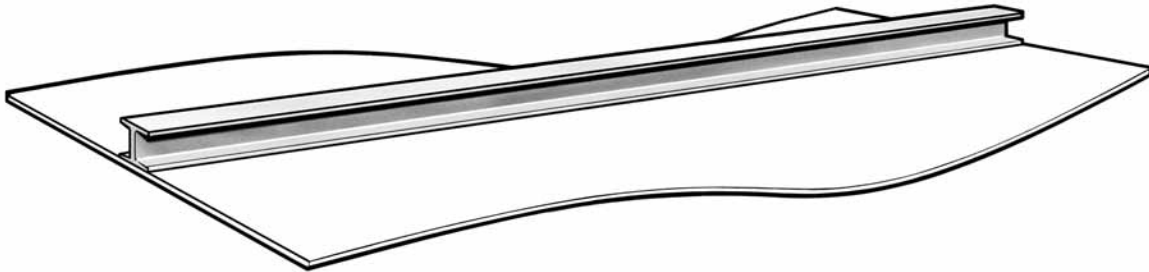


Uniclamp™ Welding Hold Down Clamp

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.



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

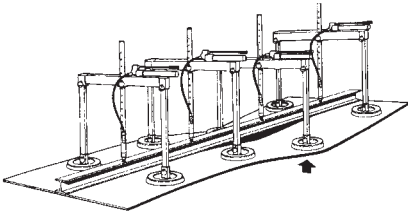
UNIVAC®
Vacuum Lifters Section
Master Catalog MC-607



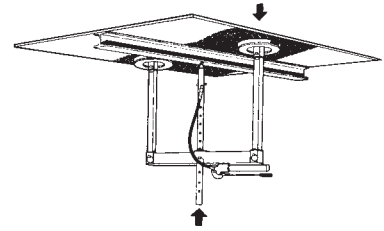
Limitless Possibilities...

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.

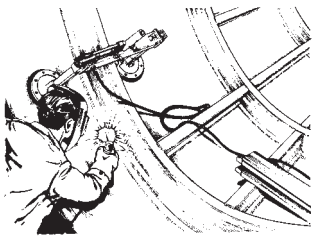
Customer special applications have led to the following product developments.



GANG CLAMPS FOR LONG LOADS



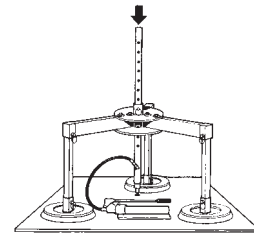
OVERHEAD APPLICATION



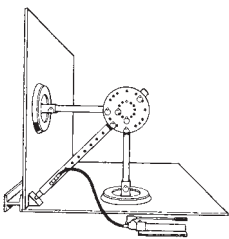
CURVED SECTION WELDING



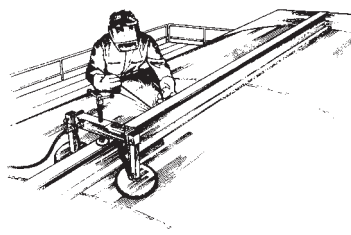
WHD-1 OBLONG CLAMP
WHD-2 ROUND PADS
WHD-24 STANDARD PADS



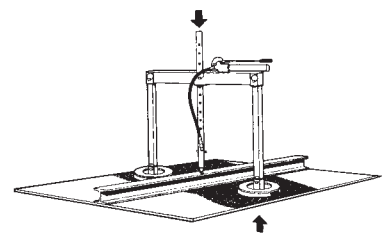
MULTI-AXIS CLAMP



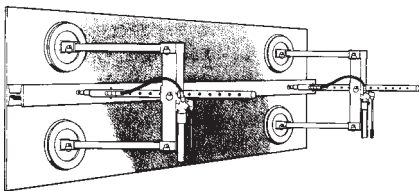
CORNER ANGLE BRACE CLAMP



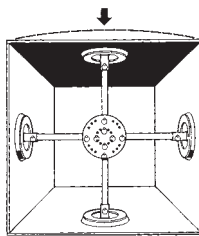
SURFACE WELDING STIFFENER



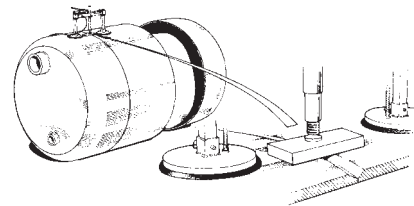
ELIMINATING THE GAP



VERTICAL CLAMPING OF BEAM



SPECIAL FIXTURE CLAMP



ALIGNING CURVED SURFACES



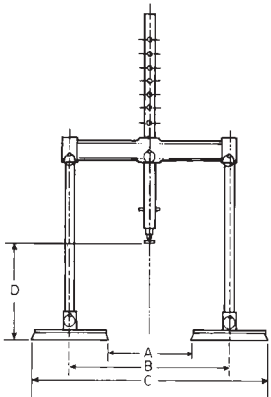
The Lightweights...

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!

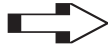
NOTE: UNICLAMPS™ ARE NOT DESIGNED FOR LIFTING PURPOSES.



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.

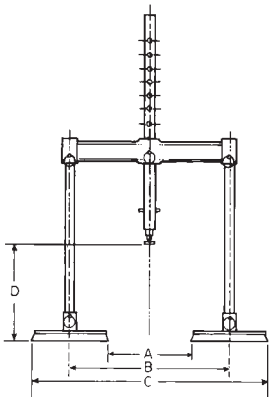
The clamp models are utilized extensively in aircraft, ship building, bridge construction, tank manufacturing and the steel fabrication industry. They excel whenever larger assemblies need to be drawn into alignment or held in position for a welding process.



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™!

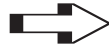
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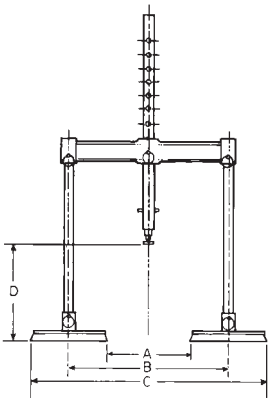
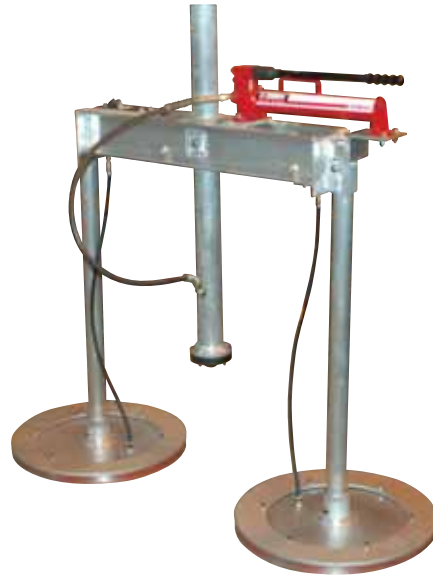
The Heavyweights...

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.



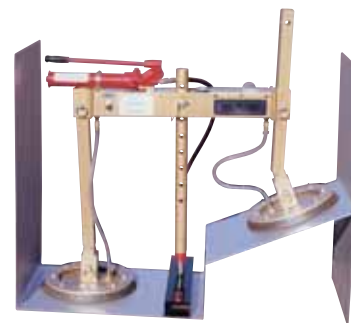
UNICLAMPS™ are well suited for curved or uneven surfaces.



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™*