BRAUER®

CLAMPING PRODUCTS

BRAUER CLAMPS USA
www.brauerclampsusa.com

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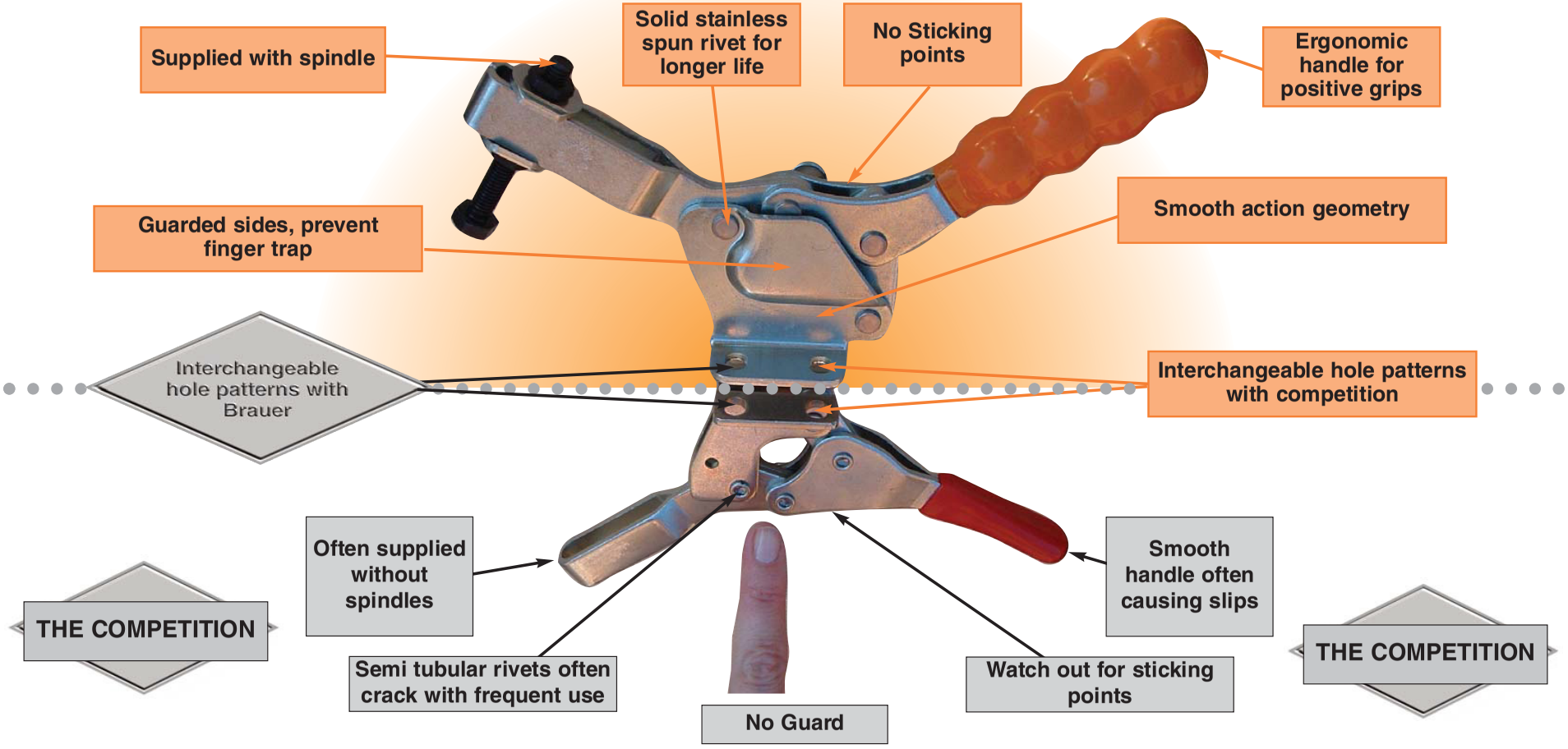

"EXAMPLE" CROSS OVER CHART	
BRAUER	COMPETITION
H150/2B	217U
H250/2B	227U
H75/2B	213U
V250/2B	207U
V150/2B	202U

Interchangeable hole patterns with all major makes of clamps, on both horizontal and vertical ranges.

Full Excel Cross-over chart available from
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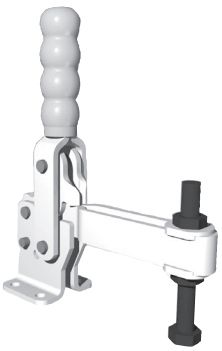
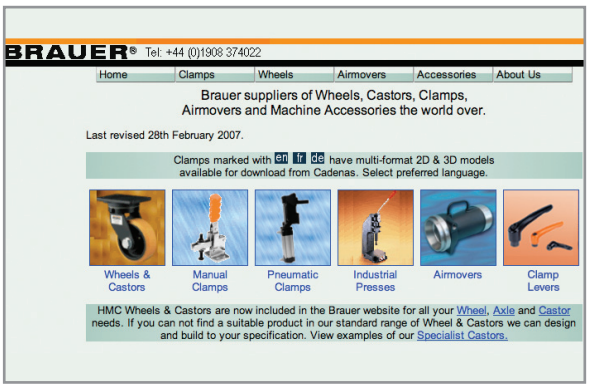
CAD FORMATS FOR BRAUER CLAMPS

The Brauer range of clamping products are available for design engineers in a number of CAD formats direct from: www.brauerclampsusa.com.



3D:

- **AutoCad (dwg)**
- **ACIS (.sat)**
- **Iges**
- **Catia v4**
- **Catia v5**
- **MDT (dwg)**
- **STEP**
- **PARACAD**
- **Unigraphics**
- **& in many more packages**



Web Home Page

SPECIAL OR CUSTOM MADE PRODUCTS

If none of the standard products shown in this catalogue meets your needs, our engineers are available to modify a standard clamp or to work with you in developing a design to suit your need.

COMMITTED TO: • QUALITY • INNOVATION • SERVICE

BRAUER CLAMPING PRODUCTS ARE MANUFACTURED IN MILTON KEYNES, ENGLAND

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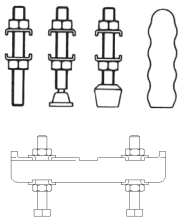

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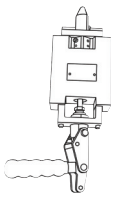

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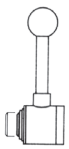

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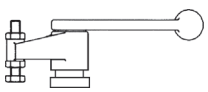

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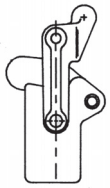

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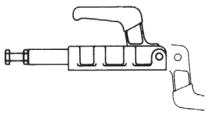

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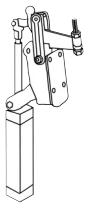

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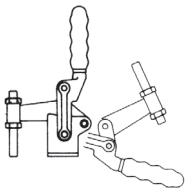

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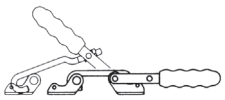

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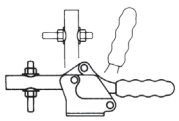

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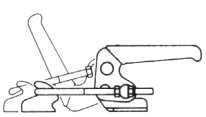

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SS = Stainless steel version

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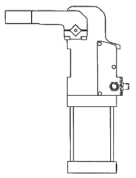

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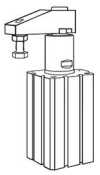

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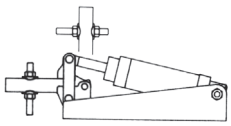

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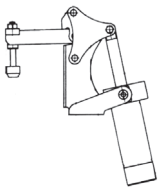

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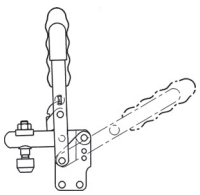

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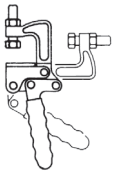

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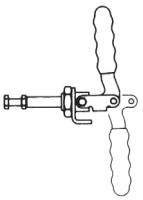

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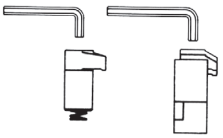

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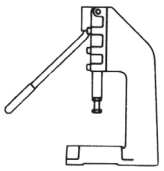

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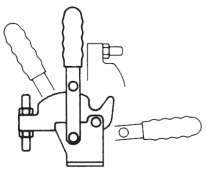

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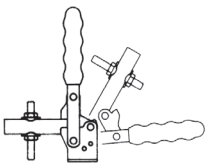

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SS = Stainless steel version

INTRODUCTION

Since 1926, Brauer has been providing industry with the finest quality products, expert technical support, on time deliveries and unparalleled customer service. Our brands are now recognized world-wide as products of the **highest quality**, and the breadth of our product portfolio provides our customers with tooling solutions for a wide variety of problems.

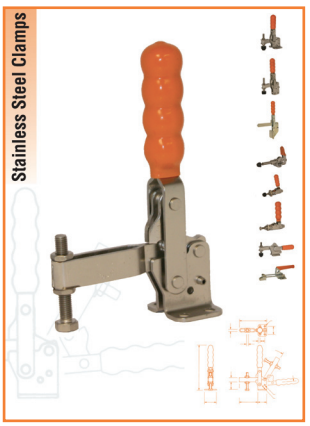
Brauer continues to be committed to bringing new innovative tooling products to the market place. This new clamping products catalog updates our long standing, and successful range of clamping products which have led the market for over 50 years.

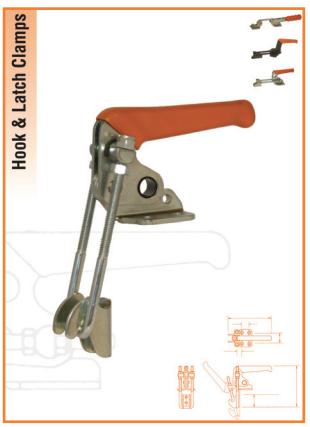
Our team of highly talented engineers is backed by the latest computer aided design facilities including three dimensional feature based parametric solid modelling.

At Brauer, we continue to be motivated by working with our customers in providing innovative solutions for their particular tooling requirements.

To view the complete tooling portfolio manufactured by Brauer, please consult our web site at *www.brauerclampsusa.com* or *www.brauer.co.uk.*

If, after considering our standard range of products, you are unable to find a solution, then please consult our sales team who will be pleased to progress the design and manufacture of a **custom** designed item to meet your particular needs.





TECHNICAL INFORMATION

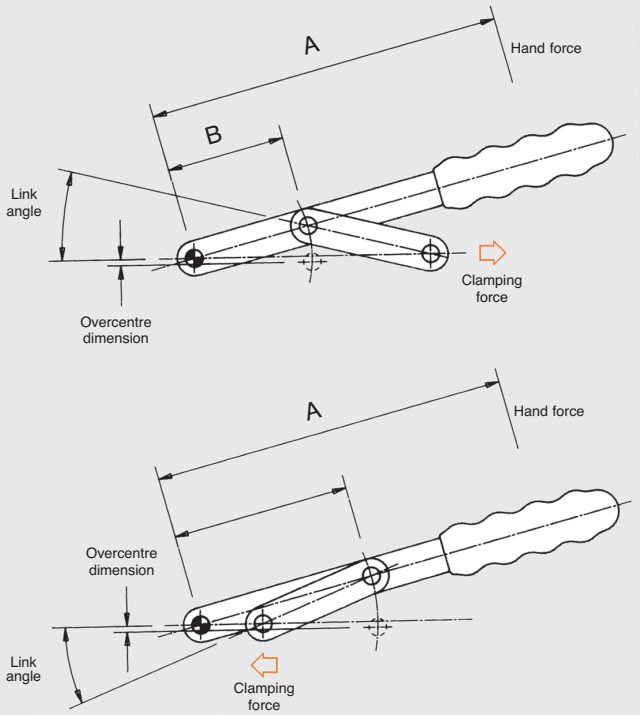
The toggle mechanism in a clamp has three functions:

1. to multiply a hand force at the handle into a high clamping force to hold work.
2. to create an over-centre lock to prevent the clamp from opening and releasing the work until opened by the operator.
3. to rapidly open and close the clamp giving a wide clearance in which to load and unload the workpiece.

The multiplication of input (hand) force to output (clamping) force is created firstly by the leverage of handle length (A) to link length (B), and secondly by the three pivots of the toggle being pushed into alignment.

For example, a clamp with a handle to link leverage of 3 can multiply its hand force to clamping force as follows:

link angle	toggle multiplier	handle leverage multiplier	overall force multiplier
2.0˚	14	3	42
1.0˚	28	3	84
0.5˚	57	3	171
0.25˚	114	3	342
0.12˚	342	3	1026
0.0˚	infinity - limited by the elasticity of the clamp		



The model numbering system describes the clamp type and strength as shown in the example below:

V 350 / 2 B

CLAMP SERIES	V = vertical H = horizontal P = straight line (push-pull) action
HOLDING FORCE	(for ibs x 2.2)
BASE TYPE	/1 = straight /2 = flanged /3 = front mounting
ARM TYPE	A = straight B = adjustable spindle position C = fixed spindle position

Note: an 'X' within the model number denotes a pneumatic clamp

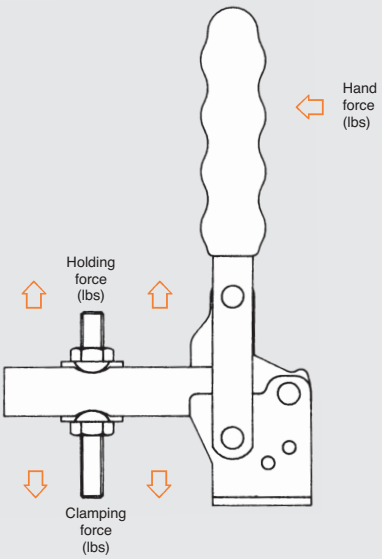
Clamping Force — is that which will result from the quoted Hand Force. Clamps with a fixed clamping position have a single Clamping Force quoted. Those where the threaded spindle may be positioned at any point along an arm (arm type B) and those with solid arms to be cut and welded as required (arm type A) have clamping forces quoted at the inner and outer ends of the arm.

Holding Force — is that which the clamp can withstand after being closed without damage to the clamp and without the toggle unlocking due to distortion of the clamp.

The overcentre dimension is carefully chosen in relation to the elasticity of the clamp to maximise clamping force while ensuring that the clamp locks closed even under vibration or intermittent loading.

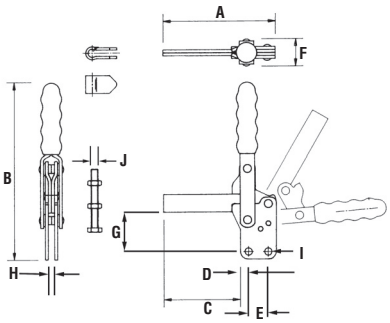
Hand Force — has been chosen as being that which might be applied in frequent operation.

Forces are given in lbs.



BRAUER®

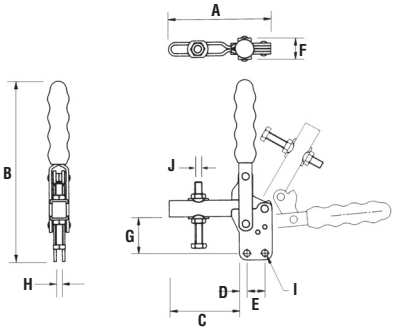
Vertical Clamps — Straight Base, Solid Arm Type



- Axles are solid stainless steel and run in precision bushes
- Precision geometry for smooth action
- Complete with cushioned PVC handle grip
- Extendible base to guide the clamping arm
- Removable stop pin which allows clamp arm to open to greater clearance angles
- Zinc-plated and passivated steel protection
- 2 position adjustable arm opening
- Spindle retainer supplied loose for welding in the desired position
- See “Accessories” for other items

	Dimensions (in.)										Holding	
Model #	A	B	C	D	E	F	G	H	ØI	J	Force	Weight
V250/1A	4 13/16	7 15/32	3 1/32	5/16	1 3/8	7/8	1 17/32	1/4	9/32	M8x60	551lbs	10oz
V250/1AL	5 15/64	7 15/32	3 1/32	5/16	1 3/8	7/8	1 17/32	1/4	9/32	M8x60	551lbs	10.2oz
V300/1A	5 5/8	7 15/16	3 29/32	1 1/32	1 11/16	31/32	1 5/8	1/4	5/16	M8x60	660lbs	1lb 1oz
V350/1A	5 7/8	9 7/16	3 55/64	1 1/32	1 1/4	1 3/16	2 1/32	5/16	21/64	M10x60	772lbs	1lb 9oz
V450/1A	7 5/32	9 21/32	5	3/8	9/16	1 7/16	2 5/16	25/64	11/32	M12x100	992lbs	2lb 9oz
V550/1A	9 1/4	13 7/8	6 17/64	1/2	2	1 1/2	4 5/32	25/64	31/64	M16x150	1212lbs	4lb 10oz

Vertical Clamps — Straight Base, Adjustable Arm Type

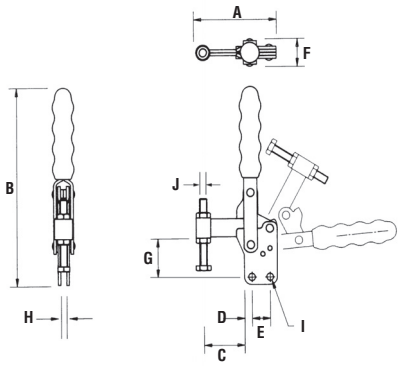


- Axles are solid stainless steel and run in precision bushes
- Precision geometry for smooth action
- Complete with cushioned PVC handle grip
- Extendible base to guide the clamping arm
- Removable stop pin which allows clamp arm to open to greater clearance angles
- Zinc-plated and passivated steel protection
- 2 position adjustable arm opening
- See “Accessories” for other items

	Dimensions (in.)										Holding	
Model #	A	B	C	D	E	F	G	H	ØI	J	Force	Weight
V75/1B	2 1/4	4 3/16	1 7/32	13/64	5/8	43/64	7/8	5/32	11/64	M5	165lbs	1.3oz
V100/1B	2 9/16	4 3/8	1 1/2	1/4	9/16-5/8	1 1/16	1 1/16	3/16	3/16	M5	220lbs	2.6oz
V150/1B	2 3/4	5 5/16	1 11/16	9/32	1/2	15/16	1 3/32	1/4	13/64	M6	330lbs	4oz
V150/1BSS	2 3/4	5 5/16	1 11/16	9/32	1/2	15/16	1 3/32	1/4	13/64	M6	330lbs	4oz
V150/1BL	3 11/32	5 5/16	1 11/16	9/32	1/2	15/16	1 3/32	1/4	13/64	M6	330lbs	4.3oz
V200/1B	3 1/16	5 7/8	1 23/32	5/16	1/2-3/4	53/64	1 15/32	1/4	7/32	M6x50	441lbs	5.3oz
V250/1B	4 5/16	7 1/2	2 15/16	5/16	3/4	29/32	1 17/32	1/4	9/32	M8x60	551lbs	10oz
V250/1BSS	4 5/16	7 1/2	2 15/16	5/16	3/4	29/32	1 17/32	1/4	9/32	M8x60	551lbs	10oz
V300/1B	5 5/16	8	3 3/8	23/64	63/64	63/64	1 21/32	1/4	5/16	M8x60	660lbs	1lb 1oz
V350/1B	5 3/4	9 1/16	3 3/4	11/32	1 1/4	1 3/16	2 1/8	5/16	21/64	M10x80	772lbs	1lb 9oz
V450/1B	6 7/8	9 11/16	4 13/16	13/32	1 1/4	1 15/32	2 5/16	25/64	11/32	M12x100	992lbs	3lbs
V550/1B	9 1/4	13 19/32	6 1/4	1/2	2	1 1/2	4 5/32	25/64	31/64	M16x150	1212lbs	5lb 4oz

SS = stainless steel version

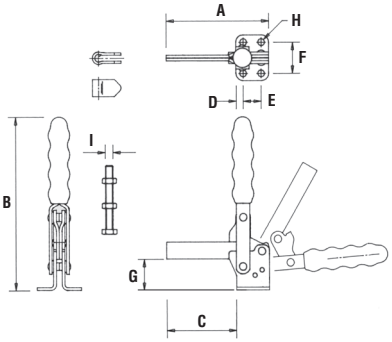
Vertical Clamps — Straight Base, Fixed Spindle Position



- Axles are solid stainless steel and run in precision bushes
- Precision geometry for smooth action
- Complete with cushioned PVC handle grip
- Extendible base to guide the clamping arm
- Removable stop pin which allows clamp arm to open to greater clearance angles
- Zinc-plated and passivated steel protection
- 2 position adjustable arm opening
- See “Accessories” for other items

	Dimensions (in.)										Holding	
Model #	A	B	C	D	E	F	G	H	ØI	J	Force	Weight
V100/1C	2 9/16	4 13/32	1 17/64	15/64	9/16-5/8	1 1/16	1 1/16	13/64	3/16	M5	220lbs	2.6oz
V150/1C	2 3/8	5 5/16	1 1/32	9/32	1/2	15/16	1 3/32	1/4	13/64	M6	330lbs	4oz
V200/1C	3 1/32	5 7/8	xx	5/16	1/2-3/4	53/64	1 15/32	1/4	7/32	M6x50	441lbs	5.3oz
V250/1C	3 7/16	7 15/32	1 25/32	5/16	3/4	29/32	1 15/32	1/4	9/32	Mx60	551lbs	10oz
V300/1C	4 1/2	8	2 9/16	23/64	63/64	63/64	1 17/32	1/4	8/16	M8x60	660lbs	1lb 1oz
V350/1C	4 7/8	9 7/16	2 9/16	11/32	1 1/4	1 3/16	2 1/16	5/16	21/64	M10x80	772lbs	1lb 8oz
V450/1C	5 13/32	9 11/16	2 29/32	13/32	1 1/4	1 15/32	2 1/4	25/64	11/32	M12x100	992lbs	2lb 10oz
V550/1C	7 23/32	13 19/32	4 1/4	1/2	2	1 1/2	3 15/16	25/64	31/64	M16x150	1212lbs	5lb 1oz

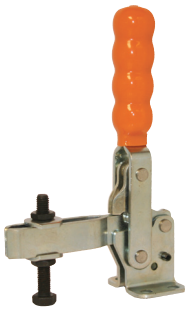
Vertical Clamps — Flanged Base, Solid Arm Type

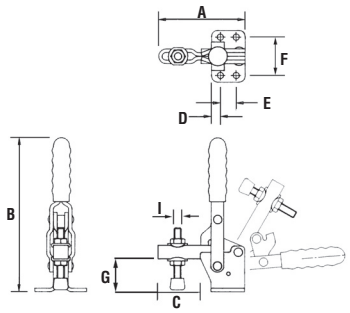


- Axles are solid stainless steel and run in precision bushes
- Precision geometry for smooth action
- Complete with cushioned PVC handle grip
- Extendible base to guide the clamping arm
- Removable stop pin which allows clamp arm to open to greater clearance angles
- Zinc-plated and passivated steel protection
- Spindle retainer supplied loose for welding in the desired position
- Front mounting bracket available see “Accessories”
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	G	ØH	I	Holding Force	Weight
V250/2A	4 3/4	6 7/8	3 1/32	5/16	3/4	1 1/4	1 1/4	9/32	M8x60	551lbs	10oz
V250/2AL	4 25/32	6 7/8	3 3/16	5/16	3/4	1 1/4	1 1/4	9/32	M8x60	551lbs	10.2oz
V300/2A	5 5/8	7 5/16	3 15/16	11/32	7/8	1 11/32	1 11/32	5/16	M8x60	661lbs	1lb 1oz
V350/2A	5 7/8	9 1/16	3 27/32	11/32	1 1/4	1 25/32	1 11/16	21/64	M10x80	772lbs	1lb 9oz
V450/2A	7 1/16	9	5	25/64	1 1/4	1 25/32	2	11/32	M12x100	992lbs	2lb 9oz
V550/2A	9 9/32	12 9/32	5 1/4	1/2	2 1/4	2 3/4	3 3/32	31/64	M16x150	1212lbs	4lb 10oz

Vertical Clamps — Flanged Base, Adjustable Arm Type



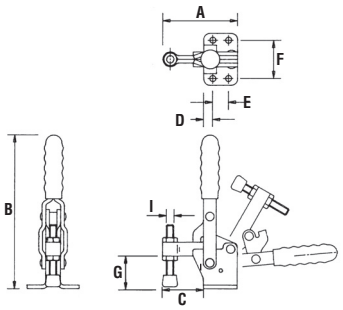


- Axles are solid stainless steel and run in precision bushes
- Precision geometry for smooth action
- Complete with cushioned PVC handle grip
- Extendible base to guide the clamping arm
- Removable stop pin which allows clamp arm to open to greater clearance angles
- Zinc-plated and passivated steel protection
- Some models also available in Stainless Steel
- Front mounting bracket available see “Accessories”
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	G	ØH	I	Holding Force	Weight
V75/2B	2 1/4	3 1/8	1 1/32	13/64	5/8	15/16	5/8	11/64	M5	165lbs	1.3oz
V75/2BSS	2 1/4	3 1/8	1 1/32	13/64	5/8	15/16	5/8	11/64	M5	165lbs	1.3oz
V100/2B	2 5/8	4 1/16	1 1/32	15/64	9/16-5/8	1 1/16-1 5/16	7/8	3/16	M5	220lbs	2.6o
V150/2B	2 3/4	4 1/8	1 1/32	9/32	1/2	1 1/16	2 9/32	13/64	M6	330lbs	4oz
V150/2BSS	2 3/4	4 1/8	1 1/16	9/32	1/2	1 1/16	2 9/32	13/64	M6	330lbs	4oz
V150/2BL	3 11/32	4 1/8	1 13/16	9/32	1/2	1 1/16	2 9/32	13/64	M6	330lbs	4.3oz
V200/2B	3 1/16	5 5/16	1 11/16	5/16	1/2-3/4	63/64-1 1/16	1 5/32	7/32	M6x50	441lbs	5.3oz
V250/2B	4 1/4	6 7/8	2 15/16	5/16	3/4	1 1/4	1 1/4	9/32	M8x60	551lbs	10oz
V250/2BSS	4 1/4	6 7/8	2 15/16	5/16	3/4	1 1/4	1 1/4	9/32	M8x60	551lbs	10oz
V300/2B	5 5/8	7 5/16	4	23/64	3/4-63/64	1 23/64	1 11/32	5/16	M8x60	661lbs	1lb 1oz
V350/2B	5 3/4	8 5/8	3 3/4	11/32	1 1/4	1 25/32	1 11/16	21/64	M10x80	772lbs	1lb 9oz
V450/2B	7	9	4 51/64	25/64	1 1/4	1 25/32	2	11/32	M12x100	992lbs	2lb 9oz
V550/2B	9 3/32	12 1/4	6 1/16	1/2	2	2 3/4	3 3/32	31/64	M16x150	1212lbs	5lb 4oz

SS = stainless steel version

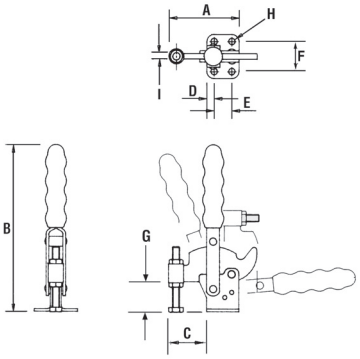
Vertical Clamps — Flanged Base, Fixed Spindle Position



- Axles are solid stainless steel and run in precision bushes
- Precision geometry for smooth action
- Complete with cushioned PVC handle grip
- Extendible base to guide the clamping arm
- Removable stop pin which allows clamp arm to open to greater clearance angles
- Zinc-plated and passivated steel protection
- Front mounting bracket available see “Accessories”
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	G	H	I	Holding Force	Weight
V100/2C	2 5/16	4 1/16	1 17/64	15/64	9/16-5/8	1 1/16-1 5/16	7/8	3/16	M5	220lbs	2.6oz
V150/2C	2 23/64	4 1/8	1 1/32	9/32	1/2	1 1/16	2 9/32	13/64	M6	330lbs	4oz
V200/2C	3 1/32	5 5/16	1 3/8	5/16	1/2-3/4	63/64-1 1/16	1 5/32	7/32	M6x50	441lbs	5.3oz
V250/2C	3 15/32	6 7/8	2 3/32	5/16	3/4	1 1/4	1 1/4	9/32	M8x60	551lbs	10oz
V300/2C	4 1/2	7 5/16	2 9/16	23/64	3/4-63/64	1 23/64	1 1/4	5/16	M8x60	661lbs	1lb 1oz
V350/2C	4 7/8	8 1/32	2 9/16	7/8	1 1/4	1 25/32	1 5/8	21/64	M10x80	772lbs	1lb 8oz
V450/2C	5 13/32	8 31/32	2 29/32	13/32	1 1/4	1 25/32	1 5/16	11/32	M12x100	992lbs	2lb 10oz
V550/2C	7 3/4	12 9/32	4 1/4	1/2	2	2 3/4	3 3/32	31/64	M16x150	1212lbs	5lb 1oz

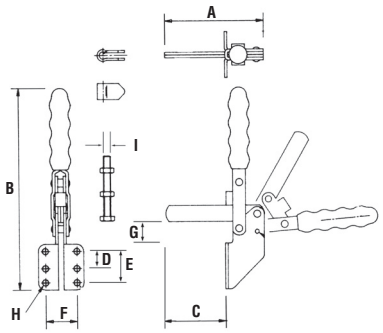
Cam Clamps — Vertical Standard Design



- Clamping force generated by the action of a roller on a cam
- Ideal for clamping components of different thicknesses without readjustment of the clamping spindle
- Complete with cushioned PVC handle grip
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	G	ØH	I	Holding Force	Weight
CV75	2 3/64	3 1/4	7/8	3/16	5/8	15/16	5/8	5/32	M5x35	165lbs	1.3oz
CV250	2 7/8	6 7/8	1 1/4	5/16	3/4	1 1/4	1 3/16	9/32	M8x60	550lbs	9oz
CV350	4 5/16	8 5/8	2 3/8	11/32	1 1/4	1 3/4	1 21/32	21/64	M10x80	770lbs	1lb 6oz

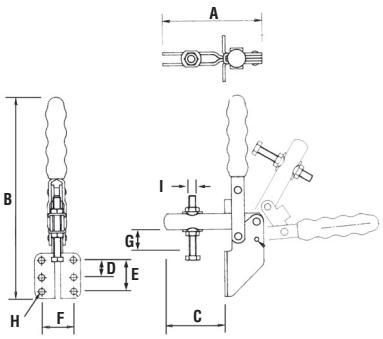
Vertical Clamps — Front mounted, Solid Arm



- Axles are solid stainless steel and run in precision bushes
- Precision geometry for smooth action
- Complete with cushioned PVC handle grip
- Extendible base to guide the clamping arm
- Removable stop pin which allows clamp arm to open to greater clearance angles
- Zinc-plated and passivated steel
- Unique one piece front mounting configuration
- Stainless steel solid axle pins
- Spindle and retainer supplied loose for welding in the desired position
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	G	ØH	I	Holding Force	Weight
V300/3A	5 5/8	9 1/4	3 21/32	3/4	1 3/8	1 3/8	1 7/32	17/64	M8x60	661lbs	13oz

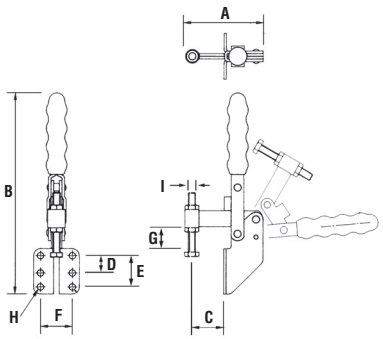
Vertical Clamps — Front mounted, Adjustable Arm



- Axles are solid stainless steel and run in precision bushes
- Precision geometry for smooth action
- Complete with cushioned PVC handle grip
- Extendible base to guide the clamping arm
- Removable stop pin which allows clamp arm to open to greater clearance angles
- Zinc-plated and passivated steel
- Unique one piece front mounting configuration
- Stainless steel solid axle pins
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	G	ØH	I	Holding Force	Weight
V100/3B	2 5/8	4 13/16	XX	9/32	9/16	1 3/32	19/32	3/16	M5	220lbs	2.9oz
V200/3B	3 1/8	6 11/16	1 5/32	5/16	1 1/32	1 1/32	2 17/32	7/32	M6x50	441lbs	6.6oz
V300/3B	5 5/8	9 1/4	3 21/32	3/4	1 3/8	1 3/8	1 7/32	17/64	M6x60	661lbs	13oz

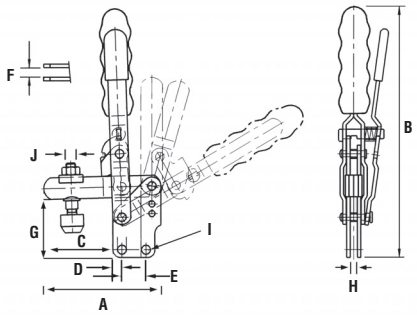
Vertical Clamps — Front mounted, Fixed Spindle Position



- Axles are solid stainless steel and run in precision bushes
- Precision geometry for smooth action
- Complete with cushioned PVC handle grip
- Extendible base to guide the clamping arm
- Removable stop pin which allows clamp arm to open to greater clearance angles
- Zinc-plated and passivated steel
- Unique one piece front mounting configuration
- Stainless steel solid axle pins
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	G	ØH	I	Holding Force	Weight
V100/3C	2 9/16	4 13/16	31/32	11/16	9/16	1 3/32	19/32	3/16	M5	220lbs	2.9oz
V200/3C	3 1/32	6 11/16	1 1/16	5/16	1 1/32	1 21/32	1 5/32	7/32	M6x50	441lbs	6.6oz
V300/3C	4 1/2	9 1/4	2 3/32	3/4	1 3/8	1 3/8	1 3/16	17/64	M8x60	661lbs	13oz

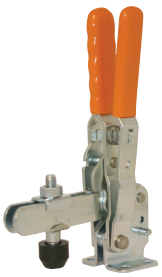
Vertical Positive Locking Clamps — Straight Base, Adjustable Spindle Type

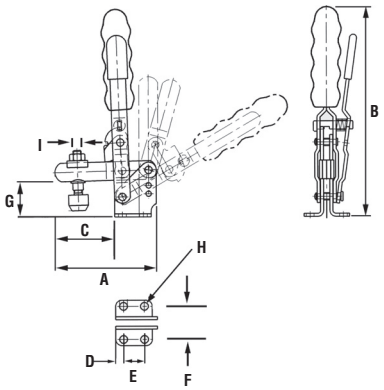


- For use in turnover work holding fixtures
- Complete with cushioned PVC handle grip
- Zinc-plated and passivated steel-plating protection
- Stainless steel solid axles
- Positive mechanical bar lock
- See “Accessories” for other items

	Dimensions (in.)										Holding	
Model #	A	B	C	D	E	F	G	H	ØI	J	Force	Weight
V250/1BLC	5½	8 21/32	2¼	9/32	5/8	5/16	1⅞	7/32	19/64	8mm	550lbs	1.04lbs
V350/1BLC	5½	9 21/32	3 13/32	½	27/32	⅜	2 17/32	5/16	19/32	10mm	770lbs	1.52lbs

Vertical Positive Locking Clamps — Flanged Base, Adjustable Spindle Type

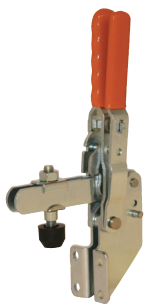


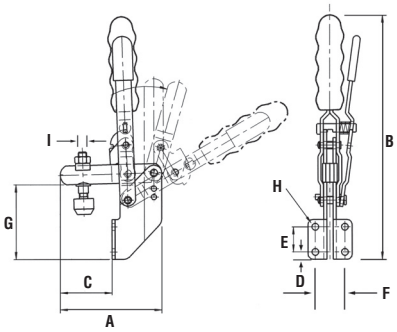


- For use in turnover work holding fixtures
- Complete with cushioned PVC handle grip
- All models have closed ends for rigidity
- Zinc-plated and passivated steel-plating protection
- Stainless steel solid axles
- Positive mechanical bar lock
- Front mounting bracket available see “Accessories”
- See “Accessories” for other items

	Dimensions (in.)									Holding	
Model #	A	B	C	D	E	F	G	ØH	I	Force	Weight
V250/2BLC	3 27/32	8 3/32	2 17/32	9/32	25/32	1¼	1 5/16	19/64	8mm	550lbs	1.04lbs
V350/2BLC	5 17/32	9 1/32	3 29/32	½	1¼	1 49/64	1⅜	21/64	10mm	770lbs	1.76lbs

Vertical Positive Locking Clamps — Front mounted, Adjustable Spindle Type

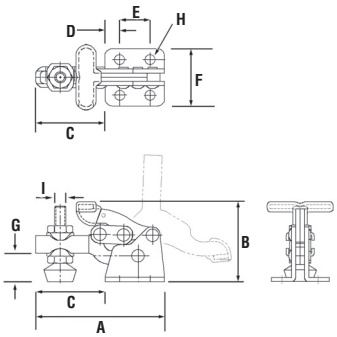




- For use in turnover work holding fixtures
- Complete with cushioned PVC handle grip
- All models have closed ends for rigidity
- Zinc-plated and passivated steel-plating protection
- Stainless steel solid axles
- Positive mechanical bar lock
- See “Accessories” for other items

	Dimensions (in.)									Holding	
Model #	A	B	C	D	E	F	G	ØH	I	Force	Weight
V250/3BLC	3 27/32	9½	1 15/16	1/32	15/16	1 7/64	2 25/32	¼	8mm	550lbs	1.18lbs

Mini Vertical Clamps — Flanged Base, Adjustable Arm

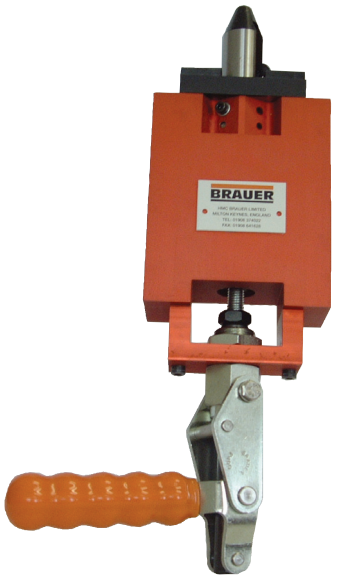


- Used where height restrictions prevent use of a vertical clamp
- Complete with cushioned PVC handle grip
- All models have closed ends for rigidity
- Zinc-plated and passivated steel-plating protection
- Stainless steel solid axles
- Positive mechanical bar lock
- See “Accessories” for other items

	Dimensions (in.)									Holding	
Model #	A	B	C	D	E	F	G	ØH	I	Force	Weight
V70/2BT	2 3/16	1⅜	1½	7/32	17/32	1	½	11/64	10-32	150lbs	4oz
V70/2BTSS	2 3/16	1 13/32	1½	7/32	17/32	1	½	11/64	10-32	150lbs	4oz

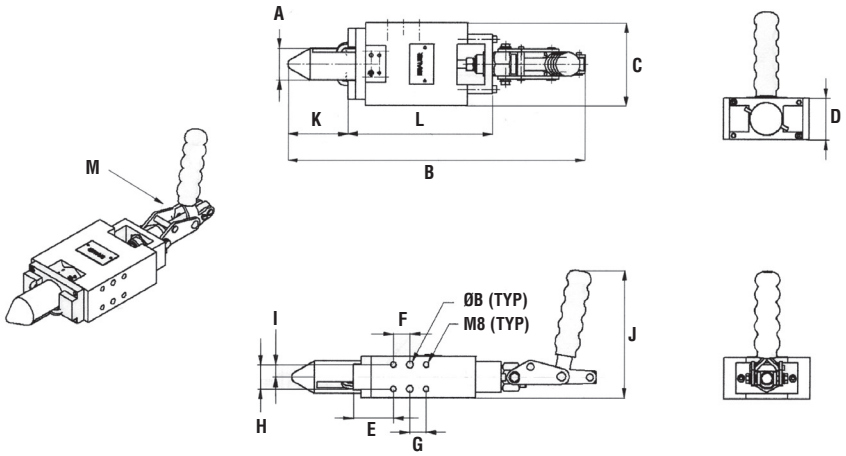
SS = stainless steel version

Pin Location Clamps

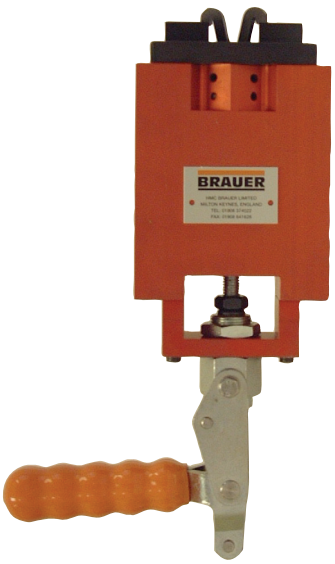


● Metric dimensions shown for global specification.

Model #	Dimensions (mm)												
	A	B	C	D	E	F	G	H	I	J	K	L	M
PC25.0	25	347	105	51	49	20	20	30	15	157	51	181	P400
PC35.0	35	370	105	51	49	20	20	30	15	157	74	181	P400
PC40.0	40	371	105	51	49	20	20	30	15	157	74	181	P400

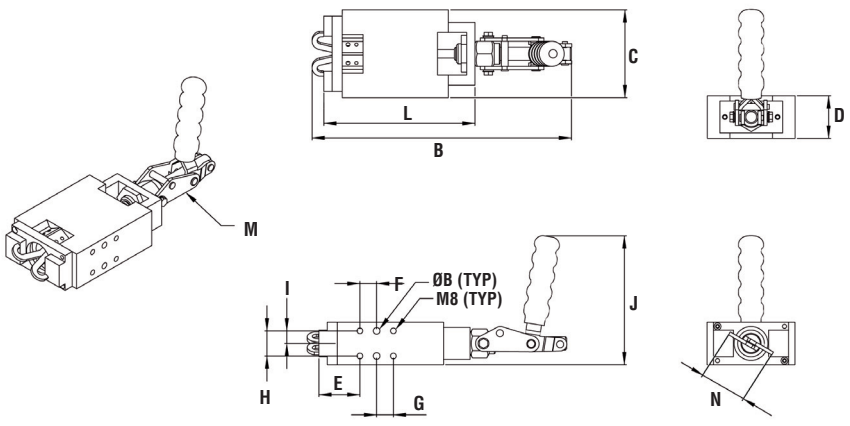


Body Location Clamps

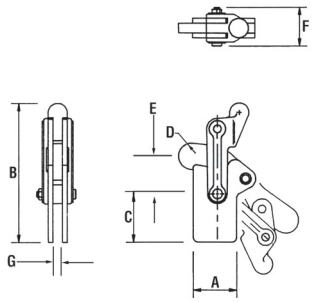


● Metric dimensions shown for global specification.

Model #	Dimensions (mm)											
	B	C	D	E	F	G	H	I	J	L	M	N
BC25.0	305	105	51	49	20	20	30	15	157	181	P400	37
BC40.0	310	105	51	49	20	20	30	15	157	181	P400	37



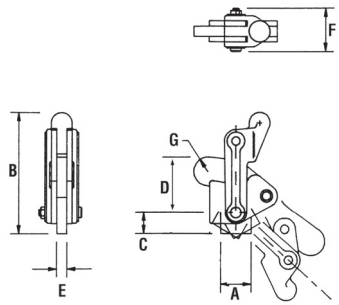
Heavy-Duty Vertical Clamp Mechanisms



- Mechanism to add customer's own handle, arm and base
- Adaptable, durable and weldable
- Able to withstand abuse in heavy-duty applications
- Fully bushed assembly
- Side plate mounting for drilling and bolting into position
- See "Accessories" for other items

Model #	Dimensions (in.) A	B	C	D	E	F	G	Holding Force	Weight
VA300T	1 1/16	3 25/64	1 3/16	R 13/32	1 5/16	1	1/4	660lbs	6oz
VA700T	1 3/4	5 5/8	1 37/64	R 9/16	1 1/2	1 11/16	13/32	1543lbs	1lb 9oz
VA1200T	2	7	2 1/4	R 3/4	2 1/8	1 7/8	15/32	2646lbs	3lb 2oz
VA2400T	2 1/2	8 5/8	2 15/16	R 7/8	2 23/32	2 1/16	5/8	5291lbs	7lb 1oz

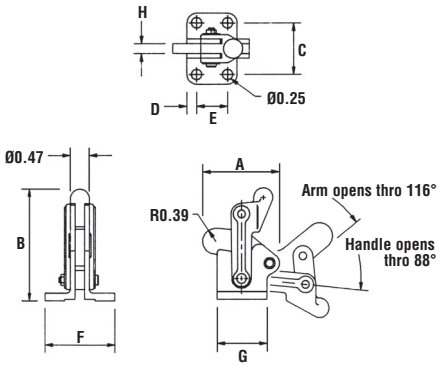
Heavy-Duty Clamp Mechanisms



- Mechanism to add customer's own handle, arm and base
- Adaptable, durable and weldable
- Able to withstand abuse in heavy-duty applications
- Fully bushed assembly
- Flanged base for screwing or welding into position
- Weldable base
- See "Accessories" for other items

Model #	Dimensions (in.) A	B	C	D	E	F	G	Holding Force	Weigh
VA300S	23/32	2 19/32	13/32	1 11/16	7/32	1	R 3/8	660lbs	6oz
VA700S	1 1/8	4 15/32	25/32	1 1/4	3/8	1 11/16	R 17/32	1543lbs	1lb 7oz
VA1200S	1 15/32	5 15/32	1 3/32	2 27/32	15/32	1 1/8	R 23/32	2646lbs	2lb 10oz
VA2400S	2 1/32	6 15/16	1 9/32	3 3/16	5/8	2 1/16	R 27/32	5291lbs	6lb 4oz

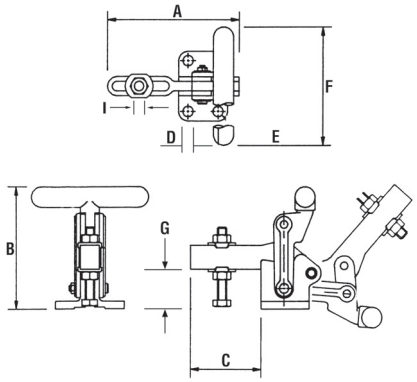
Heavy-Duty Clamp Mechanisms



- Mechanism to add customer's own handle, arm and base
- Adaptable, durable and weldable
- Able to withstand abuse in heavy-duty applications
- Fully bushed assembly
- Flanged base for screwing or welding into position
- Weldable base
- See "Accessories" for other items

Model #	Dimensions (in.) A	B	C	D	E	F	G	H	Holding Force	Weight
VA3002S	2.05	2.91	1.25	0.24	0.75	1.65	1.22	0.24	660lbs	6oz

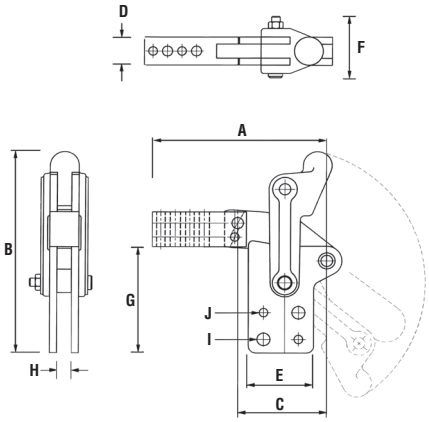
Heavy-Duty Vertical — Adjustable Spindle Position, Flange Base



- Able to withstand abuse in heavy-duty applications
- Adaptable, durable and weldable
- Fully bushed assembly
- See "Accessories" for other items

Model #	Dimensions (in.) A	B	C	D	E	F	G	I	Holding Force	Weight
VA300/2BT	3 5/16	3 1/32	1 49/64	15/64	3/4	1 1/4	31/32	M6x50	660lbs	9oz

Heavy-Duty Special Vertical — Attachable Precision Drilled Arm, Straight Base



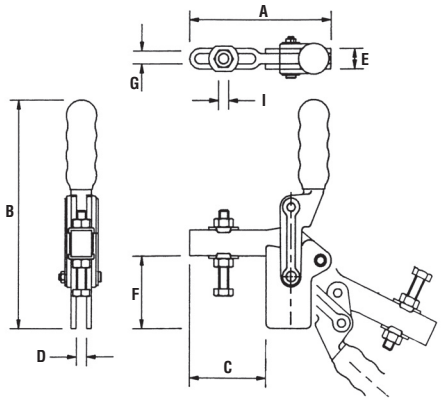
- Able to withstand abuse in heavy-duty applications
- Adaptable, durable and weldable
- Fully bushed assembly
- Side plate mounting for drilling and bolting into position
- See “Accessories” for other items
- Arm supplied separately (if required)

Model #	Dimensions (in.) A	B	C	D	E	F	G	ØH	I	J	Holding Force	Weight
VA700TD	4 25/32	5 5/8	2.50	25/32	1 3/4	1 1/16	3.0	25/64	5/16	23/64	1543lbs	2lbs 6oz
VA1200TD	6 9/64	7.0	3.0	1.0	2.0	1 1/8	4.0	15/32	25/64	15/64	2646lbs	4lbs 2oz

Arm Part No. (if required)

C7D (VA700TD)
C12D (VA1200TD)

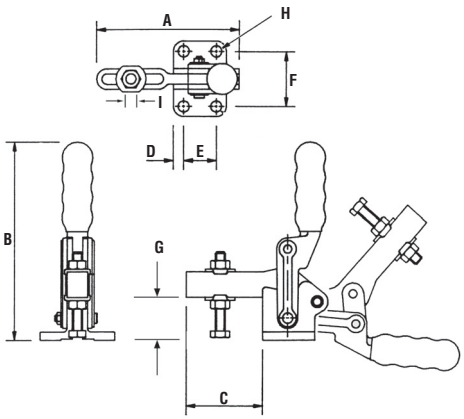
Heavy-Duty Vertical — Adjustable Spindle Position, Straight Base



- Able to withstand abuse in heavy-duty applications
- Adaptable, durable and weldable
- Fully bushed assembly
- Side plate mounting for drilling and bolting into position
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	G	I	Holding Force	Weight
VA300/1B	3 5/16	5 11/32	1 49/64	1/4	15/32	1 21/32	17/64	M6x50	660lbs	9oz

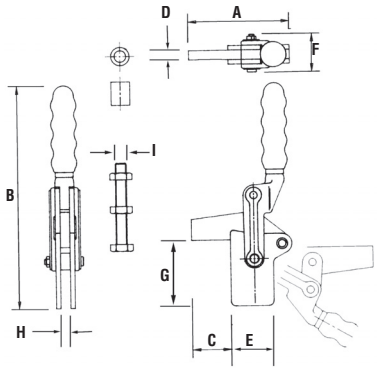
Heavy-Duty Vertical with Flange Base — Adjustable Spindle Position



- Able to withstand abuse in heavy-duty applications
- Adaptable, durable and weldable
- Fully bushed assembly
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	G	ØH	I	Holding Force	Weight
VA300/2B	3 5/16	4 11/16	1 49/64	15/64	3/4	1 17/64	31/32	17/64	M6x50	660lbs	9oz

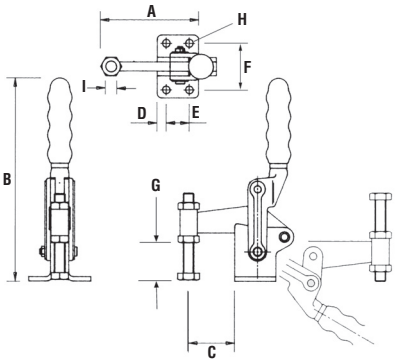
Heavy-Duty Vertical — Straight Arm for Welded Attachment, Straight Base



- Able to withstand abuse in heavy-duty applications
- Adaptable, durable and weldable
- Fully bushed assembly
- Side plate mounting for drilling and bolting into position
- Spindle retainer supplied loose for welding in the desired position
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	G	H	I	Holding Force	Weight
VA700/1A	4 3/32	9 1/4	1 37/64	13/32	1 25/32	1 11/16	2 3/4	13/32	M12x100	1543lbs	2lb 5oz
VA1200/1A	4 7/8	10 7/8	2	15/32	1 31/32	1 57/64	3 3/8	15/32	M12x100	2646lbs	4lb 0oz
VA2400/1A	6 3/8	12 1/2	2 3/8	5/8	5/8	2 7/16	4 1/8	5/8	M16x150	5286lbs	8lb 3oz

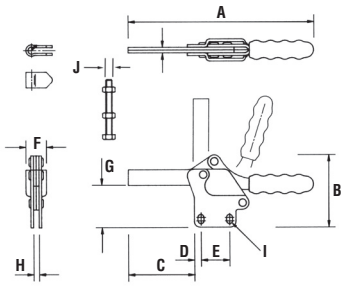
Heavy-Duty Vertical — Fixed Spindle Position, Flange Base



- Able to withstand abuse in heavy-duty applications
- Adaptable, durable and weldable
- Fully bushed assembly
- Complete with cushioned PVC handle grip
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	G	ØH	I	Holding Force	Weight
VA700/2C	4 7/8	8 7/16	2	25/64	63/64	1 31/32	1 7/8		M12x100	1543lbs	2lb 9oz
VA1200/2C	5 5/8	9 7/8	2 3/8	3/8	1 3/16	2 23/64	2 5/32		M12x100	2646lbs	4lb 9oz
VA2400/2C	7 3/8	11 5/8	2 31/32	15/32	1 7/8	2 31/32	2 3/4		M12x100	1543lbs	2lb 9oz

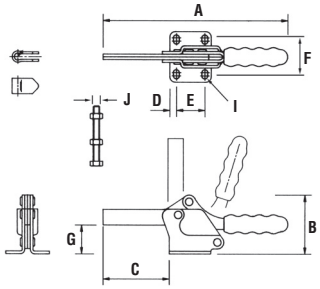
Horizontal Clamps — Straight Base, Solid Arm Type



- Used where height restrictions prevent use of a vertical clamp
- Complete with cushioned PVC handle grip
- All models have closed ends for rigidity
- Zinc-plated and passivated steel-plating protection
- Stainless steel solid axles
- Positive mechanical bar lock
- Spindle and retainer supplied loose for welding in the desired position
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	G	H	I	J	Holding Force	Weight
H250/1A	8 7/8	3 1/32	3 1/32	5/16	1	28/32	1 29/32	7/32	17/64	M8x60	550lbs	1lb 1oz
H250/1AL	9 1/4	3 1/32	3 9/16	5/16	1	28/32	1 29/32	7/32	17/64	M8x60	540lbs	1lb 2oz
H350/1A	11	4 1/4	4 9/32	11/32	1 19/32	1 5/32	2 1/2	5/16	11/32	M10x80	770lbs	1lb 11oz
H450/1A	12 3/16	5 3/32	12 3/16	1/2	1 9/32	1 15/32	3 3/32	3/8	11/32	M12x100	991lbs	3lb 6oz

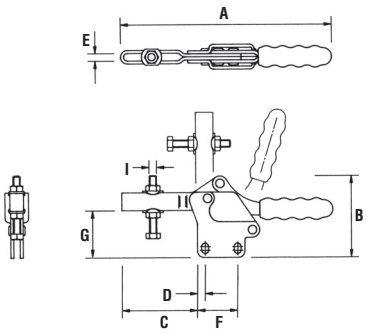
Horizontal Clamps — Flanged Base, Solid Arm Type



- Used where height restrictions prevent use of a vertical clamp
- Complete with cushioned PVC handle grip
- All models have closed ends for rigidity
- Zinc-plated and passivated steel-plating protection
- Stainless steel solid axles
- Positive mechanical bar lock
- Spindle and retainer supplied loose for welding in the desired position
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	G	Width I	J	Holding Force	Weight
H250/2A	8 7/8	2 5/8	3 7/32	5/16	1 7/32	1.10	1 5/16	17/64	M6x60	550lbs	1lb 1oz
H250/2AL	9 17/64	2 5/8	3 19/32	5/16	1 7/32	1.10	1 5/16	17/64	M6x60	550lbs	1lb 2oz
H350/2A	10 31/32	3 3/16	4 11/32	11/32	1 19/32	1.58	1 3/4	11/32	M12x80	770lbs	1lb 11oz
H450/2A	12 3/16	4 5/16	5 3/32	1/2	1 19/32	1.63	2 21/64	11/32	M12x100	991lbs	3lbs 6oz

Horizontal Clamps — Straight Base, Adjustable Arm

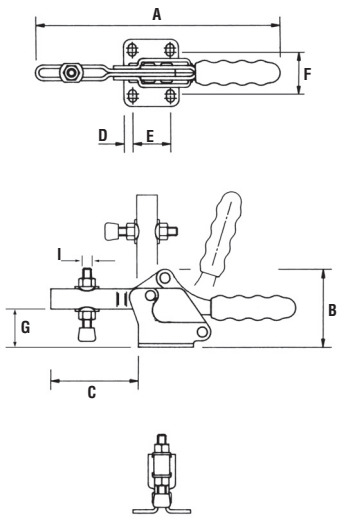


- Solid stainless steel axles
- Used where height restrictions prevent use of a vertical clamp
- Complete with cushioned PVC handle grip
- All models have enclosed clamp arms for rigidity
- Zinc-plated and passivated steel plating protection
- Precision Auto Cad design geometry for smooth action
- Safety side plate guarding to prevent finger trapping
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	G	I	Holding Force	Weight
H50/1B	2 3/4	1 5/32	1 1/32	1/4	7/32	5/8	9/16	M5	110lbs	1oz
H75/1B	4 9/16	1 25/32	1 15/32	7/32	17/32	31/32	1/8	M5	165lbs	3oz
H75/1BSS	4 9/16	1 25/32	1 15/32	7/32	17/32	31/32	1/8	M5	165lbs	3oz
H150/1B	6 11/16	2 9/16	2 13/32	1/4	1 1/32	1 1/2	1 33/32	M6	330lbs	7oz
H150/1BSS	6 11/16	2 9/16	2 13/32	1/4	1 1/32	1 1/2	1 33/32	M6	330lbs	7oz
H250/1B	8 3/16	3 7/32	3 1/8	5/16	1 1/32	1 21/32	1 17/32	M8x60	550lbs	1lb 1oz
H350/1B	10 25/32	4 1/4	4 1/4	11/32	1 5/8	2 5/16	2 1/8	M10x80	770lbs	1lb 11oz
H450/1B	12	5 1/8	5 1/32	1/2	1 5/8	2 19/32	2 19/32	M12x100	991lbs	3lb 6oz

SS = stainless steel version

Horizontal Clamps — Flanged Base, Adjustable Arm Type

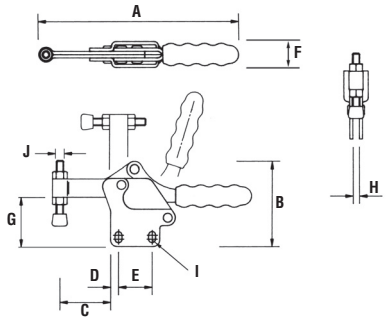


- Solid stainless steel axles
- Used where height restrictions prevent use of a vertical clamp
- Complete with cushioned PVC handle grip
- All models have enclosed clamp arms for rigidity
- Zinc-plated and passivated steel
- Precision Auto Cad design geometry for smooth action
- Safety side plate guarding to prevent finger trapping
- Front mounting bracket available see “Accessories”
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	G	I	Holding Force	Weight
H50/2B	2 3/4	7/8	1 1/32	1/4	5/8	5/8	7/16	M5	110lbs	1 3/32oz
H50/2BSS	2 3/4	7/8	1 1/32	1/4	5/8	5/8	7/16	M5	110lbs	1 3/32oz
H75/2B	4 1/2	1 3/8	1 7/16	7/32	11/16	17/32	3/4	M5	165lbs	3oz
H75/2BSS	4 1/2	1 3/8	1 7/16	7/32	11/16	17/32	3/4	M5	165lbs	3oz
H100/2B										
H150/2B	6 11/16	2 1/8	2 3/8	7/32	7/8-1 1/8	1	31/32	M5	110lbs	1 3/32oz
H150/2BSS	6 11/16	2 1/8	2 3/8	7/32	7/8-1 1/8	1	31/32	M5	110lbs	1 3/32oz
H200/2B								M5	110lbs	1 3/32oz
H250/2B	8 7/8	2 5/8	3 1/8	17/64	1 1/32-1 7/32	1	1 11/32	M5	110lbs	1 3/32oz
H300/2B								M5	110lbs	1 3/32oz
H350/2B	10 3/4	3 5/16	4 1/4	11/32	1 17/32-1 11/16	1 5/8	1 25/32	M5	110lbs	1 3/32oz
H450/2B	12	4 3/8	5 1/32	1/2	1 5/8	1 5/8	2 5/16	M5	110lbs	1 3/32oz
H700	10 5/8	3 5/16	3 1/16	15/32	3 1/4	1 1/4	1 3/4	M5	110lbs	1 3/32oz

SS = stainless steel version

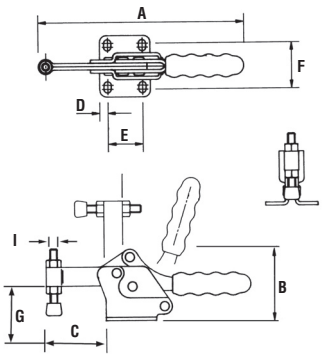
Horizontal Clamps — Straight Base, Fixed Spindle Arm Type



- Solid stainless steel axles
- Used where height restrictions prevent use of a vertical clamp
- Complete with cushioned PVC handle grip
- All models have closed ends for rigidity
- Zinc-plated and passivated steel
- Precision Auto Cad design geometry for smooth action
- Safety side plate guarding to prevent finger trapping
- Front mounting bracket available see “Accessories”
- See “Accessories” for other items

	Dimensions (in.)										Holding	
Model #	A	B	C	D	E	F	G	H	I	J	Force	Weight
H75/1C	4¼	1 25/32	2 9/32	7/16	17/32	5/8	1 1/16	5/32	13/64	M5	165lbs	3oz
H150/1C	6 7/32	2 3/16	1½	¼	1 1/32	25/32	1 15/32	3/16	7/32	M6	330lbs	7oz

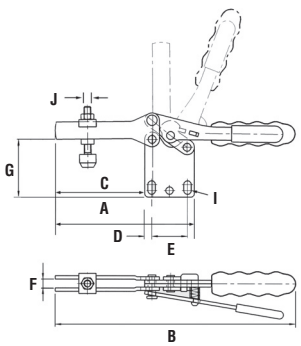
Horizontal Clamps — Flanged Base, Fixed Spindle Arm Type



- Solid stainless steel axles
- Used where height restrictions prevent use of a vertical clamp
- Complete with cushioned PVC handle grip
- All models have enclosed clamp arms for rigidity
- Zinc-plated and passivated steel
- Precision Auto Cad design geometry for smooth action
- Safety side plate guarding to prevent finger trapping
- Front mounting bracket available see “Accessories”
- See “Accessories” for other items

	Dimensions (in.)								Holding	
Model #	A	B	C	D	E	F	G	I	Force	Weight
H50/2C	2¾	⅛	13/16	¼	⅝	⅝	7/16	M5	110lbs	¾oz
H75/2C	4¼	1⅜	⅛	7/32	11/16	17/32	¾	M5	165lbs	3oz
H150/2C	6 5/32	2 5/32	1½	7/32	1 1/32	1 3/16	31/32	M6	330lbs	7oz

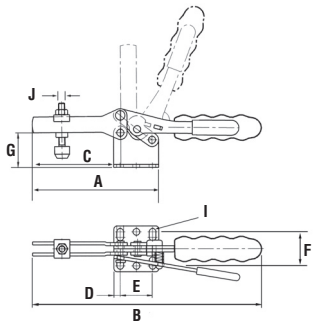
Horizontal Positive Locking Clamps — Straight Base Type



- Used where a secondary positive lock is needed like turn over fixtures
- Complete with cushioned PVC handle grip
- All models have closed ends for rigidity
- Zinc-plated and passivated steel-plating protection
- Stainless steel solid axles
- Positive mechanical bar lock
- See “Accessories” for other items

	Dimensions (in.)							Width		Holding	
Model #	A	B	C	D	E	F	G	I	J	Force	Weight
H350/1BLC	6 5/32	11 17/32	3 19/32	5/16	1 19/32	3/8	2 19/32	21/64	10mm	770lbs	1.52lbs

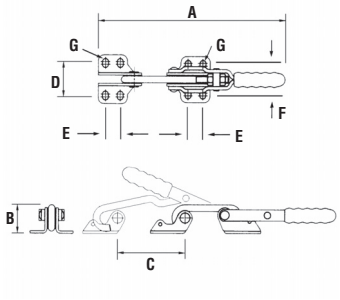
Horizontal Positive Locking Clamps — Flanged Base, Adjustable Spindle Type



- Used where a secondary positive lock is needed like turn over fixtures
- Complete with cushioned PVC handle grip
- All models have closed ends for rigidity
- Zinc-plated and passivated steel-plating protection
- Stainless steel solid axles
- Positive mechanical bar lock
- Front mounting bracket available see “Accessories”
- See “Accessories” for other items

	Dimensions (in.)							Width		Holding	
Model #	A	B	C	D	E	F	G	I	J	Force	Weight
H350/2BLC	6 5/32	11 17/32	4 1/32	5/16	1 19/32	1 19/32	1 23/32	1/64	10mm	770lbs	1.52lbs

Hook Clamps

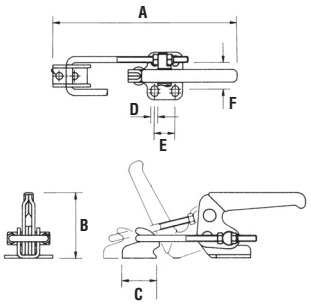


- Used for locking lids, covers and boxes
- Complete with cushioned PVC handle grip
- Zinc-plated and passivated steel-plating protection
- Solid stainless steel axles
- Adjustable swaged hook for increased holding capacity
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	G	Holding Force	Weight
LH200	6 5/32	1 1/32	2 3/4	1 7/32	1/2	27/32	13/64	441lbs	3oz
LH200SS	6 5/32	1 1/32	2 3/4	1 7/32	1/2	27/32	13/64	441lbs	3oz
LH400	9 3/4	1 15/32	3 17/32	1 5/8	3/4	1 5/32	1/4	881lbs	9oz
LH400SS	9 3/4	1 15/32	3 17/32	1 5/8	3/4	1 5/32	1/4	881lbs	9oz
LH700	12 7/32	1 15/16	4 1/2	2 5/32	1 1/4	1 11/16	11/32	1542lbs	2.2lbs
LH700SS	12 7/32	1 15/16	4 1/2	2 5/32	1 1/4	1 11/16	11/32	1524lbs	2.2lbs

SS = stainless steel version

Latch Clamps Horizontal Position

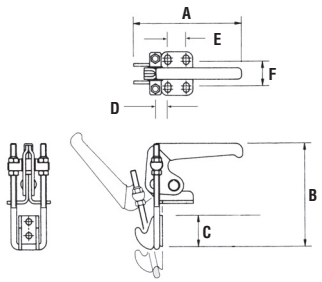


- Used for locking lids, covers and boxes
- Complete with cushioned PVC handle grip
- Zinc-plated and passivated steel
- Models also available in Stainless Steel
- Adjustable latch arm for varying reach
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	Holding Force	Weight
LU200H	4 1/16-5 5/16	1 5/8	7/8	13/64	1/2	3/4	441lbs	2oz
LU200HSS	4 1/16-5 5/16	1 5/8	7/8	13/64	1/2	3/4	441lbs	2oz
LU400H	5 11/16-7 9/32	2 1/2	1 1/4	1/4	3/4	1	881lbs	7oz
LU400HSS	5 11/16-7 9/32	2 1/2	1 1/4	1/4	3/4	1	881lbs	7oz
LU700H	7 1/2-9 13/16	3 5/16	1 7/8	21/64	1 1/4	1 3/8	1542lbs	1lb 6oz
LU700HSS	7 1/2-9 13/16	3 5/16	1 7/8	21/64	1 1/4	1 3/8	1542lbs	1lb 6oz

SS = stainless steel version

Latch Clamps Vertical Position

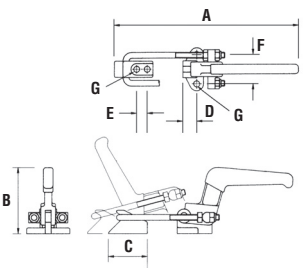


- Used for locking lids, covers and boxes
- Complete with cushioned PVC handle grip
- Zinc-plated and passivated steel
- Models also available in Stainless Steel
- Adjustable latch arm for varying reach
- See “Accessories” for other items
- Base mounting same as horizontal position latch clamp

Model #	Dimensions (in.) A	B	C	D	E	F	Holding Force	Weight
LU200V	3	2 5/8-3 17/32	7/8	1/2	7/16	3/4	441lbs	2oz
LU200VSS	3	2 5/8-3 17/32	7/8	13/64	1/2	3/4	441lbs	2oz
LU400V	4 17/32	3 13/16-4 27/32	1 1/4	1/4	3/4	1	881lbs	7oz
LU400VSS	4 17/32	3 13/16-4 27/32	1 1/4	1/4	3/4	1	881lbs	7oz
LU700V	6	4 15/16-6 7/16	1 9/16	21/64	1 1/4	1 3/8	1542lbs	1lb 6oz
LU700VSS	6	4 15/16-6 7/16	1 9/16	21/64	1 1/4	1 3/8	1542lbs	1lb 6oz

SS = stainless steel version

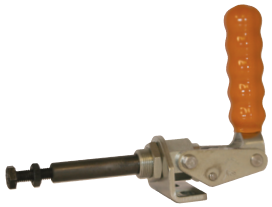
Heavy-Duty Latch Clamps — Horizontal Position

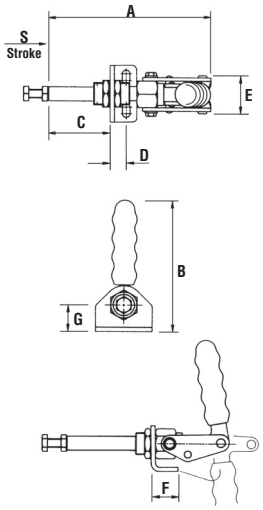


- Used for locking lids, covers and boxes
- Complete with cushioned PVC handle grip
- Zinc-plated and passivated steel – for corrosion protection
- Fully adjustable latch arm
- 2 position latch for vertical or horizontal use
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	G	Holding Force	Weight
LU2000H	10 5/8-12 5/16	4 1/2	2 5/16	9/32	1 31/32	2	13/32	4405lbs	3lb 1oz
LU4000H	13 3/16-15 5/16	5 1/16	3 1/16	15/32	2 1/32	2 5/16	15/32	8811lbs	5lb 9oz

Push-Pull Slimline Clamps



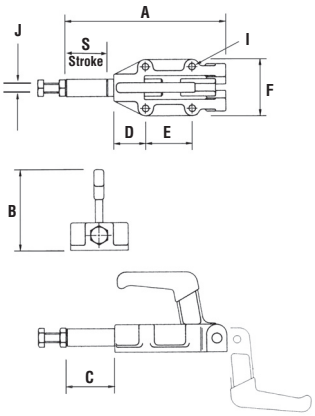


- A range of toggle clamps for use when positive clamping is required
- Complete with cushioned PVC handle grip
- Also available in Stainless Steel
- Large bushing area for increased life
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	G	S	I	Holding Force	Weight
P50	2 5/8	1 5/8	1 3/8	5/8	5/8	7/16	1/2	5/8	M4x12	110lbs	1.3oz
P50SS	2 5/8	1 5/8	1 3/8	5/8	5/8	7/16	1/2	5/8	M4x12	110lbs	1.3oz
P100	2 11/16	3 3/4	1 1/4	1 3/16	11/16	1 3/16	1 1/32	13/16	M16x1,5	220lbs	4oz
P100SS	11/16	3 3/4	1 1/4	1 3/16	11/16	29/32	1 1/32	13/16	M16x1,5	220lbs	4oz
P200	4 5/16	5 3/8	2 1/8	7/8	1 3/16-1 5/8	1 3/16	31/32	1 9/16	M8x25	485lbs	9oz
P200SS	4 5/16	5 3/8	2 1/8	7/8	1 3/16-1 5/8	1 3/16	31/32	1 9/16	M8x25	485lbs	9oz
P250	5 5/16	3 11/32	2 3/32	–	1 13/32	29/32	31/32	1 1/4	M6x12	551lbs	8oz
P350	4 27/32	3 13/16	1 15/16	–	–	–	–	31/32	M16x1,5	771lbs	5oz
P400	6 7/8	6	3 5/8	–	1 3/16-1 3/4	xx	1 3/16	2 11/16	M24x1,5	881lbs	1lb 7oz
P400SS	6 7/8	6	3 5/8	–	1 3/16-1 3/4	xx	1 3/16	2 11/16	M24x1,5	881lbs	1lb 7oz
P450	6 13/16	4 23/32	2 3/8	–	1 15/32	1 3/16	1 3/16	1 1/2	M10x20	991lbs	1lb 8oz
P550	6 3/8	4 21/16	2 3/8	–	–	–	–	1 1/2	M20x1,5	1211lbs	1lbs
P750	9 5/32	5 5/16	2 3/4	–	–	–	–	2 19/32	M24x1,5	1652lbs	2.2lbs

SS = stainless steel version

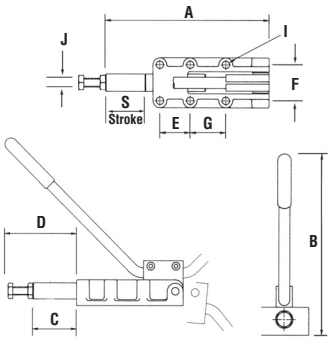
Heavy-Duty Push-Pull Clamps



- Unique to Brauer heavy-duty push-pull clamps
- A range of toggle clamps for use when arduous environment clamping is required
- Complete with cushioned PVC handle grip
- Main components steel
- Large bearing area for long plunger life
- Plunger locks in both full forward and retracted position
- Machined cast base.
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	S	ØI	J	Holding Force	Weight
P600	5	2 5/8	1 1/2	1	1 1/16	1.32	1 1/4	7/32	M8x30	1322lbs	1lbs
P1200	7 1/2	3 1/2	2 5/32	5/16	3	1.62	1 31/32	21/64	M10x40	2643lbs	3lbs
P2500	11 11/16	4 1/4	4	15/32	3 1/2	2.13	2 15/16	13/32	M12x60	5507lbs	8lbs
P5000	15 3/8	4 7/8	5 7/16	15/32	5 1/2	2.25	3 15/16	13/32	M16x60	11013lbs	13lb 6oz

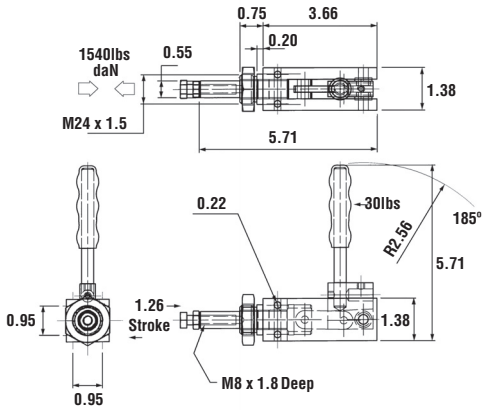
Long-Handled Push-Pull Clamps



- Unique to Brauer heavy-duty push-pull clamps
- A range of toggle clamps for use when arduous environment clamping is required
- Complete with cushioned PVC handle grip
- Main components steel
- Large bearing area for long plunger life
- Plunger locks in both full forward and retracted position
- Machined cast base. Investment precision
- Long handle for increased mechanical advantage
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	G	S	I	J	Holding Force	Weight
P600L	5	5 1/8	1 1/2	2 9/16	1	1.32	1 7/16	1 1/4	7/32	M8x30	1322lbs	1lb 2oz
P1200L	7 1/2	7 7/8	2 5/32	4	1 3/8	1.62	1 5/8	1 3/32	21/64	M10x40	2643lbs	3lb 6oz
P2500L	11 11/16	11	4	5 1/4	1 3/4	2.13	1 3/4	2 15/16	13/32	M12x60	5507lbs	9lb 1oz
P5000L	15 3/8	14	5 7/16	6 3/4	2 3/4	2.25	2 3/4	3 15/16	13/32	M16x60	11013lbs	15lb 6oz

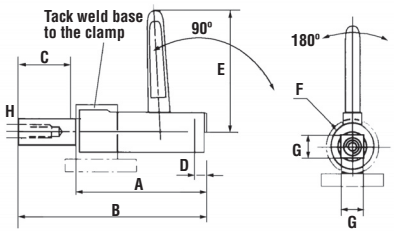
Precision Push-Pull Clamp - Model SP700



- Plunger is precision ground steel self-locking at forward stroke position
- Carbon steel precision machined base, nose mounting or body mounting
- Supplied complete with MBO840 setscrews and nuts
- See “Accessories” for other items

Model #	Holding Force	Weight
SP700	1540lbs	1.8lbs

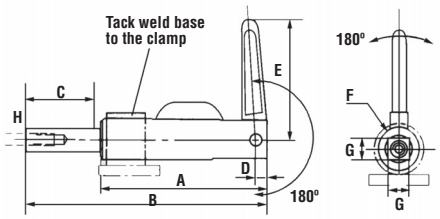
Precision Push-Pull Clamp



- Heavy duty high force
- Piston locks at the extended end of the stroke only
- Base is fixed using accessories
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	G	H	Holding Force	Weight
P1150	4.26	6.27	1.81	0.39	4.41	1.38	0.75	M12	2530lbs	2530lbs
P2250	5.55	8.37	2.17	0.55	5.00	1.77	0.98	M16	4950lbs	4070lbs

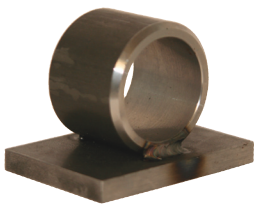
Precision Push-Pull Clamp

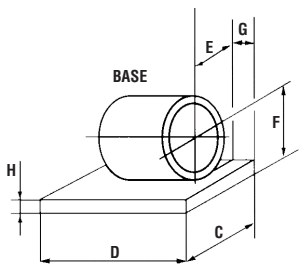


- Heavy duty high force
- Piston locks at the extended end of the stroke only
- Base is fixed using accessories
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	G	Holding Force	Weight
P1150L	5.90	8.50	2.30	0.38	4.41	1.38	0.74	2530lbs	2530lbs
P2250L	7.65	11.0	3.07	0.55	5.00	1.78	0.98	4070lbs	4070lbs

P Series Base Accessory

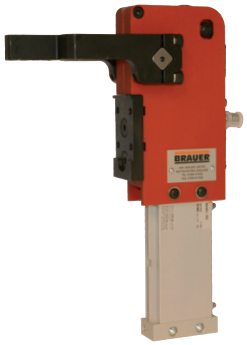


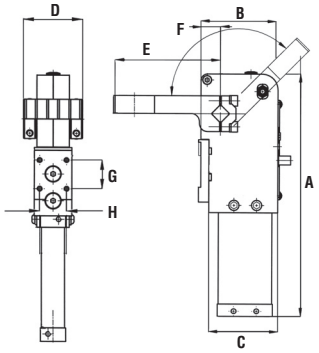


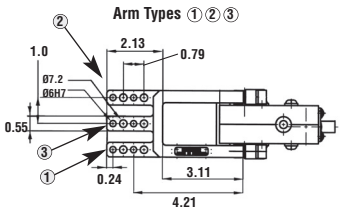
Base #	Dimensions (in.) C	D	E	F	G	H	Weight
P1150B	2.76	1.97	1.38	1.19	0.26	0.30	0.84lbs
P2250B	3.55	2.76	1.77	1.58	0.28	0.48	1.98lbs

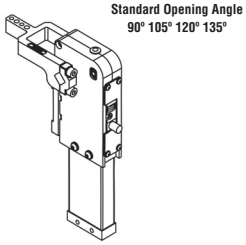
Part #	Fits Models
P1150B	P1150, P1150L
P2250B	P2250, P2250L

Pneumatic Power Clamps - Interchangeable with Existing Types









- Mounting face hole patterns and hole sizes can be modified to suit requirements
- Enclosed body
- No reduction of clamping torque as clamp locks
- Flat, 'slim line' construction
- Variety of arm types
- Opening angles up to 135°
- Long service life
- Air cylinders max 8 bar with oil free dry running design
- Reed switches on cylinder (magentic piston) (R)
- Sensing options:
  - ⬭ = without sensing
  - I = supplied with inductive sensing 10-30V weld immune and isolated M12x10 sensor thread

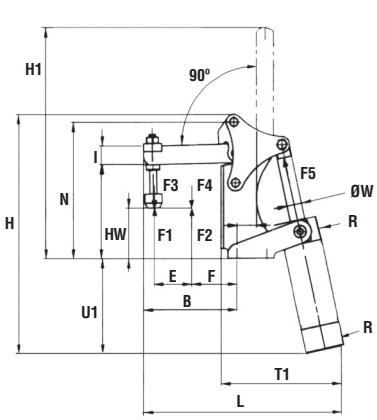
Model #	Dimensions (in.) A	B	C	D	E	F	G	H	Holding Moment	Clamping Moment	Piston Ø	Cylinder Port	Weight (lbs)
BPC 25	12.00	4.02	3.35	2.52	5.24	1.06	1.26	1.18	125ft/lbs	40ft/lbs	0.980	M5	5.25
BPC 32	12.28	4.02	3.35	2.52	5.24	1.06	1.26	1.18	250ft/lbs	85ft/lbs	1.259	G⅛	5.75

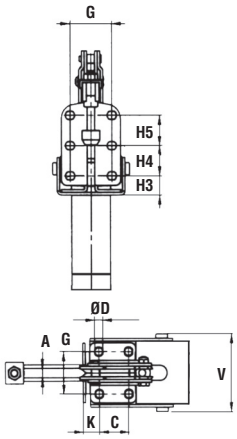
ORDER EXAMPLE

BPC	25	H	2	0	105	A
BPC	32	V	3	I	120	A

- BRAUER POWER CLAMP
- CYLINDER DIAMETER Ø
- CLAMPING ARM POSITION (H - HORIZONTAL, V - VERTICAL)
- CLAMPING ARM VARIANT
- SENSING OPTION
- ARM OPENING ANGLE
- BODY MATERIAL (ALUMINIUM)

Pnuematic Slim Line Verticle Toggle Clamp - Adjustable Spindle, Flange Base





- Space saving design
- Can be mounted vertically or horizontally
- Fitted with double-acting Norgren or Festo pneumatic cylinders
- Replaceable cylinders
- 30-90lbs operating pressure range
- Magnetic piston for sensor-position monitoring
- Adjustable speed
- Clamp zinc-plated and passivated
- Stainless steel rivets running in case-hardened bushes
- Bearings pre-greased
- Complete with heat-treated, zinc-plated pressure screws
- Supplied with set screw, sliders, nuts and neoprene cover
- See "Accessories" for other items

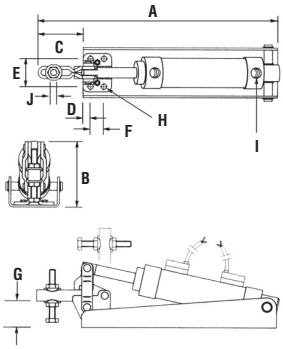
Stroke Sensing Switch

Part No.	Cylinder Stroke	Cylinder Piston Ø
M/50/LSU/CP Ø25	1.65	1.00
M/50/LSU/CP Ø32	2.05	1.26
M/50/LSU/CP Ø40	2.44	1.58

Model #	Dimensions (in.) F1(lbs)	F1(lbs)	F1(lbs)	F1(lbs)	F1(kN)	Height	Width	Screw	WGT(g)	a	b
V100VX	220	264	154	220	66	6.69	5.12	1.38	1.76	0.24	1.57
V200VX	308	550	132	242	110	8.07	6.30	1.77	2.42	0.32	2.56
V300VX	440	660	330	484	165	10.23	8.66	2.56	3.52	0.39	3.35

Model #	Dimensions (in.) C	ØD	E	F	G	H	H1	H3	H4	H5	HW	I	K	N	R	Q	T1	U1	V	ØW
V100VX	0.49	0.22	1.06	0.94	1.06	2.56	5.71	0.63	0.50	0.50	1.46-1.81	0.47	0.63	3.70	M5	0.31	3.54	2.76	2.44	0.39
V200VX	0.62	0.26	1.65	1.18	1.00	2.83	7.28	0.70	0.63	-	1.50-1.97	0.70	0.63	4.25	G⅛	0.51	4.13	3.54	2.76	0.47
V300VX	1.26	0.33	2.04	1.57	1.77	3.93	9.45	0.87	1.30	1.30	1.97-3.11	0.79	0.71	5.66	G⅛	0.79	5.31	4.13	3.35	0.63

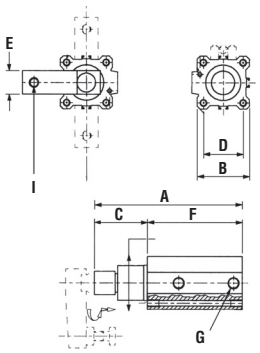
Pneumatic Vertical Clamps



- Compact cylinder with magnetic piston
- Can be operated with dry air; air lubrication extends cylinder life
- Operating air pressure range 2-6 bar
- One piece body base to maintain alignment
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	G	ØH	I	J	Holding Force	Weight
V75X	7	2	1 3/16	3/16	15/16	5/8	23/32	11/64	G1/8	M5x35	165lbs	11oz
V150X	8 15/16	2 1/2	1 5/8	9/32	1 1/16	1/2	15/16	13/64	G1/8	M6x50	330lbs	1lb 5oz
V250X	12 1/8	3 5/16	3	5/16	1 1/4	3/4	1 3/8	9/32	G1/8	M8x60	550lbs	2lb 8oz
V450X	11 3/16	4 13/16	2 15/16	5/16	3/4	1 1/4	2 1/8	11/32	G1/8	M12x100	991lbs	6lb 5oz

Pneumatic Swing Clamps

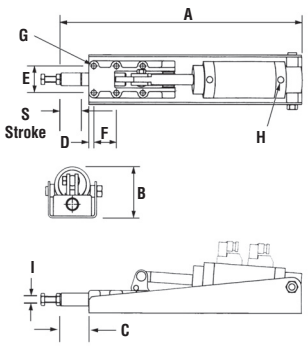


- 90° swing of arm for clearance of workplace
- Fast clamping stroke
- High repeatable clamping accuracy
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	G	I	Holding Force	Weight
PNS 32-10A	5	1 3/4	1 25/32	1 5/16	25/32	1 5/32	G1/8	M8x1,25	132lbs	1lb 9oz
PNS 32-10C	5	1 3/4	1 25/32	1 5/16	25/32	1 5/32	G1/8	M8x1,25	132lbs	1lb 9oz
PNS 40-20A	5 13/16	2 1/32	2 15/32	1 9/16	25/32	1 5/32	G1/8	M8x1,25	231lbs	1lb 14oz
PNS 40-20C	5 13/16	2 1/32	2 15/32	1 9/16	25/32	1 5/32	G1/8	M8x1,25	231lbs	1lb 14oz
PNS 50-20A	6 21/32	3 1/32	2 27/32	1 15/16	27/32	1 7/16	G1/4	M8x1,25	370lbs	3lb 3oz
PNS 50-20C	6 21/32	3 1/32	2 27/32	1 15/16	27/32	1 7/16	G1/4	M8x1,25	370lbs	3lb 3oz
PNS 63-20A	6 25/32	3 1/32	2 27/32	2 11/32	27/32	1 7/8	G1/4	M10x1,5	616lbs	4lb 2oz
PNS 63-20C	6 25/32	3 1/32	2 27/32	2 11/32	27/32	1 7/8	G1/4	M10x1,5	616lbs	4lb 2oz

‘A’ suffix denotes anti-clockwise working. ‘C’ suffix denotes clockwise working

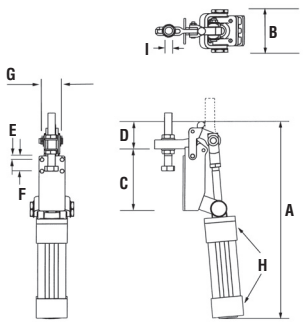
Heavy-Duty Pneumatic Push-Pull Clamps



- Compact cylinder with magnetic piston
- Can be operated with dry air; air lubrication extends cylinder life
- Operating air pressure range 2-6 bar
- One piece body base to maintain alignment
- Precision ground piston rods
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	ØG	S	I	H	Holding Force	Weight
P600X	12 3/4	2 1/8	1 1/8	1	1 5/16	1 7/16	7/32	31/32	M16x150	G1/8	4400lbs	22lb 10oz
P1200X	17 1/8	3	2 5/32	5/16	1 5/8	3	21/64	1 1/4	M10x40	G1/8	2640lbs	8lb 4oz
P2500X	22 23/32	3 25/32	4 1/32	7/8	1 25/32	2 1/8	13/32	1 3/32	M12x60	G1/4	5500lbs	16lb 4oz

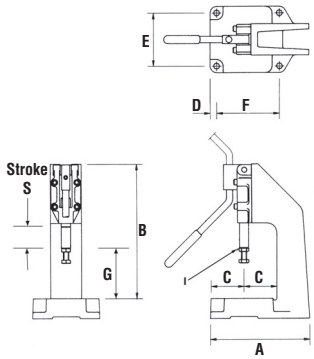
Heavy-Duty Pneumatic Vertical Toggle Clamps



- For use in arduous environments
- Adjustable arm types as standard
- All leading pneumatic cylinders including SMC, ASCO Joucomatic and Festo can be fitted
- Heavy duty extremely high holding forces
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	G	H	I	Holding Force	Weight
VA300BX	9.0	2 5/32	4.0	1 3/4	1/4	2 3/32	1.26	G1/8	M6x50	550-770lbs	4lb 13oz
VA700CX	9 9/16	3 13/32	2 5/32	3.0	31/32	3 11/32	1.97	G1/4	M12x100	1540lbs	9lb 14oz
VA1200CX	12 5/8	3 13/32	2 5/32	3 11/32	1 1/4	3 29/32	2.36	G1/4	M2x100	2640lbs	12lb 10oz
VA2400CX	17	3 13/32	4 1/32	3 5/16	1/8	3 29/32	3.0	G1/4	M16x150	5280lbs	19lb

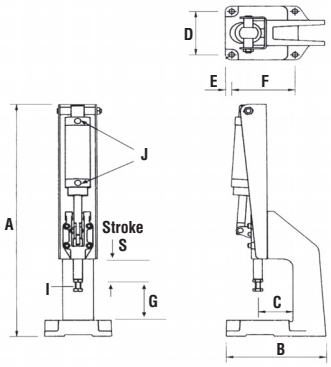
Manual Operation Toggle Presses



- A comprehensive range of manual presses suitable for a variety of applications
- The generation of high forces towards the end of their stroke make these presses suitable for work such as swaging, press fitting, riveting, piercing and punching.
- All frames are manufactured from machined SG iron casting for consistent quality and durability.
- Replaceable operating mechanisms
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	G	S	I	Holding Force	Weight
P600PR	6	8	1 31/32	13/32	3 5/32	3¾	2 15/16	1¼	M8x30	1322lbs	7lb 9oz
P1200PR	7 5/16	11 13/32	2 11/32	½	3¾	4 17/32	3 15/16	1 31/32	M8x30	2643lbs	16lb 2oz
P2500PR	9⅜	16 7/16	3	½	4 59/64	5 45/64	4 23/32	2 15/16	M12x60	5507lbs	34lb
TPR1	6 15/32	13¾	1¼ -2⅞	–	3 5/32	–	1 9/16-5 5/16	1 9/16	xx	1124lbf	20lb
TPR2	8⅞	19 5/32	2 5/32-3 17/32	–	5 5/16	–	¼-6⅝	1 9/16	xx	1686lbf	42lb
TPR3	11 13/16	19½	2 29/32-4 11/32	–	5 5/16	–	3/32-4 13/16	1 9/16	xx	3150lbf	86lb

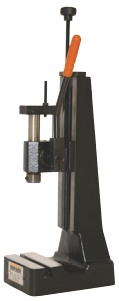
Pneumatic Operation Toggle Presses

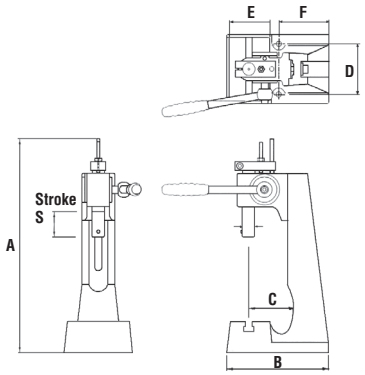


- A comprehensive range of pnuematically operated presses suitable for a variety of applications
- The generation of high forces towards the end of their stroke make these presses suitable for work such as swaging, press fitting, riveting, piercing and punching.
- All frames are manufactured from machined SG iron casting for consistent quality and durability.
- Cylinders can run on unlubricated air supplies
- Precision ground cylinder rods for accuracy
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	G	J	S	I	Holding Force	Weight
P600XPR	17	17	2 3/64	3 5/32	25/64	3¾	2 15/16	G⅛	31/32	M8x30	1320lbs	11lb 8oz
P1200XPR	22⅝	22 7/10	2½	3¾	½	4 17/32	3 15/16	G⅛	1¼	M10x40	2640lbs	21lb
P2500XPR	29½	29 47/100	3⅛	4 59/64	½	5 45/64	4 23/32	G¼	1 31/32	M12x60	5500lbs	42lb

Rack and Pinion Presses

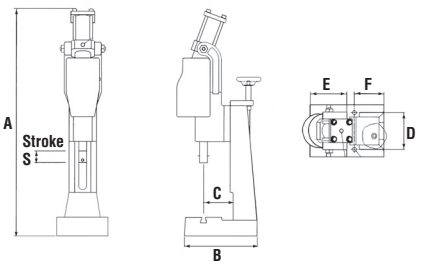




- Very high precision press
- A comprehensive range suitable for a variety of applications
- The generation of high forces towards the end of their stroke make these presses suitable for work such as swaging, press fitting, riveting, embossing and glueing.
- All frames are manufactured from machined SG iron casting for consistent quality and durability.
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	S	Weight
RPP1	13⅜	6 15/32	2 27/32	3⅛	3 11/32	3⅛	1 11/16	19lbs
RPP2	18 5/16	8 27/32	3 17/32	4¼	4 5/16	3 17/32	1 15/16	46lbs

Pneumatic Operation Toggle Presses



- A comprehensive range suitable for a variety of applications
- The generation of high forces towards the end of their stroke make these presses suitable for work such as swaging, press fitting, riveting, embossing and glueing.
- All frames are manufactured from machined SG iron casting for consistent quality and durability.
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	S	Weight
PNPR1	27¾	8 21/32	3 17/32	4¼	4 5/16	3 17/32	1⅜	49lbs
PNDP1	24 11/16	8 21/32	3 17/32	4¼	4 5/16	3 17/32	1 9/16	41lbs

Stroke-Sensing Kits

Kit Number Used	Clamp Model
SK/1	V75X
SK/2	V150X
SK/3	V250X, P600X
SK/4	V450X, P1200X
SK/5	P2500X
SK/6	V750X, V1750X
SK/7	PNS20-10A, PNS20-10C
SK/8	PNS32-10A, PNS32-10C, PNS40-20A, PNS40-20C, PNS50-20A, PNS50-20C, PNS63-20A, PNS63-20C
SK/9	V2000X
SK/10	VA3000BX, VA700CX, VA1200CX, VA2400CX

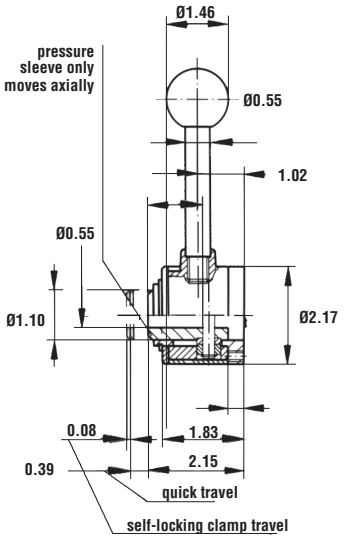
Note: Each SK Kit includes 2 individual sensors

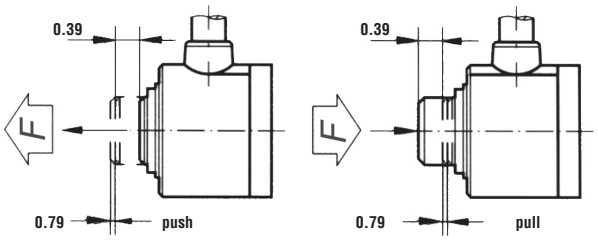
Cam Push/Cam Pull Clamps

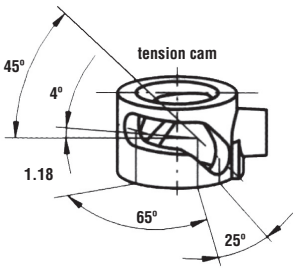
Model #	Nominal Holding Force (lbs)	Weight (lbs)	Version
CP1005	1100	1.76	RH/PUSH
CP1006	1100	1.76	RH/PULL
CP1007	1100	1.76	LH/PUSH
CP1008	1100	1.76	LH/PULL

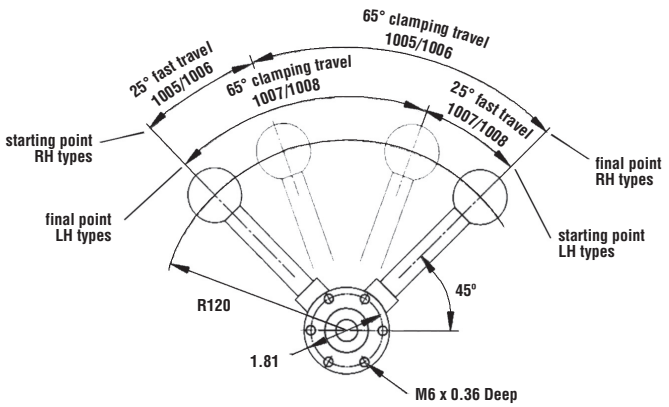
RH = Right hand LH = Left hand

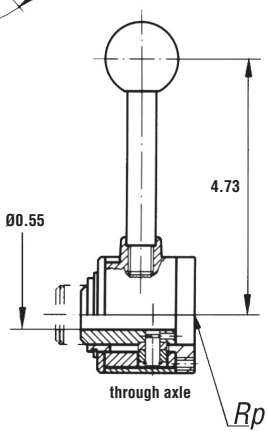
- Cam operated
- Right hand push
- Rear mounted
- See “Accessories” for other items



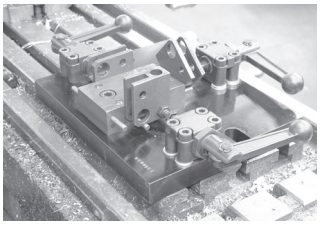


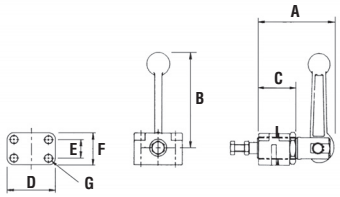






Heavy-Duty Cam Push Clamps

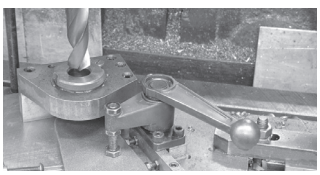




- Cam push clamps are of rugged build quality, ideal for machine shops where vibration may be an issue
- Unique, patented range of cam clamps
- Significant cost benefits over Hydraulic clamps in repetitive machining
- A fraction of the cost of hydraulic workholding
- Very high holding forces
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	ØG	I	Holding Force	Weight
CP1500	2 3/64	3 1/32	1 17/64	1 17/32	19/32	63/64	1/4	M6x19	1320lbs	0.6lbs
CP2000	3 5/16	4 1/16	1 39/64	1 31/32	25/32	1 11/32	21/64	M8x25	1430lbs	1.3lbs
CP3000	3 25/32	5 53/64	2 1/8	2 43/64	63/64	1 11/16	13/32	M12x35	1430lbs	3.4lbs
CP1500L	1 31/32	6 49/64	1 17/64	1 17/32	19/32	1 1/32	1/4	M6x19	3300lbs	0.8lbs
CP2000L	2 19/32	8 31/32	1 39/64	1 31/32	25/32	1 11/32	21/64	M8x25	3740lbs	1.7lbs
CP3000L	3 25/32	12 25/32	2 1/8	2 43/64	63/64	1 11/16	13/32	M12x35	4400lbs	4.4lbs

Heavy-Duty Cam Swing Clamps



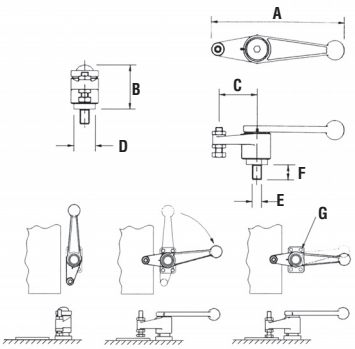


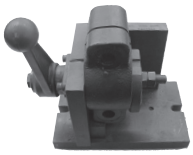
Fig 1 Fig 2 Fig 3

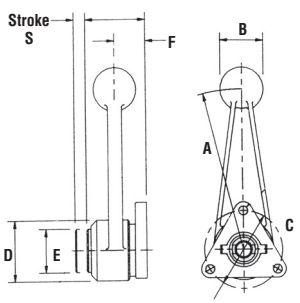
- Cam swing clamps are of rugged build quality, ideal for machine shops where vibration may be an issue
- Cam swing clamps show significant cost benefits over more expensive hydraulic and strap clamping
- Out-put holding forces same as hydraulic clamping
- Ideal for vibratory machine clamping
- High output force cam mechanism
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	ØG	Holding Force	Weight
CS300*	4 3/8	1 1/2	1 17/64	45/64	3/64	25/64	–	660lbs	0.4lbs
CS800*	6	2 1/8	1 1/8	1 7/64	–	–	1/4	1760lbs	0.9lbs
CS1200*	7 7/8	3 1/32	2 11/64	1 29/64	–	–	21/64	2640lbs	2lbs

*Above models are clockwise version.
To order anti-clockwise version add suffix A to order code.

Heavy-Duty Cam Ram Clamps



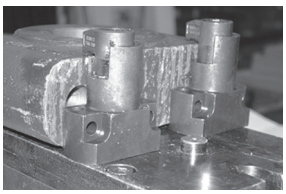


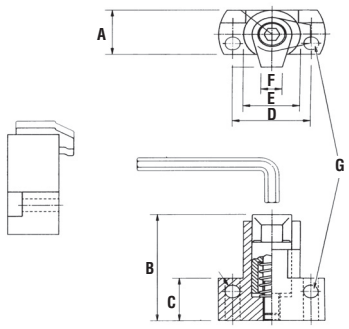
- Unique, patented range of cam clamps
- Rugged build quality, ideal for machine shops
- Significant cost benefits over strap clamps in repetitive machining
- A fraction of the cost of hydraulic workholding
- Very high holding forces
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	S	Holding Force	Weight
CR4000*	4 21/64	1 39/64	5/64	1 21/32	1 3/16	55/64	0.25/0.08	8800lbs	1.21lbs
CR5000*	5 53/64	2 1/4	3/32	2 13/64	1 21/32	1 7/64	0.32/0.10	11000lbs	2.9lbs

*Above models are clockwise version. To order anti-clockwise version add suffix A to order code.

Heavy-Duty Hex Key Clamps

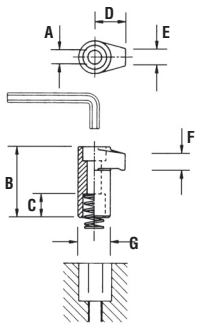




- Bolt body housing onto fixture, key down swing bolt onto work piece
- Ideal for vibratory clamping such as CNC clamping
- The 1016 series of swing clamp assemblies comprises complete assemblies of clamping arm,clamping bolt, return spring and housing, ready for bolting to a fixture ideal for heavy dutymachining applications.
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	ØG	Holding Force	Weight
1016-08	1 1/32	2 7/16	1	1 1/2	1 1/32	25/64	1/4	3960lbs	12oz
1016-10	1 1/32	2 29/32	1 3/16	1 57/64	1 11/32	15/32	21/64	4400lbs	1lb 2oz
1016-12	1 1/16	3 3/16	1 3/8	2 11/64	1 37/64	19/32	13/32	5500lbs	1lb 12oz
1016-16	1 23/32	4 13/32	1 25/32	2 9/16	1 57/64	25/32	1/2	6600lbs	3lb 8oz

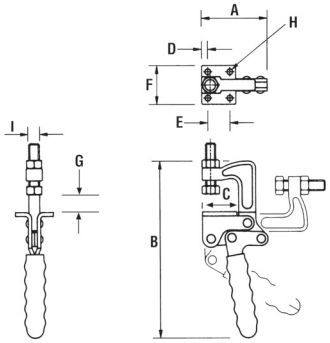
Swing Clamps



- Ideal for vibratory area clamping such as CNC tooling
- The 1015 series of swing clamp can be used with the 1016 housing assemblies ideal for m/c shops and heavy duty machining applications.

Model #	Dimensions (in.) A	B	C	D	E	F	G	Holding Force	Weight
1015-08	5/16	1 3/4	11/16	11/16	3/8	13/32	0.784	3960lbs	3oz
1015-10	13/32	2 5/32	27/32	7/8	15/32	15/32	0.941	4400lbs	6oz
1015-12	1/2	2 17/32	1	1 1/16	9/16	9/16	1.098	5500lbs	8oz
1015-16	21/32	3 11/32	1 5/16	1 13/32	25/32	11/16	1.335	6600lbs	1lb

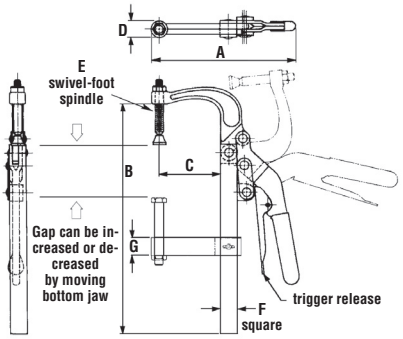
Pull Back Clamp



- Zinc plated and passivated steel
- Stainless steel rivets
- Unique action similar to a wide-opening locking plier
- Comfortable, cushioned PVC grip
- Complete with mounting base
- See “Accessories” for other items

Model #	Dimensions (in.) A	B	C	D	E	F	G	ØH	I	Holding Force	Weight
TC79	3	8 3/4	1 5/8	9/32	1	1 3/4	1 1/4	17/64	M12x50	793lbs	1lb 1oz

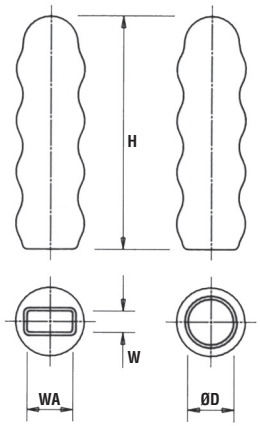
Pull Back Clamp



- Zinc plated and passivated steel
- Stainless steel rivets
- Unique action similar to a wide-opening locking plier
- Comfortable, cushioned PVC grip
- Complete with mounting base
- Bottom jaw included with clamp
- See “Accessories” for other items

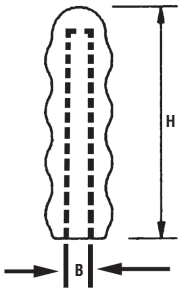
Model #	Dimensions (in.) A	B	C	D	E	F	G	Holding Force	Weight
TC345	6 3/8	10 1/8	2 1/16	1 1/16	3/8-16	3/8	9/16	800lbs	2lb 7oz

Plastic Grips



To Fit Handles Dim's					
Part #	H	W	WA	ØD	Fits Clamp Model
GR/01	1¾	5/32	5/16		H75, V75, CV75, V100, H100
GR/02	2⅜	3/16	3/8		H150
GR/03	2⅛	¼	3/8		V150, LH200
GR/04	2 5/32	3/16	½		H200
GR/05	2 9/32	5/32	½		V200, P100
GR/06	3 11/32	¼	19/32		V250, BR-H250, CV250, V300, LH400, P200, P350
GR/07	2 5/16	¼	5/8		H300
GR/08	2⅜	3/16	½		P250
GR/09	4⅛	5/16	11/16		V350, CV350, H350, P400, P450, P550, TC79
GR/10	3¾	3/8	7/8		V450, H450, LH700
GR/11	4 23/32	3/8	1		V550
GR/12	4⅛	5/16	¾		H700
GR/13	4 17/32	5/16	7/8		P750
BR/1	2¾			3/8	P600L
BR/2	3			½	P1200L
BR/3	4			5/8	P2500L
B7	3 5/16			¾	VA700, P5000L
B12	4			⅞	VA1200
B24	4			1	VA2400

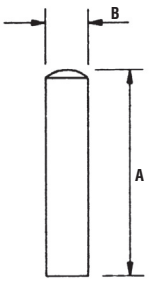
VA Series Accessories - Grip



- To fit appropriate handle

Dimensions (in.)		
Model #	H	B
B3	2⅛	15/32
B7	3 11/16	23/32
B12	3 29/32	27/32
B24	3 29/32	31/32

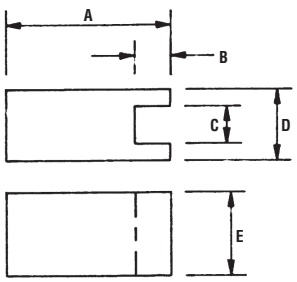
VA Series Accessories - Handle



- For welding to the desired clamp and at the desired position

Dimensions (in.)		
Model #	A	ØB
A3	1 27/32	½
A7	3 17/32	5/8
A12	3 29/32	¾
A24	3 29/32	1.00

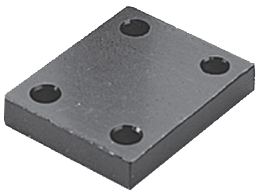
VA 'S' and 'T' Series Arm Accessory

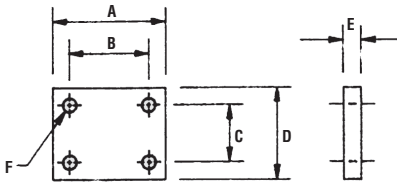


- For extending the stub arm
- Can be drilled to accept fixture arms

Dimensions (in.)					
Model #	A	B	C	D	E
C3	2 11/32	3/8	7/32	15/32	5/8
C7	2 9/32	5/16	3/8	25/32	31/32
C12	3⅛	9/16	15/32	31/32	1 5/32
C24	3 29/32	9/16	5/8	9/16	1 5/32

VA Series Base Accessory

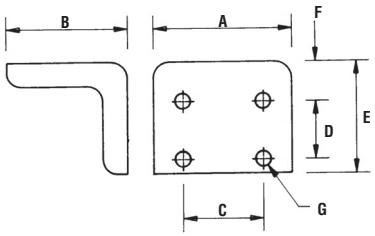




- Heavy duty clamp base for welding to heavy duty mechanisms

Model #	Dimensions (in.) A	B	C	D	E	ØF
D3	1 14/32	31/32	11/16	1 5/32	3/16	7/32
D7	1 15/16	1 3/8	31/32	1 9/16	5/16	1/4
D12	2 11/32	1 9/16	1 5/32	1 15/16	5/16	21/64
D24	2 3/4	1 15/16	1 3/4	2 17/32	5/16	21/64

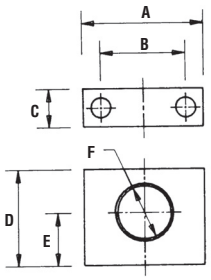
Front Mounting Brackets - Vertical and Horizontal Clamps



Model #	Dimensions (in.) A	B	C	D	E	F	ØG
FM1	1 11/16	1 5/32	11/16	19/32	1 29/64	17/32	13/64
FM2	2 1/8	1 3/4	1	3/4	1 41/64	15/32	13/64
FM3	3	2 5/8	1 3/4	1 1/4	2 17/16	13/16	21/64

Part #	Fits Flanged Base Models
FM1	V75, V150, H75, CV75
FM2	V250, H150, H250, CV250
FM3	V350, V450, H350, H450,CV350

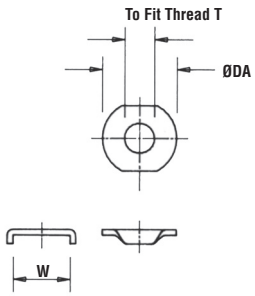
Mounting Brackets - Nose Mounting Push-Pull Clamps



Model #	Dimensions (in.) A	B	C	D	E	F
FM16	1 3/8	63/64	5/32	1 3/16	11/16	M16x1,5
FM20	1 25/32	1 1/4	5/8	1 3/8	25/32	M20x1,5
FM24	1 31/32	1 3/8	5/8	1 37/64	7/8	M24x1,5

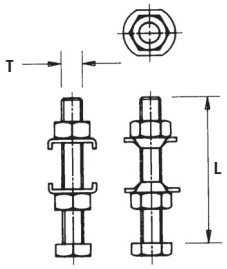
Part #	Fits Models
FM16	P100, P350
FM20	P200, P250, P550
FM24	P400, P450, P750

Flanged Washers



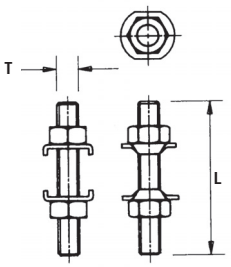
Part #	TH'D T	W	ØDA	Fits Clamp Models With B Type Arm
FW05/09	3/16	11/32	1/2	H50
FW05/10	3/16	25/64	19/32	H75, V75, V75X,V100
FW06/12	1/2	15/32	11/16	H150, V150, V150X,V200
FW08/15	5/16	19/32	7/8	H250, V250, V250X,V300
FW10/20	3/8	25/32	1	H350, V350
FW12/23	1/2	29/32	1 1/4	H450, V450, V450X,H700
FW16/27	5/8	1 1/16	1 3/8	V550

Setscrews



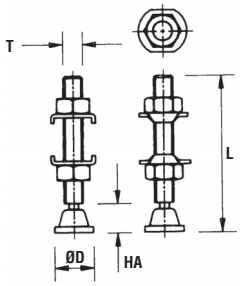
Part #	TH'D T	L	Fits Models
MB0420	M4	0.8	P50
MB0520	M5	0.8	H50
MB0535	M5	1.40	V75, H75, V100, CV75, V75X
MB0625	M6	1.0	P100, P250, P350
MB0650	M6	2.0	V150, V200, H150, V150X
MB0840	M8	1.58	P200, P550, P600, P600L, P600X
MB0860	M8	2.37	V250, V300, CV250, H250, V250X
MB1050	M10	2.0	P400, P450, P750, P1200, P1200L, P1200X
MB1080	M10	3.15	V350, H350, CV350
MB1250	M12	2.0	P2500, P2500L, P2500X
MB12100	M12	4.0	V450, V450X, H450, H700, VA700, VA1200
MB1680	M16	3.15	P5000, P5000L
MB16150	M16	6.0	V550, VA2400

Plain Spindles



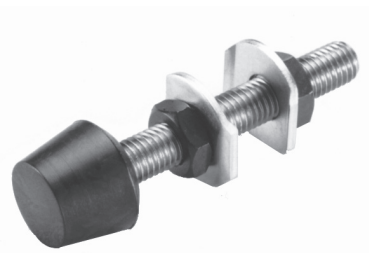
Part #	TH'D T	L	Fits Models
M0525	M5	1.00	H50
M0535	M5	1.40	V75, H75, V100, CV75, V75X
M0650	M6	2.00	V150, V200, H150, P200, P250, P350
M0865	M8	2.56	V250, V300, CV250, P300, P550, P600, P600L, P600X
M1085,	M10	3.35	V350, CV350, H350, P400, P450, P750, P1200, P1200L, P1200X
M12100	M12	4.00	V450, VA700, VA1200, H450, H700,V450X
M16150,	M16	6.00	V550, VA2400

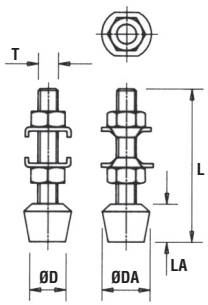
Swivel Foot Spindles



Part #	TH'D T	L	ØD	HA	Fits Models
MS0535	M5	1.4	12	10	H75, V100, V75, V75X
MS0650	M6	2.0	12	10	V150, V200, H150, P200, P250, P350
MS0865	M8	2.56	20	13	V250, V300, CV250, P300, P550, P600, P600L, P600X
MS1085	M10	3.35	20	15	V350, CV350, H350, P400, P450, P750, P1200, P1200L, P1200X
MS12100	M12	4.0	25	20	V450, VA700, VA1200, H45C, H700, V450X
MS16150	M16	6.0	45	30	V550, VA2400

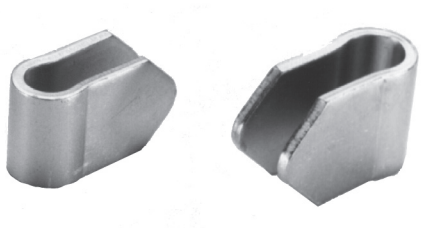
Neoprene Tipped Spindles

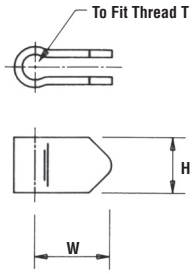




Part #	TH'D T	L	LA	ØD	ØDA	Fits Clamp Model
NTS0432	M4	1.25				P50
NTS0538	M5	1.50	7/16	3/8	1/2	H50, V75, H75, V100, CV75, V75X
NTS0645	M6	1.75	1/2	1/2	5/8	V150, V200, H150, P200, P250, P350, V250, V300, CV250
NTS0865	M8	2.56	5/8	5/8	7/8	P300, P550, P600, P600L, P600X, V350, CV350
NTS1085	M10	3.34	3/4	7/8	1 1/16	H350, P400, P450, P750, P1200, P1200L, P1200X, V450, VA700
NTS12100	M12	4.00	1	1	1 3/16	VA1200, H450, H700, V450X

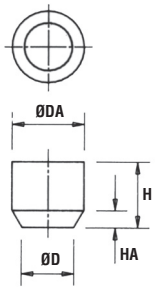
Spindle Retainers - To Fit Spindles and Setscrews





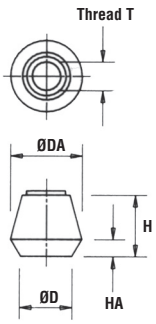
Part #	TH'D T	H	W	Fits Clamp Models With Type A Arm
R/08	M8	11/16	15/16	V250, H250, V300
R/10	M10	7/8	1 3/16	V350, H350
R/12	M12	1 1/32	1 17/64	V450, H450
R/16	M16	1 1/4	1 3/8	V550

Neoprene Setscrew Covers



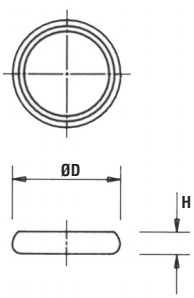
Part #	H	HA	ØD	ØDA	Fits Screw
NC/04	5/16	5/32	9/32	7/16	MB0420
NC/05	3/8	5/32	7/16	1/2	MB0525, MB0535
NC/06	1/2	5/32	1/2	19/32	MB0650
NC/08	19/32	1/4	1/2	3/4	MB0860
NC/10	11/16	9/32	5/8	7/8	MB1080
NC/12	25/32	9/32	3/4	1 1/32	MB1260, MB12100

Neoprene Pads - To Fit Plain Spindles



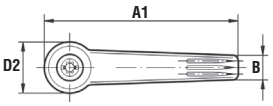
Part #	TH'D T	H	HA	ØD	ØDA	Fits Spindle
NP/05	-	3/8	5/64	-	15/32	M0525, M0535
NP/06	M6	1/2	1/8	7/16	5/8	M0650
NP/08	M8	11/16	5/32	19/32	13/16	M0865
NP/10	M10	1	5/16	13/16	1 3/16	M1085
NP/12	M12	1	5/16	13/16	1 3/16	M12100

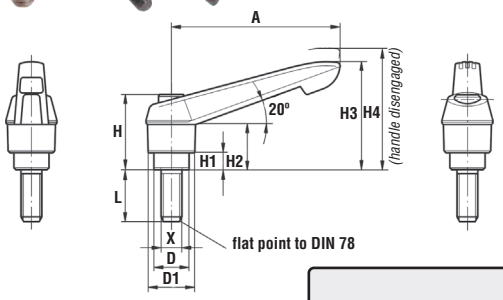
Plastic Covers - To Fit Swivel Foot Spindles



Part #	ØD	H	Fits Spindle
NPS/05/06	5/8	1/4	MS0535, MS0650
NPS/08/10	15/16	3/8	MS0865, MS1085
NPS/12	1 3/16	3/8	MS12100

Clamp Levers - External Thread and Plastic Handle





- Handle in glass-fibre reinforced plastic with toothed wheel in die cast zinc, steel parts quality class 5.8 or steel parts in stainless steel, 1.4305
- Steel black oxide surface finish or stainless steel natural finish
- Standard colours are anthracite gray RAL 7021 and orange RAL 2004

STAINLESS STEEL COMPONENTS

Item No (inch)	Item No. (metric)	Size	External Thread X* (inch)	(metric)	H1**	L = bolt length in mm							
06610-1A0X	06610-105X	1	10-24	M5	4	-	15	20	25	-	-	50	-
06610-1A1X	-	1	10-32	-	4	-	15	20	25	-	-	50	-
06610-1A2X	06610-106X	1	¼-20	M6	4	10	15	20	25	30	40	50	-
06610-2A2X	06610-206X	2	¼-20	M6	6.5	-	15	20	25	30	40	50	60
06610-2A3X	06610-208X	2	5⁄16-18	M8	6.5	-	15	20	25	30	40	50	60
06610-2A4X	06610-210X	2	⅜-16	M10	6.5	-	-	20	25	30	40	50	60
06610-3A3X	06610-308X	3	5⁄16-18	M8	10	-	-	20	25	30	40	50	60
06610-3A4X	06610-310X	3	⅜-16	M10	10	-	-	20	25	30	40	50	60
06610-4A5X	06610-412X	4	½-13	M12	10	-	-	-	25	30	40	50	60
06610-5A6X	06610-516X	5	⅝-11	M16	12	-	-	-	-	30	40	50	60

*Other external threads and screw lengths available on request **Dimension 'H1' available in other lengths at extra charge

disengage
by lifting

STEEL COMPONENTS

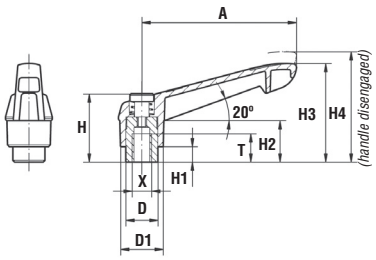
Item No (inch)	Item No. (metric)	Size	External Thread X* (inch)	(metric)	H1**	L = bolt length in mm												
06610-1A0X	06610-105X	1	10-24	M5	4	10	15	20	25	30	35	40	45	50	-	-	-	-	-
06610-1A1X	-	1	10-32	-	4	10	15	20	25	30	35	40	45	50	-	-	-	-	-
06610-1A2X	06610-106X	1	¼-20	M6	4	10	15	20	25	30	35	40	45	50	-	-	-	-	-
06610-2A2X	06610-206X	2	¼-20	M6	6.5	-	15	20	25	30	35	40	45	50	55	60	-	-	-
06610-2A3X	06610-208X	2	5⁄16-18	M8	6.5	-	15	20	25	30	35	40	45	50	55	60	-	-	-
06610-2A4X	06610-210X	2	⅜-16	M10	6.5	-	15	20	25	30	35	40	45	50	55	60	-	-	-
06610-3A3X	06610-308X	3	5⁄16-18	M8	10	-	15	20	25	30	35	40	45	50	55	60	-	-	-
06610-3A4X	06610-310X	3	⅜-16	M10	10	-	15	20	25	30	35	40	45	50	55	60	-	-	-
06610-4A4X	06610-410X	4	⅜-16	M10	10	-	-	20	25	30	35	40	45	50	55	60	70	80	90
06610-4A5X	06610-412X	4	½-13	M12	10	-	-	20	25	30	35	40	45	50	55	60	70	80	90
06610-5A5X	06610-512X	5	½-13	M12	12	-	-	-	25	30	35	40	45	50	55	60	70	80	90
06610-5A6X	06610-516X	5	⅝-11	M16	12	-	-	-	25	30	35	40	45	50	55	60	70	80	90

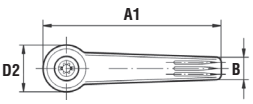
*Other external threads and screw lengths available on request **Dimension 'H1' available in other lengths at extra charge

Clamp Levers - Internal Thread and Plastic Handle

disengage
by lifting

- Handle in glass-fibre reinforced plastic with toothed wheel in die cast zinc, steel parts quality class 5.8
- Steel parts black oxide surface finish
- Standard colours are anthracite gray RAL 7021 and orange RAL 2004

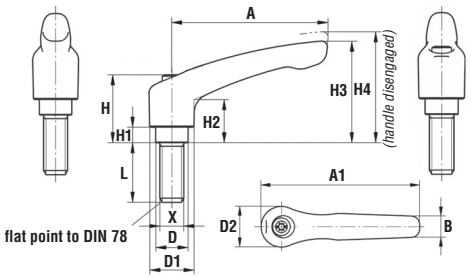




Inch Item No. (steel)	Inch Item No. (st. steel)	Metric Item No. (steel)	Metric Item No. (st. steel)	Size	External Thread X* (inch)	(metric)	T	D	D1	D2	H	H1**	H2	H3	H4	A	A1	B	No. of teeth	Approx weight (kg)
06600-1AE	-	06600-104	-	1	8-32	M4	9	10	13	14.5	24.5	4	15	30	33.5	40	47	7.5	16	0.013
06600-1A0	06601-1A0	06600-105	06601-105	1	10-24	M5	9	10	13	14.5	24.5	4	15	30	33.5	40	47	7.5	16	0.013
06600-1A1	06601-1A1	-	-	1	10-32	-	9	10	13	14.5	24.5	4	15	30	33.5	40	47	7.5	16	0.013
06600-1A2	06601-1A2	06600-106	06601-106	1	¼-20	M6	9	10	13	14.5	24.5	4	15	30	33.5	40	47	7.5	16	0.013
06600-2A2	06601-2A2	06600-206	06601-206	2	¼-20	M6	12	13.5	18	19.5	28.5	6.5	17.5	41.5	45.5	65	75	9.5	20	0.030
06600-2A3	06601-2A3	06600-208	06601-208	2	5⁄16-18	M8	12	13.5	18	19.5	28.5	6.5	17.5	41.5	45.5	65	75	9.5	20	0.030
06600-3A3	06601-3A3	06600-308	06601-308	3	5⁄16-18	M8	14	16	21.5	23	37	10	24	53.5	58	80	91.5	11	22	0.052
06600-3A4	06601-3A4	06600-310	06601-310	3	⅜-16	M10	14	16	21.5	23	37	10	24	53.5	58	80	91.5	11	22	0.052
06600-4A4	06601-4A4	06600-410	06601-410	4	⅜-16	M10	17	19	25.5	27.5	43	10	26	61	66	95	109	13	24	0.082
06600-4A5	06601-4A5	06600-412	06601-412	4	½-13	M12	17	19	25.5	27.5	43	10	26	61	66	95	109	13	24	0.082
06600-5A5	06601-5A5	06600-512	06601-512	5	½-13	M12	23	23	30	32.5	49	12	33	72	77	110	126	15.5	26	0.136
06600-5A6	06601-5A6	06600-516	06601-516	5	⅝-11	M16	23	23	30	32.5	49	12	33	72	77	110	126	15.5	26	0.136

*Other inserts available on request **Dimension 'H1' available in other lengths at extra charge

Clamp Levers - External Thread



- Handle in die cast zinc to DIN 1743, steel parts quality class 5.8 or steel parts in stainless steel, 1.4305
- Plastic coated handle and steel black oxide surface finish or stainless steel natural finish
- Standard colours are black satin finish and Orange RAL 2004
- Other colours available on request

STAINLESS STEEL COMPONENTS

Inch Item No (black satin)	Inch Item No. (orange)	Metric Item No. (black satin)	Metric Item No. (orange)	Size	External Thread X* (inch)	External Thread X* (metric)	L = bolt length in mm							
06461-1A01X	06461-1A02X	06461-1051X	06461-1052X	1	10-24	M5	-	15	20	25	-	-	-	-
06461-1A11X	06461-1A12X	-	-	1	10-32	-	-	15	20	25	-	-	-	-
06461-1A21X	06461-1A22X	06461-1061X	06461-1062X	1	¼-20	M6	10	15	20	25	30	40	50	-
06461-2A21X	06461-2A22X	06461-2061X	06461-2062X	2	¼-20	M6	-	15	20	25	30	40	50	60
06461-2A31X	06461-2A32X	06461-2081X	06461-2082X	2	5/16-18	M8	-	15	20	25	30	40	50	60
06461-2A41X	06461-2A42X	06461-2101X	06461-2102X	2	⅜-16	M10	-	-	20	25	30	40	50	60
06461-3A31X	06461-3A32X	06461-3081X	06461-3082X	3	5/16-18	M8	-	-	20	25	30	40	50	60
06461-3A41X	06461-3A42X	06461-3101X	06461-3101X	3	⅜-16	M10	-	-	20	25	30	40	50	60
06461-4A51X	06461-4A52X	06610-4121X	06610-4122X	4	½-13	M12	-	-	-	25	30	40	50	60
06461-5A61X	06461-5A62X	06610-5161X	06610-5162X	5	⅝-11	M16	-	-	-	-	30	40	50	60

*Other external threads and screw lengths available on request

disengage by lifting

STEEL COMPONENTS

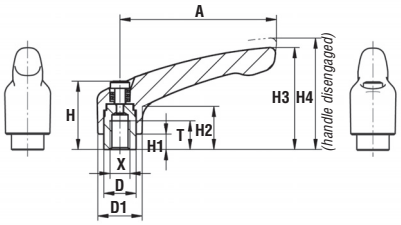
Inch Item No. (black satin)	Inch Item No. (orange)	Metric Item No. (black satin)	Metric Item No. (orange)	Size	External Thread X* (inch)	External Thread X* (metric)	H1**	L = bolt length in mm											
06460-1A01X	06460-1A02X	06460-1051X	06460-1052X	1	10-24	M5	4	10	15	20	25	30	35	40	45	50	-	-	-	-	-
06460-1A11X	06460-1A12X	-	-	1	10-32	-	4	10	15	20	25	30	35	40	45	50	-	-	-	-	-
06460-1A21X	06460-1A22X	06460-1061X	06460-1062X	1	¼-20	M6	4	10	15	20	25	30	35	40	45	50	-	-	-	-	-
06460-2A21X	06460-2A22X	06460-2061X	06460-2062X	2	¼-20	M6	6.5	-	15	20	25	30	35	40	45	50	55	60	-	-	-
06460-2A31X	06460-2A32X	06460-2081X	06460-2082X	2	5/16-18	M8	6.5	-	15	20	25	30	35	40	45	50	55	60	-	-	-
06460-2A41X	06460-2A42X	06460-2101X	06460-2102X	2	⅜-16	M10	6.5	-	15	20	25	30	35	40	45	50	55	60	-	-	-
06460-3A31X	06460-3A32X	06460-3081X	06460-3082X	3	5/16-18	M8	10	-	15	20	25	30	35	40	45	50	55	60	-	-	-
06460-3A41X	06460-3A42X	06460-3101X	06460-3102X	3	⅜-16	M10	10	-	15	20	25	30	35	40	45	50	55	60	-	-	-
06460-4A51X	06460-4A52X	06460-4101X	06460-4102X	4	⅜-16	M10	10	-	-	20	25	30	35	40	45	50	55	60	70	80	90
06460-4A51X	06460-4A52X	06460-4121X	06460-4122X	4	½-13	M12	10	-	-	20	25	30	35	40	45	50	55	60	70	80	90
06460-5A51X	06460-5A52X	06460-5121X	06460-5122X	5	½-13	M12	12	-	-	-	25	30	35	40	45	50	55	60	70	80	90
06460-5A61X	06460-5A62X	06460-5161X	06460-5162X	5	⅝-11	M16	12	-	-	-	25	30	35	40	45	50	55	60	70	80	90

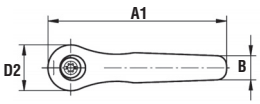
*Other external threads and screw lengths available on request **Dimension 'H1' available in other lengths at extra charge

Clamp Levers - Internal Thread

disengage by lifting

- Handle in die cast zinc to DIN 1743, steel parts quality class 5.8
- Plastic coated handle and steel black oxide surface finish
- Standard colours are black satin finish and orange RAL 2004
- Other colours available on request





Inch Item No. (black satin)	Inch Item No. (orange)	Metric Item No. (black satin)	Metric Item No. (orange)	Size	External Thread X* (inch)	External Thread X* (metric)	T	D	D1	D2	H	H1**	H2	H3	H4	A	A1	B	No. of teeth	Approx weight (kg)
06450-1041	06450-1042	06450-1AE1	06450-1AE2	1	M4	8-32	9	10	13	14	24.5	4	14.5	31	34	40	47	7	16	0.040
06450-1051	06450-1052	06450-1A01	06450-1A02	1	M5	10-24	9	10	13	14	24.5	4	14.5	31	34	40	47	7	16	0.040
-	-	06450-1A11	06450-1A12	1	-	10-32	9	10	13	14	24.5	4	14.5	31	34	40	47	7	16	0.040
06450-1061	06450-1062	06450-1A21	06450-1A22	1	M6	¼-20	9	10	13	14	24.5	4	14.5	31	34	40	47	7	16	0.040
06450-2061	06450-2062	06450-2A21	06450-2A22	2	M6	¼-20	12	13.5	18.5	19	28.5	6.5	17.5	42.5	45.5	65	74.5	9.5	20	0.090
06450-2081	06450-2082	06450-2A31	06450-2A32	2	M8	5/16-18	12	13.5	18.5	19	28.5	6.5	17.5	42.5	45.5	65	74.5	9.5	20	0.090
06450-3081	06450-3082	06450-3A31	06450-3A32	3	M8	5/16-18	14	16	21	22	37	10	24	54.5	58.5	80	91	11	22	0.130
06450-3101	06450-3102	06450-3A41	06450-3A42	3	M10	⅜-16	14	16	21	22	37	10	24	54.5	58.5	80	91	11	22	0.130
06450-4101	06450-4102	06450-4A41	06450-4A42	4	M10	⅜-16	17	19	27	27.5	43	10	27	63	67.5	95	109	13	24	0.210
06450-4121	06450-4122	06450-4A51	06450-4A52	4	M12	½-13	17	19	27	27.5	43	10	27	63	67.5	95	109	13	24	0.210
06450-5121	06450-5122	06450-5A51	06450-5A52	5	M12	½-13	23	23	31	32	49	12	31.5	73	77.5	110	126	15	26	0.330
06450-5161	06450-5162	06450-5A62	06450-5A61	5	M16	⅝-11	23	23	31	32	49	12	31.5	73	77.5	110	126	15	26	0.330

*Other inserts available on request **Dimension 'H1' available in other lengths at extra charge

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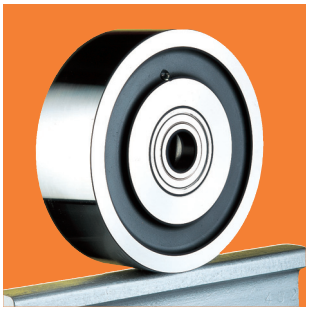
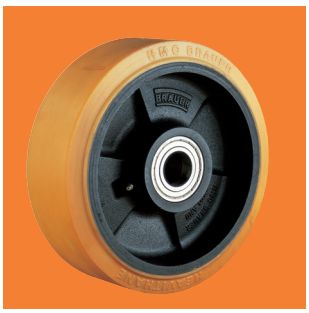
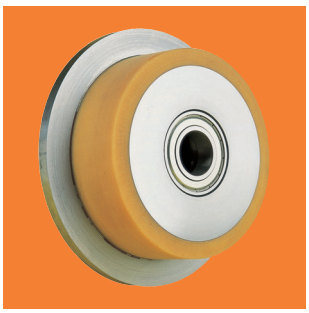


Polyurethane Press-on Band Tyred Wheels

Polyurethane Tyred Wheels



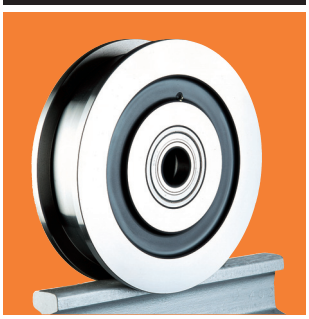
Polyurethane Tyred Single Flanged Rail Wheels



Steel Single Flanged Rail Wheel

Single Flanged 'I' Beam & Channel Wheels

Steel Double Flanged Rail Wheels



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AM10
Fixed Gap Airmovers

MATERIALS: Zinc Alloy
I.D. 10mm **WEIGHT:** 0.100Kg
STANDARD GAP: 0.05mm

AM35
Fixed Gap Airmover

MATERIALS: Zinc Alloy & Alumin.
I.D. 35mm **WEIGHT:** 0.19Kg
STANDARD GAP: 0.05mm

AM40
Fixed Gap Airmover

MATERIALS: Zinc Alloy
WEIGHT: 0.9Kg
STANDARD GAP: 0.05mm

AM75
Fixed Gap Airmover

MATERIALS: Zinc Alloy
WEIGHT: 2.7Kg
STANDARD GAP: 0.05mm

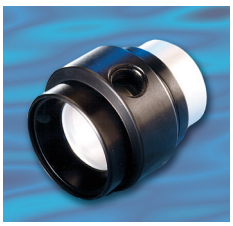
AM125
Fixed Gap Airmovers

MATERIALS: Aluminium Alloy
I.D. 125mm **WEIGHT:** 7.55Kg
STANDARD GAP: 0.15mm

AM20A
Adjustable Airmover

MATERIALS: Aluminium Alloy
I.D. 20mm **WEIGHT:** 0.13Kg
STANDARD GAP: Adjustable

AM35A
Adjustable Airmover



MATERIALS: Aluminium Alloy
I.D. 35mm **WEIGHT:** 0.28Kg
STANDARD GAP: Adjustable

SS10A
Stainless Steel Airmover

MATERIALS: Stainless Steel
I.D. 10mm **WEIGHT:** 0.13Kg
STANDARD GAP: Adjustable

AA10A - Acetal
Adjustable Airmover

MATERIALS: Acetal Copolymer
I.D. 10mm **WEIGHT:** 0.05Kg
STANDARD GAP: Adjustable

Ring Blade

MATERIALS: Aluminium & S.steel
STANDARD GAP: 0.05mm
DBA at: 5.5 bar is 80

EV8
Extractor Ventilator

MATERIALS: GRP
WEIGHT: 7Kg
DBA at: 5.5 bar is 75

DP175
Liquid Drum Pump

MATERIALS: Stainless Steel/Nylon
WEIGHT: 1.6Kg
DBA at: 5.5 bar is 92

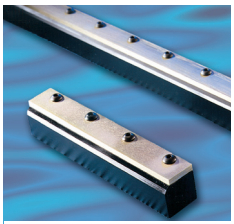
CG4
Cold Air Gun

MATERIALS: Stainless Steel
WEIGHT: 1.7Kg
DBA at: 5.5 bar is 80

AG32LC
Blow Gun

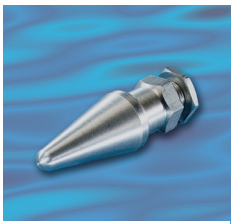
MATERIALS: Aluminium alloy
WEIGHT: 0.54Kg
STANDARD GAP: Adjustable

AG32LC - Strip
(Air Curtain) Airmover



MAT.: Alumin./Zinc plated steel
WEIGHT: 0.3Kg
STANDARD GAP: 0.05-0.10mm

Airmiser Nozzles



MATERIALS: Aluminium alloy
WEIGHT: 0.025Kg
STANDARD GAP: 0.15

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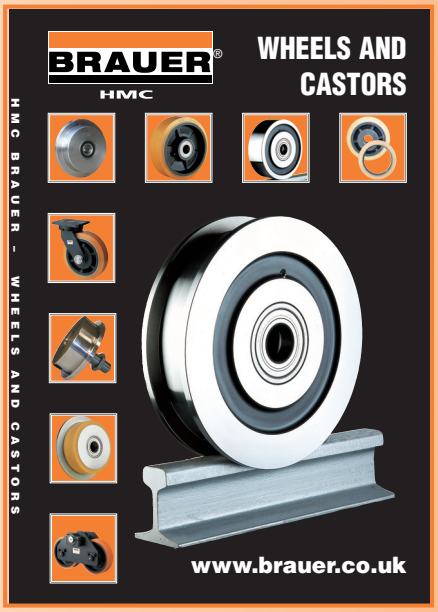

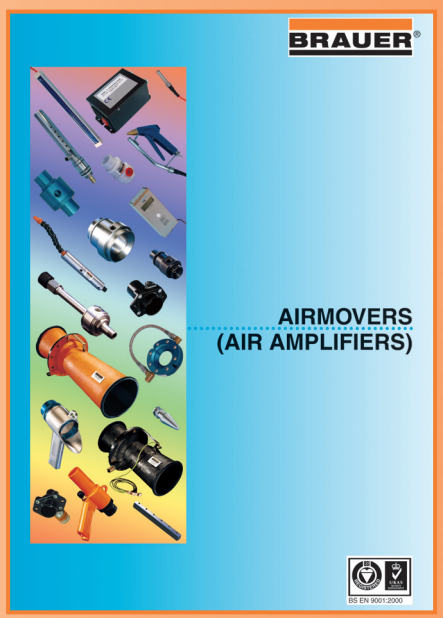

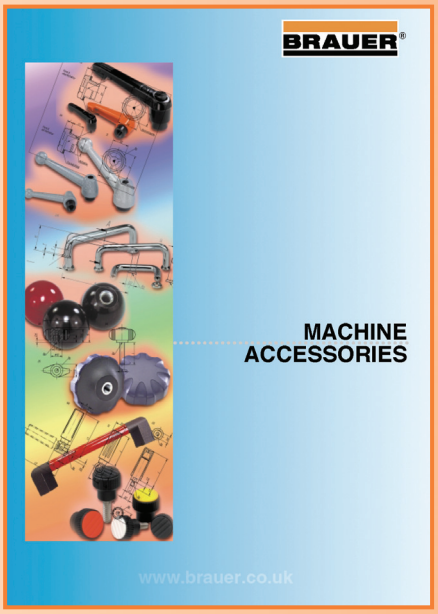

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