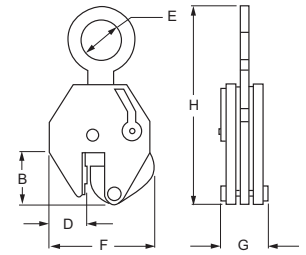


Lifting Clamps from All American

Plates can be gripped horizontally, lifted and transported in a vertical position and returned to its horizontal position easily and safely. The Vertical Lifting Clamp is equipped with a cam action locking mechanism to avoid disengagement during operation.

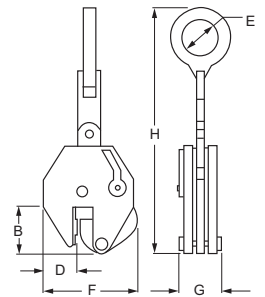
Note: To be used with hardness up to 37HRC



VERTICAL LIFTING CLAMPS								
P/N	DIMENSIONS							
	Capacity lbs / kg	Opening in / mm	B in / mm	D in / mm	E in / mm	F in / mm	G in / mm	H in / mm
480-00	1654 / 750	0-51 / 0-13	1.77 / 45	1.38 / 35	1.18 / 30	3.94 / 100	1.97 / 50	8.07 / 205
480-02	3307 / 1500	0-87 / 0-22	3.15 / 80	2.36 / 60	2.56 / 65	6.89 / 175	3.15 / 80	13.19 / 335
480-04	6614 / 3000	0-1.18 / 0-30	3.35 / 85	2.76 / 70	2.76 / 70	9.06 / 230	4.53 / 115	16.93 / 430

This clamp is similar to the Vertical Lifting Clamps except for the addition of an additional link that enables the clamps to lift at a wider angle and from any position.

Note: To be used with hardness up to 37HRC

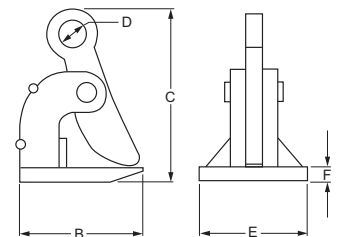


VERTICAL AND HORIZONTAL LIFTING CLAMPS								
P/N	DIMENSIONS							
	Capacity lbs / kg	Opening in / mm	B in / mm	D in / mm	E in / mm	F in / mm	G in / mm	H in / mm
480-10	1654 / 750	0-51 / 0-13	1.77 / 45	1.38 / 35	1.18 / 30	3.94 / 100	1.97 / 50	10.43 / 265
480-12	3307 / 1500	0-87 / 0-22	3.15 / 80	2.36 / 60	2.56 / 65	6.89 / 175	3.15 / 80	17.91 / 455
480-14	6614 / 3000	0-1.18 / 0-30	3.35 / 85	2.76 / 70	2.76 / 70	9.06 / 230	4.53 / 115	23.82 / 605

Single plates can be gripped horizontally and easily and safely lifted and transported.

Important: Please remember that the maximum lifting capacity of the clamps is related to the chain angle of the load when using a double leg chain sling.

Note: To be used with hardness up to 37HRC



Lifting capacity
@ 60°= 100% - @ 90°= 70% - @ 120°= 50%

HORIZONTAL LIFTING CLAMPS							
P/N	DIMENSIONS						
	Capacity lbs / kg	Opening in / mm	B in / mm	C in / mm	D in / mm	E in / mm	F in / mm
480-20	1102 / 500	0-2.36 / 0-60	7.09 / 180	8.86 / 225	1.18 / 30	6.30 / 160	.39 / 10
480-22	3307 / 1500	0-2.36 / 0-60	7.09 / 180	9.06 / 230	1.18 / 30	6.30 / 160	.59 / 15
480-24	6614 / 3000	0-2.36 / 0-60	7.09 / 180	9.25 / 235	1.18 / 30	6.30 / 160	.79 / 20

AVAILABILITY IS THE FIRST STEP IN GETTING THE JOB DONE

COMPANY PROFILE

All American has always maintained the largest Drill Bushing inventory in the country. We have worked hard to establish a tradition of quality and service which has kept us at the top of the business. With over 150,000 standard and special items in stock, we pride ourselves in being able to ship your orders the same day we receive them. With a storeroom of 40,000 sq. ft. and accurate computer tracking, you can be assured that your order will be in stock and ready to ship. Drop shipment orders are accepted. Our facility of over 85,000 sq. ft. houses machining, heat treating, honing and grinding departments which contribute to being in control of processes from start to finish for standard as well as for special size, specification and per print orders.

Choice of Materials:

Carbon Steels: C1144, 1018, 1020, 12L14, etc.

Alloy Steels: 4140, 4130, 4340, 52100, 8620, etc.

Stainless Steels: 300-Series, 400-Series, 17-4PH, etc.

Tool Steels: A-Series, D-Series, L-Series, H-Series, M-Series, O-Series and S-Series, etc.

Bronze and Brass: SAE-841, Bearing Bronze, Brass, Oilite, etc.

Machining Capabilities:

Bar stock from $\varnothing 1/8"$ to $\varnothing 4"$ on barfeed CNC and automatic multispindle screw machines. Larger diameters in chucking operations. Machining tolerances are $\pm .002$ to $\pm .0005$ depending on material and machining techniques or machining methods.

Heat Treat Capabilities:

Hardening, Tempering, Annealing, Normalizing, Stress Relieving, Case Hardening & Tempering Case Depths .001-.070, Induction Heating.

Surface Finishes Held:

Ground and honed surfaces: Up to 8 microfinish or better. Black Oxide finish, Zinc Plating, Passivating, etc.

Grinding tolerances as close as: $\pm .0001$.

Small holes can be handled as small as $\varnothing .013$ to a depth of 25 to 30 times the diameter.

Call your All American distributor today and your order will be on its way.

Heat Treating:

Endothermic Generators
Induction Heating
Tempering and Batch Heat Treating Furnaces
Hot Water Washers
Media Blasting Units

Automatic Screw Machines:

Acme
Davenport
Brown & Sharpe

CNC Lathes:

Amera Seiki
Galaxy
Haas
Miyano
Mori Seiki
OmniTurn

Automatic Stations for:

Gun Drilling
Reaming
Ballizing
Stamping

Deburring:

Tumbling And Vibration Units

Wire EDM Machine

Milling Machines:

Haas Milling Machine
Programmable Automatic Knee Mills
Horizontal Milling Machine
Oil Grooving Machines

Honing Machines:

Automatic and Manual

Grinding Machines:

I.D., O.D. & Surface Grinders

Inspection Equipment:

Sunnen, Pratt & Whitney,
Helios Super Micrometers,
Optical Comparators,
RAM Optical Measuring Machine



AUTHORIZED DISTRIBUTOR:

ALL AMERICAN PRODUCTS GROUP

1135 Aviation Place

San Fernando, CA. 91340-1360

(818) 361-0059 • (800) 423-2431

(818) 898-2236 FAX

Warehouses: San Fernando, CA • Houston, TX • Atlanta, GA

www.allamericanproducts.com

E-mail: sales@allamericanproducts.com