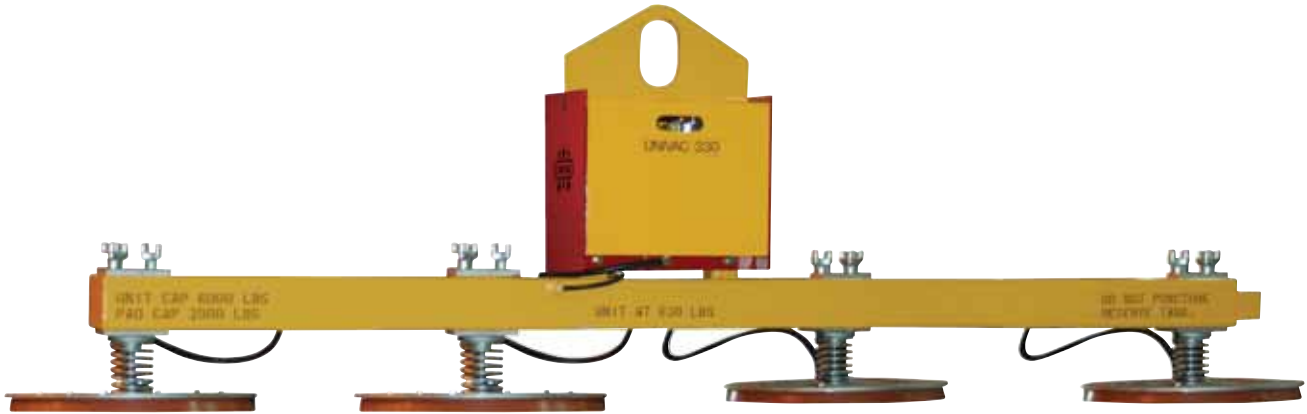
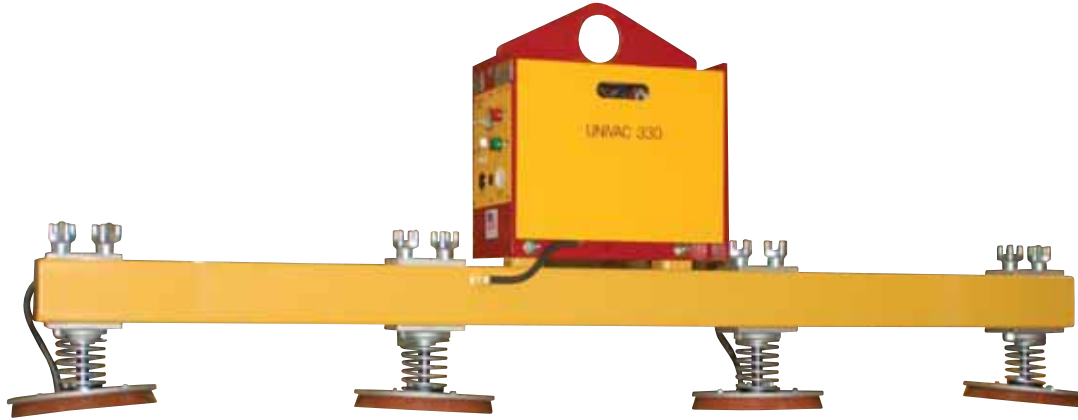
Rated Capacity (lbs.)	Base Wt. @ 5' (lbs.)	Model Number	Power-Pac	Flared Diameter (in.)	Load Beam Length (ft.)							
					5	6	8	10	12	15	20	
<b>Shop Air - Venturi</b>												
680	225	CA6S6 <input type="checkbox"/>	V-40	7-1/4	5	6	8	10	12	15	20	
1240	230	CA12S8 <input type="checkbox"/>	V-40	9-5/8	5	6	8	10	12	15	20	
1600	250	CA16V8 <input type="checkbox"/>	V-40	10-5/8	5	6	8	10	12	15	20	
2400	265	CA24V10 <input type="checkbox"/>	V-40	12-1/4	5	6	8	10	12	15	20	
3200	280	CA32V12 <input type="checkbox"/>	V-40	14-1/4	5	6	8	10	12	15	20	
4000	315	CA40V14 <input type="checkbox"/>	V-40	16	5	6	8	10	12	15	20	
<b>Electric</b>												
680	203	CE6S6 <input type="checkbox"/>	UNIVAC-250	7-1/4	5	6	8	10	12	15	20	
1240	223	CE12S8 <input type="checkbox"/>	UNIVAC-250	9-5/8	5	6	8	10	12	15	20	
1600	280	CE16V8 <input type="checkbox"/>	UNIVAC-250	10-5/8	5	6	8	10	12	15	20	
2400	295	CE24V10 <input type="checkbox"/>	UNIVAC-250	12-1/4	5	6	8	10	12	15	20	
3200	410	CE32V12 <input type="checkbox"/>	UNIVAC-330	14-1/4	5	6	8	10	12	15	20	
4000	430	CE40V14 <input type="checkbox"/>	UNIVAC-330	16	5	6	8	10	12	15	20	
6000	465	CE60V16 <input type="checkbox"/>	UNIVAC-330	19	—	6	8	10	12	15	20	

Other sizes available, consult factory.

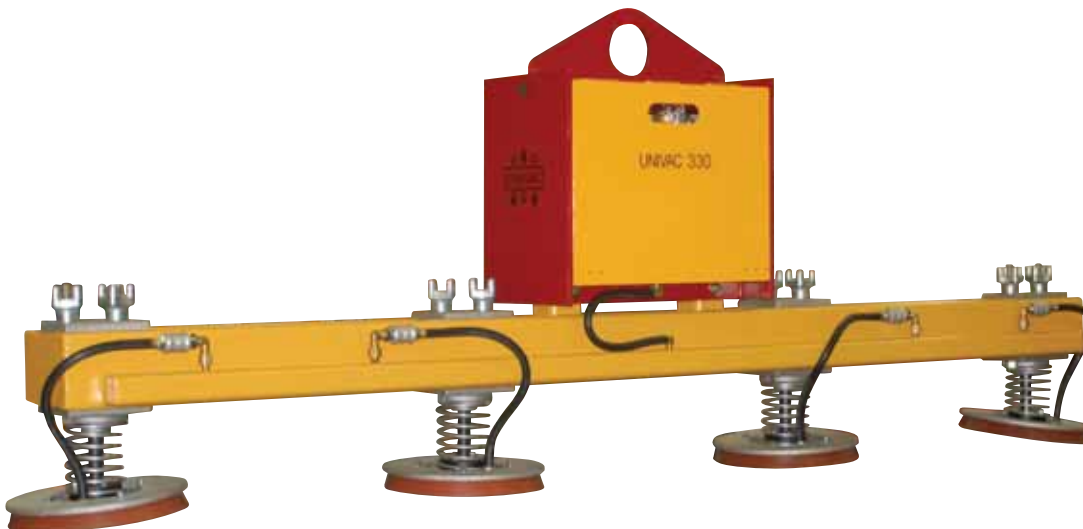


# Narrow Applications

## Model C - Load Beam with 4 Inline Pads Vacuum Lifter



In line units to handle long narrow material.



Individual pads can be isolated from the system by utilizing manual slide valves.



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# Application Evaluation



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## Univac® Application Evaluation

### Material To Be Handled:

- Steel       Aluminum       Glass       Stone Slabs  
 Plastic/Fiberglass       Particle Board  
 Other: \_\_\_\_\_ (Provide detailed sketch)

### Material Temperature Is:

- Under 200° F  
 200° to 600° F  
 Over 600° F (Specify temperature)

### Material Dimensions:

Minimum: Length \_\_\_\_\_ Width \_\_\_\_\_ Thickness \_\_\_\_\_ (required)  
Maximum: Length \_\_\_\_\_ Width \_\_\_\_\_ Thickness \_\_\_\_\_  
Maximum Capacity Required \_\_\_\_\_

### Material Orientation During Lift:

- Horizontal Only       Vertical Only  
 Horizontal to Vertical

Headroom Available: \_\_\_\_\_

### Power Available:

- Electric Specify:       115v/1ph/60hz  
    230-460v/3ph/60hz  
    230v dc  
 Compressed Air  
 No External Power - Battery operated required

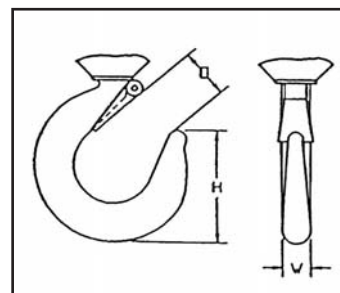
### Hook Size or Hook Opening:

Required for crane hook

H \_\_\_\_\_

O \_\_\_\_\_

W \_\_\_\_\_



### Options Required:

- Side Handle  
 Parking Stand  
 Audible Low Vacuum Warning  
 Custom Pendant Control (Standard is 2-button)  
 Wireless Pendant Control

Contact: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

Email: \_\_\_\_\_

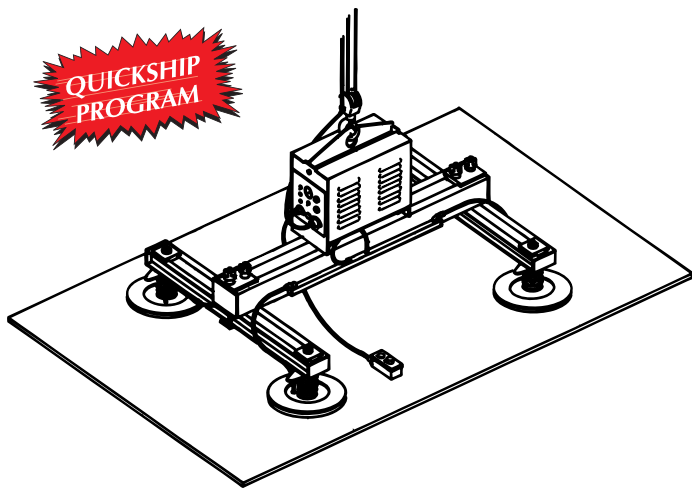
# Wide Applications



## Model D - Twin Crossarms with 4 Pads Vacuum Lifter

For lifting wide or thin material. The crossarms make the load easier to balance.

Quick guideline for max. sheet size of steel or aluminum at different thicknesses.



Minimum Thickness (in.)	Maximum Width (in.)	Maximum Length (in.)
.0250	72	72
.0478	96	96
.1150	96	144
.1950	96	192

Max. width equal to twice overhang distance.

Max. length equal to four times overhang distance.

**NOTE:** All venturi units include a side handle. For other options, please see page C.8.

### SPECIFICATIONS

Add FEET to blank Model Number box to complete code.  
 Example: 5' load beam - DA16V8  5  D3

Rated Capacity (lbs.)	Base Wt. @ 5' (lbs.)	Model Number	Power-Pac	Flared Diameter (in.)	Load Beam Length (ft.)		
					5	6	8
<b>Shop Air - Venturi</b>							
<b>With 3' Crossarm Beams</b>							
680	315	DA6S6 <input type="checkbox"/> D3	V-40	7-1/4	5	6	8
1240	315	DA12S8 <input type="checkbox"/> D3	V-40	9-5/8	5	6	8
1600	320	DA16V8 <input type="checkbox"/> D3	V-40	10-5/8	5	6	8
2400	335	DA24V10 <input type="checkbox"/> D3	V-40	12-1/4	5	6	8
3200	355	DA32V12 <input type="checkbox"/> D3	V-40	14-1/4	5	6	8
4000	380	DA40V14 <input type="checkbox"/> D3	V-40	16	5	6	8
<b>With 4' Crossarm Beams</b>							
680	325	DA6S6 <input type="checkbox"/> D4	V-40	7-1/4	5	6	8
1240	325	DA12S8 <input type="checkbox"/> D4	V-40	9-5/8	5	6	8
1600	330	DA16V8 <input type="checkbox"/> D4	V-40	10-5/8	5	6	8
2400	345	DA24V10 <input type="checkbox"/> D4	V-40	12-1/4	5	6	8
3200	365	DA32V12 <input type="checkbox"/> D4	V-40	14-1/4	5	6	8
4000	390	DA40V14 <input type="checkbox"/> D4	V-40	16	5	6	8
<b>Electric</b>							
<b>With 3' Crossarm Beams</b>							
680	290	DE6S6 <input type="checkbox"/> D3	UNIVAC-250	7-1/4	5	6	8
1240	310	DE12S8 <input type="checkbox"/> D3	UNIVAC-250	9-5/8	5	6	8
1600	350	DE16V8 <input type="checkbox"/> D3	UNIVAC-250	10-5/8	5	6	8
2400	365	DE24V10 <input type="checkbox"/> D3	UNIVAC-250	12-1/4	5	6	8
3200	485	DE32V12 <input type="checkbox"/> D3	UNIVAC-330	14-1/4	5	6	8
4000	520	DE40V14 <input type="checkbox"/> D3	UNIVAC-330	16	5	6	8
6000	535	DE60V16 <input type="checkbox"/> D3	UNIVAC-330	19	5	6	8
8000	970	DE80V20 <input type="checkbox"/> D3	UNIVAC-1500	23	5	6	8
<b>With 4' Crossarm Beams</b>							
680	300	DE6S4 <input type="checkbox"/> D4	UNIVAC-250	7-1/4	5	6	8
1240	315	DE12S8 <input type="checkbox"/> D4	UNIVAC-250	9-5/8	5	6	8
1600	360	DE16V8 <input type="checkbox"/> D4	UNIVAC-250	10-5/8	5	6	8
2400	375	DE24V10 <input type="checkbox"/> D4	UNIVAC-250	12-1/4	5	6	8
3200	495	DE32V12 <input type="checkbox"/> D4	UNIVAC-330	14-1/4	5	6	8
4000	520	DE40V14 <input type="checkbox"/> D4	UNIVAC-330	16	5	6	8
6000	545	DE60V16 <input type="checkbox"/> D4	UNIVAC-330	19	5	6	8
8000	980	DE80V20 <input type="checkbox"/> D4	UNIVAC-1500	23	5	6	8

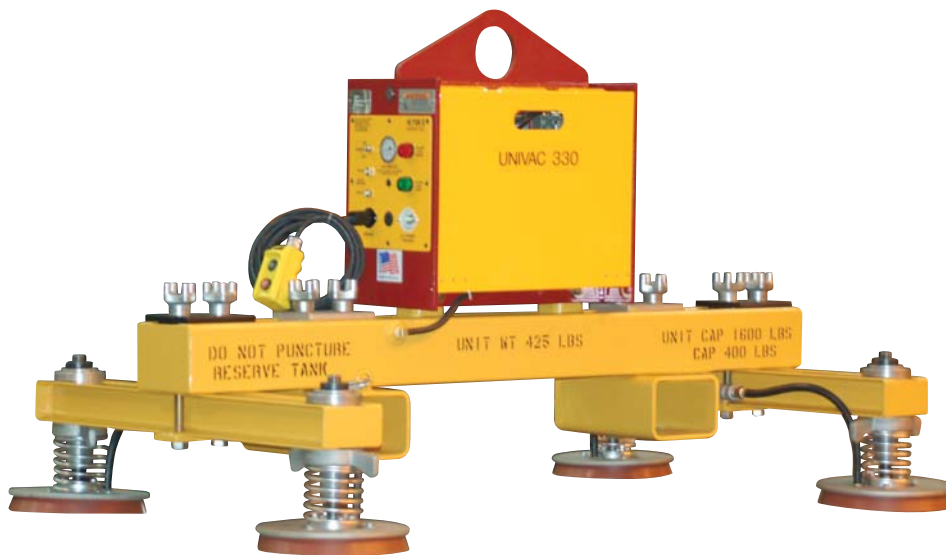
Other sizes available, consult factory.

# Wide Applications

## Model D - Twin Crossarms with 4 Pads Vacuum Lifter



Lightweight Univac® 250 for capacities less than 2,400 pounds.



Battery powered unit with fork pockets allows lifter to be used with a lift truck.

**Crossarms allow for extra stability for wider material and reduce amount of deflection for thinner material.**



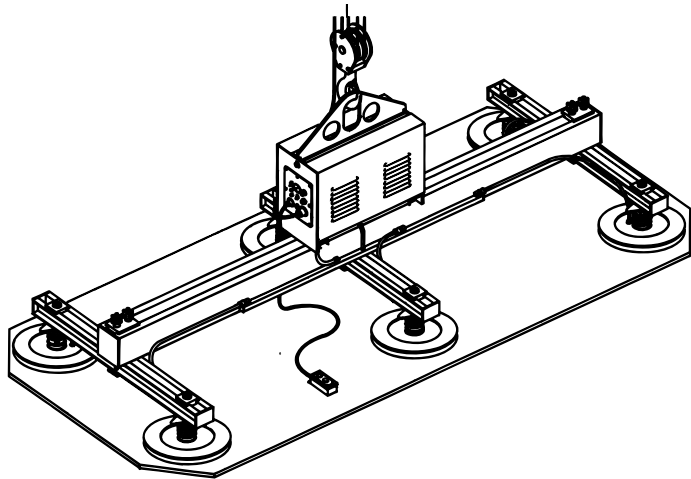
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Rev. 03/08  
Vacuum Lifters Section  
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# Wide Applications

## Model E - Triple Crossarms with 6 Pads Vacuum Lifter

For lifting semi long and wide material of moderate weight, or extra support of thin material.



Quick guideline for max. sheet size of steel or aluminum at different thicknesses.

Minimum Thickness (in.)	Maximum Width (in.)	Maximum Length (in.)
.0250	72	96
.0478	96	144
.1150	96	216
.1950	96	270

Max. width equal to twice overhang distance.

Max. length equal to four times overhang distance.

**NOTE:** All venturi units include a side handle. For other options, please see page C.8.

### SPECIFICATIONS

Add FEET to blank Model Number box to complete code.  
Example: 5' load beam - EE24V8  T4

Rated Capacity (lbs.)	Base Wt. @ 5' (lbs.)	Model Number	Power-Pac	Flared Diameter (in.)	Load Beam Length (ft.)					
					5	6	8	10	12	15
<b>Shop Air - Venturi</b>										
<b>With 3' Crossarm Beams</b>										
480	380	EA4S4 <input type="checkbox"/> T3	V-40	5	5	6	8	10	12	15
1200	385	EA10S6 <input type="checkbox"/> T3	V-40	7-1/4	5	6	8	10	12	15
1860	400	EA18S8 <input type="checkbox"/> T3	V-40	9-5/8	5	6	8	10	12	15
2400	420	EA24V8 <input type="checkbox"/> T3	V-40	10-5/8	5	6	8	10	12	15
3600	430	EA36V10 <input type="checkbox"/> T3	V-40	12-1/4	5	6	8	10	12	15
<b>With 4' Crossarm Beams</b>										
480	390	EA4S4 <input type="checkbox"/> T4	V-40	5	5	6	8	10	12	15
1200	395	EA10S6 <input type="checkbox"/> T4	V-40	7-1/4	5	6	8	10	12	15
1860	420	EA18S8 <input type="checkbox"/> T4	V-40	9-5/8	5	6	8	10	12	15
2400	430	EA24V8 <input type="checkbox"/> T4	V-40	10-5/8	5	6	8	10	12	15
3600	440	EA36V10 <input type="checkbox"/> T4	V-40	12-1/4	5	6	8	10	12	15
<b>Electric</b>										
<b>With 3' Crossarm Beams</b>										
480	405	EE4S4 <input type="checkbox"/> T3	UNIVAC-250	5	5	6	8	10	12	15
1200	410	EE10S6 <input type="checkbox"/> T3	UNIVAC-250	7-1/4	5	6	8	10	12	15
1860	420	EE18S8 <input type="checkbox"/> T3	UNIVAC-250	9-5/8	5	6	8	10	12	15
2400	435	EE24V8 <input type="checkbox"/> T3	UNIVAC-250	10-5/8	5	6	8	10	12	15
3600	560	EE36V10 <input type="checkbox"/> T3	UNIVAC-330	12-1/4	5	6	8	10	12	15
4800	580	EE48V12 <input type="checkbox"/> T3	UNIVAC-330	14-1/4	5	6	8	10	12	15
6000	910	EE60V14 <input type="checkbox"/> T3	UNIVAC-330	16	5	6	8	10	12	15
9000	930	EE90V16 <input type="checkbox"/> T3	*UNIVAC-1500	19	5	6	8	10	12	15
12000	1216	EE120V20 <input type="checkbox"/> T3	*UNIVAC-1500	23	5	6	8	10	12	15
<b>WITH 4' CROSSARM BEAMS</b>										
480	415	EE4S4 <input type="checkbox"/> T4	UNIVAC-250	5	5	6	8	10	12	15
1200	420	EE10S6 <input type="checkbox"/> T4	UNIVAC-250	7-1/4	5	6	8	10	12	15
1860	430	EE18S8 <input type="checkbox"/> T4	UNIVAC-250	9-5/8	5	6	8	10	12	15
2400	445	EE24V8 <input type="checkbox"/> T4	UNIVAC-250	10-5/8	5	6	8	10	12	15
3600	570	EE36V10 <input type="checkbox"/> T4	UNIVAC-330	12-1/4	5	6	8	10	12	15
4800	590	EE48V12 <input type="checkbox"/> T4	UNIVAC-330	14-1/4	5	6	8	10	12	15
6000	920	EE60V14 <input type="checkbox"/> T4	UNIVAC-330	16	5	6	8	10	12	15
9000	940	EE90V16 <input type="checkbox"/> T4	*UNIVAC-1500	19	5	6	8	10	12	15
12000	1226	EE120V20 <input type="checkbox"/> T4	*UNIVAC-1500	23	5	6	8	10	12	15

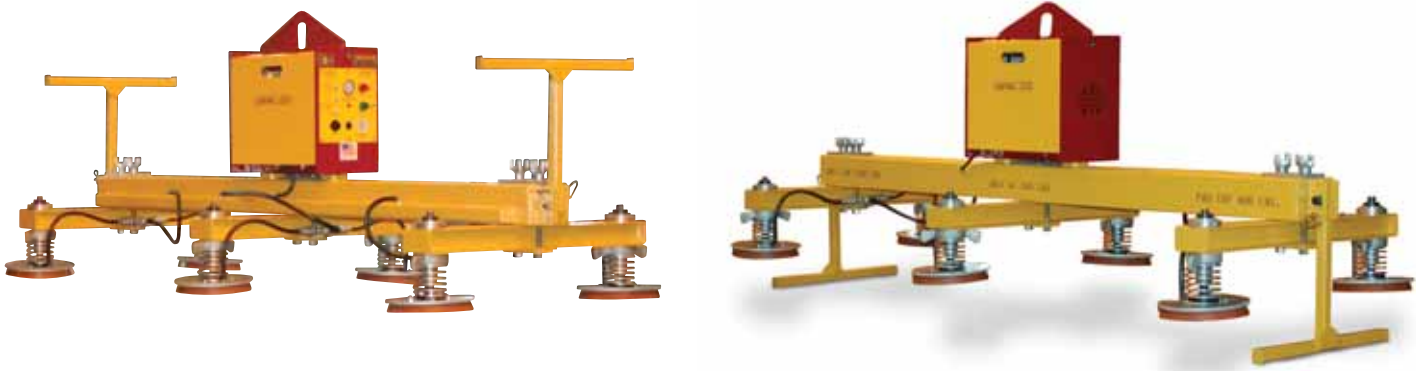
\*NOTE: 230/460V

Other sizes available, consult factory.



# Wide Applications

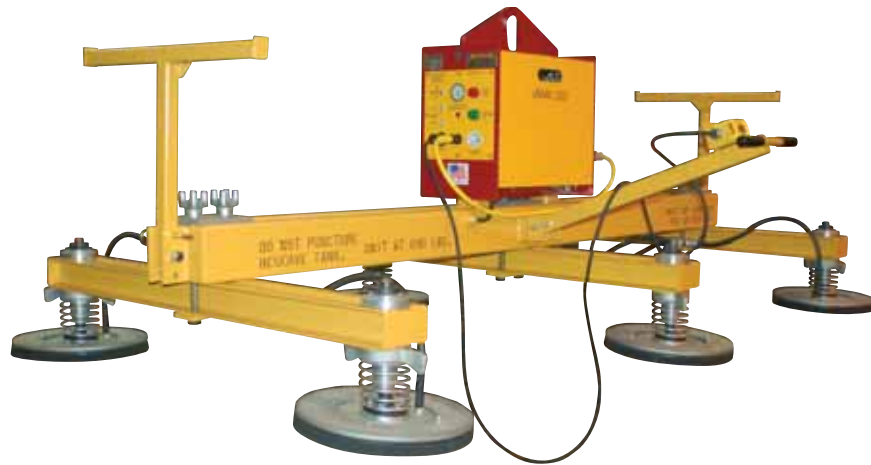
## Model E - Triple Crossarms with 6 Pads Vacuum Lifter



A parking stand is just one option available on all vacuum units.



Manual slide valves shut off individual crossarms allowing the operator to easily customize the lifter to match the load.



Above lifter utilizing a parking stand (option "P"), side handle (option "SH"), and transformer (option "T").

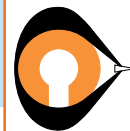


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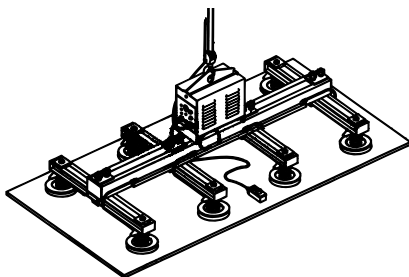
# Wide Applications



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 Rev. 03/08

## Model F - Quad Crossarms with 8 to 12 Pads Vacuum Lifter

For lifting longer, wider and heavier sized material, or increased support of thin material.



**NOTE:** All venturi units include a side handle. For other options, please see page C.8.

Quick guideline for max. sheet size of steel or aluminum at different thicknesses.

Min. Thickness (in.)	Max. Width (in.)	Max. Length (in.)
.0250	72	144
.0478	96	200
.1150	120	300
.1950	120	320

Max. width equal to four times overhang distance.  
 Max. length equal to eight times overhang distance.

### SPECIFICATIONS

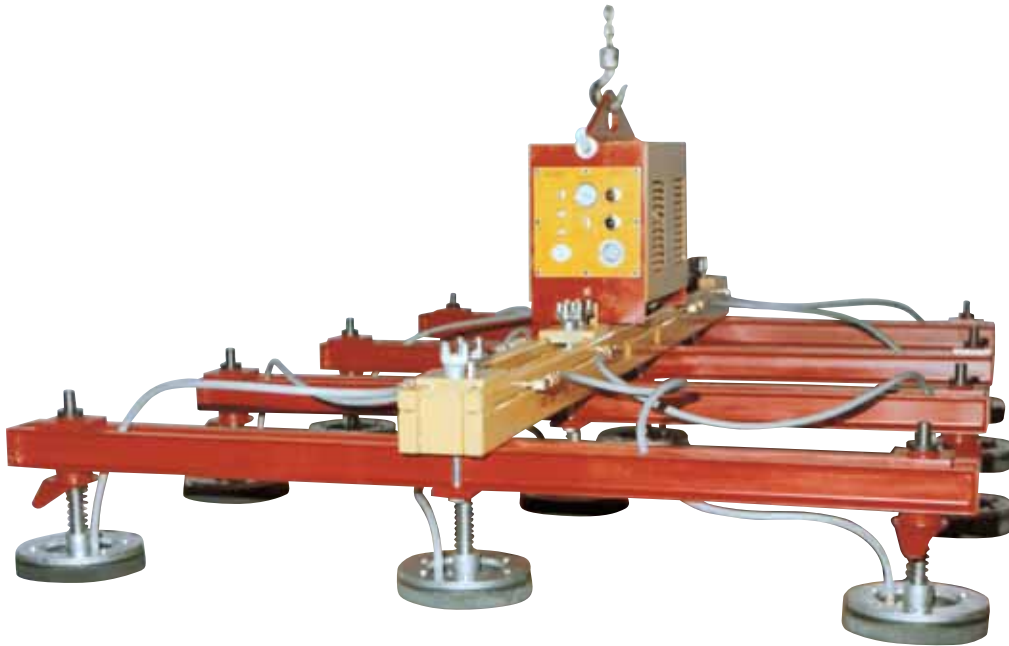
Add FEET to blank Model Number box to complete code. Example: 6' load beam - FA6S4  6 Q3

Rated Capacity (lbs.)	Base Wt. @ 6' (lbs.)	Model Number	Power-Pac	Flared Diameter (in.)	Load Beam Length (ft.)					
					6	8	10	12	15	20
<b>Shop Air - Venturi</b>										
<b>With 3' Crossarm Beams</b>										
640	475	FA6S4 <input type="checkbox"/> Q3	V-40	5	6	8	10	12	15	20
1360	490	FA13S6 <input type="checkbox"/> Q3	V-40	7-1/4	6	8	10	12	15	20
2480	520	FA24S8 <input type="checkbox"/> Q3	V-40	9-5/8	6	8	10	12	15	20
3200	540	FA32V8 <input type="checkbox"/> Q3	V-40	10-5/8	6	8	10	12	15	20
<b>With 4' Crossarm Beams</b>										
640	485	FA6S4 <input type="checkbox"/> Q4	V-40	5	6	8	10	12	15	20
1360	500	FA13S6 <input type="checkbox"/> Q4	V-40	7-1/4	6	8	10	12	15	20
2480	530	FA24S8 <input type="checkbox"/> Q4	V-40	9-5/8	6	8	10	12	15	20
3200	550	FA32V8 <input type="checkbox"/> Q4	V-40	10-5/8	6	8	10	12	15	20
<b>With 5' Crossarm Beams</b>										
640	495	FA6S4 <input type="checkbox"/> Q5	V-40	5	6	8	10	12	15	20
1360	510	FA13S6 <input type="checkbox"/> Q5	V-40	7-1/4	6	8	10	12	15	20
2480	540	FA24S8 <input type="checkbox"/> Q5	V-40	9-5/8	6	8	10	12	15	20
3200	560	FA32V8 <input type="checkbox"/> Q5	V-40	10-5/8	6	8	10	12	15	20
<b>Electric</b>										
<b>With 3' Crossarm Beams</b>										
640	525	FE6S4 <input type="checkbox"/> Q3	UNIVAC-250	5	6	8	10	12	15	20
1360	530	FE13S6 <input type="checkbox"/> Q3	UNIVAC-250	7-1/4	6	8	10	12	15	20
2480	540	FE24S8 <input type="checkbox"/> Q3	UNIVAC-250	9-5/8	6	8	10	12	15	20
3200	670	FE32V8 <input type="checkbox"/> Q3	UNIVAC-330	10-5/8	6	8	10	12	15	20
4800	700	FE48V10 <input type="checkbox"/> Q3	UNIVAC-330	12-1/4	6	8	10	12	15	20
6400	735	FE64V12 <input type="checkbox"/> Q3	UNIVAC-330	14-1/4	6	8	10	12	15	20
8000	795	FE80V14 <input type="checkbox"/> Q3	UNIVAC-330	16	6	8	10	12	15	20
12000	1260	FE120V16 <input type="checkbox"/> Q3	*UNIVAC-1500	19	6	8	10	12	15	20
15200	1490	FE152V20 <input type="checkbox"/> Q3	*UNIVAC-1500	23	—	8	10	12	15	20
<b>With 4' Crossarm Beams</b>										
640	535	FE6S4 <input type="checkbox"/> Q4	UNIVAC-250	5	6	8	10	12	15	20
1360	540	FE13S6 <input type="checkbox"/> Q4	UNIVAC-250	7-1/4	6	8	10	12	15	20
2480	550	FE24S8 <input type="checkbox"/> Q4	UNIVAC-250	9-5/8	6	8	10	12	15	20
3200	680	FE32V8 <input type="checkbox"/> Q4	UNIVAC-330	10-5/8	6	8	10	12	15	20
4800	710	FE48V10 <input type="checkbox"/> Q4	UNIVAC-330	12-1/4	6	8	10	12	15	20
6400	745	FE64V12 <input type="checkbox"/> Q4	UNIVAC-330	14-1/4	6	8	10	12	15	20
8000	810	FE80V14 <input type="checkbox"/> Q4	UNIVAC-330	16	6	8	10	12	15	20
12000	1270	FE120V16 <input type="checkbox"/> Q4	*UNIVAC-1500	19	6	8	10	12	15	20
15200	1500	FE152V20 <input type="checkbox"/> Q4	*UNIVAC-1500	23	—	8	10	12	15	20
<b>With 5' Crossarm Beams</b>										
640	545	FE6S4 <input type="checkbox"/> Q5	UNIVAC-250	5	6	8	10	12	15	20
1360	550	FE13S6 <input type="checkbox"/> Q5	UNIVAC-250	7-1/4	6	8	10	12	15	20
2480	570	FE24S8 <input type="checkbox"/> Q5	UNIVAC-250	9-5/8	6	8	10	12	15	20
3200	690	FE32V8 <input type="checkbox"/> Q5	UNIVAC-330	10-5/8	6	8	10	12	15	20
4800	720	FE48V10 <input type="checkbox"/> Q5	UNIVAC-330	12-1/4	6	8	10	12	15	20
6400	755	FE64V12 <input type="checkbox"/> Q5	UNIVAC-330	14-1/4	6	8	10	12	15	20
8000	820	FE80V14 <input type="checkbox"/> Q5	UNIVAC-330	16	6	8	10	12	15	20
12000	1280	FE120V16 <input type="checkbox"/> Q5	*UNIVAC-1500	19	6	8	10	12	15	20
15200	1510	FE152V20 <input type="checkbox"/> Q5	*UNIVAC-1500	23	—	8	10	12	15	20



# Wide Applications

## Model F - Quad Crossarms with 8 to 12 Pads Vacuum Lifter



Sponge vacuum pads used to handle rough material such as tread plate or OSB (particle board).



Crossarms are adjustable along load beam, and pads can be adjusted along the crossarms providing maximum flexibility.



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# Application Evaluation



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## Univac® Application Evaluation

### Material To Be Handled:

- Steel       Aluminum       Glass       Stone Slabs  
 Plastic/Fiberglass       Particle Board  
 Other: \_\_\_\_\_ (Provide detailed sketch)

### Material Temperature Is:

- Under 200° F  
 200° to 600° F  
 Over 600° F (Specify temperature)

### Material Dimensions:

Minimum: Length \_\_\_\_\_ Width \_\_\_\_\_ Thickness \_\_\_\_\_ (required)  
Maximum: Length \_\_\_\_\_ Width \_\_\_\_\_ Thickness \_\_\_\_\_  
Maximum Capacity Required \_\_\_\_\_

### Material Orientation During Lift:

- Horizontal Only       Vertical Only  
 Horizontal to Vertical

Headroom Available: \_\_\_\_\_

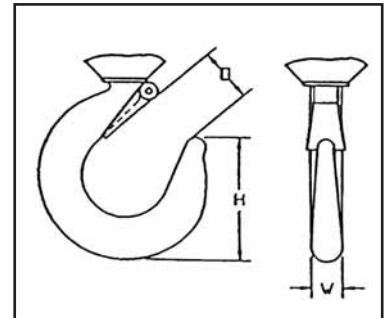
### Power Available:

- Electric Specify:     115v/1ph/60hz  
                                   230-460v/3ph/60hz  
                                   230v dc  
 Compressed Air  
 No External Power - Battery operated required

### Hook Size or Hook Opening:

Required for crane hook

H \_\_\_\_\_  
O \_\_\_\_\_  
W \_\_\_\_\_



### Options Required:

- Side Handle  
 Parking Stand  
 Audible Low Vacuum Warning  
 Custom Pendant Control (Standard is 2-button)  
 Wireless Pendant Control

For a price quote on your specific application, please complete the above application guide and fax this along with a photo, sketch, or drawing of the product being rotated, to **815-229-5686**

# Specialty Lifters



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## Model T - 90° Tilt Upender/Downender Vacuum Lifter

Lifting and rotation to 90° for assembly area, storing in vertical racks, inspection and glass handling applications.



### PRODUCT FEATURES:

- Positive hydraulic tilt control to 90°.
- Electric powered only.
- 4 to 1 Safety factor (2 to 1 in vertical position).
- Power-Pac encased within yoke assembly.
- Mold on pads are used for glass applications.

Note: Options p. C.8

### SPECIFICATIONS

				To Complete Model Number Code								
				Add FEET to 1st Blank Model Number Box					Add FEET to 2nd blank Model Number Box			
Capacity (lbs.)†	Model Number	Power-Pac	Neoprene Pad Diameter (in.)	Load Beam Length (ft.)					Crossarm Beams Length (ft.)			
				6	8	10	12	15	3	4	5	
<b>Non-glass material</b>												
<b>Twin crossarms with 4 pads</b>												
680	TE6S6 <input type="checkbox"/> D <input type="checkbox"/>	UNIVAC-330	7-1/4	6	8	10	12	15	3	4	5	
1,600	TE16V8 <input type="checkbox"/> D <input type="checkbox"/>	UNIVAC-330	10-5/8	6	8	10	12	15	3	4	5	
2,400	TE24V10 <input type="checkbox"/> D <input type="checkbox"/>	UNIVAC-330	12-1/4	6	8	10	12	15	3	4	5	
3,200	TE32V12 <input type="checkbox"/> D <input type="checkbox"/>	UNIVAC-330	14-1/4	6	8	10	12	15	3	4	5	
5,600	TE56V16 <input type="checkbox"/> D <input type="checkbox"/>	UNIVAC-330	19	6	8	10	12	15	3	4	5	
8,000	TE80V20 <input type="checkbox"/> D <input type="checkbox"/>	UNIVAC-330	23	—	8	10	12	15	3	4	5	
<b>Quad crossarms with 8 pads</b>												
640	TE6S4 <input type="checkbox"/> Q <input type="checkbox"/>	UNIVAC-330	5	6	8	10	12	15	3	4	5	
1,360	TE13S6 <input type="checkbox"/> Q <input type="checkbox"/>	UNIVAC-330	7-1/4	6	8	10	12	15	3	4	5	
3,200	TE32V8 <input type="checkbox"/> Q <input type="checkbox"/>	UNIVAC-330	10-5/8	6	8	10	12	15	3	4	5	
4,800	TE48V10 <input type="checkbox"/> Q <input type="checkbox"/>	UNIVAC-330	12-1/4	6	8	10	12	15	3	4	5	
6,400	TE64V12 <input type="checkbox"/> Q <input type="checkbox"/>	UNIVAC-330	14-1/4	6	8	10	12	15	3	4	5	
11,200	TE112V16 <input type="checkbox"/> Q <input type="checkbox"/>	*UNIVAC-1500	19	6	8	10	12	15	3	4	5	
16,000	TE160V20 <input type="checkbox"/> Q <input type="checkbox"/>	*UNIVAC-1500	23	—	8	10	12	15	3	4	5	
<b>Glass only</b>												
<b>Twin crossarms with 6 pads</b>			<b>Mold on Pad</b>									
540	TE5M5 <input type="checkbox"/> D <input type="checkbox"/>	UNIVAC-330	6-7/8	6	8	10	12	15	3	4	5	
1,500	TE15M8 <input type="checkbox"/> D <input type="checkbox"/>	UNIVAC-330	9-1/4	6	8	10	12	15	3	4	5	
<b>Quad crossarms with 12 pads</b>												
1,080	TE10M5 <input type="checkbox"/> Q <input type="checkbox"/>	UNIVAC-330	6-7/8	6	8	10	12	15	3	4	5	
3,000	TE30M8 <input type="checkbox"/> Q <input type="checkbox"/>	UNIVAC-330	9-1/4	6	8	10	12	15	3	4	5	

† Rated capacity is horizontal position only. Vertical capacity is 50% of horizontal capacity.

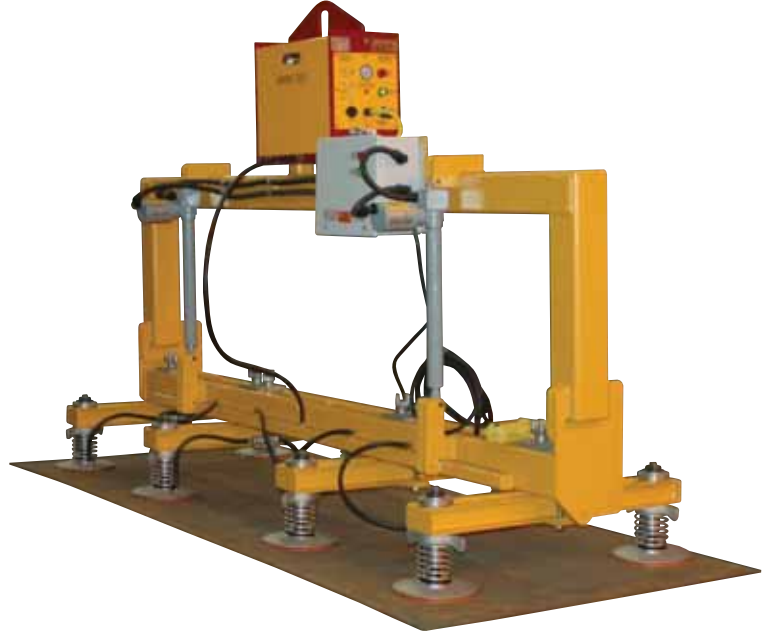
Other sizes available, consult factory.

\*NOTE 230/460V

# Specialty Lifters

## Model T - 90° Tilt Upender/Downender Vacuum Lifter

90° upenders / downenders for any material that needs to be tilted up or down for inspection or placing into shipping containers



Steel plate shown horizontal.



Electric upenders can allow the operator to position the plate anywhere from 0 to 90 degrees.



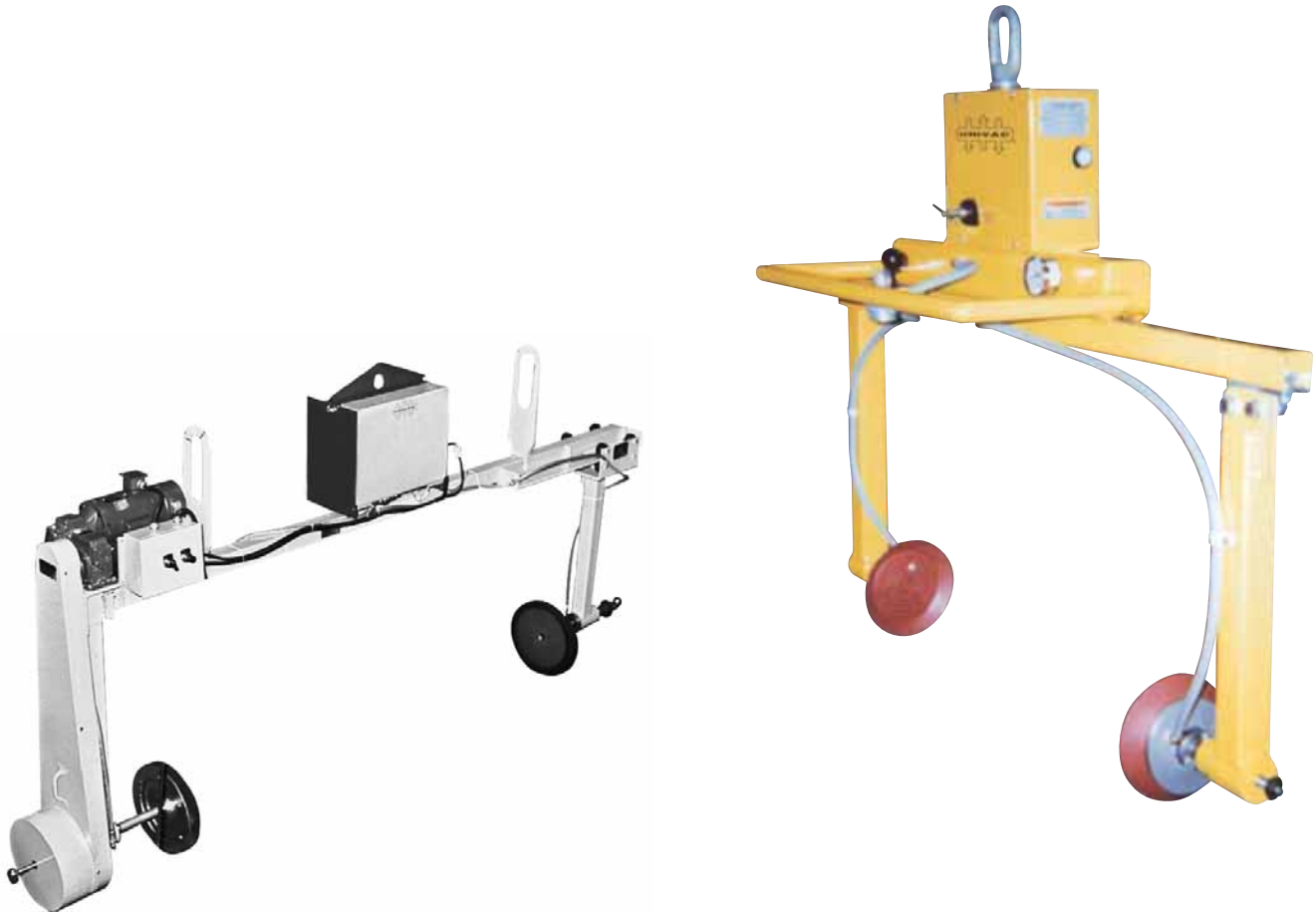
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# Specialty Lifters

## Side Grab Manipulator Vacuum Lifter

Designed to manipulate 180° for production, inspection and assembly applications.



### PRODUCT FEATURES:

- Standard UNIVAC® electric vacuum Power-Pac.
- Motorized product rotation.
- Adjustable width for product.
- Simple pushbutton controls.

Custom designed per application



# Specialty Lifters

## Variable Size Sheet Vacuum Lifter

Designed to handle both long and short sheets of steel plate. Generally occurs in a shearing operation. The load beam has pivoting arms to allow short plates to be fed to the shear blade, and can then be converted to longer sheet operation.



### PRODUCT FEATURES:

- Standard UNIVAC® electric vacuum Power-Pac.
- Includes features as listed on page C.4.
- Standard options see page C.8.  
(consult factory for availability)

Custom designed per application



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# Application Evaluation



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## Univac® Application Evaluation

### Material To Be Handled:

- Steel       Aluminum       Glass       Stone Slabs  
 Plastic/Fiberglass       Particle Board  
 Other: \_\_\_\_\_ (Provide detailed sketch)

### Material Temperature Is:

- Under 200° F  
 200° to 600° F  
 Over 600° F (Specify temperature)

### Material Dimensions:

Minimum: Length \_\_\_\_\_ Width \_\_\_\_\_ Thickness \_\_\_\_\_ (required)  
Maximum: Length \_\_\_\_\_ Width \_\_\_\_\_ Thickness \_\_\_\_\_  
Maximum Capacity Required \_\_\_\_\_

### Material Orientation During Lift:

- Horizontal Only       Vertical Only  
 Horizontal to Vertical

Headroom Available: \_\_\_\_\_

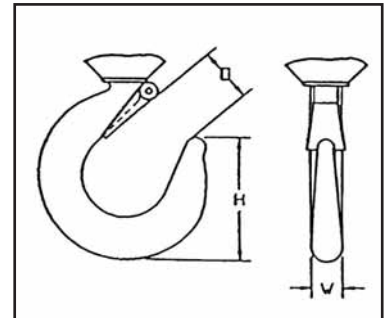
### Power Available:

- Electric Specify:     115v/1ph/60hz  
                                   230-460v/3ph/60hz  
                                   230v dc  
 Compressed Air  
 No External Power - Battery operated required

### Hook Size or Hook Opening:

Required for crane hook

H \_\_\_\_\_  
O \_\_\_\_\_  
W \_\_\_\_\_



### Options Required:

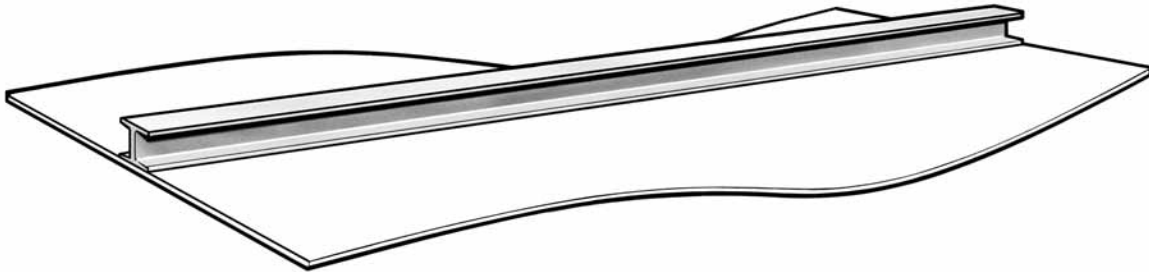
- Side Handle  
 Parking Stand  
 Audible Low Vacuum Warning  
 Custom Pendant Control (Standard is 2-button)  
 Wireless Pendant Control

For a price quote on your specific application, please complete the above application guide and fax this along with a photo, sketch, or drawing of the product being rotated, to **815-229-5686**



## Uniclamp™ Welding Hold Down Clamp

*WHAT IT DOES:*



UNICLAMP™ ELIMINATES THE GAP BETWEEN THE PLATE AND THE STIFFENER!

*That was then...*



This conventional setup can take up to two hours to complete, including welding lugs, dogs and bridges in place, positioning awkward and heavy equipment; and then having to remove these setups and regrind the attachment points.

*This is now...*



Using the UNICLAMP™ Welding Hold Down Clamp, less than 30 seconds is required from setup to weld, increasing productivity, quality and safety.

*HOW IT WORKS:*

The simple connection of a standard plant-supplied compressed air line and the flick of a switch allows the clamp's built-in, high speed generator to create a powerful vacuum, permitting the vacuum pads to immediately attach themselves directly to the work surface. The clamp manual screw or hydraulic ram can then be operated to instantly secure the proper alignment of parts.

UNICLAMPS™ will meet your clamping requirements without the tedious, time consuming and sometimes dangerous paraphernalia associated with traditional methods of fabrication assembly techniques. ***NO MORE LUGS DOGS, BRIDGES, WEDGES, CHAINS, JACKS, "C" CLAMPS, TACK WELDS, OR REGRINDING REQUIRED!***

*UNICLAMPS™ Are Powered by Compressed Air and Leave No Marks!*

**NOTE: UNICLAMPS™ ARE NOT DESIGNED FOR LIFTING PURPOSES.**



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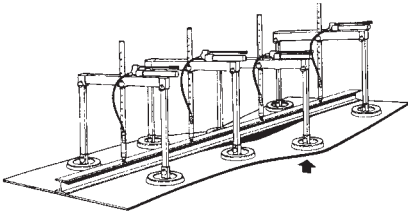
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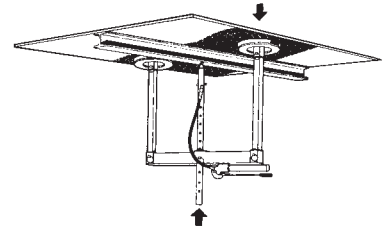
## Limitless Possibilities...

UNICLAMPS™ can be tailored to suit a wide variety of applications. Contact the factory or your area UNIVAC® representative for special clamp modifications to suit your application needs.

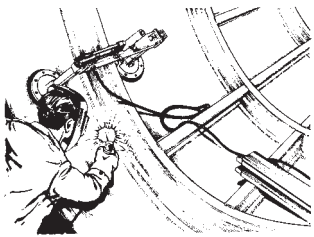
Customer special applications have led to the following product developments.



GANG CLAMPS FOR LONG LOADS



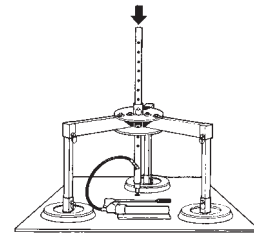
OVERHEAD APPLICATION



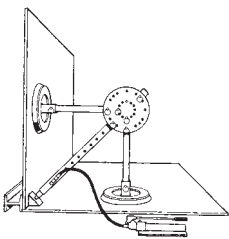
CURVED SECTION WELDING



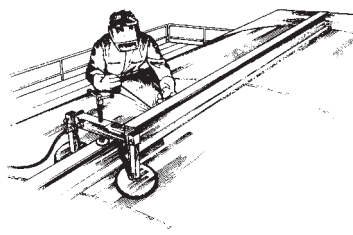
WHD-1 OBLONG CLAMP  
WHD-2 ROUND PADS  
WHD-24 STANDARD PADS



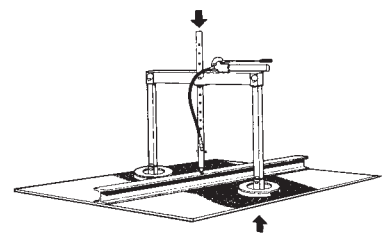
MULTI-AXIS CLAMP



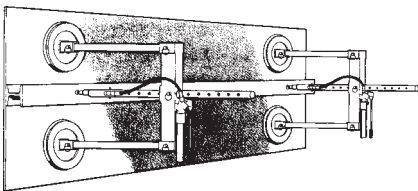
CORNER ANGLE BRACE CLAMP



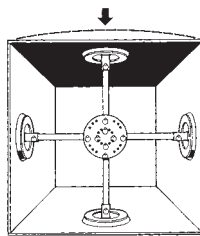
SURFACE WELDING STIFFENER



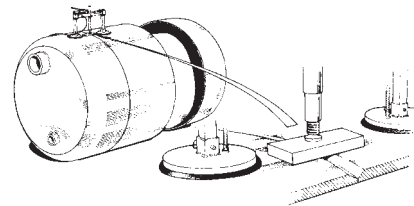
ELIMINATING THE GAP



VERTICAL CLAMPING OF BEAM



SPECIAL FIXTURE CLAMP



ALIGNING CURVED SURFACES



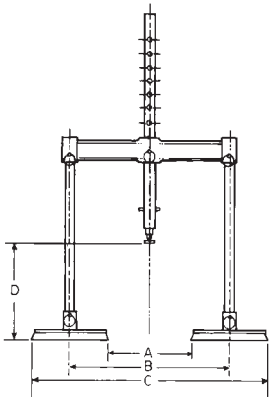
## The Lightweights...

WHD-1 and WHD-2 models are constructed of a high-strength aircraft aluminum alloy developed specially for these applications, bringing lightweight portability to workpiece positioning and clamping.

The UNICLAMPS™ have proved to be invaluable in transportation industry applications. These easily positioned clamps are ideally suited for sheet and light plate fabrication. Lightweight UNICLAMPS™ are utilized to secure "skin" materials to ribbed structures at aircraft, aerospace, bus, trailer, truck and railroad car manufacturing or repair centers.



The WHD-1 and WHD-2 UNICLAMPS™ feature capacities up to 1,200 lbs with clamp weights not exceeding 16 lbs! Features include round or rectangular vacuum pads, varying headframe widths, and varying height under the ram to suit special requirements.



### SPECIFICATIONS

Model Number	Holding Force (lbs.)	D Height Under Ram (in.)	Dimensions (in.)						Weight (lbs.)
			Round Vacuum Pads			Rectangular Vacuum Pads			
			A	B	C	A	B	C	
WHD-1	750	8-3/4	8-1/4	15-1/2	22-3/4	12	15-1/2	19	14
WHD-2	1,200	8-3/4	5-7/8	15-1/2	25-1/8	12	15-1/2	19	16

NOTE: Weights and dimensions are approximate.

*UNICLAMPS™ Disassemble in Seconds Without Tools!*

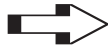
NOTE: UNICLAMPS™ ARE NOT DESIGNED FOR LIFTING PURPOSES.



## The Middleweights...

Like their smaller counterparts, the UNICLAMP™ models WHD-18, WHD-24, WHD-32 and WHD-40 are constructed of the same high-strength aircraft aluminum alloy, affording these clamps the identical advantage of reduced weight for heavier duty positioning and clamping requirements.

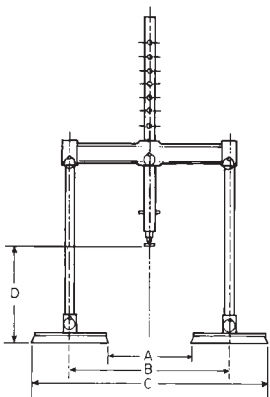
The clamp models are utilized extensively in aircraft, ship building, bridge construction, tank manufacturing and the steel fabrication industry. They excel whenever larger assemblies need to be drawn into alignment or held in position for a welding process.



The WHD-18 and WHD-24 UNICLAMP™ features include round or rectangular vacuum pads, varying headframe widths, and varying height under the ram to suit special requirements.



The WHD-32 and WHD-40 are available with round, rectangular or square vacuum pads, varying headframe widths, and varying height under the ram to suit special requirements.



### SPECIFICATIONS

Model Number	Holding Force (lbs.)	D Height Under Ram (in.)	Dimensions (in.)						Weight (lbs.)
			Round Vacuum Pads			Rectangular Vacuum Pads			
			A	B	C	A	B	C	
WHD-18	1,800	15-3/4	13-3/4	24	34-1/4	20	24	28	34
WHD-24	2,400	15-3/4	12	24	36	19	24	29	36
WHD-32	3,200	15-3/4	10	24	38	15	24	33	38
WHD-40	4,000	15-3/4	8	24	40	15	24	33	42

NOTE: Weights and dimensions are approximate.

*Concave or Convex Surfaces, No Problem for UNICLAMPS™!*

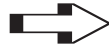
**NOTE: UNICLAMPS™ ARE NOT DESIGNED FOR LIFTING PURPOSES.**



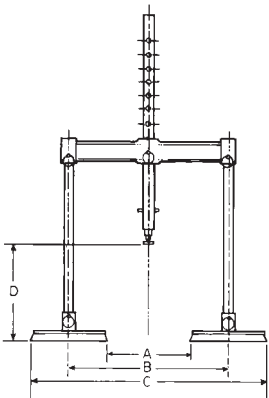
## The Heavyweights...

UNICLAMP™ steel constructed models WHD-60, WHD-80 and WHD-100 answer industry's heaviest application requirements.

Utilized in ship building, heavy plate fabrication, plant construction, bridge building, large tank fabrication and steel mill applications, these clamps bring incredible amounts of clamping power to bear on the largest of fabrication application requirements. These easy-to-use, portable, high-speed clamps draw oversize materials into position for welding, assembly or alignment procedures.



The WHD-60, WHD-80, and WHD-100 Welding and Fabrication Clamps, boast holding force up to 10,000 lbs with a venturi vacuum generator and a hydraulic powered ram as standard features. Vacuum pads in round, rectangular, or square are available to suit custom requirements.



### SPECIFICATIONS

Model Number	Holding Force (lbs.)	D Height Under Ram (in.)	Dimensions (in.)						Weight (lbs.)
			Round Vacuum Pads			Rectangular Vacuum Pads			
			A	B	C	A	B	C	
WHD-60	6,000	24	12	31	50	17	26	35	165
WHD-80	8,000	24	15	37	60	15	29	43	195
WHD-100	10,000	30	12-1/2	40	67-1/2	17	38	59	245

NOTE: Weights and dimensions are approximate.

*UNICLAMPS™ Work on Rough Textured or Uneven Surfaces!*

NOTE: UNICLAMPS™ ARE NOT DESIGNED FOR LIFTING PURPOSES.



## Uniclamp™ Options Include...

Articulating legs permit UNICLAMPS™ to function on curved surfaces. Whether work surfaces are angled, inclined, right angles, convex or concave, UNICLAMPS™ provide the best solution to your positioning and clamping needs.

Special pad adapters are available for UNICLAMP™ models WHD/M, WHD-1, and WHD-2 to allow articulation of the vacuum pads up to 90°. All other models can be optionally equipped with articulating legs in either the "X" or "Y" axis or in any combination to suit application requirements.

Other options include special width headframes, multiple rams, special high-temperature vacuum pads, safety switch guards, special clamp monitor equipment, force regulators, adjustable asymmetrical legs for stepped elevations or uneven surfaces, pivoting rams, off-center ram, pressure foot adapter, vacuum pads for use on textured surfaces such as treadplate, etc., and many others. UNIVAC® model HG-4C remote electric vacuum generation units are available for all clamps.



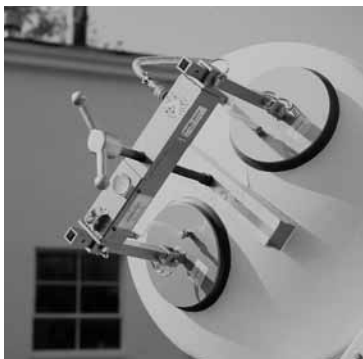
Aircraft "skin" positioning and clamping operation.



Miniature 2,000 lbs capacity screw clamp for European ship building application.



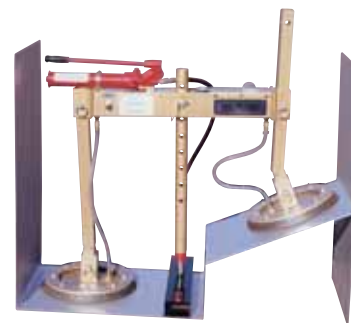
UNICLAMPS™ are well suited for curved or uneven surfaces.



Advanced vacuum technology to suit your application requirements.



Special low-profile clamp requirement.



Adjustable asymmetrical leg UNICLAMP™.

*Special Sizes and Designs Are Available  
for All UNICLAMPS™*